**Emotion (single-site) Subcortex**

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.63544184 | < 0.001 | 7851 | MALL |
| 0.618690431 | < 0.001 | 117245 | HRASLS5 |
| 0.618205607 | < 0.001 | 79633 | FAT4 |
| 0.614138007 | < 0.001 | 286133 | SCARA5 |
| 0.61343956 | < 0.001 | 84719 | LINC00260 |
| 0.612739086 | < 0.001 | 55897 | MESP1 |
| 0.604625404 | < 0.001 | 59342 | SCPEP1 |
| 0.604032457 | < 0.001 | 8935 | SKAP2 |
| 0.598935783 | < 0.001 | 22930 | RAB3GAP1 |
| 0.597995698 | < 0.001 | 1393 | CRHBP |
| 0.596665025 | < 0.001 | 5423 | POLB |
| 0.592611015 | < 0.001 | 642852 | LOC642852 |
| 0.591069698 | < 0.001 | 9342 | SNAP29 |
| 0.59097296 | < 0.001 | 23379 | KIAA0947 |
| 0.589225054 | < 0.001 | 342979 | AC022098.3 |
| 0.584952354 | < 0.001 | 54475 | NLE1 |
| 0.583401978 | < 0.001 | 3957 | LGALS2 |
| 0.583095253 | < 0.001 | 340419 | RSPO2 |
| 0.582629979 | < 0.001 | 5136 | PDE1A |
| 0.581990659 | < 0.001 | 3990 | LIPC |
| 0.581290245 | < 0.001 | 117581 | TWIST2 |
| 0.58062005 | < 0.001 | 27202 | GPR77 |
| 0.580504298 | < 0.001 | 253582 | C6orf191 |
| 0.580268919 | < 0.001 | 902 | CCNH |
| 0.578025222 | < 0.001 | 51538 | ZCCHC17 |
| 0.57534647 | < 0.001 | 56990 | CDC42SE2 |
| 0.574061334 | < 0.001 | 5733 | PTGER3 |
| 0.569032371 | < 0.001 | 91663 | MYADM |
| 0.568460464 | < 0.001 | 10534 | SSSCA1 |
| 0.568352282 | < 0.001 | 282969 | C10orf125 |
| 0.567745388 | < 0.001 | 139221 | MUM1L1 |
| 0.56400013 | < 0.001 | 342184 | FMN1 |
| 0.563577592 | < 0.001 | 154075 | SAMD3 |
| 0.563183486 | < 0.001 | 5734 | PTGER4 |
| 0.562810957 | < 0.001 | 55253 | TYW1 |
| 0.559732258 | < 0.001 | 91368 | CDKN2AIPNL |
| 0.558957458 | < 0.001 | 26007 | DAK |
| 0.558184564 | < 0.001 | 10535 | RNASEH2A |
| 0.556302667 | < 0.001 | 5624 | PROC |
| 0.555503428 | < 0.001 | 5865 | RAB3B |
| 0.555376053 | < 0.001 | 374969 | CCDC23 |
| 0.555271029 | < 0.001 | 255022 | CALHM1 |
| 0.554882348 | < 0.001 | 255426 | RASGEF1C |
| 0.554464936 | < 0.001 | 23643 | LY96 |
| 0.553847313 | < 0.001 | 80816 | ASXL3 |
| 0.553043783 | < 0.001 | 8704 | B4GALT2 |
| 0.551643729 | < 0.001 | 114798 | SLITRK1 |
| 0.551535487 | < 0.001 | 64860 | ARMCX5 |
| 0.551389575 | < 0.001 | 55907 | CMAS |
| 0.551014006 | < 0.001 | 29986 | SLC39A2 |
| 0.550206184 | < 0.001 | 2764 | GMFB |
| 0.549906135 | < 0.001 | 338761 | C1QL4 |
| 0.549808621 | < 0.001 | 81617 | CAB39L |
| 0.548884034 | < 0.001 | 10361 | NPM2 |
| 0.548569322 | < 0.001 | 23151 | GRAMD4 |
| 0.548013628 | < 0.001 | 54328 | GPR173 |
| 0.547345102 | < 0.001 | 50810 | AC024270.1 |
| 0.547110558 | < 0.001 | 6304 | SATB1 |
| 0.545974195 | < 0.001 | 4861 | NPAS1 |
| 0.545728087 | < 0.001 | 881 | CCIN |
| 0.544784188 | < 0.001 | 5921 | RASA1 |
| 0.544021904 | < 0.001 | 4707 | NDUFB1 |
| 0.542921662 | < 0.001 | 7280 | TUBB2A |
| 0.541979551 | < 0.001 | 10947 | AP3M2 |
| 0.541659355 | < 0.001 | 126353 | C19orf21 |
| 0.541431546 | < 0.001 | 80086 | TUBA4B |
| 0.541377485 | < 0.001 | 25809 | TTLL1 |
| 0.541348994 | < 0.001 | 5961 | PRPH2 |
| 0.541256249 | < 0.001 | 9759 | HDAC4 |
| 0.541012406 | < 0.001 | 114801 | TMEM200A |
| 0.540145755 | < 0.001 | 6578 | SLCO2A1 |
| 0.539928615 | < 0.001 | 79931 | TNIP3 |
| 0.539462566 | < 0.001 | 116113 | FOXP4 |
| 0.539075613 | < 0.001 | 440895 | AC013271.3 |
| 0.538272142 | < 0.001 | 65990 | FAM173A |
| 0.537954628 | < 0.001 | 123355 | LRRC28 |
| 0.537194192 | < 0.001 | 9465 | AKAP7 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.865122259 | 1.3834E-09 | < 0.001 | < 0.001 | 282969 | C10orf125 |
| 0.840926588 | 5.87854E-08 | < 0.001 | < 0.001 | 138428 | PTRH1 |
| 0.818018019 | 1.40611E-07 | < 0.001 | < 0.001 | 342979 | AC022098.3 |
| 0.817245781 | 1.43868E-07 | < 0.001 | < 0.001 | 100126793 | GHRLOS |
| 0.816988409 | 1.44964E-07 | < 0.001 | < 0.001 | 55609 | ZNF280C |
| 0.816216171 | 1.48266E-07 | < 0.001 | < 0.001 | 123041 | SLC24A4 |
| 0.806949794 | 1.90778E-07 | < 0.001 | < 0.001 | 54475 | NLE1 |
| 0.805920184 | 1.95851E-07 | < 0.001 | < 0.001 | 2523 | FUT1 |
| 0.803346157 | 2.0886E-07 | < 0.001 | < 0.001 | 2203 | FBP1 |
| 0.802831411 | 2.1152E-07 | < 0.001 | < 0.001 | 124045 | C16orf55 |
| 0.799742579 | 2.27924E-07 | < 0.001 | < 0.001 | 7851 | MALL |
| 0.797425985 | 2.40751E-07 | < 0.001 | < 0.001 | 9620 | CELSR1 |
| 0.795366764 | 2.52558E-07 | < 0.001 | < 0.001 | 9334 | B4GALT5 |
| 0.795109391 | 2.54061E-07 | < 0.001 | < 0.001 | 5163 | PDK1 |
| 0.791763186 | 2.74232E-07 | < 0.001 | < 0.001 | 255426 | RASGEF1C |
| 0.790476203 | 2.82318E-07 | < 0.001 | < 0.001 | 51538 | ZCCHC17 |
| 0.788674355 | 2.93972E-07 | < 0.001 | < 0.001 | 819 | CAMLG |
| 0.788159609 | 2.97372E-07 | < 0.001 | < 0.001 | 126402 | CCDC105 |
| 0.785842955 | 3.1312E-07 | < 0.001 | < 0.001 | 256281 | NUDT14 |
| 0.784555972 | 3.22199E-07 | < 0.001 | < 0.001 | 9166 | EBAG9 |
| 0.783783793 | 3.27772E-07 | < 0.001 | < 0.001 | 388581 | FAM132A |
| 0.782239377 | 3.3919E-07 | < 0.001 | < 0.001 | 51031 | GLOD4 |
| 0.780180156 | 3.55058E-07 | < 0.001 | < 0.001 | 2779 | GNAT1 |
| 0.779150546 | 3.63281E-07 | < 0.001 | < 0.001 | 5423 | POLB |
| 0.778893173 | 3.65366E-07 | < 0.001 | < 0.001 | 113452 | TMEM54 |
| 0.778378367 | 3.69584E-07 | < 0.001 | < 0.001 | 80213 | TM2D3 |
| 0.775546908 | 3.93777E-07 | < 0.001 | < 0.001 | 91663 | MYADM |
| 0.775032163 | 3.98373E-07 | < 0.001 | < 0.001 | 23379 | KIAA0947 |
| 0.774002552 | 4.07751E-07 | < 0.001 | < 0.001 | 55591 | VEZT |
| 0.771171212 | 4.34954E-07 | < 0.001 | < 0.001 | 79931 | TNIP3 |
| 0.769369364 | 4.53462E-07 | < 0.001 | < 0.001 | 4938 | OAS1 |
| 0.767567575 | 4.72993E-07 | < 0.001 | < 0.001 | 642852 | LOC642852 |
| 0.765765786 | 4.93641E-07 | < 0.001 | < 0.001 | 8935 | SKAP2 |
| 0.765508354 | 4.96695E-07 | < 0.001 | < 0.001 | 10121 | ACTR1A |
| 0.763963938 | 5.1553E-07 | < 0.001 | < 0.001 | 340542 | BEX5 |
| 0.763449192 | 5.22019E-07 | < 0.001 | < 0.001 | 54843 | SYTL2 |
| 0.761389971 | 5.49146E-07 | < 0.001 | < 0.001 | 5441 | POLR2L |
| 0.760875165 | 5.56221E-07 | < 0.001 | < 0.001 | 55733 | HHAT |
| 0.758558512 | 5.89716E-07 | < 0.001 | < 0.001 | 55003 | PAK1IP1 |
| 0.758558512 | 5.89716E-07 | < 0.001 | < 0.001 | 340419 | RSPO2 |
| 0.757014155 | 6.13632E-07 | < 0.001 | < 0.001 | 80274 | SCUBE1 |
| 0.755469739 | 6.38929E-07 | < 0.001 | < 0.001 | 26232 | FBXO2 |
| 0.754954934 | 6.47678E-07 | < 0.001 | < 0.001 | 10133 | OPTN |
| 0.753410518 | 6.74993E-07 | < 0.001 | < 0.001 | 84837 | RP11-431H16.2 |
| 0.751608729 | 7.08922E-07 | < 0.001 | < 0.001 | 84668 | FAM126A |
| 0.750064313 | 7.39944E-07 | < 0.001 | < 0.001 | 10534 | SSSCA1 |
| 0.750064313 | 7.39944E-07 | < 0.001 | < 0.001 | 84958 | SYTL1 |
| 0.749549568 | 7.50708E-07 | < 0.001 | < 0.001 | 5624 | PROC |
| 0.749549568 | 7.50708E-07 | < 0.001 | < 0.001 | 55907 | CMAS |
| 0.745431185 | 8.45129E-07 | < 0.001 | < 0.001 | 154075 | SAMD3 |
| 0.74491632 | 8.58053E-07 | < 0.001 | < 0.001 | 64860 | ARMCX5 |
| 0.744401574 | 8.7125E-07 | < 0.001 | < 0.001 | 57670 | KIAA1549 |
| 0.744144142 | 8.77965E-07 | < 0.001 | < 0.001 | 10653 | AC011479.2 |
| 0.743629336 | 8.91589E-07 | < 0.001 | < 0.001 | 59345 | GNB4 |
| 0.742857099 | 9.12552E-07 | < 0.001 | < 0.001 | 151507 | MSL3P1 |
| 0.741055369 | 9.64136E-07 | < 0.001 | < 0.001 | 3718 | JAK3 |
| 0.740283072 | 9.8743E-07 | < 0.001 | < 0.001 | 902 | CCNH |
| 0.740283072 | 9.8743E-07 | < 0.001 | < 0.001 | 1393 | CRHBP |
| 0.740283072 | 9.8743E-07 | < 0.001 | < 0.001 | 1491 | CTH |
| 0.737451732 | 1.07951E-06 | < 0.001 | < 0.001 | 64769 | MEAF6 |
| 0.736679554 | 1.10654E-06 | < 0.001 | < 0.001 | 6659 | SOX4 |
| 0.736164689 | 1.12507E-06 | < 0.001 | < 0.001 | 22950 | SLC4A1AP |
| 0.735135078 | 1.16332E-06 | < 0.001 | < 0.001 | 148479 | PHF13 |
| 0.734620333 | 1.18307E-06 | < 0.001 | < 0.001 | 53353 | LRP1B |
| 0.733333349 | 1.23434E-06 | < 0.001 | < 0.001 | 23643 | LY96 |
| 0.731274128 | 1.32237E-06 | < 0.001 | < 0.001 | 10200 | MPHOSPH6 |
| 0.730759323 | 1.34559E-06 | < 0.001 | < 0.001 | 59342 | SCPEP1 |
| 0.730759323 | 1.34559E-06 | < 0.001 | < 0.001 | 221074 | SLC39A12 |
| 0.73050195 | 1.35736E-06 | < 0.001 | < 0.001 | 81617 | CAB39L |
| 0.730244517 | 1.36932E-06 | < 0.001 | < 0.001 | 57823 | SLAMF7 |
| 0.729987085 | 1.38135E-06 | < 0.001 | < 0.001 | 56063 | C1orf91 |
| 0.729472339 | 1.40588E-06 | < 0.001 | < 0.001 | 440435 | GPR179 |
| 0.728957534 | 1.43092E-06 | < 0.001 | < 0.001 | 27253 | PCDH17 |
| 0.727927923 | 1.48266E-06 | < 0.001 | < 0.001 | 26094 | DCAF4 |
| 0.727670491 | 1.49595E-06 | < 0.001 | < 0.001 | 5917 | RARS |
| 0.727670491 | 1.49595E-06 | < 0.001 | < 0.001 | 10965 | ACOT2 |
| 0.727413118 | 1.50936E-06 | < 0.001 | < 0.001 | 51715 | RAB23 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.536276817 | < 0.001 | 1264 | CNN1 |
| 0.53621316 | < 0.001 | 1950 | EGF |
| 0.534398437 | < 0.001 | 493 | ATP2B4 |
| 0.533013165 | < 0.001 | 401232 | RP1-90J20.7 |
| 0.532896817 | < 0.001 | 148014 | TTC9B |
| 0.532428682 | < 0.001 | 93082 | NEURL3 |
| 0.532357514 | < 0.001 | 56950 | SMYD2 |
| 0.532067299 | < 0.001 | 259236 | TMIE |
| 0.531567872 | < 0.001 | 10882 | AC015936.3 |
| 0.531279325 | < 0.001 | 59269 | HIVEP3 |
| 0.531278551 | < 0.001 | 54843 | SYTL2 |
| 0.531230032 | < 0.001 | 151507 | MSL3P1 |
| 0.531156123 | < 0.001 | 126567 | FAM148C |
| 0.531143308 | < 0.001 | 401472 | FLJ45248 |
| 0.530109823 | < 0.001 | 4325 | MMP16 |
| 0.53002882 | < 0.001 | 51291 | GMIP |
| 0.529702842 | < 0.001 | 8663 | EIF3S8 |
| 0.529260099 | < 0.001 | 84628 | NTNG2 |
| 0.528217673 | < 0.001 | 221491 | C6orf1 |
| 0.52780968 | < 0.001 | 6660 | SOX5 |
| 0.5267452 | < 0.001 | 54331 | GNG2 |
| 0.526495814 | < 0.001 | 84656 | AC020663.1 |
| 0.526323259 | < 0.001 | 53353 | LRP1B |
| 0.526319742 | < 0.001 | 25945 | PVRL3 |
| 0.525725305 | < 0.001 | 10200 | MPHOSPH6 |
| 0.525475085 | < 0.001 | 22898 | DENND3 |
| 0.524845719 | < 0.001 | 27338 | UBE2S |
| 0.524410725 | < 0.001 | 8499 | PPFIA2 |
| 0.523271084 | < 0.001 | 819 | CAMLG |
| 0.522161901 | < 0.001 | 29844 | TFPT |
| 0.521997869 | < 0.001 | 2520 | GAST |
| 0.521640718 | < 0.001 | 55591 | VEZT |
| 0.521421313 | < 0.001 | 148479 | PHF13 |
| 0.521192908 | < 0.001 | 388581 | FAM132A |
| 0.520679891 | < 0.001 | 26256 | CABYR |
| 0.520412862 | < 0.001 | 54958 | TMEM160 |
| 0.519973755 | < 0.001 | 389658 | FAM150A |
| 0.51985997 | < 0.001 | 203068 | TUBB |
| 0.51954186 | < 0.001 | 740 | MRPL49 |
| 0.518176496 | < 0.001 | 79712 | GTDC1 |
| 0.518066585 | < 0.001 | 2523 | FUT1 |
| 0.517959893 | < 0.001 | 23467 | NPTXR |
| 0.517800093 | < 0.001 | 758 | MPPED1 |
| 0.517506838 | < 0.001 | 654433 | AC016683.6 |
| 0.517327249 | < 0.001 | 4155 | MBP |
| 0.517255485 | < 0.001 | 80790 | AC099524.1 |
| 0.51688683 | < 0.001 | 23046 | KIF21B |
| 0.515969217 | < 0.001 | 1008 | CDH10 |
| 0.515855849 | < 0.001 | 161829 | EXD1 |
| 0.515333593 | < 0.001 | 100191040 | AL589765.4 |
| 0.515237927 | < 0.001 | 4355 | MPP2 |
| 0.514707625 | < 0.001 | 79814 | AGMAT |
| 0.514455438 | < 0.001 | 138428 | PTRH1 |
| 0.513513744 | < 0.001 | 2203 | FBP1 |
| 0.513420999 | < 0.001 | 9537 | TP53I11 |
| 0.513328373 | < 0.001 | 114884 | OSBPL10 |
| 0.512639225 | < 0.001 | 1025 | CDK9 |
| 0.512224853 | < 0.001 | 80213 | TM2D3 |
| 0.511802137 | < 0.001 | 26038 | CHD5 |
| 0.510605693 | < 0.001 | 57182 | ANKRD50 |
| 0.509865403 | < 0.001 | 5294 | PIK3CG |
| 0.509731054 | < 0.001 | 81563 | C1orf21 |
| 0.509702981 | < 0.001 | 285761 | DCBLD1 |
| 0.509673357 | < 0.001 | 51701 | NLK |
| 0.509639561 | < 0.001 | 404636 | FAM45A |
| 0.509624004 | < 0.001 | 148808 | MFSD4 |
| 0.509365261 | < 0.001 | 92 | ACVR2A |
| 0.509078681 | < 0.001 | 9166 | EBAG9 |
| 0.508979917 | < 0.001 | 8735 | MYH13 |
| 0.508669496 | < 0.001 | 23026 | MYO16 |
| 0.508646786 | < 0.001 | 165257 | C1QL2 |
| 0.508407593 | < 0.001 | 9823 | ARMCX2 |
| 0.508300424 | < 0.001 | 91010 | FMNL3 |
| 0.50797689 | < 0.001 | 4097 | MAFG |
| 0.507870674 | < 0.001 | 121268 | RHEBL1 |
| 0.507724106 | < 0.001 | 57495 | KIAA1239 |
| 0.507364035 | < 0.001 | 1488 | CTBP2 |
| 0.507068336 | < 0.001 | 347688 | TUBB8 |
| 0.50706768 | < 0.001 | 7533 | YWHAH |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.726126134 | 1.57875E-06 | < 0.001 | < 0.001 | 9823 | ARMCX2 |
| 0.726126134 | 1.57875E-06 | < 0.001 | < 0.001 | 80381 | CD276 |
| 0.725353897 | 1.62225E-06 | < 0.001 | < 0.001 | 51282 | SCAND1 |
| 0.725353897 | 1.62225E-06 | < 0.001 | < 0.001 | 56990 | CDC42SE2 |
| 0.725096524 | 1.63706E-06 | < 0.001 | < 0.001 | 29081 | METTL5 |
| 0.724839091 | 1.65201E-06 | < 0.001 | < 0.001 | 51458 | RHCG |
| 0.72380954 | 1.71355E-06 | < 0.001 | < 0.001 | 80816 | ASXL3 |
| 0.722522497 | 1.79428E-06 | < 0.001 | < 0.001 | 9014 | TAF1B |
| 0.722522497 | 1.79428E-06 | < 0.001 | < 0.001 | 200879 | LIPH |
| 0.720978141 | 1.89709E-06 | < 0.001 | < 0.001 | 1675 | CFD |
| 0.720978141 | 1.89709E-06 | < 0.001 | < 0.001 | 112812 | FDX1L |
| 0.719948471 | 1.9694E-06 | < 0.001 | < 0.001 | 10361 | NPM2 |
| 0.719691098 | 1.98799E-06 | < 0.001 | < 0.001 | 5031 | P2RY6 |
| 0.719691098 | 1.98799E-06 | < 0.001 | < 0.001 | 10055 | SAE1 |
| 0.719691098 | 1.98799E-06 | < 0.001 | < 0.001 | 387849 | REP15 |
| 0.718404114 | 2.08391E-06 | < 0.001 | < 0.001 | 8655 | DYNLL1 |
| 0.718404114 | 2.08391E-06 | < 0.001 | < 0.001 | 93082 | NEURL3 |
| 0.718146682 | 2.10368E-06 | < 0.001 | < 0.001 | 90480 | GADD45GIP1 |
| 0.717889309 | 2.12375E-06 | < 0.001 | < 0.001 | 55105 | GPATCH2 |
| 0.717889309 | 2.12375E-06 | < 0.001 | < 0.001 | 401097 | AC112641.2 |
| 0.717631936 | 2.14397E-06 | < 0.001 | < 0.001 | 10772 | FUSIP1 |
| 0.717374504 | 2.16442E-06 | < 0.001 | < 0.001 | 138046 | RALYL |
| 0.716859698 | 2.20599E-06 | < 0.001 | < 0.001 | 705 | BYSL |
| 0.71608752 | 2.27007E-06 | < 0.001 | < 0.001 | 57182 | ANKRD50 |
| 0.715830088 | 2.2919E-06 | < 0.001 | < 0.001 | 286207 | C9orf117 |
| 0.715572715 | 2.31393E-06 | < 0.001 | < 0.001 | 6675 | UAP1 |
| 0.713770866 | 2.47504E-06 | < 0.001 | < 0.001 | 65059 | RAPH1 |
| 0.713770866 | 2.47504E-06 | < 0.001 | < 0.001 | 375607 | C7orf52 |
| 0.713513553 | 2.49906E-06 | < 0.001 | < 0.001 | 27338 | UBE2S |
| 0.713256121 | 2.52333E-06 | < 0.001 | < 0.001 | 285753 | C6orf182 |
| 0.711454272 | 2.70062E-06 | < 0.001 | < 0.001 | 7421 | VDR |
| 0.711196899 | 2.72705E-06 | < 0.001 | < 0.001 | 90411 | MCFD2 |
| 0.710682094 | 2.78071E-06 | < 0.001 | < 0.001 | 84628 | NTNG2 |
| 0.709909916 | 2.86341E-06 | < 0.001 | < 0.001 | 55897 | MESP1 |
| 0.709909916 | 2.86341E-06 | < 0.001 | < 0.001 | 728586 | AC068658.1 |
| 0.709652483 | 2.89152E-06 | < 0.001 | < 0.001 | 22898 | DENND3 |
| 0.709137738 | 2.94873E-06 | < 0.001 | < 0.001 | 139221 | MUM1L1 |
| 0.708880305 | 2.97777E-06 | < 0.001 | < 0.001 | 7158 | TP53BP1 |
| 0.708880305 | 2.97777E-06 | < 0.001 | < 0.001 | 55840 | EAF2 |
| 0.708622873 | 3.00714E-06 | < 0.001 | < 0.001 | 23151 | GRAMD4 |
| 0.7083655 | 3.03683E-06 | < 0.001 | < 0.001 | 64805 | P2RY12 |
| 0.7083655 | 3.03683E-06 | < 0.001 | < 0.001 | 84959 | UBASH3B |
| 0.708108127 | 3.06678E-06 | < 0.001 | < 0.001 | 6578 | SLCO2A1 |
| 0.708108127 | 3.06678E-06 | < 0.001 | < 0.001 | 126789 | PUSL1 |
| 0.707593322 | 3.12771E-06 | < 0.001 | < 0.001 | 5294 | PIK3CG |
| 0.707593322 | 3.12771E-06 | < 0.001 | < 0.001 | 5877 | RABIF |
| 0.707335889 | 3.15865E-06 | < 0.001 | < 0.001 | 11091 | WDR5 |
| 0.706306279 | 3.28569E-06 | < 0.001 | < 0.001 | 51569 | UFM1 |
| 0.706048846 | 3.31825E-06 | < 0.001 | < 0.001 | 6304 | SATB1 |
| 0.705791533 | 3.3512E-06 | < 0.001 | < 0.001 | 10882 | AC015936.3 |
| 0.705534101 | 3.38449E-06 | < 0.001 | < 0.001 | 342184 | FMN1 |
| 0.70450449 | 3.52115E-06 | < 0.001 | < 0.001 | 55312 | RFK |
| 0.704247057 | 3.55625E-06 | < 0.001 | < 0.001 | 5645 | PRSS2 |
| 0.704247057 | 3.55625E-06 | < 0.001 | < 0.001 | 123355 | LRRC28 |
| 0.704247057 | 3.55625E-06 | < 0.001 | < 0.001 | 389658 | FAM150A |
| 0.703732312 | 3.62746E-06 | < 0.001 | < 0.001 | 79016 | DDA1 |
| 0.703732312 | 3.62746E-06 | < 0.001 | < 0.001 | 286133 | SCARA5 |
| 0.701158285 | 4.00659E-06 | < 0.001 | < 0.001 | 22930 | RAB3GAP1 |
| 0.700386107 | 4.12813E-06 | < 0.001 | < 0.001 | 2044 | EPHA5 |
| 0.700128675 | 4.1695E-06 | < 0.001 | < 0.001 | 25809 | TTLL1 |
| 0.699613929 | 4.25352E-06 | < 0.001 | < 0.001 | 4074 | M6PR |
| 0.698841691 | 4.38278E-06 | < 0.001 | < 0.001 | 6509 | SLC1A4 |
| 0.698069513 | 4.51611E-06 | < 0.001 | < 0.001 | 9938 | ARHGAP25 |
| 0.698069513 | 4.51611E-06 | < 0.001 | < 0.001 | 83741 | TFAP2D |
| 0.697554648 | 4.60726E-06 | < 0.001 | < 0.001 | 3938 | LCT |
| 0.69678247 | 4.74753E-06 | < 0.001 | < 0.001 | 253582 | C6orf191 |
| 0.696525037 | 4.79522E-06 | < 0.001 | < 0.001 | 23254 | RP1-21O18.1 |
| 0.696267724 | 4.84335E-06 | < 0.001 | < 0.001 | 135154 | C6orf57 |
| 0.695752859 | 4.94125E-06 | < 0.001 | < 0.001 | 642909 | LOC642909 |
| 0.694980681 | 5.09177E-06 | < 0.001 | < 0.001 | 4664 | NAB1 |
| 0.694465876 | 5.19476E-06 | < 0.001 | < 0.001 | 29883 | CNOT7 |
| 0.694465876 | 5.19476E-06 | < 0.001 | < 0.001 | 81573 | ANKRD13C |
| 0.69395107 | 5.29977E-06 | < 0.001 | < 0.001 | 2764 | GMFB |
| 0.693178892 | 5.46131E-06 | < 0.001 | < 0.001 | 9891 | NUAK1 |
| 0.692921519 | 5.51625E-06 | < 0.001 | < 0.001 | 51246 | SHISA5 |
| 0.692406654 | 5.62775E-06 | < 0.001 | < 0.001 | 3840 | KPNA4 |
| 0.691891909 | 5.74154E-06 | < 0.001 | < 0.001 | 6444 | SGCD |
| 0.691119671 | 5.91651E-06 | < 0.001 | < 0.001 | 387103 | C6orf173 |
| 0.690604866 | 6.03613E-06 | < 0.001 | < 0.001 | 92 | ACVR2A |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.507060945 | < 0.001 | 728568 | C12orf73 |
| 0.505816877 | < 0.001 | 10121 | ACTR1A |
| 0.505544543 | < 0.001 | 200879 | LIPH |
| 0.505264878 | < 0.001 | 441027 | TMEM150C |
| 0.504761219 | < 0.001 | 51715 | RAB23 |
| 0.50458616 | < 0.001 | 5918 | RARRES1 |
| 0.504584372 | < 0.001 | 55105 | GPATCH2 |
| 0.504262269 | < 0.001 | 89795 | NAV3 |
| 0.504208684 | < 0.001 | 29951 | PDZRN4 |
| 0.504151106 | < 0.001 | 344787 | ZNF860 |
| 0.504021406 | < 0.001 | 79876 | UBA5 |
| 0.503634334 | < 0.001 | 65059 | RAPH1 |
| 0.502955377 | < 0.001 | 1756 | DMD |
| 0.50286293 | < 0.001 | 257019 | FRMD3 |
| 0.502783418 | < 0.001 | 64131 | XYLT1 |
| 0.501924396 | < 0.001 | 409 | ARRB2 |
| 0.501546085 | < 0.001 | 5076 | PAX2 |
| 0.501179993 | < 0.001 | 85409 | NKD2 |
| 0.501152515 | < 0.001 | 79180 | EFHD2 |
| 0.501092851 | < 0.001 | 2779 | GNAT1 |
| 0.500593841 | < 0.001 | 3350 | HTR1A |
| 0.500021458 | < 0.001 | 84464 | BTBD12 |
| 0.500005126 | < 0.001 | 54809 | SAMD9 |
| 0.499721408 | < 0.001 | 25934 | NIPSNAP3A |
| 0.499476016 | < 0.001 | 90835 | C16orf93 |
| 0.499456316 | < 0.001 | 80206 | FHOD3 |
| 0.499364227 | < 0.001 | 7421 | VDR |
| 0.499305785 | < 0.001 | 55521 | TRIM36 |
| 0.499275595 | < 0.001 | 10313 | RTN3 |
| 0.498934358 | < 0.001 | 11091 | WDR5 |
| 0.497715592 | < 0.001 | 8036 | SHOC2 |
| 0.497115493 | < 0.001 | 374470 | C12orf42 |
| 0.496800065 | < 0.001 | 1386 | ATF2 |
| 0.496733487 | < 0.001 | 342977 | NANOS3 |
| 0.496428698 | < 0.001 | 51162 | EGFL7 |
| 0.496208459 | < 0.001 | 200407 | CREG2 |
| 0.49596566 | < 0.001 | 79016 | DDA1 |
| 0.495246291 | < 0.001 | 10965 | ACOT2 |
| 0.494705528 | < 0.001 | 23002 | DAAM1 |
| 0.494516343 | < 0.001 | 4335 | MNT |
| 0.494244128 | < 0.001 | 57136 | C20orf3 |
| 0.494024068 | < 0.001 | 137362 | GOT1L1 |
| 0.493875533 | < 0.001 | 642909 | LOC642909 |
| 0.493835151 | < 0.001 | 285313 | IGSF10 |
| 0.493703634 | < 0.001 | 64841 | GNPNAT1 |
| 0.493301213 | < 0.001 | 138882 | OR1N2 |
| 0.49302423 | < 0.001 | 8682 | PEA15 |
| 0.492633879 | < 0.001 | 401097 | AC112641.2 |
| 0.491627812 | < 0.001 | 29970 | IQCJ-SCHIP1 |
| 0.491557121 | < 0.001 | 7293 | TNFRSF4 |
| 0.491307735 | < 0.001 | 57181 | SLC39A10 |
| 0.4909105 | < 0.001 | 2629 | GBA |
| 0.490581393 | < 0.001 | 6444 | SGCD |
| 0.490509093 | < 0.001 | 51393 | TRPV2 |
| 0.49041307 | < 0.001 | 285753 | C6orf182 |
| 0.49031049 | < 0.001 | 2044 | EPHA5 |
| 0.490204364 | < 0.001 | 84536 | C21orf67 |
| 0.489621907 | < 0.001 | 1491 | CTH |
| 0.489453822 | < 0.001 | 161 | AP2A2 |
| 0.489334017 | < 0.001 | 808 | CALM3 |
| 0.489011317 | < 0.001 | 441461 | RP11-60I3.5 |
| 0.488879114 | < 0.001 | 1845 | DUSP3 |
| 0.488206893 | < 0.001 | 6045 | RNF2 |
| 0.487772852 | < 0.001 | 84334 | APOPT1 |
| 0.487744182 | < 0.001 | 6675 | UAP1 |
| 0.487717181 | < 0.001 | 408 | ARRB1 |
| 0.486872524 | < 0.001 | 84959 | UBASH3B |
| 0.48662594 | < 0.001 | 9871 | SEC24D |
| 0.486610591 | < 0.001 | 10204 | NUTF2 |
| 0.486320049 | < 0.001 | 23514 | KIAA0146 |
| 0.485677183 | < 0.001 | 79000 | C1orf135 |
| 0.485261977 | < 0.001 | 653145 | ANXA8 |
| 0.485123515 | < 0.001 | 2770 | GNAI1 |
| 0.485117704 | < 0.001 | 121053 | C12orf45 |
| 0.485022187 | < 0.001 | 56604 | TUBB7P |
| 0.485008597 | < 0.001 | 114787 | GPRIN1 |
| 0.484739929 | < 0.001 | 55854 | ZC3H15 |
| 0.484563202 | < 0.001 | 25999 | CLIP3 |
| 0.484420061 | < 0.001 | 51280 | GOLM1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.690604866 | 6.03613E-06 | < 0.001 | < 0.001 | 8682 | PEA15 |
| 0.690347493 | 6.09687E-06 | < 0.001 | < 0.001 | 221044 | UCMA |
| 0.69009006 | 6.15817E-06 | < 0.001 | < 0.001 | 134957 | STXBP5 |
| 0.689832687 | 6.22008E-06 | < 0.001 | < 0.001 | 9342 | SNAP29 |
| 0.689317882 | 6.34574E-06 | < 0.001 | < 0.001 | 2953 | GSTT2 |
| 0.689317882 | 6.34574E-06 | < 0.001 | < 0.001 | 192668 | CYS1 |
| 0.688803077 | 6.47394E-06 | < 0.001 | < 0.001 | 728695 | SPANXB1 |
| 0.688545704 | 6.53899E-06 | < 0.001 | < 0.001 | 25945 | PVRL3 |
| 0.688288271 | 6.60462E-06 | < 0.001 | < 0.001 | 9100 | USP10 |
| 0.688030839 | 6.671E-06 | < 0.001 | < 0.001 | 256380 | SCML4 |
| 0.687258661 | 6.87403E-06 | < 0.001 | < 0.001 | 1488 | CTBP2 |
| 0.687258661 | 6.87403E-06 | < 0.001 | < 0.001 | 23760 | PITPNB |
| 0.687001228 | 6.94302E-06 | < 0.001 | < 0.001 | 51451 | LCMT1 |
| 0.687001228 | 6.94302E-06 | < 0.001 | < 0.001 | 100113407 | TMEM170B |
| 0.686486483 | 7.08305E-06 | < 0.001 | < 0.001 | 8663 | EIF3S8 |
| 0.686486483 | 7.08305E-06 | < 0.001 | < 0.001 | 79712 | GTDC1 |
| 0.685971677 | 7.22591E-06 | < 0.001 | < 0.001 | 5136 | PDE1A |
| 0.685714304 | 7.29831E-06 | < 0.001 | < 0.001 | 26086 | GPSM1 |
| 0.685714304 | 7.29831E-06 | < 0.001 | < 0.001 | 54332 | GDAP1 |
| 0.684684634 | 7.59539E-06 | < 0.001 | < 0.001 | 3957 | LGALS2 |
| 0.684427321 | 7.67146E-06 | < 0.001 | < 0.001 | 84303 | CHCHD6 |
| 0.684427321 | 7.67146E-06 | < 0.001 | < 0.001 | 728568 | C12orf73 |
| 0.684169888 | 7.74829E-06 | < 0.001 | < 0.001 | 440895 | AC013271.3 |
| 0.683912456 | 7.82584E-06 | < 0.001 | < 0.001 | 79631 | EFTUD1 |
| 0.683655024 | 7.90418E-06 | < 0.001 | < 0.001 | 27202 | GPR77 |
| 0.683655024 | 7.90418E-06 | < 0.001 | < 0.001 | 57617 | VPS18 |
| 0.68339771 | 7.98328E-06 | < 0.001 | < 0.001 | 91368 | CDKN2AIPNL |
| 0.68339771 | 7.98328E-06 | < 0.001 | < 0.001 | 127281 | C1orf93 |
| 0.683140278 | 8.06315E-06 | < 0.001 | < 0.001 | 116113 | FOXP4 |
| 0.682625473 | 8.22513E-06 | < 0.001 | < 0.001 | 23284 | LPHN3 |
| 0.682625473 | 8.22513E-06 | < 0.001 | < 0.001 | 84719 | LINC00260 |
| 0.6823681 | 8.30736E-06 | < 0.001 | < 0.001 | 57495 | KIAA1239 |
| 0.682110667 | 8.39033E-06 | < 0.001 | < 0.001 | 6045 | RNF2 |
| 0.682110667 | 8.39033E-06 | < 0.001 | < 0.001 | 11017 | SNRNP27 |
| 0.681853235 | 8.47423E-06 | < 0.001 | < 0.001 | 9759 | HDAC4 |
| 0.681853235 | 8.47423E-06 | < 0.001 | < 0.001 | 84315 | MON1A |
| 0.680566251 | 8.90557E-06 | < 0.001 | < 0.001 | 1264 | CNN1 |
| 0.680566251 | 8.90557E-06 | < 0.001 | < 0.001 | 5734 | PTGER4 |
| 0.680566251 | 8.90557E-06 | < 0.001 | < 0.001 | 80097 | FAM128B |
| 0.679794073 | 9.17448E-06 | < 0.001 | < 0.001 | 1816 | DRD5 |
| 0.679021895 | 9.45111E-06 | < 0.001 | < 0.001 | 201475 | RAB12 |
| 0.67850703 | 9.64002E-06 | < 0.001 | < 0.001 | 4325 | MMP16 |
| 0.678249657 | 9.73586E-06 | < 0.001 | < 0.001 | 126567 | FAM148C |
| 0.677734852 | 9.93027E-06 | < 0.001 | < 0.001 | 2516 | NR5A1 |
| 0.677220047 | 1.01284E-05 | < 0.001 | < 0.001 | 317 | APAF1 |
| 0.677220047 | 1.01284E-05 | < 0.001 | < 0.001 | 3727 | JUND |
| 0.676962674 | 1.02288E-05 | < 0.001 | < 0.001 | 8000 | PSCA |
| 0.676705241 | 1.03303E-05 | < 0.001 | < 0.001 | 158399 | ZNF483 |
| 0.676447868 | 1.04327E-05 | < 0.001 | < 0.001 | 10898 | CPSF4 |
| 0.676447868 | 1.04327E-05 | < 0.001 | < 0.001 | 260434 | PYDC1 |
| 0.676190436 | 1.0536E-05 | < 0.001 | < 0.001 | 90835 | C16orf93 |
| 0.675933063 | 1.06403E-05 | < 0.001 | < 0.001 | 84918 | LRP11 |
| 0.675418258 | 1.08519E-05 | < 0.001 | < 0.001 | 5733 | PTGER3 |
| 0.675418258 | 1.08519E-05 | 0.001 | 1 | 64792 | RABL5 |
| 0.675160825 | 1.09593E-05 | < 0.001 | < 0.001 | 113 | ADCY7 |
| 0.675160825 | 1.09593E-05 | < 0.001 | < 0.001 | 11077 | HSF2BP |
| 0.674131215 | 1.13988E-05 | < 0.001 | < 0.001 | 79697 | C14orf169 |
| 0.674131215 | 1.13988E-05 | < 0.001 | < 0.001 | 114801 | TMEM200A |
| 0.673873901 | 1.15112E-05 | < 0.001 | < 0.001 | 4861 | NPAS1 |
| 0.673616469 | 1.16248E-05 | < 0.001 | < 0.001 | 129049 | SGSM1 |
| 0.673359036 | 1.17393E-05 | < 0.001 | < 0.001 | 148014 | TTC9B |
| 0.672844291 | 1.19717E-05 | < 0.001 | < 0.001 | 114335 | CGB1 |
| 0.672072053 | 1.23285E-05 | < 0.001 | < 0.001 | 29089 | UBE2T |
| 0.671557248 | 1.2572E-05 | < 0.001 | < 0.001 | 808 | CALM3 |
| 0.671557248 | 1.2572E-05 | < 0.001 | < 0.001 | 84334 | APOPT1 |
| 0.671557248 | 1.2572E-05 | < 0.001 | < 0.001 | 140597 | TCEAL2 |
| 0.671299875 | 1.26954E-05 | 0.001 | 1 | 2629 | GBA |
| 0.67078501 | 1.29457E-05 | < 0.001 | < 0.001 | 51605 | TRMT6 |
| 0.670270264 | 1.32007E-05 | < 0.001 | < 0.001 | 11245 | GPR176 |
| 0.670012832 | 1.333E-05 | < 0.001 | < 0.001 | 11231 | SEC63 |
| 0.669755459 | 1.34604E-05 | < 0.001 | < 0.001 | 1947 | EFNB1 |
| 0.669498086 | 1.35921E-05 | < 0.001 | < 0.001 | 64895 | PAPOLG |
| 0.669498086 | 1.35921E-05 | < 0.001 | < 0.001 | 79908 | BTNL8 |
| 0.669240654 | 1.3725E-05 | < 0.001 | < 0.001 | 8499 | PPFIA2 |
| 0.669240654 | 1.3725E-05 | < 0.001 | < 0.001 | 118788 | PIK3AP1 |
| 0.669240654 | 1.3725E-05 | < 0.001 | < 0.001 | 404636 | FAM45A |
| 0.668983221 | 1.38591E-05 | < 0.001 | < 0.001 | 29951 | PDZRN4 |
| 0.668983221 | 1.38591E-05 | < 0.001 | < 0.001 | 390079 | OR52E8 |
| 0.668468475 | 1.41311E-05 | < 0.001 | < 0.001 | 740 | MRPL49 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.484128833 | < 0.001 | 340542 | BEX5 |
| 0.484015763 | < 0.001 | 84779 | NAA11 |
| 0.483836174 | < 0.001 | 23139 | MAST2 |
| 0.48382014 | < 0.001 | 9317 | PTER |
| 0.483671248 | < 0.001 | 988 | CDC5L |
| 0.483646065 | < 0.001 | 91050 | CCDC149 |
| 0.483631909 | < 0.001 | 78991 | PCYOX1L |
| 0.483536035 | < 0.001 | 23167 | EFR3A |
| 0.483367413 | < 0.001 | 383 | ARG1 |
| 0.483243406 | < 0.001 | 26994 | RNF11 |
| 0.483080506 | < 0.001 | 65244 | SPATS2 |
| 0.483072072 | < 0.001 | 387787 | AP001372.1 |
| 0.482578605 | < 0.001 | 56978 | PRDM8 |
| 0.482547879 | < 0.001 | 55609 | ZNF280C |
| 0.482313722 | < 0.001 | 2996 | GYPE |
| 0.482241988 | < 0.001 | 51760 | SYT17 |
| 0.48213318 | < 0.001 | 25766 | PRPF40B |
| 0.481980383 | < 0.001 | 2170 | FABP3 |
| 0.481798321 | < 0.001 | 152940 | C4orf45 |
| 0.481563926 | < 0.001 | 64854 | USP46 |
| 0.481535971 | < 0.001 | 5441 | POLR2L |
| 0.481340259 | < 0.001 | 1577 | CYP3A5 |
| 0.481163859 | < 0.001 | 728695 | SPANXB1 |
| 0.481139421 | < 0.001 | 26094 | DCAF4 |
| 0.481075406 | < 0.001 | 5031 | P2RY6 |
| 0.480773956 | < 0.001 | 283209 | PGM2L1 |
| 0.480032295 | < 0.001 | 25851 | TECPR1 |
| 0.480013907 | < 0.001 | 2847 | MCHR1 |
| 0.479888886 | < 0.001 | 627 | BDNF |
| 0.479653537 | < 0.001 | 57805 | KIAA1967 |
| 0.4795928 | < 0.001 | 9479 | MAPK8IP1 |
| 0.479505539 | < 0.001 | 7295 | TXN |
| 0.479370981 | < 0.001 | 80212 | CCDC92 |
| 0.479133099 | < 0.001 | 284353 | NKPD1 |
| 0.479104221 | < 0.001 | 203102 | ADAM32 |
| 0.479069114 | < 0.001 | 25759 | SHC2 |
| 0.478955954 | < 0.001 | 389941 | C1QL1 |
| 0.47890237 | < 0.001 | 90050 | FAM181A |
| 0.47886008 | < 0.001 | 399668 | LINC00086 |
| 0.478817165 | < 0.001 | 10073 | SNUPN |
| 0.478662878 | < 0.001 | 127281 | C1orf93 |
| 0.478611797 | < 0.001 | 9612 | NCOR2 |
| 0.478473842 | < 0.001 | 84958 | SYTL1 |
| 0.478422493 | < 0.001 | 2319 | FLOT2 |
| 0.478119969 | < 0.001 | 10656 | KHDRBS3 |
| 0.477786601 | < 0.001 | 728858 | C12orf71 |
| 0.477732956 | < 0.001 | 126282 | TNFAIP8L1 |
| 0.477699071 | < 0.001 | 6256 | RXRA |
| 0.47759074 | < 0.001 | 9891 | NUAK1 |
| 0.477542907 | < 0.001 | 10318 | TNIP1 |
| 0.477322698 | < 0.001 | 3381 | IBSP |
| 0.477278054 | < 0.001 | 8767 | RIPK2 |
| 0.477272958 | < 0.001 | 23180 | RFTN1 |
| 0.477091968 | < 0.001 | 148066 | ZNRF4 |
| 0.476275444 | < 0.001 | 5784 | PTPN14 |
| 0.476050228 | < 0.001 | 140688 | C20orf112 |
| 0.475821078 | < 0.001 | 90411 | MCFD2 |
| 0.475539505 | < 0.001 | 6307 | SC4MOL |
| 0.475256324 | < 0.001 | 22821 | RASA3 |
| 0.474954635 | < 0.001 | 64084 | CLSTN2 |
| 0.474826962 | < 0.001 | 7277 | TUBA4A |
| 0.474820673 | < 0.001 | 5119 | CHMP1A |
| 0.474214584 | < 0.001 | 1139 | CHRNA7 |
| 0.474098802 | < 0.001 | 6751 | SSTR1 |
| 0.47364834 | < 0.001 | 3486 | IGFBP3 |
| 0.473313153 | < 0.001 | 5917 | RARS |
| 0.473290205 | < 0.001 | 56660 | KCNK12 |
| 0.473159999 | < 0.001 | 146439 | CCDC64B |
| 0.473068118 | < 0.001 | 83445 | GSG1 |
| 0.473021686 | < 0.001 | 79631 | EFTUD1 |
| 0.472525001 | < 0.001 | 6950 | TCP1 |
| 0.472358495 | < 0.001 | 5690 | PSMB2 |
| 0.472326159 | < 0.001 | 103910 | MYL12B |
| 0.472291768 | < 0.001 | 130951 | C2orf65 |
| 0.47199598 | < 0.001 | 400553 | AC134312.1 |
| 0.471606225 | < 0.001 | 79654 | HECTD3 |
| 0.471470445 | < 0.001 | 100133234 | SBF1P1 |
| 0.47141245 | < 0.001 | 25819 | CCRN4L |
| 0.471168399 | < 0.001 | 54332 | GDAP1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.668468475 | 1.41311E-05 | < 0.001 | < 0.001 | 152185 | CCDC52 |
| 0.668468475 | 1.41311E-05 | < 0.001 | < 0.001 | 339804 | C2orf74 |
| 0.668211043 | 1.42688E-05 | < 0.001 | < 0.001 | 51218 | GLRX5 |
| 0.668211043 | 1.42688E-05 | < 0.001 | < 0.001 | 55466 | DNAJA4 |
| 0.66795367 | 1.44079E-05 | < 0.001 | < 0.001 | 79178 | THTPA |
| 0.66795367 | 1.44079E-05 | < 0.001 | < 0.001 | 400451 | FAM174B |
| 0.667181492 | 1.4833E-05 | < 0.001 | < 0.001 | 340481 | ZDHHC21 |
| 0.666924059 | 1.49773E-05 | < 0.001 | < 0.001 | 117245 | HRASLS5 |
| 0.666151881 | 1.54181E-05 | < 0.001 | < 0.001 | 50810 | AC024270.1 |
| 0.665637016 | 1.57187E-05 | < 0.001 | < 0.001 | 7410 | VAV2 |
| 0.665379703 | 1.5871E-05 | < 0.001 | < 0.001 | 11034 | DSTN |
| 0.665379703 | 1.5871E-05 | < 0.001 | < 0.001 | 154150 | HDGFL1 |
| 0.665122271 | 1.60249E-05 | 0.001 | 1 | 647476 | FLJ20518 |
| 0.664864838 | 1.618E-05 | < 0.001 | < 0.001 | 6751 | SSTR1 |
| 0.664607465 | 1.63365E-05 | < 0.001 | < 0.001 | 27018 | NGFRAP1 |
| 0.66409266 | 1.6654E-05 | < 0.001 | < 0.001 | 5707 | PSMD1 |
| 0.663835227 | 1.68147E-05 | < 0.001 | < 0.001 | 439915 | KRTAP5-5 |
| 0.663320422 | 1.71408E-05 | < 0.001 | < 0.001 | 10479 | SLC9A6 |
| 0.663320422 | 1.71408E-05 | < 0.001 | < 0.001 | 606551 | UBE2MP1 |
| 0.663063049 | 1.73061E-05 | < 0.001 | < 0.001 | 123263 | MTFMT |
| 0.662805676 | 1.74728E-05 | < 0.001 | < 0.001 | 10947 | AP3M2 |
| 0.662548244 | 1.76411E-05 | < 0.001 | < 0.001 | 22885 | ABLIM3 |
| 0.662548244 | 1.76411E-05 | < 0.001 | < 0.001 | 140807 | KRT72 |
| 0.662290812 | 1.78108E-05 | < 0.001 | < 0.001 | 9871 | SEC24D |
| 0.661003888 | 1.86827E-05 | < 0.001 | < 0.001 | 5918 | RARRES1 |
| 0.661003888 | 1.86827E-05 | < 0.001 | < 0.001 | 51382 | ATP6V1D |
| 0.661003888 | 1.86827E-05 | < 0.001 | < 0.001 | 65990 | FAM173A |
| 0.660746455 | 1.88618E-05 | < 0.001 | < 0.001 | 1176 | AP3S1 |
| 0.660489023 | 1.90425E-05 | < 0.001 | < 0.001 | 171483 | FAM9B |
| 0.66023165 | 1.92248E-05 | < 0.001 | < 0.001 | 51693 | TRAPPC2L |
| 0.659202039 | 1.99703E-05 | < 0.001 | < 0.001 | 55071 | C9orf40 |
| 0.658944666 | 2.0161E-05 | < 0.001 | < 0.001 | 7293 | TNFRSF4 |
| 0.658429861 | 2.05472E-05 | < 0.001 | < 0.001 | 5690 | PSMB2 |
| 0.658429861 | 2.05472E-05 | < 0.001 | < 0.001 | 387787 | AP001372.1 |
| 0.657657683 | 2.11394E-05 | < 0.001 | < 0.001 | 5921 | RASA1 |
| 0.657657683 | 2.11394E-05 | < 0.001 | < 0.001 | 6950 | TCP1 |
| 0.65740025 | 2.13404E-05 | 0.001 | 1 | 151477 | LINC00471 |
| 0.656885445 | 2.17476E-05 | < 0.001 | < 0.001 | 4647 | MYO7A |
| 0.656628072 | 2.19537E-05 | < 0.001 | < 0.001 | 25759 | SHC2 |
| 0.656628072 | 2.19537E-05 | < 0.001 | < 0.001 | 54958 | TMEM160 |
| 0.65637064 | 2.21619E-05 | < 0.001 | < 0.001 | 1845 | DUSP3 |
| 0.65637064 | 2.21619E-05 | < 0.001 | < 0.001 | 55854 | ZC3H15 |
| 0.656113207 | 2.23718E-05 | < 0.001 | < 0.001 | 23139 | MAST2 |
| 0.655341029 | 2.30127E-05 | < 0.001 | < 0.001 | 2243 | FGA |
| 0.655083656 | 2.32301E-05 | 0.001 | 1 | 126003 | TRAPPC5 |
| 0.654826224 | 2.34494E-05 | < 0.001 | < 0.001 | 26007 | DAK |
| 0.654568851 | 2.36705E-05 | < 0.001 | < 0.001 | 89870 | TRIM15 |
| 0.654311478 | 2.38937E-05 | < 0.001 | < 0.001 | 56950 | SMYD2 |
| 0.654311478 | 2.38937E-05 | < 0.001 | < 0.001 | 57805 | KIAA1967 |
| 0.653796613 | 2.43459E-05 | < 0.001 | < 0.001 | 79633 | FAT4 |
| 0.65353924 | 2.45748E-05 | < 0.001 | < 0.001 | 129025 | ZNF280A |
| 0.653281868 | 2.48058E-05 | < 0.001 | < 0.001 | 23172 | FAM175B |
| 0.653024435 | 2.50388E-05 | < 0.001 | < 0.001 | 10204 | NUTF2 |
| 0.652252257 | 2.57502E-05 | < 0.001 | < 0.001 | 11179 | ZNF277 |
| 0.651994824 | 2.59913E-05 | < 0.001 | < 0.001 | 55327 | LIN7C |
| 0.651737452 | 2.62348E-05 | < 0.001 | < 0.001 | 7137 | TNNI3 |
| 0.651737452 | 2.62348E-05 | < 0.001 | < 0.001 | 11163 | NUDT4 |
| 0.651737452 | 2.62348E-05 | < 0.001 | < 0.001 | 23180 | RFTN1 |
| 0.651737452 | 2.62348E-05 | < 0.001 | < 0.001 | 219621 | C10orf107 |
| 0.651222646 | 2.67276E-05 | < 0.001 | < 0.001 | 112597 | LINC00152 |
| 0.650450408 | 2.7483E-05 | < 0.001 | < 0.001 | 10073 | SNUPN |
| 0.649935663 | 2.79975E-05 | < 0.001 | < 0.001 | 10682 | EBP |
| 0.649935663 | 2.79975E-05 | < 0.001 | < 0.001 | 10907 | TXNL4A |
| 0.649935663 | 2.79975E-05 | < 0.001 | < 0.001 | 285780 | LY86-AS1 |
| 0.649420798 | 2.85208E-05 | < 0.001 | < 0.001 | 441381 | LRRC24 |
| 0.648391187 | 2.95948E-05 | < 0.001 | < 0.001 | 10687 | PNMA2 |
| 0.648391187 | 2.95948E-05 | < 0.001 | < 0.001 | 51253 | MRPL37 |
| 0.647619009 | 3.04245E-05 | < 0.001 | < 0.001 | 91050 | CCDC149 |
| 0.647361636 | 3.07057E-05 | < 0.001 | < 0.001 | 9465 | AKAP7 |
| 0.647361636 | 3.07057E-05 | < 0.001 | < 0.001 | 103910 | MYL12B |
| 0.646846831 | 3.12755E-05 | < 0.001 | < 0.001 | 9908 | G3BP2 |
| 0.646846831 | 3.12755E-05 | < 0.001 | < 0.001 | 51162 | EGFL7 |
| 0.646332026 | 3.1855E-05 | < 0.001 | < 0.001 | 55500 | ETNK1 |
| 0.646074653 | 3.21486E-05 | < 0.001 | < 0.001 | 51280 | GOLM1 |
| 0.64581722 | 3.24445E-05 | < 0.001 | < 0.001 | 4335 | MNT |
| 0.64581722 | 3.24445E-05 | < 0.001 | < 0.001 | 29944 | PNMA3 |
| 0.64581722 | 3.24445E-05 | < 0.001 | < 0.001 | 152940 | C4orf45 |
| 0.645559847 | 3.27429E-05 | < 0.001 | < 0.001 | 23077 | MYCBP2 |
| 0.645302415 | 3.30438E-05 | < 0.001 | < 0.001 | 254528 | C16orf73 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.470728397 | < 0.001 | 8707 | B3GALT2 |
| 0.470574707 | < 0.001 | 51582 | AZIN1 |
| 0.470547974 | < 0.001 | 353189 | SLCO4C1 |
| 0.470540345 | < 0.001 | 3718 | JAK3 |
| 0.470261186 | < 0.001 | 644596 | LINC00087 |
| 0.469254255 | < 0.001 | 54033 | RBM11 |
| 0.468605727 | < 0.001 | 10326 | SIRPB1 |
| 0.468548417 | < 0.001 | 1820 | ARID3A |
| 0.468472868 | < 0.001 | 284611 | FAM102B |
| 0.468399227 | < 0.001 | 65264 | UBE2Z |
| 0.467877001 | < 0.001 | 127703 | C1orf216 |
| 0.46767354 | < 0.001 | 388121 | TNFAIP8L3 |
| 0.467466176 | < 0.001 | 54434 | SSH1 |
| 0.467423081 | < 0.001 | 127933 | UHMK1 |
| 0.465778887 | < 0.001 | 116443 | GRIN3A |
| 0.465544075 | < 0.001 | 25924 | MYRIP |
| 0.465424269 | < 0.001 | 4951 | OCM2 |
| 0.465179443 | < 0.001 | 7173 | TPO |
| 0.464589417 | < 0.001 | 7837 | PXDN |
| 0.464315176 | < 0.001 | 2038 | EPB42 |
| 0.46424219 | < 0.001 | 7982 | ST7 |
| 0.464021295 | < 0.001 | 26290 | GALNT8 |
| 0.463973045 | < 0.001 | 23498 | HAAO |
| 0.463918269 | < 0.001 | 10160 | FARP1 |
| 0.46390748 | < 0.001 | 11231 | SEC63 |
| 0.463904798 | < 0.001 | 157 | ADRBK2 |
| 0.463821769 | < 0.001 | 11022 | TDRKH |
| 0.463298529 | < 0.001 | 23603 | CORO1C |
| 0.463097066 | < 0.001 | 64859 | OBFC2A |
| 0.462987751 | < 0.001 | 11128 | POLR3A |
| 0.462932229 | < 0.001 | 348980 | HCN1 |
| 0.462656349 | < 0.001 | 203054 | ADCK5 |
| 0.462267846 | < 0.001 | 7201 | TRHR |
| 0.461541265 | < 0.001 | 78995 | C17orf53 |
| 0.461499006 | < 0.001 | 56477 | CCL28 |
| 0.461281508 | < 0.001 | 4761 | NEUROD2 |
| 0.461211741 | < 0.001 | 1978 | EIF4EBP1 |
| 0.461203665 | < 0.001 | 79862 | ZNF669 |
| 0.461080194 | < 0.001 | 541471 | AC068491.1 |
| 0.460622162 | < 0.001 | 528 | ATP6V1C1 |
| 0.460611314 | < 0.001 | 25939 | SAMHD1 |
| 0.460400373 | < 0.001 | 6545 | SLC7A4 |
| 0.460321695 | < 0.001 | 389649 | C8orf86 |
| 0.460226148 | < 0.001 | 128239 | IQGAP3 |
| 0.460165977 | < 0.001 | 57030 | SLC17A7 |
| 0.460107237 | < 0.001 | 10025 | MED16 |
| 0.460005373 | < 0.001 | 261726 | TIPRL |
| 0.45999831 | < 0.001 | 729806 | ZNF731P |
| 0.459416956 | < 0.001 | 5719 | PSMD13 |
| 0.459294319 | < 0.001 | 23671 | TMEFF2 |
| 0.459218353 | < 0.001 | 7187 | TRAF3 |
| 0.459176481 | < 0.001 | 116150 | NUS1 |
| 0.459128708 | < 0.001 | 80262 | C16orf70 |
| 0.459026933 | < 0.001 | 59349 | KLHL12 |
| 0.458838969 | < 0.001 | 2925 | GRPR |
| 0.458691776 | < 0.001 | 285780 | LY86-AS1 |
| 0.458553672 | < 0.001 | 27300 | ZNF544 |
| 0.458384186 | < 0.001 | 93974 | ATPIF1 |
| 0.458350122 | < 0.001 | 134957 | STXBP5 |
| 0.457927614 | < 0.001 | 26872 | STEAP1 |
| 0.457847238 | < 0.001 | 25859 | AC109486.1 |
| 0.457784563 | < 0.001 | 10665 | C6orf10 |
| 0.457533598 | < 0.001 | 63908 | NAPB |
| 0.457466722 | < 0.001 | 4938 | OAS1 |
| 0.457343727 | < 0.001 | 57709 | SLC7A14 |
| 0.457270265 | < 0.001 | 10799 | RPP40 |
| 0.457134902 | < 0.001 | 1543 | CYP1A1 |
| 0.456960708 | < 0.001 | 56934 | CA10 |
| 0.456872016 | < 0.001 | 1272 | CNTN1 |
| 0.456726432 | < 0.001 | 2909 | GRLF1 |
| 0.456339896 | < 0.001 | 92002 | FAM58A |
| 0.456275821 | < 0.001 | 10622 | POLR3G |
| 0.456119925 | < 0.001 | 51458 | RHCG |
| 0.456055492 | < 0.001 | 10653 | AC011479.2 |
| 0.456011653 | < 0.001 | 100137047 | JMJD7 |
| 0.455967367 | < 0.001 | 11034 | DSTN |
| 0.45594874 | < 0.001 | 23014 | FBXO21 |
| 0.455748856 | < 0.001 | 11077 | HSF2BP |
| 0.455569714 | < 0.001 | 4356 | MPP3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.645045042 | 3.33474E-05 | < 0.001 | < 0.001 | 3156 | HMGCR |
| 0.644787669 | 3.36533E-05 | < 0.001 | < 0.001 | 374969 | CCDC23 |
| 0.644272804 | 3.42731E-05 | < 0.001 | < 0.001 | 8704 | B4GALT2 |
| 0.644272804 | 3.42731E-05 | < 0.001 | < 0.001 | 51309 | ARMCX1 |
| 0.644015491 | 3.45872E-05 | < 0.001 | < 0.001 | 7837 | PXDN |
| 0.644015491 | 3.45872E-05 | < 0.001 | < 0.001 | 8799 | PEX11B |
| 0.644015491 | 3.45872E-05 | < 0.001 | < 0.001 | 54908 | CCDC99 |
| 0.643758059 | 3.49035E-05 | < 0.001 | < 0.001 | 51701 | NLK |
| 0.643500626 | 3.52227E-05 | < 0.001 | < 0.001 | 23637 | RABGAP1 |
| 0.643243194 | 3.55444E-05 | < 0.001 | < 0.001 | 8727 | CTNNAL1 |
| 0.643243194 | 3.55444E-05 | < 0.001 | < 0.001 | 10325 | RRAGB |
| 0.642985821 | 3.58689E-05 | < 0.001 | < 0.001 | 282890 | ZNF311 |
| 0.642471015 | 3.65262E-05 | < 0.001 | < 0.001 | 5865 | RAB3B |
| 0.64195621 | 3.71941E-05 | 0.001 | 1 | 128239 | IQGAP3 |
| 0.641184032 | 3.82176E-05 | < 0.001 | < 0.001 | 80790 | AC099524.1 |
| 0.6409266 | 3.85644E-05 | < 0.001 | < 0.001 | 255022 | CALHM1 |
| 0.640669227 | 3.8914E-05 | < 0.001 | < 0.001 | 57136 | C20orf3 |
| 0.640154421 | 3.96222E-05 | < 0.001 | < 0.001 | 8938 | BAIAP3 |
| 0.640154421 | 3.96222E-05 | 0.001 | 1 | 116150 | NUS1 |
| 0.639896989 | 3.99804E-05 | < 0.001 | < 0.001 | 393 | ARHGAP4 |
| 0.639896989 | 3.99804E-05 | < 0.001 | < 0.001 | 10535 | RNASEH2A |
| 0.639382243 | 4.07063E-05 | < 0.001 | < 0.001 | 11052 | CPSF6 |
| 0.639124811 | 4.10737E-05 | < 0.001 | < 0.001 | 2870 | GRK6 |
| 0.638867438 | 4.14441E-05 | < 0.001 | < 0.001 | 149708 | WFDC5 |
| 0.638610065 | 4.18176E-05 | < 0.001 | < 0.001 | 85409 | NKD2 |
| 0.637580454 | 4.33426E-05 | < 0.001 | < 0.001 | 2959 | GTF2B |
| 0.637323022 | 4.37314E-05 | < 0.001 | < 0.001 | 9240 | PNMA1 |
| 0.637323022 | 4.37314E-05 | < 0.001 | < 0.001 | 10299 | MARCHF6 |
| 0.637323022 | 4.37314E-05 | < 0.001 | < 0.001 | 11212 | PROSC |
| 0.637065649 | 4.41239E-05 | < 0.001 | < 0.001 | 5621 | PRNP |
| 0.637065649 | 4.41239E-05 | < 0.001 | < 0.001 | 10197 | PSME3 |
| 0.637065649 | 4.41239E-05 | < 0.001 | < 0.001 | 26091 | HERC4 |
| 0.637065649 | 4.41239E-05 | < 0.001 | < 0.001 | 27300 | ZNF544 |
| 0.636808217 | 4.45193E-05 | < 0.001 | < 0.001 | 8735 | MYH13 |
| 0.636808217 | 4.45193E-05 | < 0.001 | < 0.001 | 26100 | WIPI2 |
| 0.636293471 | 4.532E-05 | < 0.001 | < 0.001 | 9532 | BAG2 |
| 0.635521173 | 4.65459E-05 | < 0.001 | < 0.001 | 114884 | OSBPL10 |
| 0.63526386 | 4.69609E-05 | < 0.001 | < 0.001 | 161 | AP2A2 |
| 0.635006428 | 4.73799E-05 | < 0.001 | < 0.001 | 121053 | C12orf45 |
| 0.634748995 | 4.78017E-05 | < 0.001 | < 0.001 | 253782 | LASS6 |
| 0.634491622 | 4.82272E-05 | < 0.001 | < 0.001 | 10857 | PGRMC1 |
| 0.634491622 | 4.82272E-05 | < 0.001 | < 0.001 | 254173 | TTLL10 |
| 0.633976817 | 4.90884E-05 | < 0.001 | < 0.001 | 2675 | GFRA2 |
| 0.633719444 | 4.95244E-05 | < 0.001 | < 0.001 | 3096 | HIVEP1 |
| 0.633204639 | 5.04066E-05 | 0.001 | 1 | 5695 | PSMB7 |
| 0.632947206 | 5.08533E-05 | < 0.001 | < 0.001 | 57415 | C3orf14 |
| 0.632432401 | 5.17573E-05 | < 0.001 | < 0.001 | 65260 | SELRC1 |
| 0.632432401 | 5.17573E-05 | < 0.001 | < 0.001 | 79876 | UBA5 |
| 0.631917655 | 5.26757E-05 | < 0.001 | < 0.001 | 4175 | MCM6 |
| 0.631917655 | 5.26757E-05 | < 0.001 | < 0.001 | 64841 | GNPNAT1 |
| 0.631917655 | 5.26757E-05 | < 0.001 | < 0.001 | 83852 | SETDB2 |
| 0.631917655 | 5.26757E-05 | < 0.001 | < 0.001 | 158798 | AKAP14 |
| 0.631660223 | 5.31407E-05 | < 0.001 | < 0.001 | 154754 | PRSS23P2 |
| 0.631402791 | 5.36093E-05 | < 0.001 | < 0.001 | 338761 | C1QL4 |
| 0.631145477 | 5.40815E-05 | < 0.001 | < 0.001 | 29106 | SCG3 |
| 0.631145477 | 5.40815E-05 | < 0.001 | < 0.001 | 56917 | MEIS3P2 |
| 0.630630612 | 5.50372E-05 | < 0.001 | < 0.001 | 84539 | MCHR2 |
| 0.630630612 | 5.50372E-05 | < 0.001 | < 0.001 | 152006 | RNF38 |
| 0.629343629 | 5.74953E-05 | < 0.001 | < 0.001 | 114798 | SLITRK1 |
| 0.629086196 | 5.79985E-05 | < 0.001 | < 0.001 | 1950 | EGF |
| 0.628571391 | 5.90173E-05 | 0.001 | 1 | 2191 | FAP |
| 0.628571391 | 5.90173E-05 | < 0.001 | < 0.001 | 7982 | ST7 |
| 0.628314018 | 5.95329E-05 | < 0.001 | < 0.001 | 3093 | UBE2K |
| 0.628314018 | 5.95329E-05 | < 0.001 | < 0.001 | 8260 | NAA10 |
| 0.628314018 | 5.95329E-05 | < 0.001 | < 0.001 | 58530 | LY6G6D |
| 0.628056586 | 6.00522E-05 | < 0.001 | < 0.001 | 51668 | HSPB11 |
| 0.627026975 | 6.21721E-05 | < 0.001 | < 0.001 | 401331 | RASA4CP |
| 0.626254797 | 6.38061E-05 | < 0.001 | < 0.001 | 150244 | ZDHHC8P1 |
| 0.625997365 | 6.43596E-05 | < 0.001 | < 0.001 | 23248 | RPRD2 |
| 0.625482619 | 6.54791E-05 | < 0.001 | < 0.001 | 10160 | FARP1 |
| 0.625482619 | 6.54791E-05 | < 0.001 | < 0.001 | 54509 | RHOF |
| 0.625482619 | 6.54791E-05 | < 0.001 | < 0.001 | 148808 | MFSD4 |
| 0.625225186 | 6.60458E-05 | < 0.001 | < 0.001 | 3836 | KPNA1 |
| 0.625225186 | 6.60458E-05 | < 0.001 | < 0.001 | 203447 | NRK |
| 0.624967813 | 6.66166E-05 | < 0.001 | < 0.001 | 2590 | GALNT2 |
| 0.624967813 | 6.66166E-05 | < 0.001 | < 0.001 | 11022 | TDRKH |
| 0.624967813 | 6.66166E-05 | 0.002 | 1 | 56271 | BEX4 |
| 0.624710441 | 6.71922E-05 | < 0.001 | < 0.001 | 2664 | GDI1 |
| 0.624710441 | 6.71922E-05 | < 0.001 | < 0.001 | 5504 | PPP1R2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.455379605 | < 0.001 | 711 | ERC2-IT1 |
| 0.455159009 | < 0.001 | 5717 | PSMD11 |
| 0.455149502 | < 0.001 | 8417 | STX7 |
| 0.455127805 | < 0.001 | 7532 | YWHAG |
| 0.455122977 | < 0.001 | 442308 | LOC442308 |
| 0.454864532 | < 0.001 | 286207 | C9orf117 |
| 0.454863638 | < 0.001 | 153642 | ARSK |
| 0.454790413 | < 0.001 | 221935 | SDK1 |
| 0.45459941 | < 0.001 | 80223 | RAB11FIP1 |
| 0.454521894 | < 0.001 | 79442 | LRRC2 |
| 0.454332173 | < 0.001 | 79863 | RBFA |
| 0.454010338 | < 0.001 | 221074 | SLC39A12 |
| 0.453830689 | < 0.001 | 10907 | TXNL4A |
| 0.453719586 | < 0.001 | 126433 | FBXO27 |
| 0.453376085 | < 0.001 | 5650 | KLK7 |
| 0.452994078 | < 0.001 | 401647 | GOLGA7B |
| 0.452789217 | < 0.001 | 54472 | TOLLIP |
| 0.452702284 | < 0.001 | 79895 | ATP8B4 |
| 0.452683151 | < 0.001 | 642778 | AC136443.1 |
| 0.452592224 | < 0.001 | 51253 | MRPL37 |
| 0.452367216 | < 0.001 | 29985 | SLC39A3 |
| 0.452363193 | < 0.001 | 321 | APBA2 |
| 0.452337146 | < 0.001 | 2781 | GNAZ |
| 0.452314049 | < 0.001 | 408029 | C2orf27B |
| 0.452230334 | < 0.001 | 4647 | MYO7A |
| 0.451939344 | < 0.001 | 2016 | EMX1 |
| 0.451938093 | < 0.001 | 81794 | ADAMTS10 |
| 0.45176369 | < 0.001 | 345079 | ANKRD56 |
| 0.451754302 | < 0.001 | 206358 | SLC36A1 |
| 0.451744199 | < 0.001 | 9334 | B4GALT5 |
| 0.451640636 | < 0.001 | 112812 | FDX1L |
| 0.451586127 | < 0.001 | 6812 | STXBP1 |
| 0.451188892 | < 0.001 | 393 | ARHGAP4 |
| 0.450830191 | < 0.001 | 4314 | MMP3 |
| 0.450802892 | < 0.001 | 200845 | KCTD6 |
| 0.450719267 | < 0.001 | 6252 | RTN1 |
| 0.450400054 | < 0.001 | 54873 | PALMD |
| 0.450267673 | < 0.001 | 523 | ATP6V1A |
| 0.449851006 | < 0.001 | 9373 | PLAA |
| 0.449552655 | < 0.001 | 51031 | GLOD4 |
| 0.449536026 | < 0.001 | 10744 | PTTG2 |
| 0.449350476 | < 0.001 | 10682 | EBP |
| 0.449313104 | < 0.001 | 23299 | BICD2 |
| 0.449308276 | < 0.001 | 50944 | SHANK1 |
| 0.449290931 | < 0.001 | 84301 | DDI2 |
| 0.449248224 | < 0.001 | 10716 | TBR1 |
| 0.449116528 | < 0.001 | 8567 | MADD |
| 0.449009985 | < 0.001 | 434 | ASIP |
| 0.449003845 | < 0.001 | 11163 | NUDT4 |
| 0.448902488 | < 0.001 | 9647 | PPM1F |
| 0.448819637 | < 0.001 | 11261 | AC012652.1 |
| 0.448663592 | < 0.001 | 78997 | GDAP1L1 |
| 0.448598951 | < 0.001 | 29906 | ST8SIA5 |
| 0.448593646 | < 0.001 | 729603 | LOC729603 |
| 0.448513895 | < 0.001 | 10055 | SAE1 |
| 0.448469073 | < 0.001 | 10325 | RRAGB |
| 0.448408723 | < 0.001 | 29106 | SCG3 |
| 0.44829908 | < 0.001 | 494197 | SPANXN5 |
| 0.448194295 | < 0.001 | 80115 | BAIAP2L2 |
| 0.448137879 | < 0.001 | 154807 | VKORC1L1 |
| 0.448101342 | < 0.001 | 57469 | PNMAL2 |
| 0.448028386 | < 0.001 | 9221 | NOLC1 |
| 0.448019981 | < 0.001 | 387849 | REP15 |
| 0.447972327 | < 0.001 | 29944 | PNMA3 |
| 0.44795543 | < 0.001 | 284403 | WDR62 |
| 0.447718173 | < 0.001 | 84303 | CHCHD6 |
| 0.44756493 | < 0.001 | 3836 | KPNA1 |
| 0.447249562 | < 0.001 | 284415 | VSTM1 |
| 0.447136968 | < 0.001 | 7143 | TNR |
| 0.447037518 | < 0.001 | 400120 | C13orf36 |
| 0.446845889 | < 0.001 | 192668 | CYS1 |
| 0.446812361 | < 0.001 | 6706 | SPRR2G |
| 0.446810037 | < 0.001 | 57521 | RPTOR |
| 0.446683347 | < 0.001 | 256281 | NUDT14 |
| 0.446638405 | < 0.001 | 7158 | TP53BP1 |
| 0.446573228 | < 0.001 | 4685 | NCAM2 |
| 0.446419716 | < 0.001 | 400451 | FAM174B |
| 0.446368545 | < 0.001 | 8000 | PSCA |
| 0.446283758 | < 0.001 | 84790 | TUBA1C |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.624710441 | 6.71922E-05 | < 0.001 | < 0.001 | 26872 | STEAP1 |
| 0.624453008 | 6.77719E-05 | < 0.001 | < 0.001 | 3301 | DNAJA1 |
| 0.624453008 | 6.77719E-05 | < 0.001 | < 0.001 | 3717 | JAK2 |
| 0.624195635 | 6.83564E-05 | < 0.001 | < 0.001 | 79822 | ARHGAP28 |
| 0.623938203 | 6.89453E-05 | < 0.001 | < 0.001 | 84779 | NAA11 |
| 0.62368083 | 6.95392E-05 | < 0.001 | < 0.001 | 26511 | CHIC2 |
| 0.62368083 | 6.95392E-05 | < 0.001 | < 0.001 | 79895 | ATP8B4 |
| 0.623423398 | 7.01373E-05 | < 0.001 | < 0.001 | 84246 | MED10 |
| 0.623166025 | 7.07403E-05 | < 0.001 | < 0.001 | 54328 | GPR173 |
| 0.622908592 | 7.13476E-05 | < 0.001 | < 0.001 | 26297 | SERGEF |
| 0.622651219 | 7.19604E-05 | < 0.001 | < 0.001 | 56683 | C21orf59 |
| 0.622651219 | 7.19604E-05 | < 0.001 | < 0.001 | 729141 | LOC729141 |
| 0.622136414 | 7.31994E-05 | < 0.001 | < 0.001 | 10923 | SUB1 |
| 0.621878982 | 7.38258E-05 | < 0.001 | < 0.001 | 221833 | SP8 |
| 0.621621609 | 7.44577E-05 | < 0.001 | < 0.001 | 395 | ARHGAP6 |
| 0.621621609 | 7.44577E-05 | < 0.001 | < 0.001 | 90417 | C15orf23 |
| 0.620591998 | 7.70332E-05 | < 0.001 | < 0.001 | 4856 | NOV |
| 0.620591998 | 7.70332E-05 | < 0.001 | < 0.001 | 79172 | CENPO |
| 0.620334625 | 7.76896E-05 | < 0.001 | < 0.001 | 9686 | VGLL4 |
| 0.619562387 | 7.96891E-05 | < 0.001 | < 0.001 | 257019 | FRMD3 |
| 0.619047642 | 8.10484E-05 | < 0.001 | < 0.001 | 203054 | ADCK5 |
| 0.619047642 | 8.10484E-05 | 0.001 | 1 | 257313 | UTS2D |
| 0.618790209 | 8.17356E-05 | 0.001 | 1 | 56925 | LXN |
| 0.618532777 | 8.24283E-05 | < 0.001 | < 0.001 | 2630 | GBAP |
| 0.618532777 | 8.24283E-05 | < 0.001 | < 0.001 | 729806 | ZNF731P |
| 0.618018031 | 8.38296E-05 | < 0.001 | < 0.001 | 3098 | HK1 |
| 0.617760599 | 8.45379E-05 | < 0.001 | < 0.001 | 2038 | EPB42 |
| 0.617760599 | 8.45379E-05 | < 0.001 | < 0.001 | 55049 | C19orf60 |
| 0.617503166 | 8.52518E-05 | < 0.001 | < 0.001 | 10951 | CBX1 |
| 0.617245853 | 8.59713E-05 | 0.001 | 1 | 7295 | TXN |
| 0.616216242 | 8.89048E-05 | < 0.001 | < 0.001 | 2925 | GRPR |
| 0.616216242 | 8.89048E-05 | < 0.001 | < 0.001 | 3298 | HSF2 |
| 0.616216242 | 8.89048E-05 | < 0.001 | < 0.001 | 51725 | FBXO40 |
| 0.615701377 | 9.04053E-05 | 0.001 | 1 | 55253 | TYW1 |
| 0.615701377 | 9.04053E-05 | < 0.001 | < 0.001 | 56978 | PRDM8 |
| 0.615444005 | 9.11636E-05 | < 0.001 | < 0.001 | 527 | ATP6V0C |
| 0.615444005 | 9.11636E-05 | < 0.001 | < 0.001 | 25851 | TECPR1 |
| 0.615186572 | 9.19281E-05 | < 0.001 | < 0.001 | 4356 | MPP3 |
| 0.614929199 | 9.26984E-05 | < 0.001 | < 0.001 | 4707 | NDUFB1 |
| 0.614929199 | 9.26984E-05 | < 0.001 | < 0.001 | 9666 | DZIP3 |
| 0.614929199 | 9.26984E-05 | < 0.001 | < 0.001 | 79148 | MMP28 |
| 0.614929199 | 9.26984E-05 | < 0.001 | < 0.001 | 84261 | FBXW9 |
| 0.614929199 | 9.26984E-05 | < 0.001 | < 0.001 | 286319 | TUSC1 |
| 0.614414394 | 9.42566E-05 | < 0.001 | < 0.001 | 7993 | UBXN8 |
| 0.614414394 | 9.42566E-05 | < 0.001 | < 0.001 | 91010 | FMNL3 |
| 0.614414394 | 9.42566E-05 | < 0.001 | < 0.001 | 391722 | LOC391722 |
| 0.614156961 | 9.50445E-05 | 0.001 | 1 | 203068 | TUBB |
| 0.613899648 | 9.58384E-05 | < 0.001 | < 0.001 | 150572 | SMYD1 |
| 0.613642216 | 9.66384E-05 | < 0.001 | < 0.001 | 4312 | MMP1 |
| 0.613642216 | 9.66384E-05 | < 0.001 | < 0.001 | 6400 | SEL1L |
| 0.613642216 | 9.66384E-05 | 0.001 | 1 | 23033 | DOPEY1 |
| 0.613384783 | 9.74443E-05 | < 0.001 | < 0.001 | 881 | CCIN |
| 0.613127351 | 9.82561E-05 | < 0.001 | < 0.001 | 3251 | HPRT1 |
| 0.613127351 | 9.82561E-05 | < 0.001 | < 0.001 | 6660 | SOX5 |
| 0.613127351 | 9.82561E-05 | < 0.001 | < 0.001 | 9577 | BRE |
| 0.612870038 | 9.90737E-05 | < 0.001 | < 0.001 | 6728 | SRP19 |
| 0.612612605 | 9.98983E-05 | < 0.001 | < 0.001 | 4151 | MB |
| 0.612612605 | 9.98983E-05 | 0.001 | 1 | 644242 | LOC644242 |
| 0.612355173 | 0.000100728 | < 0.001 | < 0.001 | 79814 | AGMAT |
| 0.6120978 | 0.000101565 | < 0.001 | < 0.001 | 2742 | GLRA2 |
| 0.6120978 | 0.000101565 | < 0.001 | < 0.001 | 401647 | GOLGA7B |
| 0.611840427 | 0.000102408 | < 0.001 | < 0.001 | 54495 | TMX3 |
| 0.611840427 | 0.000102408 | < 0.001 | < 0.001 | 152641 | C4ORF38 |
| 0.611840427 | 0.000102408 | < 0.001 | < 0.001 | 644189 | LOC644189 |
| 0.611582994 | 0.000103257 | 0.001 | 1 | 168455 | C7ORF74 |
| 0.611068189 | 0.000104975 | < 0.001 | < 0.001 | 1978 | EIF4EBP1 |
| 0.610810816 | 0.000105843 | < 0.001 | < 0.001 | 4929 | NR4A2 |
| 0.610553384 | 0.000106718 | < 0.001 | < 0.001 | 1386 | ATF2 |
| 0.610553384 | 0.000106718 | 0.001 | 1 | 138009 | DCAF4L2 |
| 0.610296011 | 0.000107599 | < 0.001 | < 0.001 | 10943 | MSL3 |
| 0.610296011 | 0.000107599 | < 0.001 | < 0.001 | 51251 | NT5C3 |
| 0.610296011 | 0.000107599 | < 0.001 | < 0.001 | 221491 | C6orf1 |
| 0.609523833 | 0.000110283 | < 0.001 | < 0.001 | 5644 | PRSS1 |
| 0.609523833 | 0.000110283 | < 0.001 | < 0.001 | 6398 | SECTM1 |
| 0.6092664 | 0.000111191 | < 0.001 | < 0.001 | 29844 | TFPT |
| 0.609008968 | 0.000112106 | < 0.001 | < 0.001 | 5601 | MAPK9 |
| 0.609008968 | 0.000112106 | 0.001 | 1 | 10007 | GNPDA1 |
| 0.608751655 | 0.000113027 | 0.001 | 1 | 54566 | EPB41L4B |
| 0.608494222 | 0.000113955 | < 0.001 | < 0.001 | 389072 | PLEKHM3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.445821106 | < 0.001 | 221078 | NSUN6 |
| 0.445693463 | < 0.001 | 55013 | CCDC109B |
| 0.44566521 | < 0.001 | 54509 | RHOF |
| 0.445519924 | < 0.001 | 64283 | AC093283.3 |
| 0.445476949 | < 0.001 | 26297 | SERGEF |
| 0.445321947 | < 0.001 | 644189 | LOC644189 |
| 0.445230186 | < 0.001 | 51256 | TBC1D7 |
| 0.444995433 | < 0.001 | 389634 | RP11-90D4.2 |
| 0.444639206 | < 0.001 | 2994 | GYPB |
| 0.444635123 | < 0.001 | 1759 | DNM1 |
| 0.443641365 | < 0.001 | 5110 | PCMT1 |
| 0.443594307 | < 0.001 | 152006 | RNF38 |
| 0.443497121 | < 0.001 | 492303 | GEMIN8P4 |
| 0.443491876 | < 0.001 | 5575 | PRKAR1B |
| 0.443342835 | < 0.001 | 64208 | POPDC3 |
| 0.443074584 | < 0.001 | 90523 | C6orf142 |
| 0.442805469 | < 0.001 | 11127 | KIF3A |
| 0.442599475 | < 0.001 | 4887 | NPY2R |
| 0.442532122 | < 0.001 | 374868 | ATP9B |
| 0.442286611 | < 0.001 | 58491 | ZNF71 |
| 0.44221729 | < 0.001 | 5880 | RAC2 |
| 0.442213476 | < 0.001 | 221421 | RSPH9 |
| 0.442196459 | < 0.001 | 100507055 | LRCOL1 |
| 0.442044765 | < 0.001 | 10943 | MSL3 |
| 0.442015648 | < 0.001 | 3838 | KPNA2 |
| 0.441862226 | < 0.001 | 3098 | HK1 |
| 0.441782951 | < 0.001 | 11179 | ZNF277 |
| 0.441720515 | < 0.001 | 168455 | C7ORF74 |
| 0.441652626 | < 0.001 | 3156 | HMGCR |
| 0.441648275 | < 0.001 | 360 | AQP3 |
| 0.441541702 | < 0.001 | 23254 | RP1-21O18.1 |
| 0.441149026 | < 0.001 | 645426 | TMEM191C |
| 0.441111863 | < 0.001 | 1859 | DYRK1A |
| 0.440787613 | < 0.001 | 10673 | TNFSF13B |
| 0.440766394 | < 0.001 | 5899 | RALB |
| 0.440600365 | < 0.001 | 23309 | SIN3B |
| 0.440588415 | < 0.001 | 8739 | HRK |
| 0.440472215 | < 0.001 | 7220 | TRPC1 |
| 0.440387279 | < 0.001 | 2709 | GJB5 |
| 0.440051854 | < 0.001 | 256380 | SCML4 |
| 0.440012425 | < 0.001 | 407738 | FAM19A1 |
| 0.439882696 | < 0.001 | 5619 | PRM1 |
| 0.439430356 | < 0.001 | 389072 | PLEKHM3 |
| 0.439399511 | < 0.001 | 282890 | ZNF311 |
| 0.439390302 | < 0.001 | 10955 | SERINC3 |
| 0.43930763 | < 0.001 | 84664 | CSPG4P2Y |
| 0.43903631 | < 0.001 | 100288413 | ERVMER34-1 |
| 0.43890965 | < 0.001 | 56063 | C1orf91 |
| 0.438808709 | < 0.001 | 3727 | JUND |
| 0.438625276 | < 0.001 | 84315 | MON1A |
| 0.438566864 | < 0.001 | 3479 | IGF1 |
| 0.438348442 | < 0.001 | 27304 | MOCS3 |
| 0.43818891 | < 0.001 | 1176 | AP3S1 |
| 0.438176095 | < 0.001 | 644242 | LOC644242 |
| 0.438092321 | < 0.001 | 7301 | TYRO3 |
| 0.437809825 | < 0.001 | 79160 | MGC4294 |
| 0.437786579 | < 0.001 | 57465 | TBC1D24 |
| 0.437731594 | < 0.001 | 885 | CCK |
| 0.437561512 | < 0.001 | 4062 | LY6H |
| 0.437533736 | < 0.001 | 9901 | SRGAP3 |
| 0.43728742 | < 0.001 | 80728 | AC084125.1 |
| 0.437102735 | < 0.001 | 57823 | SLAMF7 |
| 0.436622202 | < 0.001 | 5746 | PTH2R |
| 0.436421335 | < 0.001 | 1816 | DRD5 |
| 0.436403841 | < 0.001 | 138046 | RALYL |
| 0.436184406 | < 0.001 | 1033 | CDKN3 |
| 0.43609497 | < 0.001 | 4232 | MEST |
| 0.436063021 | < 0.001 | 3938 | LCT |
| 0.435957164 | < 0.001 | 26262 | TSPAN17 |
| 0.435880721 | < 0.001 | 83852 | SETDB2 |
| 0.435853243 | < 0.001 | 8698 | S1PR4 |
| 0.435807168 | < 0.001 | 378805 | AC058791.2 |
| 0.435704827 | < 0.001 | 10133 | OPTN |
| 0.435548812 | < 0.001 | 56907 | SPIRE1 |
| 0.435524106 | < 0.001 | 25927 | CNRIP1 |
| 0.435433537 | < 0.001 | 5328 | PLAU |
| 0.435276031 | < 0.001 | 1434 | CSE1L |
| 0.435138643 | < 0.001 | 2239 | GPC4 |
| 0.435097396 | < 0.001 | 2922 | GRP |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.607979357 | 0.000115832 | < 0.001 | < 0.001 | 348980 | HCN1 |
| 0.607721984 | 0.000116781 | 0.001 | 1 | 2098 | ESD |
| 0.607721984 | 0.000116781 | < 0.001 | < 0.001 | 3839 | KPNA3 |
| 0.607721984 | 0.000116781 | < 0.001 | < 0.001 | 25901 | CCDC28A |
| 0.607464612 | 0.000117737 | < 0.001 | < 0.001 | 170685 | NUDT10 |
| 0.607207179 | 0.0001187 | < 0.001 | < 0.001 | 402055 | SRRD |
| 0.606949806 | 0.000119671 | < 0.001 | < 0.001 | 51582 | AZIN1 |
| 0.606692374 | 0.000120648 | < 0.001 | < 0.001 | 78997 | GDAP1L1 |
| 0.606435001 | 0.000121633 | < 0.001 | < 0.001 | 126014 | OSCAR |
| 0.606435001 | 0.000121633 | < 0.001 | < 0.001 | 442308 | LOC442308 |
| 0.606177628 | 0.000122624 | < 0.001 | < 0.001 | 758 | MPPED1 |
| 0.605920196 | 0.000123624 | 0.001 | 1 | 1459 | CSNK2A2 |
| 0.605920196 | 0.000123624 | < 0.001 | < 0.001 | 7173 | TPO |
| 0.605920196 | 0.000123624 | < 0.001 | < 0.001 | 255743 | NPNT |
| 0.604890585 | 0.000127693 | < 0.001 | < 0.001 | 6622 | SNCA |
| 0.604890585 | 0.000127693 | < 0.001 | < 0.001 | 643783 | USP46-AS1 |
| 0.604633152 | 0.00012873 | < 0.001 | < 0.001 | 23467 | NPTXR |
| 0.603603601 | 0.00013295 | < 0.001 | < 0.001 | 3995 | FADS3 |
| 0.603088796 | 0.000135107 | < 0.001 | < 0.001 | 9221 | NOLC1 |
| 0.602831364 | 0.000136198 | < 0.001 | < 0.001 | 9218 | VAPA |
| 0.602831364 | 0.000136198 | 0.001 | 1 | 84656 | AC020663.1 |
| 0.602831364 | 0.000136198 | 0.001 | 1 | 344787 | ZNF860 |
| 0.602573991 | 0.000137296 | < 0.001 | < 0.001 | 85459 | KIAA1731 |
| 0.602316618 | 0.000138402 | 0.001 | 1 | 100144602 | RP11-807H7.1 |
| 0.602059186 | 0.000139516 | < 0.001 | < 0.001 | 8532 | CPZ |
| 0.601801813 | 0.000140638 | < 0.001 | < 0.001 | 123346 | HIGD2B |
| 0.601286948 | 0.000142908 | 0.001 | 1 | 885 | CCK |
| 0.601029634 | 0.000144054 | < 0.001 | < 0.001 | 4698 | NDUFA5 |
| 0.601029634 | 0.000144054 | 0.001 | 1 | 5119 | CHMP1A |
| 0.600772202 | 0.000145209 | 0.001 | 1 | 670 | BPHL |
| 0.600257337 | 0.000147544 | 0.001 | 1 | 80086 | TUBA4B |
| 0.600000024 | 0.000148724 | < 0.001 | < 0.001 | 1008 | CDH10 |
| 0.600000024 | 0.000148724 | < 0.001 | < 0.001 | 56654 | NPDC1 |
| 0.600000024 | 0.000148724 | 0.001 | 1 | 79863 | RBFA |
| 0.599742591 | 0.000149913 | < 0.001 | < 0.001 | 2534 | FYN |
| 0.599742591 | 0.000149913 | < 0.001 | < 0.001 | 23266 | LPHN2 |
| 0.599485159 | 0.00015111 | 0.001 | 1 | 2275 | FHL3 |
| 0.599485159 | 0.00015111 | 0.001 | 1 | 4685 | NCAM2 |
| 0.599485159 | 0.00015111 | < 0.001 | < 0.001 | 65264 | UBE2Z |
| 0.599485159 | 0.00015111 | < 0.001 | < 0.001 | 441027 | TMEM150C |
| 0.599227786 | 0.000152316 | < 0.001 | < 0.001 | 259236 | TMIE |
| 0.598970413 | 0.00015353 | < 0.001 | < 0.001 | 2747 | GLUD2 |
| 0.598970413 | 0.00015353 | 0.001 | 1 | 4232 | MEST |
| 0.598712981 | 0.000154754 | < 0.001 | < 0.001 | 131375 | LYZL4 |
| 0.598455608 | 0.000155985 | 0.001 | 1 | 1809 | DPYSL3 |
| 0.598455608 | 0.000155985 | < 0.001 | < 0.001 | 79180 | EFHD2 |
| 0.598455608 | 0.000155985 | < 0.001 | < 0.001 | 80725 | AC115090.1 |
| 0.598198175 | 0.000157226 | < 0.001 | < 0.001 | 3398 | ID2 |
| 0.598198175 | 0.000157226 | < 0.001 | < 0.001 | 80344 | WDR23 |
| 0.59768337 | 0.000159734 | < 0.001 | < 0.001 | 57491 | AHRR |
| 0.59768337 | 0.000159734 | < 0.001 | < 0.001 | 64131 | XYLT1 |
| 0.59768337 | 0.000159734 | < 0.001 | < 0.001 | 79595 | SAP130 |
| 0.597168565 | 0.000162278 | < 0.001 | < 0.001 | 2626 | GATA4 |
| 0.596911192 | 0.000163564 | < 0.001 | < 0.001 | 550631 | CCDC157 |
| 0.596653819 | 0.000164859 | < 0.001 | < 0.001 | 100288413 | ERVMER34-1 |
| 0.596396387 | 0.000166162 | < 0.001 | < 0.001 | 1175 | AP2S1 |
| 0.596396387 | 0.000166162 | < 0.001 | < 0.001 | 130497 | OSR1 |
| 0.596396387 | 0.000166162 | < 0.001 | < 0.001 | 284353 | NKPD1 |
| 0.596138954 | 0.000167476 | < 0.001 | < 0.001 | 116988 | AGAP3 |
| 0.595881641 | 0.000168798 | 0.001 | 1 | 78995 | C17orf53 |
| 0.595624208 | 0.000170131 | < 0.001 | < 0.001 | 55335 | NIPSNAP3B |
| 0.595366776 | 0.000171472 | < 0.001 | < 0.001 | 10744 | PTTG2 |
| 0.595366776 | 0.000171472 | < 0.001 | < 0.001 | 10888 | GPR83 |
| 0.595366776 | 0.000171472 | < 0.001 | < 0.001 | 23014 | FBXO21 |
| 0.595109344 | 0.000172823 | < 0.001 | < 0.001 | 988 | CDC5L |
| 0.59485203 | 0.000174183 | < 0.001 | < 0.001 | 9698 | PUM1 |
| 0.594594598 | 0.000175554 | < 0.001 | < 0.001 | 56604 | TUBB7P |
| 0.594594598 | 0.000175554 | 0.001 | 1 | 140883 | ZNF280B |
| 0.594337165 | 0.000176934 | 0.001 | 1 | 8840 | WISP1 |
| 0.594079792 | 0.000178323 | 0.001 | 1 | 1446 | CSN1S1 |
| 0.594079792 | 0.000178323 | 0.001 | 1 | 8832 | CD84 |
| 0.594079792 | 0.000178323 | < 0.001 | < 0.001 | 79161 | C7orf23 |
| 0.593564987 | 0.000181132 | < 0.001 | < 0.001 | 2239 | GPC4 |
| 0.593564987 | 0.000181132 | < 0.001 | < 0.001 | 84955 | NUDCD1 |
| 0.593564987 | 0.000181132 | < 0.001 | < 0.001 | 203523 | ZNF449 |
| 0.593564987 | 0.000181132 | < 0.001 | < 0.001 | 286514 | MAGEB18 |
| 0.593564987 | 0.000181132 | < 0.001 | < 0.001 | 441461 | RP11-60I3.5 |
| 0.593307614 | 0.000182551 | < 0.001 | < 0.001 | 635 | BHMT |
| 0.593307614 | 0.000182551 | 0.002 | 1 | 56477 | CCL28 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.434904695 | < 0.001 | 84668 | FAM126A |
| 0.434889793 | < 0.001 | 3223 | HOXC6 |
| 0.434771121 | < 0.001 | 51246 | SHISA5 |
| 0.434520364 | < 0.001 | 10197 | PSME3 |
| 0.4344486 | < 0.001 | 25818 | KLK5 |
| 0.434351861 | < 0.001 | 51251 | NT5C3 |
| 0.43405354 | < 0.001 | 273 | AMPH |
| 0.434038728 | < 0.001 | 260434 | PYDC1 |
| 0.433852762 | < 0.001 | 79183 | TTPAL |
| 0.433802396 | < 0.001 | 2566 | GABRG2 |
| 0.433645546 | < 0.001 | 4908 | NTF3 |
| 0.433532983 | < 0.001 | 3781 | KCNN2 |
| 0.433472186 | < 0.001 | 83661 | MS4A8B |
| 0.433461428 | < 0.001 | 55117 | SLC6A15 |
| 0.43321228 | < 0.001 | 200734 | SPRED2 |
| 0.433194429 | < 0.001 | 375607 | C7orf52 |
| 0.433094501 | < 0.001 | 57369 | GJD2 |
| 0.433006883 | < 0.001 | 79595 | SAP130 |
| 0.432854682 | < 0.001 | 91442 | C19orf40 |
| 0.432375073 | < 0.001 | 3840 | KPNA4 |
| 0.432369173 | < 0.001 | 57586 | SYT13 |
| 0.432340801 | < 0.001 | 129049 | SGSM1 |
| 0.432319999 | < 0.001 | 286102 | TMED10P1 |
| 0.432285368 | < 0.001 | 9899 | SV2B |
| 0.43222937 | < 0.001 | 64769 | MEAF6 |
| 0.431816727 | < 0.001 | 9014 | TAF1B |
| 0.431562841 | < 0.001 | 9536 | PTGES |
| 0.431392312 | < 0.001 | 53826 | FXYD6 |
| 0.431308657 | < 0.001 | 5834 | PYGB |
| 0.431209326 | < 0.001 | 11187 | PKP3 |
| 0.430978239 | < 0.001 | 145483 | FAM161B |
| 0.430958539 | < 0.001 | 126789 | PUSL1 |
| 0.430906922 | < 0.001 | 100288332 | NPIPA5 |
| 0.430900544 | < 0.001 | 10053 | AP1M2 |
| 0.430747181 | < 0.001 | 132332 | TMEM155 |
| 0.43047291 | < 0.001 | 55959 | SULF2 |
| 0.430395961 | < 0.001 | 5796 | PTPRK |
| 0.430349618 | < 0.001 | 9938 | ARHGAP25 |
| 0.430198222 | < 0.001 | 9177 | HTR3B |
| 0.430158615 | < 0.001 | 23035 | PHLPP2 |
| 0.430151552 | < 0.001 | 3619 | INCENP |
| 0.430120111 | < 0.001 | 55742 | PARVA |
| 0.430050731 | < 0.001 | 339965 | CCDC158 |
| 0.429783762 | < 0.001 | 3839 | KPNA3 |
| 0.429597378 | < 0.001 | 157567 | ANKRD46 |
| 0.429475158 | < 0.001 | 257313 | UTS2D |
| 0.429443449 | < 0.001 | 3251 | HPRT1 |
| 0.429317921 | < 0.001 | 670 | BPHL |
| 0.42928046 | < 0.001 | 391722 | LOC391722 |
| 0.429270715 | < 0.001 | 11073 | TOPBP1 |
| 0.429235518 | < 0.001 | 57526 | PCDH19 |
| 0.429183543 | < 0.001 | 150244 | ZDHHC8P1 |
| 0.428843111 | < 0.001 | 131375 | LYZL4 |
| 0.428805083 | < 0.001 | 8891 | EIF2B3 |
| 0.428765714 | < 0.001 | 9821 | RB1CC1 |
| 0.428759485 | < 0.001 | 57617 | VPS18 |
| 0.428724289 | < 0.001 | 650655 | ABCA17P |
| 0.428680867 | < 0.001 | 440435 | GPR179 |
| 0.428452104 | < 0.001 | 6855 | SYP |
| 0.428411424 | < 0.001 | 84216 | TMEM117 |
| 0.42839843 | < 0.001 | 84837 | RP11-431H16.2 |
| 0.428301871 | < 0.001 | 9218 | VAPA |
| 0.428289354 | < 0.001 | 51693 | TRAPPC2L |
| 0.428283542 | < 0.001 | 54749 | EPDR1 |
| 0.4282718 | < 0.001 | 1175 | AP2S1 |
| 0.428164124 | < 0.001 | 2534 | FYN |
| 0.428112209 | < 0.001 | 5529 | PPP2R5E |
| 0.428042173 | < 0.001 | 5922 | RASA2 |
| 0.427972525 | < 0.001 | 6482 | ST3GAL1 |
| 0.427769214 | < 0.001 | 56980 | PRDM10 |
| 0.427742332 | < 0.001 | 2767 | GNA11 |
| 0.427455723 | < 0.001 | 5874 | RAB27B |
| 0.427169561 | < 0.001 | 89927 | C16orf45 |
| 0.427145571 | < 0.001 | 80381 | CD276 |
| 0.427037179 | < 0.001 | 83931 | STK40 |
| 0.426957786 | < 0.001 | 10439 | OLFM1 |
| 0.426841885 | < 0.001 | 196394 | AMN1 |
| 0.426683187 | < 0.001 | 56936 | C14orf162 |
| 0.426622212 | < 0.001 | 3157 | HMGCS1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.593307614 | 0.000182551 | 0.001 | 1 | 84691 | FAM71F1 |
| 0.593307614 | 0.000182551 | < 0.001 | < 0.001 | 91574 | C12orf65 |
| 0.593050182 | 0.00018398 | < 0.001 | < 0.001 | 55013 | CCDC109B |
| 0.593050182 | 0.00018398 | < 0.001 | < 0.001 | 55214 | LEPREL1 |
| 0.592792749 | 0.000185419 | < 0.001 | < 0.001 | 9958 | USP15 |
| 0.592792749 | 0.000185419 | < 0.001 | < 0.001 | 90874 | ZNF697 |
| 0.592535377 | 0.000186868 | < 0.001 | < 0.001 | 79038 | ZFYVE21 |
| 0.592020571 | 0.000189798 | 0.001 | 1 | 23002 | DAAM1 |
| 0.592020571 | 0.000189798 | 0.001 | 1 | 27151 | CPAMD8 |
| 0.592020571 | 0.000189798 | < 0.001 | < 0.001 | 390162 | OR5M9 |
| 0.591763139 | 0.000191278 | 0.002 | 1 | 149951 | COMMD7 |
| 0.591763139 | 0.000191278 | < 0.001 | < 0.001 | 387357 | THEMIS |
| 0.590990961 | 0.00019578 | < 0.001 | < 0.001 | 9373 | PLAA |
| 0.590990961 | 0.00019578 | < 0.001 | < 0.001 | 389043 | LOC389043 |
| 0.590476215 | 0.000198834 | 0.001 | 1 | 8204 | NRIP1 |
| 0.590476215 | 0.000198834 | < 0.001 | < 0.001 | 205327 | C2orf69 |
| 0.590218782 | 0.000200377 | < 0.001 | < 0.001 | 2241 | FER |
| 0.590218782 | 0.000200377 | < 0.001 | < 0.001 | 6482 | ST3GAL1 |
| 0.590218782 | 0.000200377 | < 0.001 | < 0.001 | 10046 | MAMLD1 |
| 0.590218782 | 0.000200377 | < 0.001 | < 0.001 | 60558 | GUF1 |
| 0.590218782 | 0.000200377 | < 0.001 | < 0.001 | 65123 | INTS3 |
| 0.58996135 | 0.000201931 | < 0.001 | < 0.001 | 5796 | PTPRK |
| 0.589446604 | 0.000205071 | 0.002 | 1 | 89927 | C16orf45 |
| 0.589446604 | 0.000205071 | < 0.001 | < 0.001 | 114787 | GPRIN1 |
| 0.589189172 | 0.000206657 | < 0.001 | < 0.001 | 4810 | NHS |
| 0.589189172 | 0.000206657 | 0.001 | 1 | 25859 | AC109486.1 |
| 0.588931799 | 0.000208255 | < 0.001 | < 0.001 | 55697 | VAC14 |
| 0.588674366 | 0.000209863 | < 0.001 | < 0.001 | 23046 | KIF21B |
| 0.588674366 | 0.000209863 | < 0.001 | < 0.001 | 23673 | STX12 |
| 0.588674366 | 0.000209863 | < 0.001 | < 0.001 | 65018 | PINK1 |
| 0.588674366 | 0.000209863 | < 0.001 | < 0.001 | 145483 | FAM161B |
| 0.588416994 | 0.000211483 | < 0.001 | < 0.001 | 1577 | CYP3A5 |
| 0.588159621 | 0.000213114 | < 0.001 | < 0.001 | 7042 | TGFB2 |
| 0.588159621 | 0.000213114 | < 0.001 | < 0.001 | 8491 | MAP4K3 |
| 0.587644756 | 0.00021641 | < 0.001 | < 0.001 | 1456 | CSNK1G3 |
| 0.587644756 | 0.00021641 | 0.001 | 1 | 5076 | PAX2 |
| 0.587644756 | 0.00021641 | < 0.001 | < 0.001 | 9537 | TP53I11 |
| 0.587644756 | 0.00021641 | < 0.001 | < 0.001 | 10457 | GPNMB |
| 0.587644756 | 0.00021641 | < 0.001 | < 0.001 | 203547 | VMA21 |
| 0.587387323 | 0.000218075 | 0.001 | 1 | 10038 | PARP2 |
| 0.587387323 | 0.000218075 | < 0.001 | < 0.001 | 80000 | KIAA1772 |
| 0.586872578 | 0.00022144 | 0.001 | 1 | 65057 | ACD |
| 0.586615145 | 0.000223139 | < 0.001 | < 0.001 | 6545 | SLC7A4 |
| 0.586615145 | 0.000223139 | < 0.001 | < 0.001 | 80823 | BHLHB9 |
| 0.586357772 | 0.00022485 | 0.001 | 1 | 1859 | DYRK1A |
| 0.586357772 | 0.00022485 | 0.001 | 1 | 7223 | TRPC4 |
| 0.586357772 | 0.00022485 | 0.002 | 1 | 93974 | ATPIF1 |
| 0.586357772 | 0.00022485 | < 0.001 | < 0.001 | 114824 | PNMA5 |
| 0.586357772 | 0.00022485 | 0.004 | 1 | 196383 | RILPL2 |
| 0.586357772 | 0.00022485 | < 0.001 | < 0.001 | 255061 | TAC4 |
| 0.585842967 | 0.000228307 | < 0.001 | < 0.001 | 56776 | FMN2 |
| 0.585585594 | 0.000230055 | < 0.001 | < 0.001 | 145837 | LOC145837 |
| 0.585328162 | 0.000231813 | < 0.001 | < 0.001 | 3990 | LIPC |
| 0.585328162 | 0.000231813 | < 0.001 | < 0.001 | 4983 | OPHN1 |
| 0.585328162 | 0.000231813 | < 0.001 | < 0.001 | 55228 | PNMAL1 |
| 0.585070789 | 0.000233584 | < 0.001 | < 0.001 | 11073 | TOPBP1 |
| 0.584813356 | 0.000235366 | < 0.001 | < 0.001 | 10927 | SPIN1 |
| 0.584813356 | 0.000235366 | < 0.001 | < 0.001 | 11187 | PKP3 |
| 0.584813356 | 0.000235366 | < 0.001 | < 0.001 | 93487 | MAPK1IP1L |
| 0.584813356 | 0.000235366 | < 0.001 | < 0.001 | 117154 | DACH2 |
| 0.584813356 | 0.000235366 | < 0.001 | < 0.001 | 200407 | CREG2 |
| 0.584555984 | 0.000237163 | < 0.001 | < 0.001 | 23439 | ATP1B4 |
| 0.584555984 | 0.000237163 | 0.002 | 1 | 25939 | SAMHD1 |
| 0.584555984 | 0.000237163 | 0.001 | 1 | 127703 | C1orf216 |
| 0.584298551 | 0.000238969 | 0.001 | 1 | 79442 | LRRC2 |
| 0.584298551 | 0.000238969 | 0.001 | 1 | 79969 | C6orf134 |
| 0.584041178 | 0.00024079 | < 0.001 | < 0.001 | 26010 | SPATS2L |
| 0.583783805 | 0.000242621 | 0.001 | 1 | 5805 | PTS |
| 0.583783805 | 0.000242621 | < 0.001 | < 0.001 | 10695 | CNPY3 |
| 0.583783805 | 0.000242621 | < 0.001 | < 0.001 | 55634 | ZNF673 |
| 0.583783805 | 0.000242621 | 0.001 | 1 | 401232 | RP1-90J20.7 |
| 0.583526373 | 0.000244467 | 0.001 | 1 | 4062 | LY6H |
| 0.583526373 | 0.000244467 | < 0.001 | < 0.001 | 90956 | ADCK2 |
| 0.583526373 | 0.000244467 | < 0.001 | < 0.001 | 117581 | TWIST2 |
| 0.583011627 | 0.000248194 | < 0.001 | < 0.001 | 8417 | STX7 |
| 0.583011627 | 0.000248194 | < 0.001 | < 0.001 | 29985 | SLC39A3 |
| 0.583011627 | 0.000248194 | < 0.001 | < 0.001 | 93973 | ACTR8 |
| 0.582754195 | 0.000250076 | 0.001 | 1 | 8029 | CUBN |
| 0.582754195 | 0.000250076 | < 0.001 | < 0.001 | 8036 | SHOC2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.426572621 | < 0.001 | 79038 | ZFYVE21 |
| 0.426223963 | < 0.001 | 152641 | C4ORF38 |
| 0.426140279 | < 0.001 | 9917 | FAM20B |
| 0.426124185 | < 0.001 | 10376 | TUBA1B |
| 0.426016927 | < 0.001 | 6416 | MAP2K4 |
| 0.425981164 | < 0.001 | 27151 | CPAMD8 |
| 0.42592302 | < 0.001 | 643783 | USP46-AS1 |
| 0.42587173 | < 0.001 | 90874 | ZNF697 |
| 0.425857693 | < 0.001 | 23637 | RABGAP1 |
| 0.425771803 | < 0.001 | 26276 | VPS33B |
| 0.425731778 | < 0.001 | 1012 | CDH13 |
| 0.425726205 | < 0.001 | 79644 | SRD5A3 |
| 0.425274312 | < 0.001 | 4664 | NAB1 |
| 0.424999535 | < 0.001 | 159 | ADSS |
| 0.424954385 | < 0.001 | 22932 | POMZP3 |
| 0.42491585 | < 0.001 | 100113407 | TMEM170B |
| 0.424868315 | < 0.001 | 51102 | MECR |
| 0.424699098 | < 0.001 | 23760 | PITPNB |
| 0.424556881 | < 0.001 | 56107 | PCDHGA9 |
| 0.424545914 | < 0.001 | 3096 | HIVEP1 |
| 0.424289435 | < 0.001 | 387103 | C6orf173 |
| 0.42428872 | < 0.001 | 10202 | DHRS2 |
| 0.424288541 | < 0.001 | 123041 | SLC24A4 |
| 0.424254328 | < 0.001 | 9948 | WDR1 |
| 0.424166977 | < 0.001 | 317 | APAF1 |
| 0.424137205 | < 0.001 | 1675 | CFD |
| 0.424103796 | < 0.001 | 51569 | UFM1 |
| 0.42406103 | < 0.001 | 9908 | G3BP2 |
| 0.424012035 | < 0.001 | 23312 | DMXL2 |
| 0.423781544 | < 0.001 | 27346 | TMEM97 |
| 0.42357251 | < 0.001 | 3052 | HCCS |
| 0.423499644 | < 0.001 | 84955 | NUDCD1 |
| 0.423384756 | < 0.001 | 113452 | TMEM54 |
| 0.423174113 | < 0.001 | 349667 | RTN4RL2 |
| 0.423117369 | < 0.001 | 4133 | MAP2 |
| 0.423097342 | < 0.001 | 917 | CD3G |
| 0.422896117 | < 0.001 | 705 | BYSL |
| 0.422869354 | < 0.001 | 338811 | FAM19A2 |
| 0.422831744 | < 0.001 | 5983 | RFC3 |
| 0.422813743 | < 0.001 | 79705 | LRRK1 |
| 0.422748774 | < 0.001 | 5987 | TRIM27 |
| 0.422342539 | < 0.001 | 9693 | RAPGEF2 |
| 0.422308832 | < 0.001 | 140597 | TCEAL2 |
| 0.42221716 | < 0.001 | 135154 | C6orf57 |
| 0.422181875 | < 0.001 | 55733 | HHAT |
| 0.422024339 | < 0.001 | 6509 | SLC1A4 |
| 0.421994239 | < 0.001 | 339044 | PKD1P1 |
| 0.421874762 | < 0.001 | 8809 | IL18R1 |
| 0.421861947 | < 0.001 | 79637 | ARMC7 |
| 0.421799541 | < 0.001 | 635 | BHMT |
| 0.421778411 | < 0.001 | 65997 | RASL11B |
| 0.42159161 | < 0.001 | 55697 | VAC14 |
| 0.421572059 | < 0.001 | 9722 | NOS1AP |
| 0.42150712 | < 0.001 | 5361 | PLXNA1 |
| 0.42140612 | < 0.001 | 80823 | BHLHB9 |
| 0.421354622 | < 0.001 | 10650 | SLMO1 |
| 0.421344608 | < 0.001 | 7224 | TRPC5 |
| 0.420475274 | < 0.001 | 153770 | PLAC8L1 |
| 0.420371175 | < 0.001 | 5214 | PFKP |
| 0.420199335 | < 0.001 | 80114 | BICC1 |
| 0.42005384 | < 0.001 | 4983 | OPHN1 |
| 0.419966131 | < 0.001 | 1996 | ELAVL4 |
| 0.419837713 | < 0.001 | 6622 | SNCA |
| 0.419827968 | < 0.001 | 79178 | THTPA |
| 0.419747174 | < 0.001 | 84618 | NT5C1A |
| 0.419730037 | < 0.001 | 11063 | SOX30 |
| 0.41972363 | < 0.001 | 11017 | SNRNP27 |
| 0.419635534 | < 0.001 | 728689 | EIF3CL |
| 0.419397056 | < 0.001 | 63979 | FIGNL1 |
| 0.41927281 | < 0.001 | 2168 | FABP1 |
| 0.419217587 | < 0.001 | 283987 | C17orf28 |
| 0.419202745 | < 0.001 | 57670 | KIAA1549 |
| 0.419181466 | < 0.001 | 92235 | DUSP27 |
| 0.419012189 | < 0.001 | 54996 | MOSC2 |
| 0.41881302 | < 0.001 | 79838 | TMC5 |
| 0.418723375 | < 0.001 | 25901 | CCDC28A |
| 0.418562293 | < 0.001 | 54862 | CC2D1A |
| 0.418052405 | < 0.001 | 832 | CAPZB |
| 0.41785273 | < 0.001 | 9424 | KCNK6 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.582754195 | 0.000250076 | < 0.001 | < 0.001 | 10336 | PCGF3 |
| 0.582496762 | 0.000251971 | 0.001 | 1 | 7345 | UCHL1 |
| 0.582496762 | 0.000251971 | 0.001 | 1 | 22932 | POMZP3 |
| 0.582496762 | 0.000251971 | 0.001 | 1 | 27285 | TEKT2 |
| 0.582496762 | 0.000251971 | 0.002 | 1 | 140688 | C20orf112 |
| 0.58223933 | 0.00025388 | < 0.001 | < 0.001 | 7533 | YWHAH |
| 0.581724584 | 0.000257735 | < 0.001 | < 0.001 | 5650 | KLK7 |
| 0.581467152 | 0.000259682 | 0.001 | 1 | 5646 | PRSS3 |
| 0.581467152 | 0.000259682 | 0.001 | 1 | 83445 | GSG1 |
| 0.581467152 | 0.000259682 | < 0.001 | < 0.001 | 119032 | C10orf32 |
| 0.580952406 | 0.000263616 | < 0.001 | < 0.001 | 3674 | ITGA2B |
| 0.580952406 | 0.000263616 | < 0.001 | < 0.001 | 64284 | RAB17 |
| 0.580952406 | 0.000263616 | 0.001 | 1 | 339231 | ARL16 |
| 0.580694973 | 0.000265603 | < 0.001 | < 0.001 | 153743 | PPP1R2P3 |
| 0.580437601 | 0.000267604 | < 0.001 | < 0.001 | 167227 | DCP2 |
| 0.579665363 | 0.000273686 | < 0.001 | < 0.001 | 57414 | RHBDD2 |
| 0.57940799 | 0.000275742 | 0.001 | 1 | 1208 | CLPS |
| 0.579150558 | 0.000277809 | < 0.001 | < 0.001 | 83959 | SLC4A11 |
| 0.578378379 | 0.0002841 | < 0.001 | < 0.001 | 7280 | TUBB2A |
| 0.578378379 | 0.0002841 | 0.003 | 1 | 54331 | GNG2 |
| 0.578378379 | 0.0002841 | 0.001 | 1 | 81794 | ADAMTS10 |
| 0.577863514 | 0.000288364 | < 0.001 | < 0.001 | 645426 | TMEM191C |
| 0.577606201 | 0.000290517 | < 0.001 | < 0.001 | 10318 | TNIP1 |
| 0.577091336 | 0.000294866 | < 0.001 | < 0.001 | 7301 | TYRO3 |
| 0.577091336 | 0.000294866 | 0.001 | 1 | 8572 | PDLIM4 |
| 0.577091336 | 0.000294866 | 0.001 | 1 | 8742 | TNFSF12 |
| 0.577091336 | 0.000294866 | < 0.001 | < 0.001 | 284656 | RP4-783C10.1 |
| 0.576576591 | 0.000299274 | < 0.001 | < 0.001 | 2157 | F8 |
| 0.576576591 | 0.000299274 | 0.001 | 1 | 9645 | MICAL2 |
| 0.576576591 | 0.000299274 | < 0.001 | < 0.001 | 81706 | PPP1R14C |
| 0.576061785 | 0.000303741 | < 0.001 | < 0.001 | 84216 | TMEM117 |
| 0.575804353 | 0.000305997 | 0.001 | 1 | 84276 | NICN1 |
| 0.57554698 | 0.000308268 | < 0.001 | < 0.001 | 4636 | MYL5 |
| 0.575289607 | 0.000310554 | 0.002 | 1 | 9922 | IQSEC1 |
| 0.575032175 | 0.000312854 | < 0.001 | < 0.001 | 155006 | TMEM213 |
| 0.574774742 | 0.000315171 | < 0.001 | < 0.001 | 5328 | PLAU |
| 0.574774742 | 0.000315171 | 0.001 | 1 | 55116 | TMEM39B |
| 0.574774742 | 0.000315171 | < 0.001 | < 0.001 | 80313 | LRRC27 |
| 0.574517369 | 0.000317502 | < 0.001 | < 0.001 | 10523 | CHERP |
| 0.574517369 | 0.000317502 | 0.001 | 1 | 317648 | C4ORF10 |
| 0.574259996 | 0.00031985 | 0.001 | 1 | 4718 | NDUFC2 |
| 0.574259996 | 0.00031985 | < 0.001 | < 0.001 | 54522 | ANKRD16 |
| 0.573745131 | 0.000324589 | 0.001 | 1 | 10444 | ZER1 |
| 0.573487759 | 0.000326983 | < 0.001 | < 0.001 | 8556 | CDC14A |
| 0.573487759 | 0.000326983 | < 0.001 | < 0.001 | 57181 | SLC39A10 |
| 0.573230386 | 0.000329393 | 0.001 | 1 | 6706 | SPRR2G |
| 0.573230386 | 0.000329393 | < 0.001 | < 0.001 | 8567 | MADD |
| 0.572972953 | 0.000331818 | 0.001 | 1 | 221421 | RSPH9 |
| 0.572715521 | 0.00033426 | < 0.001 | < 0.001 | 55231 | CCDC87 |
| 0.572715521 | 0.00033426 | 0.001 | 1 | 60312 | AFAP1 |
| 0.571943343 | 0.00034168 | < 0.001 | < 0.001 | 283638 | KIAA0284 |
| 0.571943343 | 0.00034168 | < 0.001 | < 0.001 | 347688 | TUBB8 |
| 0.57168597 | 0.000344187 | < 0.001 | < 0.001 | 2170 | FABP3 |
| 0.57168597 | 0.000344187 | 0.001 | 1 | 27000 | DNAJC2 |
| 0.57168597 | 0.000344187 | 0.001 | 1 | 51154 | MRTO4 |
| 0.57168597 | 0.000344187 | < 0.001 | < 0.001 | 57863 | CADM3 |
| 0.571428537 | 0.000346709 | 0.002 | 1 | 49855 | SCAPER |
| 0.571428537 | 0.000346709 | < 0.001 | < 0.001 | 55790 | CSGALNACT1 |
| 0.571428537 | 0.000346709 | 0.001 | 1 | 64854 | USP46 |
| 0.571171165 | 0.000349249 | < 0.001 | < 0.001 | 1025 | CDK9 |
| 0.571171165 | 0.000349249 | 0.001 | 1 | 79047 | KCTD15 |
| 0.570656359 | 0.000354376 | < 0.001 | < 0.001 | 54809 | SAMD9 |
| 0.570656359 | 0.000354376 | 0.001 | 1 | 57226 | LYRM2 |
| 0.570141613 | 0.000359571 | < 0.001 | < 0.001 | 396 | ARHGDIA |
| 0.570141613 | 0.000359571 | 0.001 | 1 | 10665 | C6orf10 |
| 0.570141613 | 0.000359571 | < 0.001 | < 0.001 | 25819 | CCRN4L |
| 0.570141613 | 0.000359571 | 0.001 | 1 | 114928 | GPRASP2 |
| 0.569884181 | 0.000362195 | 0.001 | 1 | 3559 | IL2RA |
| 0.569884181 | 0.000362195 | 0.001 | 1 | 121665 | AC069234.1 |
| 0.569884181 | 0.000362195 | < 0.001 | < 0.001 | 221078 | NSUN6 |
| 0.569626749 | 0.000364835 | 0.001 | 1 | 2876 | GPX1 |
| 0.569626749 | 0.000364835 | < 0.001 | < 0.001 | 4155 | MBP |
| 0.569626749 | 0.000364835 | < 0.001 | < 0.001 | 57521 | RPTOR |
| 0.569369316 | 0.000367491 | 0.001 | 1 | 25934 | NIPSNAP3A |
| 0.568597138 | 0.000375569 | 0.001 | 1 | 127933 | UHMK1 |
| 0.568597138 | 0.000375569 | 0.001 | 1 | 145773 | FAM81A |
| 0.568339765 | 0.000378295 | < 0.001 | < 0.001 | 2731 | GLDC |
| 0.568339765 | 0.000378295 | 0.002 | 1 | 22873 | DZIP1 |
| 0.568339765 | 0.000378295 | < 0.001 | < 0.001 | 57030 | SLC17A7 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.417659342 | < 0.001 | 136853 | SRCRB4D |
| 0.417625874 | < 0.001 | 2846 | LPAR4 |
| 0.417466134 | < 0.001 | 55816 | DOK5 |
| 0.417426527 | < 0.001 | 93664 | CADPS2 |
| 0.417291731 | < 0.001 | 4233 | MET |
| 0.417242885 | < 0.001 | 9037 | SEMA5A |
| 0.416838825 | < 0.001 | 8974 | P4HA2 |
| 0.416809797 | < 0.001 | 113 | ADCY7 |
| 0.416788399 | < 0.001 | 284996 | RNF149 |
| 0.416781157 | < 0.001 | 5025 | P2RX4 |
| 0.416625708 | < 0.001 | 8491 | MAP4K3 |
| 0.416522533 | < 0.001 | 9837 | GINS1 |
| 0.416345716 | < 0.001 | 124045 | C16orf55 |
| 0.416319013 | < 0.001 | 80020 | FOXRED2 |
| 0.416135609 | < 0.001 | 7428 | VHL |
| 0.416107565 | < 0.001 | 51605 | TRMT6 |
| 0.416064471 | < 0.001 | 5805 | PTS |
| 0.415955156 | < 0.001 | 3797 | KIF3C |
| 0.415704519 | < 0.001 | 134111 | UBE2QL1 |
| 0.415626973 | < 0.001 | 4745 | NELL1 |
| 0.415578604 | < 0.001 | 81706 | PPP1R14C |
| 0.415513963 | < 0.001 | 342850 | ANKRD62 |
| 0.41549167 | < 0.001 | 2048 | EPHB2 |
| 0.415154397 | < 0.001 | 10921 | RNPS1 |
| 0.415131032 | < 0.001 | 9114 | ATP6V0D1 |
| 0.414970875 | < 0.001 | 2630 | GBAP |
| 0.414725333 | < 0.001 | 6456 | SH3GL2 |
| 0.414704353 | < 0.001 | 5176 | SERPINF1 |
| 0.414688438 | < 0.001 | 57622 | LRFN1 |
| 0.414674163 | < 0.001 | 9609 | RAB36 |
| 0.414669961 | < 0.001 | 127943 | FCRLB |
| 0.414669573 | < 0.001 | 338879 | RNASE10 |
| 0.414629728 | < 0.001 | 5645 | PRSS2 |
| 0.414468348 | < 0.001 | 57120 | GOPC |
| 0.414409101 | < 0.001 | 9399 | STOML1 |
| 0.41435346 | < 0.001 | 8260 | NAA10 |
| 0.414192617 | < 0.001 | 2959 | GTF2B |
| 0.414121807 | < 0.001 | 728586 | AC068658.1 |
| 0.414084256 | < 0.001 | 4150 | MAZ |
| 0.413805604 | < 0.001 | 2556 | GABRA3 |
| 0.41372022 | < 0.001 | 155 | ADRB3 |
| 0.413687557 | < 0.001 | 55706 | TMEM48 |
| 0.413520217 | < 0.001 | 55228 | PNMAL1 |
| 0.413456202 | < 0.001 | 54932 | EXD3 |
| 0.41306749 | < 0.001 | 80350 | LPAL2 |
| 0.412791312 | < 0.001 | 55294 | FBXW7 |
| 0.412697792 | < 0.001 | 51299 | NRN1 |
| 0.412514329 | < 0.001 | 613038 | RP11-347C12.3 |
| 0.412487686 | < 0.001 | 8120 | AP3B2 |
| 0.412229717 | < 0.001 | 7134 | TNNC1 |
| 0.412225425 | < 0.001 | 128553 | TSHZ2 |
| 0.412219733 | < 0.001 | 80274 | SCUBE1 |
| 0.412149191 | < 0.001 | 9575 | CLOCK |
| 0.412056416 | < 0.001 | 4135 | MAP6 |
| 0.411993742 | < 0.001 | 51555 | PEX5L |
| 0.411886394 | < 0.001 | 83877 | TM2D2 |
| 0.411771566 | < 0.001 | 10409 | BASP1 |
| 0.411761105 | < 0.001 | 40 | ACCN1 |
| 0.411699384 | < 0.001 | 23077 | MYCBP2 |
| 0.411697954 | < 0.001 | 7993 | UBXN8 |
| 0.411516458 | < 0.001 | 117157 | SH2D1B |
| 0.411500424 | < 0.001 | 51218 | GLRX5 |
| 0.411215514 | < 0.001 | 401331 | RASA4CP |
| 0.411088854 | < 0.001 | 440224 | CXADRP3 |
| 0.411045015 | < 0.001 | 114824 | PNMA5 |
| 0.410830855 | < 0.001 | 64848 | YTHDC2 |
| 0.410617262 | < 0.001 | 9223 | MAGI1 |
| 0.410553336 | < 0.001 | 285598 | ARL10 |
| 0.410465211 | < 0.001 | 149111 | CNIH3 |
| 0.410384566 | < 0.001 | 56271 | BEX4 |
| 0.41036123 | < 0.001 | 2098 | ESD |
| 0.410221308 | < 0.001 | 23600 | AMACR |
| 0.410221189 | < 0.001 | 29890 | RBM15B |
| 0.410194188 | < 0.001 | 29919 | C18orf8 |
| 0.410125822 | < 0.001 | 134353 | LSM11 |
| 0.40999195 | < 0.001 | 80725 | AC115090.1 |
| 0.409947634 | < 0.001 | 33 | ACADL |
| 0.409836471 | < 0.001 | 340204 | C6orf127 |
| 0.409789175 | < 0.001 | 154150 | HDGFL1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.568339765 | 0.000378295 | < 0.001 | < 0.001 | 59269 | HIVEP3 |
| 0.568339765 | 0.000378295 | 0.003 | 1 | 338322 | NLRP10 |
| 0.568082392 | 0.00038104 | 0.001 | 1 | 1589 | CYP21A2 |
| 0.568082392 | 0.00038104 | < 0.001 | < 0.001 | 78991 | PCYOX1L |
| 0.56782496 | 0.000383803 | 0.001 | 1 | 1434 | CSE1L |
| 0.567567527 | 0.000386584 | 0.002 | 1 | 10650 | SLMO1 |
| 0.567567527 | 0.000386584 | < 0.001 | < 0.001 | 23648 | SSBP3 |
| 0.567567527 | 0.000386584 | < 0.001 | < 0.001 | 56829 | ZC3HAV1 |
| 0.567310154 | 0.000389381 | 0.001 | 1 | 51177 | PLEKHO1 |
| 0.567052782 | 0.000392198 | < 0.001 | < 0.001 | 7089 | TLE2 |
| 0.566795349 | 0.000395032 | < 0.001 | < 0.001 | 9647 | PPM1F |
| 0.566795349 | 0.000395032 | < 0.001 | < 0.001 | 145282 | MIPOL1 |
| 0.566537976 | 0.000397887 | 0.002 | 1 | 9612 | NCOR2 |
| 0.566280544 | 0.000400757 | 0.001 | 1 | 8030 | CCDC6 |
| 0.566280544 | 0.000400757 | < 0.001 | < 0.001 | 8809 | IL18R1 |
| 0.566280544 | 0.000400757 | 0.001 | 1 | 54585 | LZTFL1 |
| 0.566280544 | 0.000400757 | < 0.001 | < 0.001 | 80335 | WDR82 |
| 0.566023111 | 0.000403647 | < 0.001 | < 0.001 | 22864 | R3HDM2 |
| 0.566023111 | 0.000403647 | 0.001 | 1 | 54873 | PALMD |
| 0.566023111 | 0.000403647 | < 0.001 | < 0.001 | 65997 | RASL11B |
| 0.565765798 | 0.000406555 | < 0.001 | < 0.001 | 25766 | PRPF40B |
| 0.565765798 | 0.000406555 | 0.001 | 1 | 112858 | TP53RK |
| 0.565508366 | 0.000409483 | 0.002 | 1 | 3925 | STMN1 |
| 0.565508366 | 0.000409483 | < 0.001 | < 0.001 | 7170 | TPM3 |
| 0.565508366 | 0.000409483 | < 0.001 | < 0.001 | 10466 | COG5 |
| 0.565508366 | 0.000409483 | 0.001 | 1 | 284611 | FAM102B |
| 0.565250933 | 0.000412429 | 0.003 | 1 | 138882 | OR1N2 |
| 0.564993501 | 0.000415394 | 0.002 | 1 | 285855 | RPL7L1 |
| 0.564736187 | 0.000418377 | 0.001 | 1 | 7337 | UBE3A |
| 0.564736187 | 0.000418377 | < 0.001 | < 0.001 | 26256 | CABYR |
| 0.564736187 | 0.000418377 | < 0.001 | < 0.001 | 342977 | NANOS3 |
| 0.564478755 | 0.000421382 | 0.002 | 1 | 26281 | FGF20 |
| 0.56396395 | 0.000427444 | 0.001 | 1 | 7187 | TRAF3 |
| 0.563706577 | 0.000430505 | 0.003 | 1 | 9399 | STOML1 |
| 0.563191772 | 0.000436687 | < 0.001 | < 0.001 | 84172 | POLR1B |
| 0.563191772 | 0.000436687 | < 0.001 | < 0.001 | 112942 | CCDC104 |
| 0.563191772 | 0.000436687 | < 0.001 | < 0.001 | 138050 | HGSNAT |
| 0.563191772 | 0.000436687 | 0.001 | 1 | 196394 | AMN1 |
| 0.562934339 | 0.000439806 | 0.001 | 1 | 10622 | POLR3G |
| 0.562934339 | 0.000439806 | < 0.001 | < 0.001 | 135935 | NOBOX |
| 0.562934339 | 0.000439806 | 0.001 | 1 | 100137047 | JMJD7 |
| 0.562676966 | 0.000442946 | < 0.001 | < 0.001 | 2847 | MCHR1 |
| 0.562676966 | 0.000442946 | 0.001 | 1 | 126272 | EID2B |
| 0.562419534 | 0.000446105 | 0.002 | 1 | 7014 | TERF2 |
| 0.562419534 | 0.000446105 | 0.002 | 1 | 10202 | DHRS2 |
| 0.562419534 | 0.000446105 | 0.001 | 1 | 26521 | TIMM8B |
| 0.562419534 | 0.000446105 | 0.001 | 1 | 286102 | TMED10P1 |
| 0.562162161 | 0.000449286 | 0.001 | 1 | 7727 | ZNF174 |
| 0.561647356 | 0.000455706 | < 0.001 | < 0.001 | 84707 | BEX2 |
| 0.561647356 | 0.000455706 | 0.002 | 1 | 728689 | EIF3CL |
| 0.561389983 | 0.000458947 | 0.001 | 1 | 3692 | EIF6 |
| 0.561389983 | 0.000458947 | 0.001 | 1 | 646174 | C16orf90 |
| 0.560875118 | 0.000465492 | 0.002 | 1 | 284801 | RP3-410C9.1 |
| 0.560617805 | 0.000468795 | 0.001 | 1 | 56980 | PRDM10 |
| 0.560617805 | 0.000468795 | < 0.001 | < 0.001 | 92002 | FAM58A |
| 0.56010294 | 0.000475463 | < 0.001 | < 0.001 | 84247 | LDOC1L |
| 0.559845507 | 0.000478829 | < 0.001 | < 0.001 | 3049 | HBQ1 |
| 0.559845507 | 0.000478829 | 0.002 | 1 | 55084 | SOBP |
| 0.559845507 | 0.000478829 | 0.001 | 1 | 147968 | CAPN12 |
| 0.559845507 | 0.000478829 | 0.004 | 1 | 286023 | AC009365.1 |
| 0.559845507 | 0.000478829 | 0.002 | 1 | 388121 | TNFAIP8L3 |
| 0.559588194 | 0.000482216 | < 0.001 | < 0.001 | 10360 | NPM3 |
| 0.559588194 | 0.000482216 | 0.001 | 1 | 51379 | CRLF3 |
| 0.559588194 | 0.000482216 | 0.001 | 1 | 55010 | C12orf48 |
| 0.559330761 | 0.000485624 | 0.001 | 1 | 2319 | FLOT2 |
| 0.559330761 | 0.000485624 | < 0.001 | < 0.001 | 9172 | MYOM2 |
| 0.559073329 | 0.000489054 | < 0.001 | < 0.001 | 6252 | RTN1 |
| 0.559073329 | 0.000489054 | 0.001 | 1 | 9479 | MAPK8IP1 |
| 0.558815956 | 0.000492507 | < 0.001 | < 0.001 | 100133234 | SBF1P1 |
| 0.558558524 | 0.00049598 | 0.001 | 1 | 27289 | RND1 |
| 0.558558524 | 0.00049598 | 0.002 | 1 | 79363 | C1orf89 |
| 0.558558524 | 0.00049598 | 0.001 | 1 | 100130311 | AC233723.1 |
| 0.558301151 | 0.000499475 | < 0.001 | < 0.001 | 29935 | RPA4 |
| 0.558043778 | 0.000502992 | < 0.001 | < 0.001 | 100128553 | CTAGE4 |
| 0.557786345 | 0.000506533 | < 0.001 | < 0.001 | 51291 | GMIP |
| 0.557786345 | 0.000506533 | 0.001 | 1 | 64788 | LMF1 |
| 0.557528913 | 0.000510094 | 0.001 | 1 | 23603 | CORO1C |
| 0.557528913 | 0.000510094 | 0.003 | 1 | 57505 | AARS2 |
| 0.557528913 | 0.000510094 | < 0.001 | < 0.001 | 83638 | C11orf68 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.409697771 | < 0.001 | 55681 | SCYL2 |
| 0.409667909 | < 0.001 | 92912 | UBE2Q2 |
| 0.409656763 | < 0.001 | 5067 | CNTN3 |
| 0.409646928 | < 0.001 | 57491 | AHRR |
| 0.40961808 | < 0.001 | 10479 | SLC9A6 |
| 0.409547836 | < 0.001 | 4139 | MARK1 |
| 0.409531295 | < 0.001 | 56776 | FMN2 |
| 0.409409195 | < 0.001 | 2675 | GFRA2 |
| 0.409284234 | < 0.001 | 51309 | ARMCX1 |
| 0.409086347 | < 0.001 | 56917 | MEIS3P2 |
| 0.409001261 | < 0.001 | 402509 | SLC29A4P1 |
| 0.408925444 | < 0.001 | 10076 | PTPRU |
| 0.408906221 | < 0.001 | 1947 | EFNB1 |
| 0.408808947 | < 0.001 | 4486 | MST1R |
| 0.408619463 | < 0.001 | 23673 | STX12 |
| 0.408610523 | < 0.001 | 55423 | SIRPG |
| 0.408540606 | < 0.001 | 22885 | ABLIM3 |
| 0.408422977 | < 0.001 | 10299 | MARCHF6 |
| 0.408366889 | < 0.001 | 55879 | GABRQ |
| 0.408168823 | < 0.001 | 54968 | TMEM70 |
| 0.407992184 | < 0.001 | 80097 | FAM128B |
| 0.40789184 | < 0.001 | 643834 | PGA3 |
| 0.407698691 | < 0.001 | 63967 | CLSPN |
| 0.407588512 | < 0.001 | 2664 | GDI1 |
| 0.407545537 | < 0.001 | 316 | AOX1 |
| 0.407442659 | < 0.001 | 10554 | AGPAT1 |
| 0.40739882 | < 0.001 | 10695 | CNPY3 |
| 0.407156587 | < 0.001 | 64284 | RAB17 |
| 0.407103688 | < 0.001 | 128434 | VSTM2L |
| 0.406946838 | < 0.001 | 25940 | FAM98A |
| 0.406936169 | < 0.001 | 10962 | MLLT11 |
| 0.406904459 | < 0.001 | 55973 | BCAP29 |
| 0.406831443 | < 0.001 | 401127 | AC021148.2 |
| 0.40680939 | < 0.001 | 57497 | LRFN2 |
| 0.406737983 | < 0.001 | 51343 | FZR1 |
| 0.40667206 | < 0.001 | 1446 | CSN1S1 |
| 0.406592935 | < 0.001 | 55565 | ZNF821 |
| 0.406448722 | < 0.001 | 921 | CD5 |
| 0.40623799 | < 0.001 | 83902 | KRTAP17-1 |
| 0.406220108 | < 0.001 | 55231 | CCDC87 |
| 0.406096935 | < 0.001 | 4856 | NOV |
| 0.406084388 | < 0.001 | 10772 | FUSIP1 |
| 0.405892342 | < 0.001 | 5680 | PSG11 |
| 0.405891746 | < 0.001 | 283310 | C12orf64 |
| 0.4057284 | < 0.001 | 54555 | DDX49 |
| 0.405706882 | < 0.001 | 11124 | FAF1 |
| 0.405552655 | < 0.001 | 55662 | HIF1AN |
| 0.40528506 | < 0.001 | 340385 | ZNF517 |
| 0.405266851 | < 0.001 | 152185 | CCDC52 |
| 0.405226827 | < 0.001 | 171177 | RHOV |
| 0.404717505 | < 0.001 | 9578 | AL117209.1 |
| 0.404479265 | < 0.001 | 132789 | GNPDA2 |
| 0.404292762 | < 0.001 | 100288198 | LOC100288198 |
| 0.404188961 | < 0.001 | 55049 | C19orf60 |
| 0.404180169 | < 0.001 | 2802 | GOLGA3 |
| 0.404141217 | < 0.001 | 8572 | PDLIM4 |
| 0.40409252 | < 0.001 | 6853 | SYN1 |
| 0.404023737 | < 0.001 | 10056 | FARSB |
| 0.404006064 | < 0.001 | 51207 | DUSP13 |
| 0.403993517 | < 0.001 | 5714 | PSMD8 |
| 0.403865725 | < 0.001 | 10927 | SPIN1 |
| 0.403793216 | < 0.001 | 10920 | COPS8 |
| 0.403733343 | < 0.001 | 3093 | UBE2K |
| 0.403679073 | < 0.001 | 389384 | C6orf222 |
| 0.4036403 | < 0.001 | 645166 | RP11-14N7.2 |
| 0.403563827 | < 0.001 | 10631 | POSTN |
| 0.403499424 | < 0.001 | 503639 | DUXAP10 |
| 0.403259039 | < 0.001 | 116328 | C8orf34 |
| 0.403193742 | < 0.001 | 5707 | PSMD1 |
| 0.403151721 | < 0.001 | 25830 | SULT4A1 |
| 0.402898848 | < 0.001 | 2222 | FDFT1 |
| 0.402896941 | < 0.001 | 26013 | L3MBTL |
| 0.402813375 | < 0.001 | 10728 | PTGES3 |
| 0.402775168 | < 0.001 | 56925 | LXN |
| 0.40264079 | < 0.001 | 10556 | RPP30 |
| 0.402382374 | < 0.001 | 158399 | ZNF483 |
| 0.402203053 | < 0.001 | 84261 | FBXW9 |
| 0.402021229 | < 0.001 | 55915 | LANCL2 |
| 0.401894897 | < 0.001 | 134430 | WDR36 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.55727154 | 0.000513676 | 0.001 | 1 | 6305 | SBF1 |
| 0.55727154 | 0.000513676 | 0.002 | 1 | 7428 | VHL |
| 0.55727154 | 0.000513676 | < 0.001 | < 0.001 | 26038 | CHD5 |
| 0.556499302 | 0.000524563 | 0.001 | 1 | 3423 | IDS |
| 0.556499302 | 0.000524563 | 0.003 | 1 | 8270 | LAGE3 |
| 0.556241989 | 0.000528237 | < 0.001 | < 0.001 | 56888 | KCMF1 |
| 0.556241989 | 0.000528237 | < 0.001 | < 0.001 | 79703 | C11orf80 |
| 0.556241989 | 0.000528237 | 0.001 | 1 | 115557 | GEFT |
| 0.555984557 | 0.000531934 | < 0.001 | < 0.001 | 392145 | LOC392145 |
| 0.555469751 | 0.000539398 | 0.001 | 1 | 2996 | GYPE |
| 0.555469751 | 0.000539398 | < 0.001 | < 0.001 | 152098 | ZCWPW2 |
| 0.555469751 | 0.000539398 | 0.001 | 1 | 100131482 | LOC100131482 |
| 0.555212379 | 0.000543164 | 0.002 | 1 | 203238 | C9orf93 |
| 0.554954946 | 0.000546955 | < 0.001 | < 0.001 | 445 | ASS1 |
| 0.554954946 | 0.000546955 | 0.001 | 1 | 386672 | KRTAP10-4 |
| 0.554697514 | 0.000550767 | 0.002 | 1 | 25999 | CLIP3 |
| 0.554440141 | 0.000554604 | 0.001 | 1 | 3595 | IL12RB2 |
| 0.554440141 | 0.000554604 | 0.001 | 1 | 6512 | SLC1A7 |
| 0.553925335 | 0.000562351 | 0.001 | 1 | 1543 | CYP1A1 |
| 0.553925335 | 0.000562351 | < 0.001 | < 0.001 | 51260 | CXorf26 |
| 0.55341053 | 0.000570193 | 0.002 | 1 | 2863 | GPR39 |
| 0.55341053 | 0.000570193 | < 0.001 | < 0.001 | 54972 | TMEM132A |
| 0.552895784 | 0.000578133 | 0.001 | 1 | 252969 | NEIL2 |
| 0.552380919 | 0.00058617 | 0.001 | 1 | 284573 | C1orf157 |
| 0.552123487 | 0.000590227 | 0.001 | 1 | 51102 | MECR |
| 0.551866174 | 0.000594308 | 0.001 | 1 | 8767 | RIPK2 |
| 0.551866174 | 0.000594308 | 0.001 | 1 | 29970 | IQCJ-SCHIP1 |
| 0.551866174 | 0.000594308 | < 0.001 | < 0.001 | 340267 | COL28A1 |
| 0.551608741 | 0.000598413 | 0.001 | 1 | 57102 | C12orf4 |
| 0.551608741 | 0.000598413 | < 0.001 | < 0.001 | 83636 | C19orf12 |
| 0.551351309 | 0.000602545 | 0.002 | 1 | 523 | ATP6V1A |
| 0.551351309 | 0.000602545 | 0.001 | 1 | 795 | S100G |
| 0.551351309 | 0.000602545 | 0.001 | 1 | 1745 | DLX1 |
| 0.551351309 | 0.000602545 | < 0.001 | < 0.001 | 5584 | PRKCI |
| 0.551093936 | 0.000606701 | 0.002 | 1 | 2898 | GRIK2 |
| 0.551093936 | 0.000606701 | 0.002 | 1 | 10025 | MED16 |
| 0.551093936 | 0.000606701 | 0.001 | 1 | 27072 | VPS41 |
| 0.551093936 | 0.000606701 | 0.001 | 1 | 51646 | YPEL5 |
| 0.550836563 | 0.000610885 | < 0.001 | < 0.001 | 129642 | MBOAT2 |
| 0.550579131 | 0.000615091 | 0.001 | 1 | 51182 | HSPA14 |
| 0.550579131 | 0.000615091 | 0.002 | 1 | 64326 | RFWD2 |
| 0.550579131 | 0.000615091 | 0.005 | 1 | 165257 | C1QL2 |
| 0.550321758 | 0.000619326 | 0.001 | 1 | 51207 | DUSP13 |
| 0.550321758 | 0.000619326 | < 0.001 | < 0.001 | 54996 | MOSC2 |
| 0.550321758 | 0.000619326 | 0.001 | 1 | 64963 | MRPS11 |
| 0.549806952 | 0.000627873 | < 0.001 | < 0.001 | 7480 | WNT10B |
| 0.549806952 | 0.000627873 | 0.001 | 1 | 9442 | MED27 |
| 0.549806952 | 0.000627873 | 0.001 | 1 | 200734 | SPRED2 |
| 0.549806952 | 0.000627873 | 0.002 | 1 | 400553 | AC134312.1 |
| 0.54954952 | 0.000632183 | 0.001 | 1 | 653145 | ANXA8 |
| 0.549292147 | 0.000636521 | < 0.001 | < 0.001 | 9468 | PCYT1B |
| 0.549292147 | 0.000636521 | < 0.001 | < 0.001 | 54944 | AC073548.1 |
| 0.549034715 | 0.000640885 | 0.001 | 1 | 390 | RND3 |
| 0.549034715 | 0.000640885 | 0.001 | 1 | 84524 | ZC3H8 |
| 0.548777342 | 0.000645278 | 0.004 | 1 | 124583 | CANT1 |
| 0.548777342 | 0.000645278 | 0.002 | 1 | 345079 | ANKRD56 |
| 0.548519969 | 0.000649696 | 0.001 | 1 | 25827 | FBXL2 |
| 0.548262537 | 0.000654141 | 0.001 | 1 | 4097 | MAFG |
| 0.548262537 | 0.000654141 | < 0.001 | < 0.001 | 23314 | SATB2 |
| 0.548005104 | 0.000658611 | < 0.001 | < 0.001 | 9615 | GDA |
| 0.548005104 | 0.000658611 | 0.001 | 1 | 9948 | WDR1 |
| 0.548005104 | 0.000658611 | 0.002 | 1 | 26127 | FGFR1OP2 |
| 0.548005104 | 0.000658611 | 0.001 | 1 | 126433 | FBXO27 |
| 0.547747791 | 0.000663112 | < 0.001 | < 0.001 | 2677 | GGCX |
| 0.547747791 | 0.000663112 | < 0.001 | < 0.001 | 3781 | KCNN2 |
| 0.547490358 | 0.000667639 | 0.001 | 1 | 57465 | TBC1D24 |
| 0.547232926 | 0.000672194 | < 0.001 | < 0.001 | 3797 | KIF3C |
| 0.547232926 | 0.000672194 | 0.001 | 1 | 157567 | ANKRD46 |
| 0.546975493 | 0.000676774 | 0.002 | 1 | 53917 | RAB24 |
| 0.546975493 | 0.000676774 | < 0.001 | < 0.001 | 55565 | ZNF821 |
| 0.546975493 | 0.000676774 | 0.001 | 1 | 64968 | MRPS6 |
| 0.54671818 | 0.000681383 | 0.002 | 1 | 116328 | C8orf34 |
| 0.54671818 | 0.000681383 | 0.003 | 1 | 283209 | PGM2L1 |
| 0.546460748 | 0.000686022 | < 0.001 | < 0.001 | 6404 | SELPLG |
| 0.546460748 | 0.000686022 | 0.003 | 1 | 54584 | GNB1L |
| 0.546460748 | 0.000686022 | 0.003 | 1 | 57369 | GJD2 |
| 0.546460748 | 0.000686022 | 0.002 | 1 | 200845 | KCTD6 |
| 0.546203315 | 0.000690687 | 0.001 | 1 | 4887 | NPY2R |
| 0.54568857 | 0.000700102 | 0.003 | 1 | 108 | ADCY2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.401879251 | < 0.001 | 5125 | PCSK5 |
| 0.401731163 | < 0.001 | 10098 | TSPAN5 |
| 0.401531726 | < 0.001 | 23367 | LARP1 |
| 0.40150708 | < 0.001 | 55084 | SOBP |
| 0.40144524 | < 0.001 | 58524 | DMRT3 |
| 0.401322037 | < 0.001 | 10242 | KCNMB2 |
| 0.401046515 | < 0.001 | 56651 | LINC00470 |
| 0.400908232 | < 0.001 | 55171 | TBCCD1 |
| 0.400555789 | < 0.001 | 1861 | TOR1A |
| 0.400518835 | < 0.001 | 84246 | MED10 |
| 0.400433779 | < 0.001 | 83546 | RTBDN |
| 0.400315613 | < 0.001 | 158798 | AKAP14 |
| 0.400274962 | < 0.001 | 85459 | KIAA1731 |
| 0.399977148 | < 0.001 | 123346 | HIGD2B |
| 0.399812222 | < 0.001 | 254528 | C16orf73 |
| 0.399770796 | < 0.001 | 2067 | ERCC1 |
| 0.3995848 | < 0.001 | 79720 | VPS37B |
| 0.399443179 | < 0.001 | 3749 | KCNC4 |
| 0.399359405 | < 0.001 | 79908 | BTNL8 |
| 0.399344414 | < 0.001 | 11212 | PROSC |
| 0.399280578 | < 0.001 | 7334 | UBE2N |
| 0.399077058 | < 0.001 | 25827 | FBXL2 |
| 0.399024397 | < 0.001 | 390162 | OR5M9 |
| 0.398958325 | < 0.001 | 56061 | UBFD1 |
| 0.398636401 | < 0.001 | 8554 | PIAS1 |
| 0.398614705 | < 0.001 | 91408 | BTF3L4 |
| 0.398404002 | < 0.001 | 54847 | SIDT1 |
| 0.398391753 | < 0.001 | 2744 | GLS |
| 0.398302317 | < 0.001 | 285855 | RPL7L1 |
| 0.398096442 | < 0.001 | 83636 | C19orf12 |
| 0.397877783 | < 0.001 | 57226 | LYRM2 |
| 0.397639126 | < 0.001 | 3082 | HGF |
| 0.397488445 | < 0.001 | 163 | AP2B1 |
| 0.397426307 | < 0.001 | 157753 | TMEM74 |
| 0.397402763 | < 0.001 | 4175 | MCM6 |
| 0.397293389 | < 0.001 | 23648 | SSBP3 |
| 0.397164255 | < 0.001 | 55210 | ATAD3A |
| 0.397156179 | < 0.001 | 79414 | LRFN3 |
| 0.397104383 | < 0.001 | 3964 | LGALS8 |
| 0.39710328 | < 0.001 | 55500 | ETNK1 |
| 0.396996528 | < 0.001 | 284486 | THEM5 |
| 0.39685455 | < 0.001 | 80025 | PANK2 |
| 0.396785438 | < 0.001 | 81889 | FAHD1 |
| 0.39677301 | < 0.001 | 398 | ARHGDIG |
| 0.396748483 | < 0.001 | 9620 | CELSR1 |
| 0.396395504 | < 0.001 | 646548 | LOC646548 |
| 0.39625445 | < 0.001 | 9378 | NRXN1 |
| 0.396182477 | < 0.001 | 374879 | ZNF699 |
| 0.396012753 | < 0.001 | 84792 | C7orf70 |
| 0.395847589 | < 0.001 | 21 | ABCA3 |
| 0.395698965 | < 0.001 | 3692 | EIF6 |
| 0.395664543 | < 0.001 | 1212 | CLTB |
| 0.395647705 | < 0.001 | 84717 | AC011498.3 |
| 0.395617425 | < 0.001 | 124801 | LSM12 |
| 0.395488381 | < 0.001 | 9232 | PTTG1 |
| 0.395474374 | < 0.001 | 390079 | OR52E8 |
| 0.395395041 | < 0.001 | 7025 | NR2F1 |
| 0.395310789 | < 0.001 | 1589 | CYP21A2 |
| 0.395239025 | < 0.001 | 6248 | RSC1A1 |
| 0.395219535 | < 0.001 | 9686 | VGLL4 |
| 0.395148456 | < 0.001 | 54495 | TMX3 |
| 0.39452675 | < 0.001 | 399942 | TUBAP2 |
| 0.394354761 | < 0.001 | 57179 | KIAA1191 |
| 0.394349605 | < 0.001 | 10633 | RASL10A |
| 0.394038379 | < 0.001 | 8655 | DYNLL1 |
| 0.394033313 | < 0.001 | 8938 | BAIAP3 |
| 0.393892109 | < 0.001 | 10898 | CPSF4 |
| 0.393791199 | < 0.001 | 23335 | WDR7 |
| 0.393744737 | < 0.001 | 6772 | STAT1 |
| 0.393705904 | < 0.001 | 114335 | CGB1 |
| 0.393695295 | < 0.001 | 284801 | RP3-410C9.1 |
| 0.393625855 | < 0.001 | 29767 | TMOD2 |
| 0.393622071 | < 0.001 | 113828 | FAM83F |
| 0.393575639 | < 0.001 | 22906 | TRAK1 |
| 0.39356035 | < 0.001 | 113457 | TUBA3D |
| 0.393277884 | < 0.001 | 1114 | CHGB |
| 0.393135756 | < 0.001 | 84557 | MAP1LC3A |
| 0.393012911 | < 0.001 | 200312 | RNF215 |
| 0.393000513 | < 0.001 | 10923 | SUB1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.545431137 | 0.000704852 | 0.002 | 1 | 23008 | KLHDC10 |
| 0.545431137 | 0.000704852 | 0.001 | 1 | 64928 | MRPL14 |
| 0.545173764 | 0.000709632 | 0.001 | 1 | 10093 | ARPC4 |
| 0.544658899 | 0.000719275 | 0.001 | 1 | 7262 | PHLDA2 |
| 0.544658899 | 0.000719275 | < 0.001 | < 0.001 | 89795 | NAV3 |
| 0.544401526 | 0.00072414 | 0.001 | 1 | 7625 | ZNF74 |
| 0.544401526 | 0.00072414 | 0.001 | 1 | 10799 | RPP40 |
| 0.544144154 | 0.000729037 | 0.002 | 1 | 9609 | RAB36 |
| 0.544144154 | 0.000729037 | 0.002 | 1 | 9735 | KNTC1 |
| 0.544144154 | 0.000729037 | 0.003 | 1 | 285148 | IAH1 |
| 0.543886721 | 0.000733961 | 0.006 | 1 | 90637 | ZFAND2A |
| 0.543629289 | 0.000738915 | 0.001 | 1 | 408 | ARRB1 |
| 0.543629289 | 0.000738915 | < 0.001 | < 0.001 | 26262 | TSPAN17 |
| 0.543629289 | 0.000738915 | 0.002 | 1 | 79862 | ZNF669 |
| 0.543629289 | 0.000738915 | 0.002 | 1 | 93664 | CADPS2 |
| 0.543629289 | 0.000738915 | 0.001 | 1 | 115290 | FBXO17 |
| 0.543629289 | 0.000738915 | 0.001 | 1 | 116447 | TOP1MT |
| 0.543629289 | 0.000738915 | 0.001 | 1 | 360200 | TMPRSS9 |
| 0.543371975 | 0.000743898 | < 0.001 | < 0.001 | 9016 | SLC25A14 |
| 0.543371975 | 0.000743898 | 0.001 | 1 | 22911 | WDR47 |
| 0.543371975 | 0.000743898 | 0.001 | 1 | 92344 | GORAB |
| 0.543114543 | 0.000748914 | 0.002 | 1 | 26040 | SETBP1 |
| 0.543114543 | 0.000748914 | 0.002 | 1 | 51441 | YTHDF2 |
| 0.543114543 | 0.000748914 | 0.001 | 1 | 203102 | ADAM32 |
| 0.542599738 | 0.000759031 | < 0.001 | < 0.001 | 206358 | SLC36A1 |
| 0.542599738 | 0.000759031 | < 0.001 | < 0.001 | 283310 | C12orf64 |
| 0.542599738 | 0.000759031 | < 0.001 | < 0.001 | 728024 | LOC728024 |
| 0.542342365 | 0.000764133 | 0.001 | 1 | 155382 | VPS37D |
| 0.542084932 | 0.000769269 | 0.001 | 1 | 1033 | CDKN3 |
| 0.542084932 | 0.000769269 | < 0.001 | < 0.001 | 2770 | GNAI1 |
| 0.542084932 | 0.000769269 | 0.002 | 1 | 5125 | PCSK5 |
| 0.542084932 | 0.000769269 | 0.001 | 1 | 9693 | RAPGEF2 |
| 0.542084932 | 0.000769269 | < 0.001 | < 0.001 | 55959 | SULF2 |
| 0.542084932 | 0.000769269 | 0.004 | 1 | 83902 | KRTAP17-1 |
| 0.5418275 | 0.000774434 | 0.003 | 1 | 4150 | MAZ |
| 0.5418275 | 0.000774434 | 0.003 | 1 | 56107 | PCDHGA9 |
| 0.5418275 | 0.000774434 | 0.002 | 1 | 56955 | MEPE |
| 0.541570127 | 0.00077963 | 0.004 | 1 | 4282 | MIF |
| 0.541570127 | 0.00077963 | 0.001 | 1 | 4951 | OCM2 |
| 0.541312754 | 0.000784856 | 0.001 | 1 | 2520 | GAST |
| 0.541312754 | 0.000784856 | 0.001 | 1 | 374868 | ATP9B |
| 0.541055322 | 0.000790114 | < 0.001 | < 0.001 | 10439 | OLFM1 |
| 0.541055322 | 0.000790114 | 0.004 | 1 | 113802 | C1orf59 |
| 0.541055322 | 0.000790114 | < 0.001 | < 0.001 | 645166 | RP11-14N7.2 |
| 0.540797949 | 0.000795404 | 0.001 | 1 | 163 | AP2B1 |
| 0.540797949 | 0.000795404 | 0.002 | 1 | 9929 | JOSD1 |
| 0.540540516 | 0.000800726 | 0.003 | 1 | 143098 | MPP7 |
| 0.540540516 | 0.000800726 | 0.001 | 1 | 389634 | RP11-90D4.2 |
| 0.540283144 | 0.000806076 | 0.002 | 1 | 57692 | MAGEE1 |
| 0.540283144 | 0.000806076 | 0.001 | 1 | 80728 | AC084125.1 |
| 0.539768338 | 0.000816878 | 0.001 | 1 | 2029 | ENSA |
| 0.539768338 | 0.000816878 | 0.001 | 1 | 7355 | SLC35A2 |
| 0.539768338 | 0.000816878 | 0.001 | 1 | 22906 | TRAK1 |
| 0.539768338 | 0.000816878 | < 0.001 | < 0.001 | 64848 | YTHDC2 |
| 0.539768338 | 0.000816878 | 0.003 | 1 | 79017 | GGCT |
| 0.539768338 | 0.000816878 | 0.001 | 1 | 132332 | TMEM155 |
| 0.539510906 | 0.000822326 | 0.001 | 1 | 9382 | COG1 |
| 0.539510906 | 0.000822326 | 0.001 | 1 | 27294 | DHDH |
| 0.539510906 | 0.000822326 | 0.001 | 1 | 84560 | MT4 |
| 0.539253533 | 0.000827806 | < 0.001 | < 0.001 | 5110 | PCMT1 |
| 0.539253533 | 0.000827806 | 0.001 | 1 | 26998 | FETUB |
| 0.539253533 | 0.000827806 | 0.003 | 1 | 54677 | CROT |
| 0.53899616 | 0.000833318 | 0.001 | 1 | 4355 | MPP2 |
| 0.53899616 | 0.000833318 | 0.002 | 1 | 6870 | TACR3 |
| 0.53899616 | 0.000833318 | 0.001 | 1 | 51373 | MRPS17 |
| 0.53899616 | 0.000833318 | 0.001 | 1 | 81563 | C1orf21 |
| 0.538738728 | 0.000838865 | 0.002 | 1 | 55593 | OTUD5 |
| 0.538481295 | 0.000844443 | 0.002 | 1 | 51760 | SYT17 |
| 0.538481295 | 0.000844443 | 0.001 | 1 | 389874 | ZCCHC13 |
| 0.538223922 | 0.000850052 | < 0.001 | < 0.001 | 409 | ARRB2 |
| 0.538223922 | 0.000850052 | < 0.001 | < 0.001 | 5496 | PPM1G |
| 0.538223922 | 0.000850052 | 0.002 | 1 | 80114 | BICC1 |
| 0.538223922 | 0.000850052 | 0.004 | 1 | 123036 | TC2N |
| 0.537966549 | 0.000855696 | 0.002 | 1 | 5791 | PTPRE |
| 0.537966549 | 0.000855696 | 0.001 | 1 | 6613 | SUMO2 |
| 0.537966549 | 0.000855696 | 0.002 | 1 | 11044 | POLS |
| 0.537966549 | 0.000855696 | 0.002 | 1 | 57489 | ODF2L |
| 0.537709117 | 0.000861373 | 0.003 | 1 | 9466 | IL27RA |
| 0.537451744 | 0.000867085 | 0.001 | 1 | 3213 | HOXB3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.392998874 | < 0.001 | 344901 | OSTN |
| 0.392966151 | < 0.001 | 56683 | C21orf59 |
| 0.392915905 | < 0.001 | 7137 | TNNI3 |
| 0.392884135 | < 0.001 | 114960 | TSGA13 |
| 0.39284417 | < 0.001 | 8395 | PIP5K1B |
| 0.392788112 | < 0.001 | 114818 | KLHL29 |
| 0.392617285 | < 0.001 | 390113 | OR4X1 |
| 0.392587751 | < 0.001 | 85460 | ZNF518B |
| 0.392534792 | < 0.001 | 285315 | C3orf33 |
| 0.392510265 | < 0.001 | 11237 | RNF24 |
| 0.392397583 | < 0.001 | 89870 | TRIM15 |
| 0.392388046 | < 0.001 | 55757 | UGCGL2 |
| 0.392357647 | < 0.001 | 64805 | P2RY12 |
| 0.392172456 | < 0.001 | 286514 | MAGEB18 |
| 0.392121375 | < 0.001 | 57795 | FAM5B |
| 0.392052144 | < 0.001 | 7477 | WNT7B |
| 0.392019004 | < 0.001 | 997 | CDC34 |
| 0.391931862 | < 0.001 | 114548 | NLRP3 |
| 0.391822278 | < 0.001 | 444882 | IGFL4 |
| 0.391550392 | < 0.001 | 5802 | PTPRS |
| 0.39119193 | < 0.001 | 727803 | LOC727803 |
| 0.39116928 | < 0.001 | 60676 | PAPPA2 |
| 0.391083091 | < 0.001 | 5493 | PPL |
| 0.390897125 | < 0.001 | 11230 | PRAF2 |
| 0.390830398 | < 0.001 | 22881 | ANKRD6 |
| 0.390656054 | < 0.001 | 148 | ADRA1A |
| 0.390606105 | < 0.001 | 51382 | ATP6V1D |
| 0.390202165 | < 0.001 | 3355 | HTR1F |
| 0.39010182 | < 0.001 | 114928 | GPRASP2 |
| 0.390084326 | < 0.001 | 284417 | TMEM150B |
| 0.390074998 | < 0.001 | 9473 | C1orf38 |
| 0.390025079 | < 0.001 | 1600 | DAB1 |
| 0.389651805 | < 0.001 | 10007 | GNPDA1 |
| 0.389649808 | < 0.001 | 5787 | PTPRB |
| 0.389606476 | < 0.001 | 157697 | ERICH1 |
| 0.389593154 | < 0.001 | 5271 | SERPINB8 |
| 0.389406025 | < 0.001 | 10093 | ARPC4 |
| 0.389384568 | < 0.001 | 23414 | ZFPM2 |
| 0.38926962 | < 0.001 | 152579 | SCFD2 |
| 0.389232427 | < 0.001 | 138009 | DCAF4L2 |
| 0.389205992 | < 0.001 | 90362 | FAM110B |
| 0.38912493 | < 0.001 | 51282 | SCAND1 |
| 0.388945609 | < 0.001 | 7140 | TNNT3 |
| 0.388889611 | < 0.001 | 55545 | MSX2P1 |
| 0.38886857 | < 0.001 | 100288929 | LOC100288929 |
| 0.38885957 | < 0.001 | 138715 | ARID3C |
| 0.388848752 | < 0.001 | 26086 | GPSM1 |
| 0.388848037 | < 0.001 | 79173 | C19orf57 |
| 0.388596237 | < 0.001 | 9643 | MORF4L2 |
| 0.388580352 | < 0.001 | 84850 | GLIS3-AS1 |
| 0.388303667 | < 0.001 | 84918 | LRP11 |
| 0.388085186 | < 0.001 | 154215 | NKAIN2 |
| 0.388067663 | < 0.001 | 1525 | CXADR |
| 0.388006449 | < 0.001 | 3326 | HSP90AB1 |
| 0.387943536 | < 0.001 | 51276 | ZNF571 |
| 0.387789696 | < 0.001 | 1806 | DPYD |
| 0.387627989 | < 0.001 | 84259 | DCUN1D5 |
| 0.387452871 | < 0.001 | 3717 | JAK2 |
| 0.387228847 | < 0.001 | 79717 | PPCS |
| 0.386880308 | < 0.001 | 65260 | SELRC1 |
| 0.386696339 | < 0.001 | 7355 | SLC35A2 |
| 0.386690438 | < 0.001 | 2769 | GNA15 |
| 0.386665732 | < 0.001 | 26047 | CNTNAP2 |
| 0.386615127 | < 0.001 | 55088 | C10orf118 |
| 0.38656202 | < 0.001 | 219970 | GLYATL2 |
| 0.386414111 | < 0.001 | 4087 | SMAD2 |
| 0.386412859 | < 0.001 | 49855 | SCAPER |
| 0.386297911 | < 0.001 | 130497 | OSR1 |
| 0.386293441 | < 0.001 | 9766 | KIAA0247 |
| 0.386253804 | < 0.001 | 10857 | PGRMC1 |
| 0.386192739 | < 0.001 | 3755 | KCNG1 |
| 0.386178464 | < 0.001 | 10040 | TOM1L1 |
| 0.385990798 | < 0.001 | 83638 | C11orf68 |
| 0.385864228 | < 0.001 | 8511 | MMP23A |
| 0.385795772 | < 0.001 | 28988 | DBNL |
| 0.385759413 | < 0.001 | 112858 | TP53RK |
| 0.385628611 | < 0.001 | 26255 | PTTG3 |
| 0.385624111 | < 0.001 | 59345 | GNB4 |
| 0.385573328 | < 0.001 | 2103 | ESRRB |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.537451744 | 0.000867085 | 0.002 | 1 | 131450 | CD200R1 |
| 0.537194312 | 0.000872829 | 0.001 | 1 | 23167 | EFR3A |
| 0.537194312 | 0.000872829 | 0.003 | 1 | 645369 | AP005433.1 |
| 0.536936939 | 0.000878607 | 0.001 | 1 | 1139 | CHRNA7 |
| 0.536936939 | 0.000878607 | 0.001 | 1 | 339044 | PKD1P1 |
| 0.536679506 | 0.000884419 | 0.001 | 1 | 8480 | RAE1 |
| 0.536679506 | 0.000884419 | 0.001 | 1 | 10716 | TBR1 |
| 0.536679506 | 0.000884419 | 0.002 | 1 | 66005 | CHID1 |
| 0.536422133 | 0.000890267 | < 0.001 | < 0.001 | 57504 | MTA3 |
| 0.536422133 | 0.000890267 | 0.001 | 1 | 100288332 | NPIPA5 |
| 0.535907328 | 0.000902061 | 0.002 | 1 | 79173 | C19orf57 |
| 0.535907328 | 0.000902061 | 0.001 | 1 | 161829 | EXD1 |
| 0.535649955 | 0.000908009 | 0.004 | 1 | 284485 | C1orf230 |
| 0.535392523 | 0.000913997 | 0.001 | 1 | 115353 | LRRC42 |
| 0.53513509 | 0.000920014 | 0.003 | 1 | 374470 | C12orf42 |
| 0.534877777 | 0.000926068 | 0.001 | 1 | 29765 | TMOD4 |
| 0.534877777 | 0.000926068 | < 0.001 | < 0.001 | 51003 | MED31 |
| 0.534877777 | 0.000926068 | < 0.001 | < 0.001 | 55117 | SLC6A15 |
| 0.534877777 | 0.000926068 | 0.001 | 1 | 56907 | SPIRE1 |
| 0.534620345 | 0.000932157 | 0.004 | 1 | 25814 | ATXN10 |
| 0.534620345 | 0.000932157 | 0.002 | 1 | 116832 | RPL39L |
| 0.53410548 | 0.000944445 | 0.003 | 1 | 7201 | TRHR |
| 0.53410548 | 0.000944445 | 0.004 | 1 | 10633 | RASL10A |
| 0.533848166 | 0.000950641 | 0.004 | 1 | 3048 | HBG2 |
| 0.533848166 | 0.000950641 | 0.001 | 1 | 9474 | ATG5 |
| 0.533848166 | 0.000950641 | < 0.001 | < 0.001 | 10056 | FARSB |
| 0.533848166 | 0.000950641 | 0.004 | 1 | 55742 | PARVA |
| 0.533848166 | 0.000950641 | 0.001 | 1 | 79921 | TCEAL4 |
| 0.533848166 | 0.000950641 | 0.002 | 1 | 91156 | IGFN1 |
| 0.533075929 | 0.000969448 | < 0.001 | < 0.001 | 4014 | LOR |
| 0.533075929 | 0.000969448 | < 0.001 | < 0.001 | 9232 | PTTG1 |
| 0.532818556 | 0.000975789 | 0.002 | 1 | 923 | CD6 |
| 0.532818556 | 0.000975789 | < 0.001 | < 0.001 | 23141 | ANKLE2 |
| 0.532818556 | 0.000975789 | 0.004 | 1 | 90865 | IL33 |
| 0.532303751 | 0.000988583 | 0.001 | 1 | 80262 | C16orf70 |
| 0.532046318 | 0.000995035 | 0.001 | 1 | 5719 | PSMD13 |
| 0.532046318 | 0.000995035 | 0.001 | 1 | 374879 | ZNF699 |
| 0.531788945 | 0.001001528 | 0.003 | 1 | 7247 | TSN |
| 0.531788945 | 0.001001528 | 0.003 | 1 | 8739 | HRK |
| 0.531788945 | 0.001001528 | 0.002 | 1 | 51166 | AADAT |
| 0.531531513 | 0.001008054 | 0.003 | 1 | 6772 | STAT1 |
| 0.531531513 | 0.001008054 | 0.001 | 1 | 10868 | USP20 |
| 0.531531513 | 0.001008054 | 0.001 | 1 | 23349 | KIAA1045 |
| 0.531531513 | 0.001008054 | 0.001 | 1 | 55129 | ANO10 |
| 0.531531513 | 0.001008054 | 0.006 | 1 | 164832 | LONRF2 |
| 0.531531513 | 0.001008054 | < 0.001 | < 0.001 | 378925 | RNF148 |
| 0.53127414 | 0.001014617 | 0.002 | 1 | 3223 | HOXC6 |
| 0.531016707 | 0.001021222 | 0.003 | 1 | 23646 | PLD3 |
| 0.530759275 | 0.001027864 | < 0.001 | < 0.001 | 55720 | TSR1 |
| 0.530244529 | 0.00104126 | 0.002 | 1 | 162968 | ZNF497 |
| 0.529987097 | 0.001048016 | 0.002 | 1 | 51586 | MED15 |
| 0.529729724 | 0.001054814 | 0.002 | 1 | 55850 | USE1 |
| 0.529729724 | 0.001054814 | < 0.001 | < 0.001 | 59349 | KLHL12 |
| 0.529472351 | 0.001061648 | 0.003 | 1 | 59285 | CACNG6 |
| 0.529472351 | 0.001061648 | < 0.001 | < 0.001 | 283358 | B4GALNT3 |
| 0.529214919 | 0.001068519 | 0.003 | 1 | 79717 | PPCS |
| 0.528957486 | 0.001075433 | 0.004 | 1 | 11101 | ATE1 |
| 0.528957486 | 0.001075433 | 0.001 | 1 | 154807 | VKORC1L1 |
| 0.528957486 | 0.001075433 | 0.001 | 1 | 100507055 | LRCOL1 |
| 0.528700113 | 0.001082384 | 0.003 | 1 | 5050 | PAFAH1B3 |
| 0.528700113 | 0.001082384 | 0.002 | 1 | 80020 | FOXRED2 |
| 0.528700113 | 0.001082384 | 0.001 | 1 | 80777 | CYB5B |
| 0.528700113 | 0.001082384 | 0.002 | 1 | 157697 | ERICH1 |
| 0.52844274 | 0.00108938 | 0.004 | 1 | 1756 | DMD |
| 0.52844274 | 0.00108938 | 0.001 | 1 | 4884 | NPTX1 |
| 0.52844274 | 0.00108938 | < 0.001 | < 0.001 | 126328 | NDUFA11 |
| 0.528185308 | 0.00109641 | 0.005 | 1 | 374 | AREG |
| 0.528185308 | 0.00109641 | 0.002 | 1 | 1820 | ARID3A |
| 0.528185308 | 0.00109641 | 0.003 | 1 | 90050 | FAM181A |
| 0.527927935 | 0.001103482 | < 0.001 | < 0.001 | 57120 | GOPC |
| 0.527670503 | 0.001110595 | 0.002 | 1 | 58155 | PTBP2 |
| 0.527670503 | 0.001110595 | 0.002 | 1 | 116028 | C16orf75 |
| 0.52741313 | 0.001117751 | 0.003 | 1 | 7010 | TEK |
| 0.52741313 | 0.001117751 | 0.001 | 1 | 79654 | HECTD3 |
| 0.52741313 | 0.001117751 | 0.003 | 1 | 126792 | B3GALT6 |
| 0.52741313 | 0.001117751 | 0.001 | 1 | 170954 | KIAA1949 |
| 0.527155757 | 0.001124945 | 0.001 | 1 | 948 | CD36 |
| 0.527155757 | 0.001124945 | 0.001 | 1 | 4515 | MTCP1 |
| 0.527155757 | 0.001124945 | 0.002 | 1 | 9626 | GUCA1C |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.385464251 | < 0.001 | 3995 | FADS3 |
| 0.385454267 | < 0.001 | 80328 | ULBP2 |
| 0.385395795 | < 0.001 | 7345 | UCHL1 |
| 0.38518551 | < 0.001 | 9519 | TBPL1 |
| 0.385158986 | < 0.001 | 90480 | GADD45GIP1 |
| 0.384975851 | < 0.001 | 84153 | RNASEH2C |
| 0.384970754 | < 0.001 | 3356 | HTR2A |
| 0.38494119 | < 0.001 | 10626 | TRIM16 |
| 0.384901762 | < 0.001 | 387522 | TMEM189-UBE2V1 |
| 0.384776622 | < 0.001 | 57489 | ODF2L |
| 0.384771734 | < 0.001 | 2845 | GPR22 |
| 0.384644657 | < 0.001 | 400359 | C15orf53 |
| 0.384547979 | < 0.001 | 1429 | CRYZ |
| 0.384444118 | < 0.001 | 3763 | KCNJ6 |
| 0.384418398 | < 0.001 | 52 | ACP1 |
| 0.384336472 | < 0.001 | 200933 | FBXO45 |
| 0.384236038 | < 0.001 | 9829 | DNAJC6 |
| 0.38422364 | < 0.001 | 50614 | GALNT9 |
| 0.384146929 | < 0.001 | 65078 | RTN4R |
| 0.384061724 | < 0.001 | 401027 | C2orf66 |
| 0.383905023 | < 0.001 | 26127 | FGFR1OP2 |
| 0.383705676 | < 0.001 | 9645 | MICAL2 |
| 0.383660197 | < 0.001 | 112 | ADCY6 |
| 0.383660048 | < 0.001 | 93487 | MAPK1IP1L |
| 0.383604497 | < 0.001 | 255374 | MBLAC1 |
| 0.383502543 | < 0.001 | 56603 | CYP26B1 |
| 0.383495659 | < 0.001 | 57707 | KIAA1609 |
| 0.383454382 | < 0.001 | 26010 | SPATS2L |
| 0.383301735 | < 0.001 | 55720 | TSR1 |
| 0.383217037 | < 0.001 | 9735 | KNTC1 |
| 0.38321346 | < 0.001 | 128308 | MRPL55 |
| 0.383058935 | < 0.001 | 401577 | CD99P1 |
| 0.383015752 | < 0.001 | 23266 | LPHN2 |
| 0.382995248 | < 0.001 | 9442 | MED27 |
| 0.382813811 | < 0.001 | 1608 | DGKG |
| 0.382771581 | < 0.001 | 9532 | BAG2 |
| 0.382729352 | < 0.001 | 55964 | SEPTIN3 |
| 0.382602721 | < 0.001 | 79143 | LENG4 |
| 0.382546544 | < 0.001 | 129025 | ZNF280A |
| 0.382519662 | < 0.001 | 221833 | SP8 |
| 0.382205635 | < 0.001 | 64426 | SUDS3 |
| 0.382170528 | < 0.001 | 643226 | GRXCR2 |
| 0.382162452 | < 0.001 | 57863 | CADM3 |
| 0.382114202 | < 0.001 | 89885 | FATE1 |
| 0.382006109 | < 0.001 | 5563 | PRKAA2 |
| 0.381622851 | < 0.001 | 2173 | FABP7 |
| 0.381478906 | < 0.001 | 4312 | MMP1 |
| 0.381411016 | < 0.001 | 22884 | WDR37 |
| 0.381275207 | < 0.001 | 286002 | AC078937.4 |
| 0.381142348 | < 0.001 | 923 | CD6 |
| 0.380884081 | < 0.001 | 112849 | C14orf149 |
| 0.380837202 | < 0.001 | 149473 | CCDC24 |
| 0.38074702 | < 0.001 | 79815 | NIPAL2 |
| 0.380664945 | < 0.001 | 29841 | GRHL1 |
| 0.380482435 | < 0.001 | 6620 | SNCB |
| 0.380416691 | < 0.001 | 10505 | SEMA4F |
| 0.38014251 | < 0.001 | 374 | AREG |
| 0.379990458 | < 0.001 | 222658 | KCTD20 |
| 0.379968166 | < 0.001 | 283267 | LINC00294 |
| 0.37992534 | < 0.001 | 5340 | PLG |
| 0.379861236 | < 0.001 | 23053 | KIAA0913 |
| 0.379847705 | < 0.001 | 201475 | RAB12 |
| 0.379518628 | < 0.001 | 378925 | RNF148 |
| 0.379467189 | < 0.001 | 7410 | VAV2 |
| 0.37945202 | < 0.001 | 57579 | FAM135A |
| 0.379419774 | < 0.001 | 5700 | PSMC1 |
| 0.379129887 | < 0.001 | 3269 | HRH1 |
| 0.379123688 | < 0.001 | 3299 | HSF4 |
| 0.378982931 | < 0.001 | 124220 | ZG16B |
| 0.3787902 | < 0.001 | 10141 | C4orf6 |
| 0.378689855 | < 0.001 | 27098 | CLUL1 |
| 0.378579527 | < 0.001 | 90379 | DCAF15 |
| 0.378562987 | < 0.001 | 11001 | SLC27A2 |
| 0.37854746 | < 0.001 | 3925 | STMN1 |
| 0.378481746 | < 0.001 | 10687 | PNMA2 |
| 0.37837857 | < 0.001 | 5791 | PTPRE |
| 0.378084421 | < 0.001 | 389898 | UBE2NL |
| 0.377928555 | < 0.001 | 64895 | PAPOLG |
| 0.377924502 | < 0.001 | 253782 | LASS6 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.527155757 | 0.001124945 | < 0.001 | < 0.001 | 143384 | C10orf46 |
| 0.526640892 | 0.001139454 | 0.001 | 1 | 5987 | TRIM27 |
| 0.526640892 | 0.001139454 | < 0.001 | < 0.001 | 8310 | ACOX3 |
| 0.526383519 | 0.001146776 | 0.005 | 1 | 55879 | GABRQ |
| 0.525868714 | 0.001161535 | 0.001 | 1 | 1007 | CDH9 |
| 0.525868714 | 0.001161535 | 0.001 | 1 | 5880 | RAC2 |
| 0.525868714 | 0.001161535 | 0.002 | 1 | 10376 | TUBA1B |
| 0.525868714 | 0.001161535 | 0.001 | 1 | 221935 | SDK1 |
| 0.525611281 | 0.001168976 | 0.002 | 1 | 642778 | AC136443.1 |
| 0.525353968 | 0.001176461 | 0.002 | 1 | 4953 | ODC1 |
| 0.525353968 | 0.001176461 | 0.004 | 1 | 654433 | AC016683.6 |
| 0.525096536 | 0.001183991 | 0.003 | 1 | 7220 | TRPC1 |
| 0.525096536 | 0.001183991 | 0.003 | 1 | 26255 | PTTG3 |
| 0.524839103 | 0.001191561 | 0.004 | 1 | 23787 | MTCH1 |
| 0.52458173 | 0.001199174 | 0.005 | 1 | 5595 | MAPK3 |
| 0.52458173 | 0.001199174 | 0.002 | 1 | 6439 | SFTPB |
| 0.52458173 | 0.001199174 | 0.003 | 1 | 54862 | CC2D1A |
| 0.52458173 | 0.001199174 | 0.001 | 1 | 55206 | SBNO1 |
| 0.52458173 | 0.001199174 | 0.002 | 1 | 151242 | PPP1R1C |
| 0.524324298 | 0.001206829 | < 0.001 | < 0.001 | 55860 | ACTR10 |
| 0.524324298 | 0.001206829 | 0.002 | 1 | 117143 | TADA1L |
| 0.524066925 | 0.00121453 | 0.003 | 1 | 5932 | RBBP8 |
| 0.524066925 | 0.00121453 | 0.005 | 1 | 6565 | SLC15A2 |
| 0.524066925 | 0.00121453 | 0.001 | 1 | 51256 | TBC1D7 |
| 0.523809493 | 0.001222274 | 0.003 | 1 | 153364 | MBLAC2 |
| 0.523809493 | 0.001222274 | 0.001 | 1 | 401027 | C2orf66 |
| 0.52355212 | 0.001230058 | 0.002 | 1 | 9578 | AL117209.1 |
| 0.52355212 | 0.001230058 | 0.003 | 1 | 55816 | DOK5 |
| 0.52355212 | 0.001230058 | 0.003 | 1 | 126353 | C19orf21 |
| 0.523294687 | 0.00123789 | 0.002 | 1 | 80237 | ELL3 |
| 0.523037314 | 0.001245765 | 0.001 | 1 | 5985 | RFC5 |
| 0.523037314 | 0.001245765 | 0.001 | 1 | 23507 | LRRC8B |
| 0.522779942 | 0.001253683 | 0.002 | 1 | 51633 | OTUD6B |
| 0.522779942 | 0.001253683 | 0.002 | 1 | 283078 | MKX |
| 0.522522509 | 0.001261646 | 0.001 | 1 | 10248 | POP7 |
| 0.522265077 | 0.001269653 | 0.001 | 1 | 140606 | SELM |
| 0.522007763 | 0.001277705 | 0.003 | 1 | 10505 | SEMA4F |
| 0.522007763 | 0.001277705 | 0.004 | 1 | 54662 | TBC1D13 |
| 0.521492898 | 0.001293947 | 0.001 | 1 | 2786 | GNG4 |
| 0.521492898 | 0.001293947 | 0.003 | 1 | 4761 | NEUROD2 |
| 0.521492898 | 0.001293947 | 0.002 | 1 | 29108 | PYCARD |
| 0.521492898 | 0.001293947 | 0.002 | 1 | 56936 | C14orf162 |
| 0.521492898 | 0.001293947 | < 0.001 | < 0.001 | 79637 | ARMC7 |
| 0.521235466 | 0.001302138 | 0.007 | 1 | 711 | ERC2-IT1 |
| 0.521235466 | 0.001302138 | 0.001 | 1 | 84222 | TMEM191A |
| 0.520978153 | 0.00131037 | 0.002 | 1 | 100192379 | AC079341.1 |
| 0.520463288 | 0.00132698 | 0.002 | 1 | 3800 | KIF5C |
| 0.520463288 | 0.00132698 | 0.001 | 1 | 6709 | SPTAN1 |
| 0.520205915 | 0.001335353 | 0.003 | 1 | 10141 | C4orf6 |
| 0.520205915 | 0.001335353 | 0.002 | 1 | 56061 | UBFD1 |
| 0.519948542 | 0.001343772 | 0.001 | 1 | 3350 | HTR1A |
| 0.51969111 | 0.001352242 | 0.002 | 1 | 9659 | PDE4DIP |
| 0.519433737 | 0.001360756 | 0.001 | 1 | 7552 | ZNF711 |
| 0.519433737 | 0.001360756 | 0.001 | 1 | 8895 | CPNE3 |
| 0.519433737 | 0.001360756 | 0.001 | 1 | 9319 | TRIP13 |
| 0.519433737 | 0.001360756 | 0.003 | 1 | 9858 | KIAA0649 |
| 0.519433737 | 0.001360756 | 0.002 | 1 | 25977 | NECAP1 |
| 0.519176304 | 0.001369317 | 0.003 | 1 | 11128 | POLR3A |
| 0.519176304 | 0.001369317 | 0.004 | 1 | 55351 | STK32B |
| 0.519176304 | 0.001369317 | 0.001 | 1 | 84253 | GARNL3 |
| 0.518918931 | 0.001377923 | 0.003 | 1 | 11063 | SOX30 |
| 0.518918931 | 0.001377923 | 0.004 | 1 | 84277 | DNAJC30 |
| 0.518661499 | 0.001386582 | 0.001 | 1 | 8554 | PIAS1 |
| 0.518661499 | 0.001386582 | 0.002 | 1 | 28986 | MAGEH1 |
| 0.518661499 | 0.001386582 | < 0.001 | < 0.001 | 55812 | SPATA7 |
| 0.518404126 | 0.001395288 | 0.001 | 1 | 85460 | ZNF518B |
| 0.517889321 | 0.001412841 | < 0.001 | < 0.001 | 222658 | KCTD20 |
| 0.517889321 | 0.001412841 | 0.001 | 1 | 378884 | NHLRC1 |
| 0.517631948 | 0.001421691 | 0.001 | 1 | 4135 | MAP6 |
| 0.517631948 | 0.001421691 | 0.002 | 1 | 64420 | SUSD1 |
| 0.517631948 | 0.001421691 | 0.003 | 1 | 84536 | C21orf67 |
| 0.517117083 | 0.001439542 | < 0.001 | < 0.001 | 10955 | SERINC3 |
| 0.517117083 | 0.001439542 | 0.002 | 1 | 57150 | C6orf162 |
| 0.516859651 | 0.001448539 | 0.002 | 1 | 5834 | PYGB |
| 0.516859651 | 0.001448539 | 0.001 | 1 | 58491 | ZNF71 |
| 0.516859651 | 0.001448539 | 0.003 | 1 | 79980 | DSN1 |
| 0.516859651 | 0.001448539 | 0.002 | 1 | 317781 | DDX51 |
| 0.516602337 | 0.001457586 | 0.003 | 1 | 9071 | CLDN10 |
| 0.516344905 | 0.001466685 | 0.002 | 1 | 84058 | WDR54 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.377845615 | < 0.001 | 161882 | ZFPM1 |
| 0.377711326 | < 0.001 | 121273 | C12orf54 |
| 0.377683461 | < 0.001 | 7223 | TRPC4 |
| 0.377644509 | < 0.001 | 84639 | IL1F10 |
| 0.377624065 | < 0.001 | 56938 | ARNTL2 |
| 0.377154976 | < 0.001 | 29765 | TMOD4 |
| 0.377144694 | < 0.001 | 64393 | ZMAT3 |
| 0.376975 | < 0.001 | 2785 | GNG3 |
| 0.376918584 | < 0.001 | 387893 | SETD8 |
| 0.376888454 | < 0.001 | 4885 | NPTX2 |
| 0.376745999 | < 0.001 | 2516 | NR5A1 |
| 0.376700252 | < 0.001 | 79822 | ARHGAP28 |
| 0.376686454 | < 0.001 | 606551 | UBE2MP1 |
| 0.376552373 | < 0.001 | 55631 | LRRC40 |
| 0.375990838 | < 0.001 | 23075 | SWAP70 |
| 0.375989228 | < 0.001 | 134829 | CLVS2 |
| 0.375807285 | < 0.001 | 203447 | NRK |
| 0.375786155 | < 0.001 | 22820 | COPG |
| 0.375688195 | < 0.001 | 219621 | C10orf107 |
| 0.375677466 | < 0.001 | 202500 | TCTE1 |
| 0.375672579 | < 0.001 | 145581 | LRFN5 |
| 0.375492215 | < 0.001 | 54480 | CSGLCA-T |
| 0.375488758 | < 0.001 | 5889 | RAD51C |
| 0.375477523 | < 0.001 | 386672 | KRTAP10-4 |
| 0.375470757 | < 0.001 | 7026 | NR2F2 |
| 0.375450641 | < 0.001 | 283767 | AC116165.2 |
| 0.375362337 | < 0.001 | 8131 | C16orf35 |
| 0.375190169 | < 0.001 | 9698 | PUM1 |
| 0.374964446 | < 0.001 | 817 | CAMK2D |
| 0.374678135 | < 0.001 | 55176 | SEC61A2 |
| 0.37462762 | < 0.001 | 2590 | GALNT2 |
| 0.374441981 | < 0.001 | 57159 | TRIM54 |
| 0.374382257 | < 0.001 | 7552 | ZNF711 |
| 0.374337226 | < 0.001 | 79729 | C1orf113 |
| 0.374312192 | < 0.001 | 84966 | IGSF21 |
| 0.374253929 | < 0.001 | 5099 | PCDH7 |
| 0.374137551 | < 0.001 | 392288 | LOC392288 |
| 0.374012947 | < 0.001 | 1000 | CDH2 |
| 0.373919994 | < 0.001 | 4147 | MATN2 |
| 0.373917699 | < 0.001 | 7846 | TUBA1A |
| 0.373802304 | < 0.001 | 55219 | TMEM57 |
| 0.373788148 | < 0.001 | 728613 | LOC728613 |
| 0.373777151 | < 0.001 | 387890 | AC002563.2 |
| 0.373487741 | < 0.001 | 64788 | LMF1 |
| 0.373426199 | < 0.001 | 219870 | OR10G9 |
| 0.373261005 | < 0.001 | 80023 | NRSN2 |
| 0.373211563 | < 0.001 | 440799 | P2RX6P |
| 0.373078257 | < 0.001 | 2778 | GNAS |
| 0.372955203 | < 0.001 | 65263 | PYCRL |
| 0.372871011 | < 0.001 | 283316 | CD163L1 |
| 0.372869015 | < 0.001 | 486 | FXYD2 |
| 0.372822642 | < 0.001 | 9892 | SNAP91 |
| 0.372662246 | < 0.001 | 199920 | C1orf168 |
| 0.372514725 | < 0.001 | 10518 | CIB2 |
| 0.372490495 | < 0.001 | 93973 | ACTR8 |
| 0.37240535 | < 0.001 | 1284 | COL4A2 |
| 0.372295469 | < 0.001 | 63939 | C20orf177 |
| 0.372293442 | < 0.001 | 10044 | SH2D3C |
| 0.372265726 | < 0.001 | 84871 | AGBL4 |
| 0.372089118 | < 0.001 | 122970 | ACOT4 |
| 0.371972024 | < 0.001 | 647476 | FLJ20518 |
| 0.371951222 | < 0.001 | 91574 | C12orf65 |
| 0.371901691 | < 0.001 | 23326 | USP22 |
| 0.371889174 | < 0.001 | 474343 | SPIN2B |
| 0.371789694 | < 0.001 | 4878 | NPPA |
| 0.371626109 | < 0.001 | 2898 | GRIK2 |
| 0.37162444 | < 0.001 | 57679 | ALS2 |
| 0.371607482 | < 0.001 | 55003 | PAK1IP1 |
| 0.37149781 | < 0.001 | 220042 | C11orf82 |
| 0.371474922 | < 0.001 | 360200 | TMPRSS9 |
| 0.371439159 | < 0.001 | 11202 | KLK8 |
| 0.371393412 | < 0.001 | 23476 | BRD4 |
| 0.371374249 | < 0.001 | 3298 | HSF2 |
| 0.371294618 | < 0.001 | 340481 | ZDHHC21 |
| 0.371278584 | < 0.001 | 5985 | RFC5 |
| 0.371278256 | < 0.001 | 116988 | AGAP3 |
| 0.371269226 | < 0.001 | 23185 | LARP4B |
| 0.371222138 | < 0.001 | 10652 | YKT6 |
| 0.371143609 | < 0.001 | 55215 | FANCI |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.5158301 | 0.001485029 | < 0.001 | < 0.001 | 1572 | CYP2F1 |
| 0.5158301 | 0.001485029 | 0.003 | 1 | 5911 | RAP2A |
| 0.515572727 | 0.001494277 | 0.004 | 1 | 9167 | COX7A2L |
| 0.515572727 | 0.001494277 | 0.005 | 1 | 56171 | DNAH7 |
| 0.515315294 | 0.001503575 | 0.002 | 1 | 990 | CDC6 |
| 0.515315294 | 0.001503575 | 0.002 | 1 | 91408 | BTF3L4 |
| 0.515315294 | 0.001503575 | 0.003 | 1 | 114571 | SLC22A9 |
| 0.515315294 | 0.001503575 | 0.008 | 1 | 126374 | WTIP |
| 0.515315294 | 0.001503575 | 0.002 | 1 | 414918 | FAM116B |
| 0.515057921 | 0.001512929 | 0.002 | 1 | 55190 | NUDT11 |
| 0.515057921 | 0.001512929 | 0.001 | 1 | 344387 | CDKL4 |
| 0.514800489 | 0.00152233 | 0.004 | 1 | 157753 | TMEM74 |
| 0.514543116 | 0.001531783 | 0.005 | 1 | 57586 | SYT13 |
| 0.514285743 | 0.001541287 | 0.001 | 1 | 4094 | MAF |
| 0.514285743 | 0.001541287 | 0.003 | 1 | 51393 | TRPV2 |
| 0.514285743 | 0.001541287 | < 0.001 | < 0.001 | 54869 | EPS8L1 |
| 0.514285743 | 0.001541287 | 0.001 | 1 | 255374 | MBLAC1 |
| 0.514028311 | 0.001550848 | 0.001 | 1 | 54904 | WHSC1L1 |
| 0.514028311 | 0.001550848 | 0.003 | 1 | 148979 | GLIS1 |
| 0.513770878 | 0.001560454 | 0.003 | 1 | 149111 | CNIH3 |
| 0.513513505 | 0.001570116 | 0.006 | 1 | 199920 | C1orf168 |
| 0.513513505 | 0.001570116 | < 0.001 | < 0.001 | 728734 | LOC728734 |
| 0.513256133 | 0.00157983 | 0.005 | 1 | 8395 | PIP5K1B |
| 0.513256133 | 0.00157983 | < 0.001 | < 0.001 | 201595 | STT3B |
| 0.5129987 | 0.001589601 | 0.003 | 1 | 4087 | SMAD2 |
| 0.5129987 | 0.001589601 | 0.003 | 1 | 10817 | FRS3 |
| 0.5129987 | 0.001589601 | 0.001 | 1 | 23075 | SWAP70 |
| 0.5129987 | 0.001589601 | 0.003 | 1 | 90780 | PYGO2 |
| 0.5129987 | 0.001589601 | 0.003 | 1 | 317772 | HIST2H2AB |
| 0.512741327 | 0.001599421 | 0.003 | 1 | 3845 | KRAS |
| 0.512741327 | 0.001599421 | 0.001 | 1 | 26276 | VPS33B |
| 0.512741327 | 0.001599421 | 0.001 | 1 | 128854 | TSPY26P |
| 0.512741327 | 0.001599421 | 0.003 | 1 | 286002 | AC078937.4 |
| 0.512483895 | 0.001609295 | 0.005 | 1 | 921 | CD5 |
| 0.512226522 | 0.001619223 | 0.001 | 1 | 892 | CCNC |
| 0.512226522 | 0.001619223 | 0.002 | 1 | 5717 | PSMD11 |
| 0.51196909 | 0.001629204 | 0.003 | 1 | 8511 | MMP23A |
| 0.51196909 | 0.001629204 | 0.005 | 1 | 23171 | GPD1L |
| 0.511711717 | 0.001639244 | 0.001 | 1 | 493 | ATP2B4 |
| 0.511711717 | 0.001639244 | 0.001 | 1 | 2994 | GYPB |
| 0.511711717 | 0.001639244 | 0.008 | 1 | 5612 | PRKRIR |
| 0.511711717 | 0.001639244 | 0.004 | 1 | 6585 | SLIT1 |
| 0.511711717 | 0.001639244 | 0.002 | 1 | 55532 | SLC30A10 |
| 0.511454284 | 0.001649335 | 0.002 | 1 | 3843 | IPO5 |
| 0.511454284 | 0.001649335 | 0.001 | 1 | 387715 | ARMS2 |
| 0.511196911 | 0.001659477 | 0.004 | 1 | 4046 | LSP1 |
| 0.511196911 | 0.001659477 | 0.004 | 1 | 80350 | LPAL2 |
| 0.511196911 | 0.001659477 | < 0.001 | < 0.001 | 440917 | LOC440917 |
| 0.510939479 | 0.001669677 | 0.001 | 1 | 4082 | MARCKS |
| 0.510939479 | 0.001669677 | 0.002 | 1 | 5273 | SERPINB10 |
| 0.510939479 | 0.001669677 | 0.003 | 1 | 10313 | RTN3 |
| 0.510939479 | 0.001669677 | 0.003 | 1 | 51606 | ATP6V1H |
| 0.510682106 | 0.001679937 | 0.001 | 1 | 5700 | PSMC1 |
| 0.510682106 | 0.001679937 | 0.009 | 1 | 6307 | SC4MOL |
| 0.510424674 | 0.001690248 | 0.004 | 1 | 113828 | FAM83F |
| 0.510424674 | 0.001690248 | < 0.001 | < 0.001 | 344901 | OSTN |
| 0.510167301 | 0.001700615 | 0.003 | 1 | 1193 | CLIC2 |
| 0.510167301 | 0.001700615 | 0.003 | 1 | 58525 | WIZ |
| 0.510167301 | 0.001700615 | 0.001 | 1 | 84954 | MPND |
| 0.509909928 | 0.001711038 | 0.002 | 1 | 58475 | MS4A7 |
| 0.509909928 | 0.001711038 | 0.003 | 1 | 80731 | THSD7B |
| 0.509909928 | 0.001711038 | 0.002 | 1 | 81929 | SEH1L |
| 0.509909928 | 0.001711038 | 0.001 | 1 | 90525 | SHF |
| 0.509652495 | 0.001721516 | 0.005 | 1 | 1453 | CSNK1D |
| 0.509652495 | 0.001721516 | 0.001 | 1 | 192683 | SCAMP5 |
| 0.509652495 | 0.001721516 | 0.001 | 1 | 196743 | PAOX |
| 0.509395123 | 0.001732056 | 0.002 | 1 | 6248 | RSC1A1 |
| 0.509395123 | 0.001732056 | 0.004 | 1 | 201283 | AMZ2P1 |
| 0.50913769 | 0.001742649 | 0.005 | 1 | 222553 | SLC35F1 |
| 0.508880317 | 0.001753296 | 0.003 | 1 | 27304 | MOCS3 |
| 0.508880317 | 0.001753296 | 0.009 | 1 | 56852 | RAD18 |
| 0.508622885 | 0.001764002 | 0.003 | 1 | 7738 | ZNF184 |
| 0.508622885 | 0.001764002 | 0.001 | 1 | 51329 | ARL6IP4 |
| 0.508365512 | 0.001774771 | 0.003 | 1 | 10019 | SH2B3 |
| 0.508365512 | 0.001774771 | 0.003 | 1 | 63827 | BCAN |
| 0.508365512 | 0.001774771 | 0.006 | 1 | 91442 | C19orf40 |
| 0.508365512 | 0.001774771 | 0.005 | 1 | 503693 | LOH12CR2 |
| 0.508365512 | 0.001774771 | 0.006 | 1 | 100126784 | LOC100126784 |
| 0.508108079 | 0.001785594 | 0.001 | 1 | 5274 | SERPINI1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.371057063 | < 0.001 | 255061 | TAC4 |
| 0.371052504 | < 0.001 | 647288 | CTAGE11P |
| 0.370954126 | < 0.001 | 23670 | TMEM2 |
| 0.370952636 | < 0.001 | 80000 | KIAA1772 |
| 0.37089932 | < 0.001 | 8988 | HSPB3 |
| 0.370890051 | < 0.001 | 460 | ASTN1 |
| 0.370859295 | < 0.001 | 8900 | CCNA1 |
| 0.370812863 | < 0.001 | 54492 | NEURL1B |
| 0.370792776 | < 0.001 | 145957 | NRG4 |
| 0.37068221 | < 0.001 | 84222 | TMEM191A |
| 0.370440096 | < 0.001 | 56852 | RAD18 |
| 0.370377272 | < 0.001 | 79921 | TCEAL4 |
| 0.370338172 | < 0.001 | 7337 | UBE3A |
| 0.370288312 | < 0.001 | 286887 | KRT6C |
| 0.370208025 | < 0.001 | 83539 | CHST9 |
| 0.370062143 | < 0.001 | 729515 | TMEM242 |
| 0.370018274 | < 0.001 | 100126784 | LOC100126784 |
| 0.369915783 | < 0.001 | 7504 | XK |
| 0.369744718 | < 0.001 | 200523 | C2orf51 |
| 0.369717479 | < 0.001 | 23162 | MAPK8IP3 |
| 0.369709909 | < 0.001 | 5601 | MAPK9 |
| 0.369627655 | < 0.001 | 91137 | SLC25A46 |
| 0.369617313 | < 0.001 | 112611 | RWDD2A |
| 0.369596362 | < 0.001 | 778 | CACNA1F |
| 0.369392335 | < 0.001 | 81573 | ANKRD13C |
| 0.369248271 | < 0.001 | 357 | SHROOM2 |
| 0.369221002 | < 0.001 | 7306 | TYRP1 |
| 0.369220912 | < 0.001 | 196743 | PAOX |
| 0.369063139 | < 0.001 | 63876 | PKNOX2 |
| 0.368998319 | < 0.001 | 65094 | JMJD4 |
| 0.368981183 | < 0.001 | 554206 | LOC554206 |
| 0.368939638 | < 0.001 | 256536 | TCERG1L |
| 0.368836761 | < 0.001 | 285848 | PNPLA1 |
| 0.36881119 | < 0.001 | 26985 | AP3M1 |
| 0.368801802 | < 0.001 | 338322 | NLRP10 |
| 0.368685454 | < 0.001 | 7529 | YWHAB |
| 0.36862132 | < 0.001 | 151477 | LINC00471 |
| 0.368510991 | < 0.001 | 64218 | SEMA4A |
| 0.36846754 | < 0.001 | 338667 | LOC338667 |
| 0.368438065 | < 0.001 | 392617 | PPP1R28 |
| 0.368313372 | < 0.001 | 7411 | VBP1 |
| 0.368162662 | < 0.001 | 4014 | LOR |
| 0.368066639 | < 0.001 | 166752 | FREM3 |
| 0.368060142 | < 0.001 | 642273 | FAM110C |
| 0.367987424 | < 0.001 | 56654 | NPDC1 |
| 0.367862284 | < 0.001 | 25977 | NECAP1 |
| 0.367772311 | < 0.001 | 245806 | VGLL2 |
| 0.367772162 | < 0.001 | 8239 | USP9X |
| 0.367647916 | < 0.001 | 57134 | MAN1C1 |
| 0.367568552 | < 0.001 | 9551 | ATP5J2 |
| 0.367383331 | < 0.001 | 201229 | C17orf108 |
| 0.367370784 | < 0.001 | 4074 | M6PR |
| 0.367350817 | < 0.001 | 396 | ARHGDIA |
| 0.367274016 | < 0.001 | 340267 | COL28A1 |
| 0.367269933 | < 0.001 | 6515 | SLC2A3 |
| 0.367209762 | < 0.001 | 23172 | FAM175B |
| 0.367111236 | < 0.001 | 23439 | ATP1B4 |
| 0.367074192 | < 0.001 | 27253 | PCDH17 |
| 0.366977781 | < 0.001 | 55071 | C9orf40 |
| 0.366969049 | < 0.001 | 246243 | RNASEH1 |
| 0.36690563 | < 0.001 | 84253 | GARNL3 |
| 0.366868466 | < 0.001 | 85369 | FAM40A |
| 0.366821498 | < 0.001 | 729141 | LOC729141 |
| 0.366773844 | < 0.001 | 5274 | SERPINI1 |
| 0.366627157 | < 0.001 | 55670 | PEX26 |
| 0.366549492 | < 0.001 | 10612 | TRIM3 |
| 0.366537422 | < 0.001 | 9466 | IL27RA |
| 0.366483748 | < 0.001 | 2626 | GATA4 |
| 0.366369426 | < 0.001 | 112597 | LINC00152 |
| 0.366354644 | < 0.001 | 57210 | SLC45A4 |
| 0.366351396 | < 0.001 | 9666 | DZIP3 |
| 0.366181701 | < 0.001 | 395 | ARHGAP6 |
| 0.366076529 | < 0.001 | 388387 | AC100793.3 |
| 0.366052151 | < 0.001 | 199964 | TMEM61 |
| 0.366011828 | < 0.001 | 5786 | PTPRA |
| 0.366011411 | < 0.001 | 80777 | CYB5B |
| 0.365963876 | < 0.001 | 151987 | PPP4R2 |
| 0.365962803 | < 0.001 | 10523 | CHERP |
| 0.365836054 | < 0.001 | 6721 | SREBF2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.508108079 | 0.001785594 | 0.004 | 1 | 30818 | KCNIP3 |
| 0.507850707 | 0.001796474 | 0.003 | 1 | 4725 | NDUFS5 |
| 0.507850707 | 0.001796474 | 0.004 | 1 | 29986 | SLC39A2 |
| 0.507593274 | 0.001807413 | 0.001 | 1 | 11165 | NUDT3 |
| 0.507593274 | 0.001807413 | 0.004 | 1 | 84618 | NT5C1A |
| 0.507078469 | 0.001829471 | 0.005 | 1 | 434 | ASIP |
| 0.507078469 | 0.001829471 | 0.003 | 1 | 2580 | GAK |
| 0.507078469 | 0.001829471 | 0.001 | 1 | 7037 | TFRC |
| 0.507078469 | 0.001829471 | 0.005 | 1 | 54555 | DDX49 |
| 0.507078469 | 0.001829471 | 0.005 | 1 | 84629 | TNRC18B |
| 0.506821096 | 0.001840584 | < 0.001 | < 0.001 | 7432 | VIP |
| 0.506821096 | 0.001840584 | 0.001 | 1 | 201191 | SAMD14 |
| 0.506563663 | 0.001851759 | 0.005 | 1 | 7277 | TUBA4A |
| 0.506563663 | 0.001851759 | 0.002 | 1 | 65244 | SPATS2 |
| 0.506306291 | 0.001862994 | 0.004 | 1 | 185 | AGTR1 |
| 0.506306291 | 0.001862994 | 0.006 | 1 | 55973 | BCAP29 |
| 0.506306291 | 0.001862994 | 0.005 | 1 | 84259 | DCUN1D5 |
| 0.506048918 | 0.001874294 | 0.004 | 1 | 7140 | TNNT3 |
| 0.505791485 | 0.001885648 | 0.006 | 1 | 11261 | AC012652.1 |
| 0.505791485 | 0.001885648 | 0.002 | 1 | 83259 | PCDH11Y |
| 0.505791485 | 0.001885648 | 0.002 | 1 | 343450 | KCNT2 |
| 0.505791485 | 0.001885648 | 0.003 | 1 | 440224 | CXADRP3 |
| 0.505534112 | 0.001897064 | 0.003 | 1 | 967 | CD63 |
| 0.505534112 | 0.001897064 | < 0.001 | < 0.001 | 22826 | DNAJC8 |
| 0.505534112 | 0.001897064 | 0.003 | 1 | 84285 | EIF1AD |
| 0.505534112 | 0.001897064 | 0.001 | 1 | 347516 | DGAT2L6 |
| 0.504761934 | 0.001931679 | 0.003 | 1 | 23476 | BRD4 |
| 0.504761934 | 0.001931679 | 0.003 | 1 | 84934 | C12orf52 |
| 0.504761934 | 0.001931679 | 0.004 | 1 | 90379 | DCAF15 |
| 0.504504502 | 0.001943343 | 0.004 | 1 | 3326 | HSP90AB1 |
| 0.504504502 | 0.001943343 | 0.003 | 1 | 137970 | UNC5D |
| 0.504247129 | 0.001955062 | 0.003 | 1 | 10497 | UNC13B |
| 0.504247129 | 0.001955062 | 0.006 | 1 | 81873 | ARPC5L |
| 0.504247129 | 0.001955062 | 0.006 | 1 | 199964 | TMEM61 |
| 0.504247129 | 0.001955062 | 0.001 | 1 | 221656 | AOF1 |
| 0.503732324 | 0.001978699 | 0.004 | 1 | 357 | SHROOM2 |
| 0.503732324 | 0.001978699 | 0.002 | 1 | 3904 | LAIR2 |
| 0.503732324 | 0.001978699 | 0.004 | 1 | 56603 | CYP26B1 |
| 0.503732324 | 0.001978699 | 0.006 | 1 | 57728 | WDR19 |
| 0.503474891 | 0.00199061 | 0.001 | 1 | 528 | ATP6V1C1 |
| 0.503474891 | 0.00199061 | 0.005 | 1 | 5905 | RANGAP1 |
| 0.503474891 | 0.00199061 | 0.003 | 1 | 84324 | SARNP |
| 0.503474891 | 0.00199061 | 0.002 | 1 | 150538 | AC017096.1 |
| 0.503217459 | 0.002002583 | 0.002 | 1 | 23026 | MYO16 |
| 0.503217459 | 0.002002583 | 0.003 | 1 | 79000 | C1orf135 |
| 0.503217459 | 0.002002583 | 0.004 | 1 | 140576 | S100A16 |
| 0.502960086 | 0.002014619 | 0.002 | 1 | 8897 | MTMR3 |
| 0.502960086 | 0.002014619 | 0.006 | 1 | 11127 | KIF3A |
| 0.502960086 | 0.002014619 | 0.004 | 1 | 51496 | CTDSPL2 |
| 0.502702653 | 0.002026725 | 0.007 | 1 | 7071 | KLF10 |
| 0.502702653 | 0.002026725 | 0.004 | 1 | 403340 | MGC70870 |
| 0.502702653 | 0.002026725 | 0.002 | 1 | 444882 | IGFL4 |
| 0.502445281 | 0.002038889 | 0.009 | 1 | 128308 | MRPL55 |
| 0.502187908 | 0.002051114 | 0.007 | 1 | 2175 | FANCA |
| 0.502187908 | 0.002051114 | 0.004 | 1 | 55207 | ARL8B |
| 0.502187908 | 0.002051114 | 0.002 | 1 | 55909 | BIN3 |
| 0.501930475 | 0.00206341 | 0.006 | 1 | 64283 | AC093283.3 |
| 0.501930475 | 0.00206341 | 0.005 | 1 | 84717 | AC011498.3 |
| 0.501673102 | 0.00207577 | 0.003 | 1 | 22881 | ANKRD6 |
| 0.501673102 | 0.00207577 | 0.003 | 1 | 84134 | TOMM40L |
| 0.501673102 | 0.00207577 | 0.005 | 1 | 145407 | C14orf37 |
| 0.50141567 | 0.002088192 | 0.006 | 1 | 3082 | HGF |
| 0.50141567 | 0.002088192 | 0.001 | 1 | 5619 | PRM1 |
| 0.50141567 | 0.002088192 | 0.003 | 1 | 8815 | BANF1 |
| 0.50141567 | 0.002088192 | 0.003 | 1 | 223117 | SEMA3D |
| 0.501158297 | 0.002100681 | 0.004 | 1 | 8237 | USP11 |
| 0.501158297 | 0.002100681 | 0.002 | 1 | 9830 | TRIM14 |
| 0.501158297 | 0.002100681 | 0.002 | 1 | 10786 | SLC17A3 |
| 0.500900924 | 0.002113234 | 0.003 | 1 | 8425 | LTBP4 |
| 0.500900924 | 0.002113234 | 0.003 | 1 | 10921 | RNPS1 |
| 0.500900924 | 0.002113234 | 0.006 | 1 | 29890 | RBM15B |
| 0.500900924 | 0.002113234 | 0.004 | 1 | 63908 | NAPB |
| 0.500900924 | 0.002113234 | 0.002 | 1 | 81501 | TM7SF4 |
| 0.500900924 | 0.002113234 | 0.008 | 1 | 255758 | TCTEX1D2 |
| 0.500900924 | 0.002113234 | 0.003 | 1 | 283267 | LINC00294 |
| 0.500643492 | 0.002125859 | 0.004 | 1 | 9500 | MAGED1 |
| 0.500643492 | 0.002125859 | 0.004 | 1 | 79720 | VPS37B |
| 0.500643492 | 0.002125859 | 0.001 | 1 | 285761 | DCBLD1 |
| 0.500386119 | 0.002138545 | 0.001 | 1 | 23705 | CADM1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.365827173 | < 0.001 | 170690 | ADAMTS16 |
| 0.365781397 | < 0.001 | 203547 | VMA21 |
| 0.365487933 | < 0.001 | 171483 | FAM9B |
| 0.365351051 | < 0.001 | 51725 | FBXO40 |
| 0.365243524 | < 0.001 | 66036 | MTMR9 |
| 0.36521399 | < 0.001 | 225689 | MAPK15 |
| 0.36505577 | < 0.001 | 55142 | HAUS2 |
| 0.36501807 | < 0.001 | 810 | CALML3 |
| 0.36500439 | < 0.001 | 117154 | DACH2 |
| 0.364991158 | < 0.001 | 7781 | SLC30A3 |
| 0.364977807 | < 0.001 | 2517 | FUCA1 |
| 0.364965737 | < 0.001 | 400673 | VMAC |
| 0.364952475 | < 0.001 | 9128 | PRPF4 |
| 0.364940107 | < 0.001 | 2776 | GNAQ |
| 0.364704341 | < 0.001 | 5877 | RABIF |
| 0.364665359 | < 0.001 | 665 | BNIP3L |
| 0.364429623 | < 0.001 | 57662 | KIAA1543 |
| 0.364345729 | < 0.001 | 3487 | IGFBP4 |
| 0.364320427 | < 0.001 | 256158 | HMCN2 |
| 0.364305019 | < 0.001 | 4760 | NEUROD1 |
| 0.364298493 | < 0.001 | 6654 | SOS1 |
| 0.364287913 | < 0.001 | 23646 | PLD3 |
| 0.364278734 | < 0.001 | 8840 | WISP1 |
| 0.364272863 | < 0.001 | 339448 | C1orf174 |
| 0.364270568 | < 0.001 | 55116 | TMEM39B |
| 0.364261687 | < 0.001 | 3559 | IL2RA |
| 0.364231318 | < 0.001 | 54908 | CCDC99 |
| 0.364195287 | < 0.001 | 55207 | ARL8B |
| 0.364186227 | < 0.001 | 84830 | C6orf105 |
| 0.364163578 | < 0.001 | 100144602 | RP11-807H7.1 |
| 0.36404711 | < 0.001 | 26245 | OR2M4 |
| 0.363993853 | < 0.001 | 374739 | TEPP |
| 0.363980204 | < 0.001 | 143187 | VTI1A |
| 0.363909036 | < 0.001 | 55346 | TCP11L1 |
| 0.363736063 | < 0.001 | 728392 | LOC728392 |
| 0.363620549 | < 0.001 | 55039 | TRMT12 |
| 0.36352995 | < 0.001 | 10558 | SPTLC1 |
| 0.363495588 | < 0.001 | 11329 | STK38 |
| 0.363378167 | < 0.001 | 55840 | EAF2 |
| 0.363272905 | < 0.001 | 81577 | GFOD2 |
| 0.363202721 | < 0.001 | 4301 | MLLT4 |
| 0.363189489 | < 0.001 | 4674 | NAP1L2 |
| 0.363121003 | < 0.001 | 51380 | CSAD |
| 0.363031626 | < 0.001 | 83719 | YPEL3 |
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| 0.361985713 | < 0.001 | 84811 | BUD13 |
| 0.361959308 | < 0.001 | 100288346 | AP000880.1 |
| 0.361777484 | < 0.001 | 10444 | ZER1 |
| 0.36174503 | < 0.001 | 150572 | SMYD1 |
| 0.361744404 | < 0.001 | 57559 | STAMBPL1 |
| 0.36167267 | < 0.001 | 886 | CCKAR |
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| 0.361431926 | < 0.001 | 8832 | CD84 |
| 0.361422479 | < 0.001 | 64897 | C12orf43 |
| 0.361418307 | < 0.001 | 1555 | CYP2B7P1 |
| 0.361357868 | < 0.001 | 140885 | SIRPA |
| 0.361280739 | < 0.001 | 51633 | OTUD6B |
| 0.361231714 | < 0.001 | 9055 | PRC1 |
| 0.361071318 | < 0.001 | 2275 | FHL3 |
| 0.361062229 | < 0.001 | 57761 | TRIB3 |
| 0.360980779 | < 0.001 | 154754 | PRSS23P2 |
| 0.360902995 | < 0.001 | 5602 | MAPK10 |
| 0.360896766 | < 0.001 | 5218 | PFTK1 |
| 0.360798389 | < 0.001 | 1453 | CSNK1D |
| 0.360646456 | < 0.001 | 57646 | USP28 |
| 0.360617578 | < 0.001 | 266655 | LINC00094 |
| 0.360577166 | < 0.001 | 27239 | GPR162 |
| 0.36053884 | < 0.001 | 3595 | IL12RB2 |
| 0.360385984 | < 0.001 | 152098 | ZCWPW2 |
| 0.360257119 | < 0.001 | 1621 | DBH |
| 0.360197216 | < 0.001 | 80313 | LRRC27 |
| 0.360064238 | < 0.001 | 131540 | ZDHHC19 |
| 0.359994531 | < 0.001 | 26511 | CHIC2 |
| 0.359966248 | < 0.001 | 100126793 | GHRLOS |
| 0.359852552 | < 0.001 | 440101 | RP11-834C11.3 |
| 0.3598167 | < 0.001 | 8541 | PPFIA3 |
| 0.359705538 | < 0.001 | 285126 | DNAJC5G |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.500386119 | 0.002138545 | 0.002 | 1 | 29953 | TRHDE |
| 0.500386119 | 0.002138545 | 0.003 | 1 | 92552 | ATXN3L |
| 0.500128686 | 0.002151295 | 0.002 | 1 | 3838 | KPNA2 |
| 0.500128686 | 0.002151295 | 0.005 | 1 | 55219 | TMEM57 |
| 0.500128686 | 0.002151295 | 0.002 | 1 | 56954 | NIT2 |
| 0.500128686 | 0.002151295 | 0.002 | 1 | 83658 | DYNLRB1 |
| 0.500128686 | 0.002151295 | 0.002 | 1 | 146059 | CDAN1 |
| 0.499871314 | 0.002164117 | 0.002 | 1 | 799 | CALCR |
| 0.499871314 | 0.002164117 | 0.003 | 1 | 5172 | SLC26A4 |
| 0.499871314 | 0.002164117 | 0.006 | 1 | 650655 | ABCA17P |
| 0.499613881 | 0.002177 | 0.003 | 1 | 3355 | HTR1F |
| 0.499613881 | 0.002177 | 0.002 | 1 | 27328 | PCDH11X |
| 0.499356508 | 0.002189963 | 0.001 | 1 | 10631 | POSTN |
| 0.499356508 | 0.002189963 | 0.004 | 1 | 23552 | CCRK |
| 0.499356508 | 0.002189963 | 0.002 | 1 | 26290 | GALNT8 |
| 0.499356508 | 0.002189963 | 0.005 | 1 | 114548 | NLRP3 |
| 0.499356508 | 0.002189963 | 0.002 | 1 | 643834 | PGA3 |
| 0.499099076 | 0.002202981 | 0.003 | 1 | 23600 | AMACR |
| 0.498841703 | 0.002216071 | 0.004 | 1 | 7341 | SUMO1 |
| 0.498841703 | 0.002216071 | 0.01 | 1 | 8445 | DYRK2 |
| 0.498841703 | 0.002216071 | 0.001 | 1 | 54434 | SSH1 |
| 0.498841703 | 0.002216071 | 0.003 | 1 | 55852 | TEX2 |
| 0.498841703 | 0.002216071 | 0.003 | 1 | 81566 | CSRNP2 |
| 0.498841703 | 0.002216071 | 0.005 | 1 | 728613 | LOC728613 |
| 0.4985843 | 0.002229229 | 0.002 | 1 | 5025 | P2RX4 |
| 0.4985843 | 0.002229229 | 0.005 | 1 | 51134 | CCDC41 |
| 0.4985843 | 0.002229229 | 0.004 | 1 | 221002 | RASGEF1A |
| 0.498069495 | 0.002255757 | 0.007 | 1 | 7374 | UNG |
| 0.498069495 | 0.002255757 | 0.002 | 1 | 8394 | PIP5K1A |
| 0.497812092 | 0.002269122 | 0.005 | 1 | 5883 | RAD9A |
| 0.497812092 | 0.002269122 | < 0.001 | < 0.001 | 57152 | SLURP1 |
| 0.497812092 | 0.002269122 | 0.005 | 1 | 246243 | RNASEH1 |
| 0.49755469 | 0.002282553 | 0.004 | 1 | 383 | ARG1 |
| 0.49755469 | 0.002282553 | 0.003 | 1 | 51335 | NGRN |
| 0.497297317 | 0.002296066 | 0.006 | 1 | 8220 | DGCR14 |
| 0.497297317 | 0.002296066 | 0.001 | 1 | 10556 | RPP30 |
| 0.497297317 | 0.002296066 | 0.002 | 1 | 442213 | C6orf138 |
| 0.497039884 | 0.002309637 | 0.006 | 1 | 25924 | MYRIP |
| 0.497039884 | 0.002309637 | 0.002 | 1 | 80328 | ULBP2 |
| 0.496782511 | 0.002323285 | 0.004 | 1 | 2767 | GNA11 |
| 0.496782511 | 0.002323285 | 0.001 | 1 | 57469 | PNMAL2 |
| 0.496782511 | 0.002323285 | 0.005 | 1 | 64699 | TMPRSS3 |
| 0.496782511 | 0.002323285 | 0.004 | 1 | 441666 | LOC441666 |
| 0.496525079 | 0.002336998 | 0.007 | 1 | 11344 | TWF2 |
| 0.496525079 | 0.002336998 | 0.001 | 1 | 79084 | WDR77 |
| 0.496525079 | 0.002336998 | 0.006 | 1 | 79183 | TTPAL |
| 0.496525079 | 0.002336998 | 0.006 | 1 | 649330 | LOC649330 |
| 0.496267676 | 0.002350784 | 0.006 | 1 | 6616 | SNAP25 |
| 0.496267676 | 0.002350784 | 0.005 | 1 | 113220 | KIF12 |
| 0.496267676 | 0.002350784 | 0.002 | 1 | 137362 | GOT1L1 |
| 0.496267676 | 0.002350784 | 0.006 | 1 | 647288 | CTAGE11P |
| 0.496010303 | 0.002364649 | 0.007 | 1 | 5983 | RFC3 |
| 0.496010303 | 0.002364649 | 0.011 | 1 | 6885 | MAP3K7 |
| 0.496010303 | 0.002364649 | 0.003 | 1 | 8805 | TRIM24 |
| 0.495752871 | 0.002378579 | 0.006 | 1 | 9917 | FAM20B |
| 0.495752871 | 0.002378579 | 0.003 | 1 | 55621 | TRMT1 |
| 0.495752871 | 0.002378579 | 0.002 | 1 | 347168 | OR1J1 |
| 0.495495498 | 0.002392581 | 0.007 | 1 | 5563 | PRKAA2 |
| 0.495495498 | 0.002392581 | 0.006 | 1 | 10189 | THOC4 |
| 0.495495498 | 0.002392581 | 0.003 | 1 | 55079 | FEZF2 |
| 0.495495498 | 0.002392581 | 0.004 | 1 | 284486 | THEM5 |
| 0.495238066 | 0.002406655 | 0.004 | 1 | 3606 | IL18 |
| 0.495238066 | 0.002406655 | 0.003 | 1 | 4620 | MYH2 |
| 0.494980693 | 0.002420804 | 0.003 | 1 | 4201 | MEA1 |
| 0.494980693 | 0.002420804 | 0.005 | 1 | 6532 | SLC6A4 |
| 0.494980693 | 0.002420804 | 0.002 | 1 | 63876 | PKNOX2 |
| 0.49472329 | 0.002435028 | 0.002 | 1 | 84984 | C3orf34 |
| 0.49472329 | 0.002435028 | 0.004 | 1 | 122970 | ACOT4 |
| 0.494465888 | 0.002449318 | 0.003 | 1 | 4882 | NPR2 |
| 0.494465888 | 0.002449318 | 0.004 | 1 | 8891 | EIF2B3 |
| 0.494465888 | 0.002449318 | 0.007 | 1 | 54762 | GRAMD1C |
| 0.494465888 | 0.002449318 | 0.003 | 1 | 123264 | AC013553.1 |
| 0.494208485 | 0.002463688 | 0.001 | 1 | 9570 | GOSR2 |
| 0.494208485 | 0.002463688 | 0.005 | 1 | 10974 | C10orf116 |
| 0.493951082 | 0.002478132 | 0.006 | 1 | 23514 | KIAA0146 |
| 0.493951082 | 0.002478132 | 0.007 | 1 | 79705 | LRRK1 |
| 0.49369368 | 0.002492647 | 0.003 | 1 | 51744 | CD244 |
| 0.49369368 | 0.002492647 | 0.006 | 1 | 56666 | PANX2 |
| 0.493436307 | 0.002507237 | 0.006 | 1 | 8925 | HERC1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.359603018 | < 0.001 | 57706 | DENND1A |
| 0.359588385 | < 0.001 | 345462 | ZNF879 |
| 0.359557778 | < 0.001 | 3889 | KRT83 |
| 0.359525055 | < 0.001 | 26091 | HERC4 |
| 0.359396189 | < 0.001 | 100287114 | LINC00421 |
| 0.359395921 | < 0.001 | 84698 | CAPS2 |
| 0.359357715 | < 0.001 | 150 | ADRA2A |
| 0.359292239 | < 0.001 | 9468 | PCYT1B |
| 0.359223902 | < 0.001 | 10360 | NPM3 |
| 0.359015375 | < 0.001 | 401565 | FAM166A |
| 0.358933359 | < 0.001 | 7738 | ZNF184 |
| 0.35889864 | < 0.001 | 22920 | KIFAP3 |
| 0.358786762 | < 0.001 | 149345 | SHISA4 |
| 0.358781189 | < 0.001 | 30818 | KCNIP3 |
| 0.358636826 | < 0.001 | 7042 | TGFB2 |
| 0.358590037 | < 0.001 | 23515 | MORC3 |
| 0.358487934 | < 0.001 | 153743 | PPP1R2P3 |
| 0.358486712 | < 0.001 | 26998 | FETUB |
| 0.3584342 | < 0.001 | 9100 | USP10 |
| 0.358402431 | < 0.001 | 203523 | ZNF449 |
| 0.358291745 | < 0.001 | 645369 | AP005433.1 |
| 0.358236969 | < 0.001 | 29797 | POM121L8P |
| 0.358219594 | < 0.001 | 84626 | KRBA1 |
| 0.358203709 | < 0.001 | 5902 | RANBP1 |
| 0.358186543 | < 0.001 | 133957 | CCDC127 |
| 0.358093768 | < 0.001 | 7432 | VIP |
| 0.358065814 | < 0.001 | 9577 | BRE |
| 0.358029485 | < 0.001 | 145773 | FAM81A |
| 0.357974797 | < 0.001 | 6500 | SKP1 |
| 0.357910395 | < 0.001 | 55335 | NIPSNAP3B |
| 0.35786885 | < 0.001 | 79969 | C6orf134 |
| 0.357687145 | < 0.001 | 245940 | AC144830.1 |
| 0.357653052 | < 0.001 | 7291 | TWIST1 |
| 0.35756883 | < 0.001 | 8785 | MATN4 |
| 0.357486844 | < 0.001 | 171484 | FAM9C |
| 0.357424766 | < 0.001 | 439915 | KRTAP5-5 |
| 0.357273012 | < 0.001 | 128854 | TSPY26P |
| 0.357184708 | < 0.001 | 79837 | PIP4K2C |
| 0.357139379 | < 0.001 | 260425 | MAGI3 |
| 0.357112944 | < 0.001 | 414918 | FAM116B |
| 0.357054323 | < 0.001 | 80335 | WDR82 |
| 0.357031941 | < 0.001 | 377677 | CA13 |
| 0.357020736 | < 0.001 | 4094 | MAF |
| 0.356942087 | < 0.001 | 51669 | TMEM66 |
| 0.356758147 | < 0.001 | 84629 | TNRC18B |
| 0.356723338 | < 0.001 | 27319 | BHLHE22 |
| 0.356569558 | < 0.001 | 51523 | CXXC5 |
| 0.356311649 | < 0.001 | 23171 | GPD1L |
| 0.356239676 | < 0.001 | 552 | AVPR1A |
| 0.356023252 | < 0.001 | 54622 | ARL15 |
| 0.356014222 | < 0.001 | 124583 | CANT1 |
| 0.356006414 | < 0.001 | 11334 | TUSC2 |
| 0.355887413 | < 0.001 | 644054 | FAM25C |
| 0.35584873 | < 0.001 | 94160 | ABCC12 |
| 0.355842739 | < 0.001 | 123263 | MTFMT |
| 0.355825692 | < 0.001 | 84343 | HPS3 |
| 0.355816603 | < 0.001 | 2021 | ENDOG |
| 0.355781108 | < 0.001 | 3241 | HPCAL1 |
| 0.35570997 | < 0.001 | 51560 | RAB6B |
| 0.355487764 | < 0.001 | 132864 | CPEB2 |
| 0.355485559 | < 0.001 | 91283 | MSANTD3 |
| 0.35544762 | < 0.001 | 3790 | KCNS3 |
| 0.355377018 | < 0.001 | 3679 | ITGA7 |
| 0.355369717 | < 0.001 | 51379 | CRLF3 |
| 0.355249822 | < 0.001 | 6051 | RNPEP |
| 0.355194718 | < 0.001 | 2848 | GPR25 |
| 0.355079979 | < 0.001 | 65018 | PINK1 |
| 0.355075657 | < 0.001 | 121278 | TPH2 |
| 0.355037063 | < 0.001 | 100192379 | AC079341.1 |
| 0.354982316 | < 0.001 | 118672 | PSTK |
| 0.354931712 | < 0.001 | 7447 | VSNL1 |
| 0.354903162 | < 0.001 | 126321 | C19orf28 |
| 0.354880184 | < 0.001 | 23321 | TRIM2 |
| 0.354853749 | < 0.001 | 83658 | DYNLRB1 |
| 0.354814231 | < 0.001 | 5737 | PTGFR |
| 0.35452956 | < 0.001 | 8396 | PIP5K2B |
| 0.354470044 | < 0.001 | 55214 | LEPREL1 |
| 0.354370356 | < 0.001 | 221895 | JAZF1 |
| 0.354278177 | < 0.001 | 83989 | FAM172A |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.493178874 | 0.002521902 | 0.009 | 1 | 7134 | TNNC1 |
| 0.493178874 | 0.002521902 | 0.005 | 1 | 10229 | COQ7 |
| 0.492921501 | 0.002536641 | 0.001 | 1 | 11329 | STK38 |
| 0.492921501 | 0.002536641 | 0.002 | 1 | 29989 | OBP2B |
| 0.492664069 | 0.002551463 | 0.002 | 1 | 26002 | MOXD1 |
| 0.492664069 | 0.002551463 | 0.005 | 1 | 340508 | RP11-520B13.4 |
| 0.492406696 | 0.002566352 | 0.005 | 1 | 3460 | IFNGR2 |
| 0.492406696 | 0.002566352 | 0.002 | 1 | 9076 | CLDN1 |
| 0.492406696 | 0.002566352 | 0.004 | 1 | 283848 | CES8 |
| 0.492149293 | 0.002581322 | 0.004 | 1 | 5924 | RASGRF2 |
| 0.492149293 | 0.002581322 | 0.003 | 1 | 10076 | PTPRU |
| 0.492149293 | 0.002581322 | 0.001 | 1 | 149473 | CCDC24 |
| 0.491891891 | 0.002596363 | 0.007 | 1 | 2790 | GNG10 |
| 0.491891891 | 0.002596363 | 0.003 | 1 | 6526 | SLC5A3 |
| 0.491891891 | 0.002596363 | 0.005 | 1 | 8446 | DUSP11 |
| 0.491891891 | 0.002596363 | 0.004 | 1 | 10673 | TNFSF13B |
| 0.491634488 | 0.002611494 | 0.003 | 1 | 51535 | PPHLN1 |
| 0.491634488 | 0.002611494 | 0.004 | 1 | 57559 | STAMBPL1 |
| 0.491377085 | 0.002626689 | 0.004 | 1 | 129080 | EMID1 |
| 0.491119683 | 0.002641965 | 0.005 | 1 | 285313 | IGSF10 |
| 0.49086231 | 0.002657318 | 0.002 | 1 | 1562 | CYP2C18 |
| 0.49086231 | 0.002657318 | 0.003 | 1 | 9201 | DCLK1 |
| 0.49086231 | 0.002657318 | 0.004 | 1 | 9223 | MAGI1 |
| 0.49086231 | 0.002657318 | 0.001 | 1 | 80063 | ATF7IP2 |
| 0.490604877 | 0.002672757 | 0.004 | 1 | 4809 | NHP2L1 |
| 0.490604877 | 0.002672757 | 0.004 | 1 | 6750 | SST |
| 0.490604877 | 0.002672757 | 0.003 | 1 | 55911 | AC138894.3 |
| 0.490604877 | 0.002672757 | 0.003 | 1 | 120400 | FAM55A |
| 0.490604877 | 0.002672757 | 0.006 | 1 | 100129361 | LOC100129361 |
| 0.490347505 | 0.002688267 | 0.003 | 1 | 2744 | GLS |
| 0.490347505 | 0.002688267 | 0.005 | 1 | 4923 | NTSR1 |
| 0.490347505 | 0.002688267 | 0.007 | 1 | 10124 | ARL4A |
| 0.490347505 | 0.002688267 | 0.007 | 1 | 10526 | IPO8 |
| 0.490347505 | 0.002688267 | 0.003 | 1 | 541471 | AC068491.1 |
| 0.490090072 | 0.002703857 | 0.003 | 1 | 25992 | SNED1 |
| 0.490090072 | 0.002703857 | 0.005 | 1 | 51400 | PPME1 |
| 0.490090072 | 0.002703857 | 0.002 | 1 | 54033 | RBM11 |
| 0.489832699 | 0.002719522 | 0.004 | 1 | 1746 | DLX2 |
| 0.489832699 | 0.002719522 | 0.003 | 1 | 7477 | WNT7B |
| 0.489575297 | 0.00273527 | 0.006 | 1 | 4133 | MAP2 |
| 0.489575297 | 0.00273527 | 0.005 | 1 | 10533 | ATG7 |
| 0.489575297 | 0.00273527 | 0.006 | 1 | 387522 | TMEM189-UBE2V1 |
| 0.489317864 | 0.002751105 | 0.008 | 1 | 9791 | PTDSS1 |
| 0.489317864 | 0.002751105 | 0.006 | 1 | 51278 | IER5 |
| 0.489317864 | 0.002751105 | 0.007 | 1 | 54386 | TERF2IP |
| 0.489060491 | 0.002767013 | 0.003 | 1 | 624 | BDKRB2 |
| 0.489060491 | 0.002767013 | 0.005 | 1 | 51380 | CSAD |
| 0.489060491 | 0.002767013 | 0.004 | 1 | 116349 | C5orf55 |
| 0.488803059 | 0.002783002 | 0.003 | 1 | 23708 | GSPT2 |
| 0.488803059 | 0.002783002 | 0.007 | 1 | 399726 | C10orf114 |
| 0.488545686 | 0.002799073 | 0.005 | 1 | 80818 | ZNF436 |
| 0.488288254 | 0.002815231 | 0.005 | 1 | 40 | ACCN1 |
| 0.488288254 | 0.002815231 | 0.004 | 1 | 398 | ARHGDIG |
| 0.488030881 | 0.002831464 | 0.006 | 1 | 1212 | CLTB |
| 0.488030881 | 0.002831464 | 0.002 | 1 | 54065 | C21orf51 |
| 0.488030881 | 0.002831464 | 0.008 | 1 | 170679 | PSORS1C1 |
| 0.488030881 | 0.002831464 | < 0.001 | < 0.001 | 728392 | LOC728392 |
| 0.487773478 | 0.002847779 | 0.004 | 1 | 2222 | FDFT1 |
| 0.487773478 | 0.002847779 | 0.005 | 1 | 23670 | TMEM2 |
| 0.487516075 | 0.002864176 | 0.007 | 1 | 3269 | HRH1 |
| 0.487516075 | 0.002864176 | 0.003 | 1 | 11188 | NISCH |
| 0.487516075 | 0.002864176 | 0.002 | 1 | 127018 | LYPLAL1 |
| 0.487516075 | 0.002864176 | 0.006 | 1 | 100132247 | NPIPL3 |
| 0.487258673 | 0.002880652 | 0.001 | 1 | 51095 | TRNT1 |
| 0.4870013 | 0.002897226 | 0.009 | 1 | 284021 | MILR1 |
| 0.4870013 | 0.002897226 | 0.002 | 1 | 285016 | FAM150B |
| 0.486743867 | 0.002913869 | 0.004 | 1 | 261726 | TIPRL |
| 0.486486495 | 0.002930598 | 0.005 | 1 | 3008 | HIST1H1E |
| 0.486486495 | 0.002930598 | 0.004 | 1 | 25873 | RPL36 |
| 0.486486495 | 0.002930598 | 0.007 | 1 | 25897 | RNF19A |
| 0.486486495 | 0.002930598 | 0.005 | 1 | 55290 | BRF2 |
| 0.486486495 | 0.002930598 | 0.004 | 1 | 56979 | PRDM9 |
| 0.486486495 | 0.002930598 | 0.005 | 1 | 79414 | LRFN3 |
| 0.486486495 | 0.002930598 | 0.006 | 1 | 84457 | PHYHIP |
| 0.486486495 | 0.002930598 | 0.005 | 1 | 200523 | C2orf51 |
| 0.486229062 | 0.002947413 | 0.003 | 1 | 4878 | NPPA |
| 0.485971689 | 0.002964319 | 0.005 | 1 | 22887 | FOXJ3 |
| 0.485971689 | 0.002964319 | 0.003 | 1 | 23177 | CEP68 |
| 0.485714257 | 0.002981302 | 0.008 | 1 | 8667 | EIF3H |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.354073137 | < 0.001 | 948 | CD36 |
| 0.354055434 | < 0.001 | 8717 | TRADD |
| 0.353947759 | < 0.001 | 3742 | KCNA6 |
| 0.353899479 | < 0.001 | 222962 | SLC29A4 |
| 0.353884369 | < 0.001 | 255252 | LRRC57 |
| 0.353850901 | < 0.001 | 6647 | SOD1 |
| 0.353776544 | < 0.001 | 146223 | CMTM4 |
| 0.353756398 | < 0.001 | 220388 | CCDC89 |
| 0.353645235 | < 0.001 | 7474 | WNT5A |
| 0.353638411 | < 0.001 | 84525 | HOPX |
| 0.353580743 | < 0.001 | 7066 | THPO |
| 0.353577048 | < 0.001 | 192111 | PGAM5 |
| 0.353554606 | < 0.001 | 84722 | PSRC1 |
| 0.353548884 | < 0.001 | 56940 | DUSP22 |
| 0.353489012 | < 0.001 | 254778 | C8orf46 |
| 0.353407174 | < 0.001 | 2157 | F8 |
| 0.353297561 | < 0.001 | 79656 | BEND5 |
| 0.353226244 | < 0.001 | 27101 | CACYBP |
| 0.353202939 | < 0.001 | 63974 | NEUROD6 |
| 0.353200823 | < 0.001 | 1282 | COL4A1 |
| 0.353117168 | < 0.001 | 22983 | MAST1 |
| 0.353019744 | < 0.001 | 23780 | APOL2 |
| 0.352961242 | < 0.001 | 55617 | TASP1 |
| 0.352868974 | < 0.001 | 6278 | S100A7 |
| 0.352773547 | < 0.001 | 2529 | FUT7 |
| 0.352754146 | < 0.001 | 7089 | TLE2 |
| 0.352524042 | < 0.001 | 2029 | ENSA |
| 0.352486312 | < 0.001 | 118788 | PIK3AP1 |
| 0.352283001 | < 0.001 | 25789 | TMEM59L |
| 0.352235585 | < 0.001 | 22903 | BTBD3 |
| 0.352223098 | < 0.001 | 8364 | HIST1H4C |
| 0.352055877 | < 0.001 | 27294 | DHDH |
| 0.352006525 | < 0.001 | 57628 | DPP10 |
| 0.351784438 | < 0.001 | 150771 | ITPRIPL1 |
| 0.35152173 | < 0.001 | 11069 | RAPGEF4 |
| 0.351466894 | < 0.001 | 388762 | OR2M1P |
| 0.351384938 | < 0.001 | 9208 | LRRFIP1 |
| 0.351332039 | < 0.001 | 84894 | LINGO1 |
| 0.351320565 | < 0.001 | 135935 | NOBOX |
| 0.351298749 | < 0.001 | 3927 | LASP1 |
| 0.351286352 | < 0.001 | 79148 | MMP28 |
| 0.351239145 | < 0.001 | 996 | CDC27 |
| 0.35121271 | < 0.001 | 100268168 | AC008429.1 |
| 0.350864619 | < 0.001 | 9615 | GDA |
| 0.350687683 | < 0.001 | 339804 | C2orf74 |
| 0.350597531 | < 0.001 | 23314 | SATB2 |
| 0.350561023 | < 0.001 | 84225 | ZMYND15 |
| 0.350548178 | < 0.001 | 30811 | HUNK |
| 0.350467592 | < 0.001 | 5833 | PCYT2 |
| 0.350396782 | < 0.001 | 646936 | LOC646936 |
| 0.350216806 | < 0.001 | 4216 | MAP3K4 |
| 0.349876702 | < 0.001 | 54522 | ANKRD16 |
| 0.34986499 | < 0.001 | 967 | CD63 |
| 0.349698484 | < 0.001 | 51761 | ATP8A2 |
| 0.349667013 | < 0.001 | 387715 | ARMS2 |
| 0.349587381 | < 0.001 | 3845 | KRAS |
| 0.349572092 | < 0.001 | 57583 | TMEM181 |
| 0.349536896 | < 0.001 | 23504 | RIMBP2 |
| 0.34942022 | < 0.001 | 1416 | CRYBB2P1 |
| 0.349411845 | < 0.001 | 126170 | LOC126170 |
| 0.349213451 | < 0.001 | 51097 | SCCPDH |
| 0.349176943 | < 0.001 | 164633 | CABP7 |
| 0.349174172 | < 0.001 | 56849 | TCEAL7 |
| 0.348822981 | < 0.001 | 55197 | RPRD1A |
| 0.348658293 | < 0.001 | 29979 | UBQLN1 |
| 0.348535717 | < 0.001 | 6611 | SMS |
| 0.348475218 | < 0.001 | 8437 | RASAL1 |
| 0.348280936 | < 0.001 | 79084 | WDR77 |
| 0.348118007 | < 0.001 | 149708 | WFDC5 |
| 0.348080218 | < 0.001 | 64963 | MRPS11 |
| 0.348017991 | < 0.001 | 8480 | RAE1 |
| 0.347866982 | < 0.001 | 91522 | COL23A1 |
| 0.347828895 | < 0.001 | 5905 | RANGAP1 |
| 0.347651631 | < 0.001 | 9570 | GOSR2 |
| 0.347514898 | < 0.001 | 54904 | WHSC1L1 |
| 0.347511768 | < 0.001 | 64207 | C14orf4 |
| 0.347498864 | < 0.001 | 4218 | RAB8A |
| 0.347485304 | < 0.001 | 339240 | LOC339240 |
| 0.347393364 | < 0.001 | 1414 | CRYBB1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.485714257 | 0.002981302 | 0.011 | 1 | 26526 | TSPAN16 |
| 0.485714257 | 0.002981302 | 0.004 | 1 | 51263 | MRPL30 |
| 0.485456884 | 0.002998371 | 0.008 | 1 | 6456 | SH3GL2 |
| 0.485456884 | 0.002998371 | 0.004 | 1 | 25822 | DNAJB5 |
| 0.485456884 | 0.002998371 | 0.012 | 1 | 55885 | LMO3 |
| 0.485456884 | 0.002998371 | 0.006 | 1 | 56943 | ENY2 |
| 0.485456884 | 0.002998371 | 0.004 | 1 | 349136 | WDR86 |
| 0.485199481 | 0.003015525 | 0.005 | 1 | 4624 | MYH6 |
| 0.485199481 | 0.003015525 | 0.004 | 1 | 10554 | AGPAT1 |
| 0.484942079 | 0.003032772 | 0.004 | 1 | 375 | ARF1 |
| 0.484942079 | 0.003032772 | 0.004 | 1 | 170302 | ARX |
| 0.484684676 | 0.003050095 | 0.006 | 1 | 5527 | PPP2R5C |
| 0.484684676 | 0.003050095 | 0.009 | 1 | 26985 | AP3M1 |
| 0.484427303 | 0.003067508 | 0.004 | 1 | 5743 | PTGS2 |
| 0.484427303 | 0.003067508 | 0.004 | 1 | 143282 | FGFBP3 |
| 0.484169871 | 0.003085007 | 0.004 | 1 | 6118 | RPA2 |
| 0.484169871 | 0.003085007 | 0.005 | 1 | 10728 | PTGES3 |
| 0.483912498 | 0.003102595 | 0.006 | 1 | 5471 | PPAT |
| 0.483655065 | 0.003120278 | 0.008 | 1 | 203 | AK1 |
| 0.483655065 | 0.003120278 | 0.011 | 1 | 23047 | PDS5B |
| 0.483397692 | 0.003138041 | 0.004 | 1 | 220042 | C11orf82 |
| 0.48314026 | 0.003155892 | 0.004 | 1 | 2785 | GNG3 |
| 0.48314026 | 0.003155892 | 0.003 | 1 | 4905 | NSF |
| 0.48314026 | 0.003155892 | 0.01 | 1 | 55884 | WSB2 |
| 0.48314026 | 0.003155892 | 0.008 | 1 | 84622 | ZNF594 |
| 0.482882887 | 0.003173829 | 0.007 | 1 | 55153 | SDAD1 |
| 0.482882887 | 0.003173829 | 0.005 | 1 | 56475 | RPRM |
| 0.482882887 | 0.003173829 | 0.008 | 1 | 201229 | C17orf108 |
| 0.482882887 | 0.003173829 | 0.005 | 1 | 100130386 | LINC00552 |
| 0.482368052 | 0.003209985 | 0.002 | 1 | 9821 | RB1CC1 |
| 0.482110679 | 0.003228194 | 0.004 | 1 | 5999 | RGS4 |
| 0.482110679 | 0.003228194 | 0.011 | 1 | 6515 | SLC2A3 |
| 0.482110679 | 0.003228194 | 0.006 | 1 | 63947 | DMRTC1B |
| 0.481853247 | 0.003246494 | 0.004 | 1 | 112 | ADCY6 |
| 0.481853247 | 0.003246494 | 0.005 | 1 | 27290 | SPINK4 |
| 0.481853247 | 0.003246494 | 0.003 | 1 | 57706 | DENND1A |
| 0.481853247 | 0.003246494 | 0.004 | 1 | 57709 | SLC7A14 |
| 0.481853247 | 0.003246494 | 0.005 | 1 | 83661 | MS4A8B |
| 0.481853247 | 0.003246494 | 0.005 | 1 | 266655 | LINC00094 |
| 0.481595874 | 0.003264892 | 0.004 | 1 | 55132 | LARP1B |
| 0.481595874 | 0.003264892 | 0.009 | 1 | 55681 | SCYL2 |
| 0.481338471 | 0.003283373 | 0.004 | 1 | 162239 | ZFP1 |
| 0.481338471 | 0.003283373 | 0.008 | 1 | 100133211 | LOC100133211 |
| 0.481081069 | 0.003301946 | 0.006 | 1 | 8514 | KCNAB2 |
| 0.481081069 | 0.003301946 | 0.011 | 1 | 11334 | TUSC2 |
| 0.481081069 | 0.003301946 | 0.007 | 1 | 79018 | C17orf39 |
| 0.481081069 | 0.003301946 | 0.007 | 1 | 84993 | UBL7 |
| 0.480823666 | 0.00332061 | 0.005 | 1 | 26468 | LHX6 |
| 0.480566263 | 0.003339367 | 0.001 | 1 | 1740 | DLG2 |
| 0.480566263 | 0.003339367 | 0.006 | 1 | 81577 | GFOD2 |
| 0.480308861 | 0.003358224 | 0.006 | 1 | 4908 | NTF3 |
| 0.480308861 | 0.003358224 | 0.002 | 1 | 84664 | CSPG4P2Y |
| 0.480051488 | 0.003377167 | 0.003 | 1 | 4901 | NRL |
| 0.480051488 | 0.003377167 | 0.007 | 1 | 23199 | KIAA0182 |
| 0.480051488 | 0.003377167 | 0.01 | 1 | 84790 | TUBA1C |
| 0.480051488 | 0.003377167 | 0.006 | 1 | 727803 | LOC727803 |
| 0.479794055 | 0.003396197 | 0.004 | 1 | 6881 | TAF10 |
| 0.479536682 | 0.003415327 | 0.002 | 1 | 8706 | B3GALNT1 |
| 0.479536682 | 0.003415327 | 0.009 | 1 | 55022 | PID1 |
| 0.479536682 | 0.003415327 | 0.011 | 1 | 148066 | ZNRF4 |
| 0.479021877 | 0.003453877 | 0.009 | 1 | 55026 | FAM70A |
| 0.478764474 | 0.00347329 | 0.01 | 1 | 6812 | STXBP1 |
| 0.478764474 | 0.00347329 | 0.007 | 1 | 140461 | ASB8 |
| 0.478507072 | 0.003492798 | 0.008 | 1 | 6399 | TRAPPC2 |
| 0.478507072 | 0.003492798 | 0.004 | 1 | 80206 | FHOD3 |
| 0.478249669 | 0.003512411 | 0.001 | 1 | 3094 | HINT1 |
| 0.477992266 | 0.003532111 | 0.006 | 1 | 8434 | RECK |
| 0.477992266 | 0.003532111 | 0.003 | 1 | 23299 | BICD2 |
| 0.477992266 | 0.003532111 | 0.005 | 1 | 56158 | TEX12 |
| 0.477992266 | 0.003532111 | 0.004 | 1 | 64757 | MOSC1 |
| 0.477992266 | 0.003532111 | 0.007 | 1 | 91137 | SLC25A46 |
| 0.477734864 | 0.003551905 | 0.009 | 1 | 2209 | FCGR1A |
| 0.477734864 | 0.003551905 | 0.007 | 1 | 23253 | ANKRD12 |
| 0.477734864 | 0.003551905 | 0.004 | 1 | 84301 | DDI2 |
| 0.477734864 | 0.003551905 | 0.007 | 1 | 90410 | IFT20 |
| 0.477734864 | 0.003551905 | 0.007 | 1 | 134430 | WDR36 |
| 0.477477491 | 0.003571798 | 0.006 | 1 | 2566 | GABRG2 |
| 0.477477491 | 0.003571798 | 0.005 | 1 | 2746 | GLUD1 |
| 0.477477491 | 0.003571798 | 0.009 | 1 | 30811 | HUNK |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.347336501 | < 0.001 | 55312 | RFK |
| 0.347074836 | < 0.001 | 54754 | FAM22F |
| 0.347032756 | < 0.001 | 23204 | ARL6IP1 |
| 0.346922338 | < 0.001 | 2853 | GPR31 |
| 0.346920252 | < 0.001 | 8764 | TNFRSF14 |
| 0.346821547 | < 0.001 | 134526 | ACOT12 |
| 0.346725851 | < 0.001 | 3909 | LAMA3 |
| 0.346655637 | < 0.001 | 51649 | MRPS23 |
| 0.34651643 | < 0.001 | 7325 | UBE2E2 |
| 0.346512705 | < 0.001 | 4897 | NRCAM |
| 0.346465826 | < 0.001 | 9819 | TSC22D2 |
| 0.346370548 | < 0.001 | 95681 | TSGA14 |
| 0.346341997 | < 0.001 | 8581 | LY6D |
| 0.34616968 | < 0.001 | 55351 | STK32B |
| 0.346053183 | < 0.001 | 8811 | GALR2 |
| 0.346013665 | < 0.001 | 174 | AFP |
| 0.345997512 | < 0.001 | 50512 | PODXL2 |
| 0.345915467 | < 0.001 | 7247 | TSN |
| 0.34572053 | < 0.001 | 6947 | TCN1 |
| 0.34568733 | < 0.001 | 10924 | SMPDL3A |
| 0.345684022 | < 0.001 | 4718 | NDUFC2 |
| 0.345523596 | < 0.001 | 158326 | FREM1 |
| 0.345517755 | < 0.001 | 6804 | STX1A |
| 0.345457196 | < 0.001 | 26281 | FGF20 |
| 0.345410854 | < 0.001 | 6305 | SBF1 |
| 0.345278442 | < 0.001 | 283638 | KIAA0284 |
| 0.345263392 | < 0.001 | 56943 | ENY2 |
| 0.345235527 | < 0.001 | 92335 | STRADA |
| 0.345226765 | < 0.001 | 339287 | MSL1 |
| 0.34518519 | < 0.001 | 286077 | FAM83H |
| 0.345141739 | < 0.001 | 23616 | SH3BP1 |
| 0.344922662 | < 0.001 | 79570 | NKAIN1 |
| 0.344900459 | < 0.001 | 6439 | SFTPB |
| 0.344826937 | < 0.001 | 324 | APC |
| 0.344801754 | < 0.001 | 51622 | C7orf28A |
| 0.3447043 | < 0.001 | 56977 | STOX2 |
| 0.344632 | < 0.001 | 3633 | INPP5B |
| 0.344626069 | < 0.001 | 3242 | HPD |
| 0.344602525 | < 0.001 | 57221 | KIAA1244 |
| 0.344586641 | < 0.001 | 403340 | MGC70870 |
| 0.344565213 | < 0.001 | 4929 | NR4A2 |
| 0.344309181 | < 0.001 | 11165 | NUDT3 |
| 0.344264716 | < 0.001 | 29953 | TRHDE |
| 0.344254583 | < 0.001 | 441728 | GOLGA6B |
| 0.344250262 | < 0.001 | 9502 | XAGE2B |
| 0.344173044 | < 0.001 | 2224 | FDPS |
| 0.344136924 | < 0.001 | 56981 | PRDM11 |
| 0.344042122 | < 0.001 | 3301 | DNAJA1 |
| 0.343883485 | < 0.001 | 51451 | LCMT1 |
| 0.343832552 | < 0.001 | 201140 | DHRS7C |
| 0.343818307 | < 0.001 | 55738 | ARFGAP1 |
| 0.343784124 | < 0.001 | 5644 | PRSS1 |
| 0.343721777 | < 0.001 | 51586 | MED15 |
| 0.343676955 | < 0.001 | 27160 | INGX |
| 0.343639433 | < 0.001 | 23094 | SIPA1L3 |
| 0.343572825 | < 0.001 | 122876 | GPHB5 |
| 0.343446374 | < 0.001 | 27087 | B3GAT1 |
| 0.343396008 | < 0.001 | 117143 | TADA1L |
| 0.343315959 | < 0.001 | 55669 | MFN1 |
| 0.343315482 | < 0.001 | 55789 | DEPDC1B |
| 0.343252838 | < 0.001 | 10211 | FLOT1 |
| 0.342998564 | < 0.001 | 6999 | TDO2 |
| 0.342889547 | < 0.001 | 2870 | GRK6 |
| 0.34279874 | < 0.001 | 128408 | BHLHE23 |
| 0.342542738 | < 0.001 | 2965 | GTF2H1 |
| 0.34245196 | < 0.001 | 7077 | TIMP2 |
| 0.34240678 | < 0.001 | 79586 | CHPF |
| 0.342357665 | < 0.001 | 6404 | SELPLG |
| 0.342273444 | < 0.001 | 219539 | YPEL4 |
| 0.342248678 | < 0.001 | 375686 | SPATC1 |
| 0.342161536 | < 0.001 | 160428 | ALDH1L2 |
| 0.342124522 | < 0.001 | 5768 | QSOX1 |
| 0.342053294 | < 0.001 | 8204 | NRIP1 |
| 0.342030972 | < 0.001 | 108 | ADCY2 |
| 0.342021734 | < 0.001 | 84726 | BAT2L |
| 0.341977507 | < 0.001 | 7849 | PAX8 |
| 0.341919839 | < 0.001 | 79017 | GGCT |
| 0.341889113 | < 0.001 | 5504 | PPP1R2 |
| 0.341795027 | < 0.001 | 6585 | SLIT1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.477220058 | 0.003591789 | 0.006 | 1 | 5961 | PRPH2 |
| 0.477220058 | 0.003591789 | 0.012 | 1 | 118672 | PSTK |
| 0.477220058 | 0.003591789 | 0.007 | 1 | 440400 | RNASEK |
| 0.477220058 | 0.003591789 | 0.006 | 1 | 643226 | GRXCR2 |
| 0.476962686 | 0.003611884 | 0.007 | 1 | 220001 | VWCE |
| 0.476962686 | 0.003611884 | 0.009 | 1 | 338707 | B4GALNT4 |
| 0.476705253 | 0.003632073 | 0.006 | 1 | 9575 | CLOCK |
| 0.476705253 | 0.003632073 | 0.005 | 1 | 53346 | TM6SF1 |
| 0.47644788 | 0.003652356 | 0.014 | 1 | 460 | ASTN1 |
| 0.47644788 | 0.003652356 | 0.008 | 1 | 50801 | KCNK4 |
| 0.476190478 | 0.003672739 | 0.006 | 1 | 5922 | RASA2 |
| 0.476190478 | 0.003672739 | 0.007 | 1 | 7884 | SLBP |
| 0.476190478 | 0.003672739 | 0.007 | 1 | 8683 | SFRS9 |
| 0.476190478 | 0.003672739 | 0.009 | 1 | 100132147 | LOC100132147 |
| 0.475933075 | 0.003693231 | 0.006 | 1 | 9837 | GINS1 |
| 0.475933075 | 0.003693231 | 0.013 | 1 | 399668 | LINC00086 |
| 0.475675672 | 0.003713812 | 0.008 | 1 | 321 | APBA2 |
| 0.475675672 | 0.003713812 | 0.008 | 1 | 3487 | IGFBP4 |
| 0.475675672 | 0.003713812 | 0.007 | 1 | 28983 | TMPRSS11E2 |
| 0.475675672 | 0.003713812 | 0.006 | 1 | 140628 | GATA5 |
| 0.47541824 | 0.003734495 | 0.005 | 1 | 8945 | BTRC |
| 0.47541824 | 0.003734495 | 0.008 | 1 | 53340 | SPA17 |
| 0.47541824 | 0.003734495 | 0.003 | 1 | 57619 | SHROOM3 |
| 0.475160867 | 0.003755278 | 0.011 | 1 | 79644 | SRD5A3 |
| 0.475160867 | 0.003755278 | 0.005 | 1 | 93145 | OLFM2 |
| 0.475160867 | 0.003755278 | 0.003 | 1 | 200810 | ALG1L |
| 0.475160867 | 0.003755278 | 0.006 | 1 | 219479 | OR5R1 |
| 0.475160867 | 0.003755278 | 0.006 | 1 | 386618 | KCTD4 |
| 0.474903464 | 0.003776169 | < 0.001 | < 0.001 | 4986 | OPRK1 |
| 0.474903464 | 0.003776169 | 0.005 | 1 | 5706 | PSMC6 |
| 0.474903464 | 0.003776169 | 0.01 | 1 | 6175 | RPLP0P3 |
| 0.474903464 | 0.003776169 | 0.009 | 1 | 9037 | SEMA5A |
| 0.474903464 | 0.003776169 | 0.009 | 1 | 10005 | ACOT8 |
| 0.474903464 | 0.003776169 | 0.007 | 1 | 23741 | EID1 |
| 0.474646062 | 0.003797158 | 0.008 | 1 | 339524 | LOC339524 |
| 0.474388659 | 0.003818243 | 0.004 | 1 | 5630 | PRPH |
| 0.474388659 | 0.003818243 | 0.008 | 1 | 8437 | RASAL1 |
| 0.474388659 | 0.003818243 | 0.007 | 1 | 57679 | ALS2 |
| 0.474388659 | 0.003818243 | 0.004 | 1 | 112849 | C14orf149 |
| 0.474388659 | 0.003818243 | 0.005 | 1 | 114905 | C1QTNF7 |
| 0.474388659 | 0.003818243 | 0.008 | 1 | 158763 | RP13-102H20.1 |
| 0.474388659 | 0.003818243 | 0.011 | 1 | 343702 | XKR7 |
| 0.474131256 | 0.003839432 | 0.011 | 1 | 4361 | MRE11A |
| 0.474131256 | 0.003839432 | 0.006 | 1 | 7567 | ZNF19 |
| 0.474131256 | 0.003839432 | 0.003 | 1 | 84456 | L3MBTL3 |
| 0.473873854 | 0.003860724 | 0.006 | 1 | 64084 | CLSTN2 |
| 0.473873854 | 0.003860724 | 0.006 | 1 | 149986 | LSM14B |
| 0.473359048 | 0.003903627 | 0.004 | 1 | 51372 | CCDC72 |
| 0.473101676 | 0.003925227 | 0.005 | 1 | 781 | CACNA2D1 |
| 0.473101676 | 0.003925227 | 0.003 | 1 | 7334 | UBE2N |
| 0.472329468 | 0.003990668 | 0.003 | 1 | 84726 | BAT2L |
| 0.472329468 | 0.003990668 | 0.007 | 1 | 117157 | SH2D1B |
| 0.472072065 | 0.00401269 | 0.01 | 1 | 79095 | C9orf16 |
| 0.471814662 | 0.004034818 | 0.01 | 1 | 10652 | YKT6 |
| 0.471814662 | 0.004034818 | 0.008 | 1 | 27067 | STAU2 |
| 0.471814662 | 0.004034818 | 0.009 | 1 | 152926 | PPM1K |
| 0.471814662 | 0.004034818 | 0.009 | 1 | 260293 | CYP4X1 |
| 0.471814662 | 0.004034818 | 0.01 | 1 | 440672 | NUDT4P1 |
| 0.47155726 | 0.004057061 | 0.009 | 1 | 57573 | ZNF471 |
| 0.47155726 | 0.004057061 | 0.005 | 1 | 149175 | MANEAL |
| 0.471299857 | 0.004079402 | 0.005 | 1 | 4139 | MARK1 |
| 0.471299857 | 0.004079402 | 0.007 | 1 | 23567 | ZNF346 |
| 0.471299857 | 0.004079402 | 0.011 | 1 | 116068 | AC027323.1 |
| 0.471299857 | 0.004079402 | 0.01 | 1 | 221302 | ZUFSP |
| 0.471042484 | 0.004101848 | 0.008 | 1 | 311 | ANXA11 |
| 0.471042484 | 0.004101848 | 0.011 | 1 | 2820 | GPD2 |
| 0.470785052 | 0.004124403 | 0.003 | 1 | 5099 | PCDH7 |
| 0.470785052 | 0.004124403 | 0.005 | 1 | 10969 | EBNA1BP2 |
| 0.470785052 | 0.004124403 | 0.012 | 1 | 58189 | WFDC1 |
| 0.470527679 | 0.004147067 | 0.009 | 1 | 2845 | GPR22 |
| 0.470527679 | 0.004147067 | 0.007 | 1 | 8361 | HIST1H4F |
| 0.470527679 | 0.004147067 | 0.008 | 1 | 51193 | ZNF639 |
| 0.470527679 | 0.004147067 | 0.009 | 1 | 401127 | AC021148.2 |
| 0.470270246 | 0.004169849 | 0.006 | 1 | 400578 | KRT16P2 |
| 0.470270246 | 0.004169849 | 0.01 | 1 | 414260 | C10orf136 |
| 0.470012873 | 0.00419273 | 0.005 | 1 | 3486 | IGFBP3 |
| 0.470012873 | 0.00419273 | 0.012 | 1 | 9867 | PJA2 |
| 0.470012873 | 0.00419273 | 0.008 | 1 | 89885 | FATE1 |
| 0.469755471 | 0.004215718 | 0.004 | 1 | 2669 | GEM |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| 0.341765493 | < 0.001 | 440173 | LOC440173 |
| 0.341748506 | < 0.001 | 53346 | TM6SF1 |
| 0.341584682 | < 0.001 | 5630 | PRPH |
| 0.341558188 | < 0.001 | 4705 | NDUFA10 |
| 0.34133628 | < 0.001 | 728734 | LOC728734 |
| 0.341194659 | < 0.001 | 56475 | RPRM |
| 0.341108143 | < 0.001 | 4101 | MAGEA2 |
| 0.341012359 | < 0.001 | 374286 | CDRT1 |
| 0.340889275 | < 0.001 | 55571 | C2orf29 |
| 0.340873539 | < 0.001 | 57103 | C12orf5 |
| 0.34085691 | < 0.001 | 6857 | SYT1 |
| 0.340443224 | < 0.001 | 8825 | LIN7A |
| 0.340354204 | < 0.001 | 8897 | MTMR3 |
| 0.340297252 | < 0.001 | 8880 | FUBP1 |
| 0.340110272 | < 0.001 | 284067 | C17orf105 |
| 0.340034068 | < 0.001 | 5911 | RAP2A |
| 0.339981824 | < 0.001 | 8774 | NAPG |
| 0.339957952 | < 0.001 | 9127 | P2RX6 |
| 0.339935482 | < 0.001 | 126792 | B3GALT6 |
| 0.339751691 | < 0.001 | 4208 | MEF2C |
| 0.33970958 | < 0.001 | 39 | ACAT2 |
| 0.339609146 | < 0.001 | 8706 | B3GALNT1 |
| 0.339606136 | < 0.001 | 56156 | TEX13B |
| 0.339511275 | < 0.001 | 145837 | LOC145837 |
| 0.339421332 | < 0.001 | 4209 | MEF2D |
| 0.339413941 | < 0.001 | 285704 | RGMB |
| 0.339398772 | < 0.001 | 526 | ATP6V1B2 |
| 0.339296043 | < 0.001 | 26974 | ZNF285 |
| 0.339126378 | < 0.001 | 80273 | GRPEL1 |
| 0.339120954 | < 0.001 | 91461 | SGK493 |
| 0.339035183 | < 0.001 | 51134 | CCDC41 |
| 0.338843524 | < 0.001 | 29966 | STRN3 |
| 0.338813305 | < 0.001 | 7804 | LRP8 |
| 0.338787556 | < 0.001 | 79690 | GAL3ST4 |
| 0.338763803 | < 0.001 | 23024 | PDZRN3 |
| 0.338737518 | < 0.001 | 8895 | CPNE3 |
| 0.338653207 | < 0.001 | 51087 | YBX2 |
| 0.338478595 | < 0.001 | 100129361 | LOC100129361 |
| 0.338473827 | < 0.001 | 5584 | PRKCI |
| 0.338451862 | < 0.001 | 100289341 | LOC100289341 |
| 0.33844769 | < 0.001 | 9319 | TRIP13 |
| 0.338341057 | < 0.001 | 27067 | STAU2 |
| 0.338298202 | < 0.001 | 320 | APBA1 |
| 0.338275373 | < 0.001 | 5471 | PPAT |
| 0.338051617 | < 0.001 | 26953 | RANBP6 |
| 0.337949872 | < 0.001 | 22883 | CLSTN1 |
| 0.337941229 | < 0.001 | 9978 | RBX1 |
| 0.337752581 | < 0.001 | 154881 | KCTD7 |
| 0.337699503 | < 0.001 | 83741 | TFAP2D |
| 0.337625027 | < 0.001 | 644794 | LOC644794 |
| 0.337559372 | < 0.001 | 120227 | CYP2R1 |
| 0.337547898 | < 0.001 | 9672 | SDC3 |
| 0.337528676 | < 0.001 | 387911 | RP11-45B20.3 |
| 0.33745268 | < 0.001 | 1562 | CYP2C18 |
| 0.337365419 | < 0.001 | 3933 | LCN1 |
| 0.337357432 | < 0.001 | 401548 | SNX30 |
| 0.337174773 | < 0.001 | 51535 | PPHLN1 |
| 0.337045968 | < 0.001 | 201895 | C4orf34 |
| 0.336942285 | < 0.001 | 81929 | SEH1L |
| 0.336932838 | < 0.001 | 5273 | SERPINB10 |
| 0.33691299 | < 0.001 | 285456 | AC084209.1 |
| 0.336856425 | < 0.001 | 5646 | PRSS3 |
| 0.336702734 | < 0.001 | 57505 | AARS2 |
| 0.336684585 | < 0.001 | 607 | BCL9 |
| 0.336560279 | < 0.001 | 11344 | TWF2 |
| 0.336385787 | < 0.001 | 84993 | UBL7 |
| 0.33638522 | < 0.001 | 23542 | MAPK8IP2 |
| 0.336378813 | < 0.001 | 65217 | PCDH15 |
| 0.336213738 | < 0.001 | 92344 | GORAB |
| 0.336159796 | < 0.001 | 7366 | AC147055.1 |
| 0.336150169 | < 0.001 | 2134 | EXTL1 |
| 0.336060613 | < 0.001 | 55206 | SBNO1 |
| 0.336048663 | < 0.001 | 65080 | MRPL44 |
| 0.336039335 | < 0.001 | 649330 | LOC649330 |
| 0.335833788 | < 0.001 | 140458 | ASB5 |
| 0.3354761 | < 0.001 | 100132304 | RP1-172N19.1 |
| 0.335448712 | < 0.001 | 129642 | MBOAT2 |
| 0.335428268 | < 0.001 | 56267 | CCBL2 |
| 0.335364521 | < 0.001 | 79605 | PGBD5 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.469755471 | 0.004215718 | 0.003 | 1 | 25927 | CNRIP1 |
| 0.469755471 | 0.004215718 | 0.006 | 1 | 79803 | HPS6 |
| 0.469755471 | 0.004215718 | 0.007 | 1 | 284422 | AC005551.1 |
| 0.469498068 | 0.004238818 | 0.007 | 1 | 23326 | USP22 |
| 0.469498068 | 0.004238818 | 0.013 | 1 | 23541 | SEC14L2 |
| 0.469498068 | 0.004238818 | 0.007 | 1 | 26533 | OR10G3 |
| 0.469498068 | 0.004238818 | 0.003 | 1 | 55631 | LRRC40 |
| 0.469498068 | 0.004238818 | 0.006 | 1 | 494197 | SPANXN5 |
| 0.469240665 | 0.004262039 | 0.01 | 1 | 33 | ACADL |
| 0.469240665 | 0.004262039 | 0.011 | 1 | 9832 | JAKMIP2 |
| 0.469240665 | 0.004262039 | 0.009 | 1 | 125972 | CALR3 |
| 0.469240665 | 0.004262039 | 0.008 | 1 | 154215 | NKAIN2 |
| 0.469240665 | 0.004262039 | 0.007 | 1 | 159091 | FAM122C |
| 0.468983263 | 0.00428536 | 0.006 | 1 | 8448 | DOC2A |
| 0.468983263 | 0.00428536 | 0.005 | 1 | 23170 | TTLL12 |
| 0.468983263 | 0.00428536 | 0.005 | 1 | 57626 | KLHL1 |
| 0.468983263 | 0.00428536 | 0.008 | 1 | 84525 | HOPX |
| 0.46872586 | 0.00430879 | 0.004 | 1 | 23426 | GRIP1 |
| 0.46872586 | 0.00430879 | 0.008 | 1 | 83989 | FAM172A |
| 0.46872586 | 0.00430879 | 0.011 | 1 | 84937 | ZNRF1 |
| 0.468468457 | 0.004332334 | 0.006 | 1 | 11124 | FAF1 |
| 0.468468457 | 0.004332334 | 0.012 | 1 | 57599 | WDR48 |
| 0.468468457 | 0.004332334 | 0.005 | 1 | 284018 | C17orf58 |
| 0.468211055 | 0.004356 | 0.007 | 1 | 1114 | CHGB |
| 0.468211055 | 0.004356 | 0.013 | 1 | 64091 | POPDC2 |
| 0.468211055 | 0.004356 | 0.004 | 1 | 80169 | CTC1 |
| 0.468211055 | 0.004356 | 0.005 | 1 | 84464 | BTBD12 |
| 0.468211055 | 0.004356 | 0.005 | 1 | 283450 | C12orf51 |
| 0.467953652 | 0.004379768 | 0.007 | 1 | 4234 | METTL1 |
| 0.467953652 | 0.004379768 | 0.011 | 1 | 23309 | SIN3B |
| 0.467953652 | 0.004379768 | 0.005 | 1 | 130951 | C2orf65 |
| 0.467953652 | 0.004379768 | 0.006 | 1 | 144809 | C13orf30 |
| 0.467953652 | 0.004379768 | 0.011 | 1 | 338440 | ANO9 |
| 0.467696249 | 0.004403649 | 0.007 | 1 | 123688 | AGPHD1 |
| 0.467696249 | 0.004403649 | 0.007 | 1 | 126282 | TNFAIP8L1 |
| 0.467696249 | 0.004403649 | 0.01 | 1 | 154822 | AC004863.6 |
| 0.467438847 | 0.004427641 | 0.009 | 1 | 3671 | ISLR |
| 0.467438847 | 0.004427641 | 0.013 | 1 | 65981 | CAPRIN2 |
| 0.467438847 | 0.004427641 | 0.007 | 1 | 245806 | VGLL2 |
| 0.467438847 | 0.004427641 | 0.007 | 1 | 284403 | WDR62 |
| 0.467181474 | 0.004451749 | 0.007 | 1 | 55222 | LRRC20 |
| 0.467181474 | 0.004451749 | 0.008 | 1 | 84925 | DIRC2 |
| 0.467181474 | 0.004451749 | 0.009 | 1 | 284415 | VSTM1 |
| 0.467181474 | 0.004451749 | 0.007 | 1 | 440345 | 61E3.4 |
| 0.466924042 | 0.004475982 | 0.01 | 1 | 2517 | FUCA1 |
| 0.466666669 | 0.00450032 | 0.007 | 1 | 2846 | LPAR4 |
| 0.466409236 | 0.004524772 | 0.01 | 1 | 1571 | CYP2E1 |
| 0.466409236 | 0.004524772 | 0.007 | 1 | 6278 | S100A7 |
| 0.466409236 | 0.004524772 | 0.009 | 1 | 51138 | COPS4 |
| 0.466409236 | 0.004524772 | 0.008 | 1 | 91298 | C12orf29 |
| 0.466151863 | 0.004549338 | 0.008 | 1 | 5001 | ORC5L |
| 0.466151863 | 0.004549338 | 0.006 | 1 | 51303 | FKBP11 |
| 0.466151863 | 0.004549338 | 0.007 | 1 | 54968 | TMEM70 |
| 0.466151863 | 0.004549338 | 0.015 | 1 | 55471 | C2orf56 |
| 0.466151863 | 0.004549338 | 0.003 | 1 | 85364 | ZCCHC3 |
| 0.465894461 | 0.004574033 | 0.004 | 1 | 6335 | SCN9A |
| 0.465894461 | 0.004574033 | 0.009 | 1 | 55584 | CHRNA9 |
| 0.465894461 | 0.004574033 | 0.007 | 1 | 92235 | DUSP27 |
| 0.465894461 | 0.004574033 | 0.01 | 1 | 146223 | CMTM4 |
| 0.465637058 | 0.004598832 | 0.006 | 1 | 360 | AQP3 |
| 0.465637058 | 0.004598832 | 0.008 | 1 | 136853 | SRCRB4D |
| 0.465637058 | 0.004598832 | 0.009 | 1 | 283316 | CD163L1 |
| 0.465379655 | 0.004623747 | 0.005 | 1 | 205717 | KIAA2018 |
| 0.465122253 | 0.004648785 | 0.011 | 1 | 9317 | PTER |
| 0.465122253 | 0.004648785 | 0.009 | 1 | 55181 | C17orf71 |
| 0.465122253 | 0.004648785 | 0.007 | 1 | 127943 | FCRLB |
| 0.465122253 | 0.004648785 | 0.007 | 1 | 388341 | C17orf76 |
| 0.464350045 | 0.004724606 | 0.007 | 1 | 1948 | EFNB2 |
| 0.464350045 | 0.004724606 | 0.005 | 1 | 5862 | RAB2A |
| 0.464350045 | 0.004724606 | 0.007 | 1 | 6925 | TCF4 |
| 0.464350045 | 0.004724606 | 0.01 | 1 | 25930 | PTPN23 |
| 0.464350045 | 0.004724606 | 0.012 | 1 | 137392 | FAM92A1 |
| 0.464092672 | 0.004750113 | 0.01 | 1 | 134829 | CLVS2 |
| 0.464092672 | 0.004750113 | 0.013 | 1 | 441481 | GPX1P1 |
| 0.464092672 | 0.004750113 | 0.004 | 1 | 647979 | LOC647979 |
| 0.463835239 | 0.004775744 | 0.005 | 1 | 159 | ADSS |
| 0.463835239 | 0.004775744 | 0.012 | 1 | 5067 | CNTN3 |
| 0.463835239 | 0.004775744 | 0.006 | 1 | 25987 | TSKU |
| 0.463577867 | 0.004801502 | 0.007 | 1 | 83877 | TM2D2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.335298747 | < 0.001 | 10718 | NRG3 |
| 0.335223287 | < 0.001 | 205564 | SENP5 |
| 0.335140437 | < 0.001 | 440 | ASNS |
| 0.335134268 | < 0.001 | 387357 | THEMIS |
| 0.335099399 | < 0.001 | 130733 | TMEM178 |
| 0.335022271 | < 0.001 | 10466 | COG5 |
| 0.334948868 | < 0.001 | 10229 | COQ7 |
| 0.33481583 | < 0.001 | 4923 | NTSR1 |
| 0.334771812 | < 0.001 | 26093 | CCDC9 |
| 0.334701359 | < 0.001 | 51517 | NCKIPSD |
| 0.334693581 | < 0.001 | 23541 | SEC14L2 |
| 0.334679037 | < 0.001 | 2642 | GCGR |
| 0.334579587 | < 0.001 | 23705 | CADM1 |
| 0.33447659 | < 0.001 | 23627 | PRND |
| 0.334439963 | < 0.001 | 10295 | BCKDK |
| 0.334437728 | < 0.001 | 63932 | CXorf56 |
| 0.334355503 | < 0.001 | 729313 | LOC729313 |
| 0.334340125 | < 0.001 | 152189 | CMTM8 |
| 0.334237009 | < 0.001 | 84277 | DNAJC30 |
| 0.334205836 | < 0.001 | 5695 | PSMB7 |
| 0.33383745 | < 0.001 | 79057 | PRRG3 |
| 0.333723485 | < 0.001 | 7216 | TRO |
| 0.333707184 | < 0.001 | 2876 | GPX1 |
| 0.333631098 | < 0.001 | 132720 | C4orf32 |
| 0.333589494 | < 0.001 | 5924 | RASGRF2 |
| 0.3335886 | < 0.001 | 442517 | LOC442517 |
| 0.333587855 | < 0.001 | 3195 | TLX1 |
| 0.333535343 | < 0.001 | 23033 | DOPEY1 |
| 0.333535075 | < 0.001 | 126014 | OSCAR |
| 0.33348766 | < 0.001 | 153364 | MBLAC2 |
| 0.333475649 | < 0.001 | 27134 | TJP3 |
| 0.333402842 | < 0.001 | 221223 | CES7 |
| 0.333186954 | < 0.001 | 54440 | SASH3 |
| 0.333158553 | < 0.001 | 49861 | CLDN20 |
| 0.333146691 | < 0.001 | 3116 | HLA-DPB2 |
| 0.333034903 | < 0.001 | 3892 | KRT86 |
| 0.33291629 | < 0.001 | 81873 | ARPC5L |
| 0.332851678 | < 0.001 | 192683 | SCAMP5 |
| 0.332829386 | < 0.001 | 10189 | THOC4 |
| 0.332818985 | < 0.001 | 3674 | ITGA2B |
| 0.332750738 | < 0.001 | 92255 | LMBRD2 |
| 0.332598239 | < 0.001 | 8646 | CHRD |
| 0.332541019 | < 0.001 | 1510 | CTSE |
| 0.332387328 | < 0.001 | 10402 | ST3GAL6 |
| 0.332342118 | < 0.001 | 5055 | SERPINB2 |
| 0.332273215 | < 0.001 | 728024 | LOC728024 |
| 0.332094848 | < 0.001 | 252969 | NEIL2 |
| 0.331979573 | < 0.001 | 51440 | HPCAL4 |
| 0.331944287 | < 0.001 | 10336 | PCGF3 |
| 0.331850946 | < 0.001 | 83729 | INHBE |
| 0.331740141 | < 0.001 | 8425 | LTBP4 |
| 0.331711799 | < 0.001 | 6709 | SPTAN1 |
| 0.331706852 | < 0.001 | 8814 | CDKL1 |
| 0.33168143 | < 0.001 | 25804 | LSM4 |
| 0.331637293 | < 0.001 | 140459 | ASB6 |
| 0.331626177 | < 0.001 | 55715 | DOK4 |
| 0.331531852 | < 0.001 | 822 | CAPG |
| 0.331480861 | < 0.001 | 5295 | PIK3R1 |
| 0.331424445 | < 0.001 | 8434 | RECK |
| 0.331420779 | < 0.001 | 284194 | AC025627.16 |
| 0.331359684 | < 0.001 | 8361 | HIST1H4F |
| 0.331335396 | < 0.001 | 119032 | C10orf32 |
| 0.331328839 | < 0.001 | 79703 | C11orf80 |
| 0.331211716 | < 0.001 | 1340 | COX6B1 |
| 0.331209064 | < 0.001 | 54510 | PCDH18 |
| 0.331195861 | < 0.001 | 1952 | CELSR2 |
| 0.331176788 | < 0.001 | 84870 | RSPO3 |
| 0.330884486 | < 0.001 | 56967 | C14orf132 |
| 0.330875337 | < 0.001 | 100132147 | LOC100132147 |
| 0.330753267 | < 0.001 | 5715 | PSMD9 |
| 0.330734968 | < 0.001 | 3681 | ITGAD |
| 0.33051005 | < 0.001 | 126374 | WTIP |
| 0.330383927 | < 0.001 | 374875 | HSD11B1L |
| 0.330359697 | < 0.001 | 2688 | GH1 |
| 0.330351144 | < 0.001 | 2819 | GPD1 |
| 0.330278963 | < 0.001 | 8867 | SYNJ1 |
| 0.330213308 | < 0.001 | 54733 | SLC35F2 |
| 0.330087751 | < 0.001 | 2182 | ACSL4 |
| 0.330029249 | < 0.001 | 201595 | STT3B |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.463320464 | 0.004827368 | 0.006 | 1 | 10040 | TOM1L1 |
| 0.463320464 | 0.004827368 | 0.011 | 1 | 79160 | MGC4294 |
| 0.463063061 | 0.004853362 | 0.004 | 1 | 3787 | KCNS1 |
| 0.463063061 | 0.004853362 | 0.017 | 1 | 23531 | MMD |
| 0.463063061 | 0.004853362 | 0.004 | 1 | 92400 | RBM18 |
| 0.462805659 | 0.004879472 | 0.008 | 1 | 11196 | SEC23IP |
| 0.462805659 | 0.004879472 | 0.007 | 1 | 644684 | LOC644684 |
| 0.462548256 | 0.00490572 | 0.004 | 1 | 8880 | FUBP1 |
| 0.462548256 | 0.00490572 | 0.012 | 1 | 55859 | BEX1 |
| 0.462290853 | 0.004932074 | 0.011 | 1 | 3381 | IBSP |
| 0.462290853 | 0.004932074 | 0.014 | 1 | 5903 | RANBP2 |
| 0.462290853 | 0.004932074 | 0.011 | 1 | 27042 | C1orf107 |
| 0.462290853 | 0.004932074 | 0.005 | 1 | 29121 | CLEC2D |
| 0.462290853 | 0.004932074 | 0.008 | 1 | 79948 | AC006273.1 |
| 0.46203348 | 0.004958551 | 0.008 | 1 | 51005 | AMDHD2 |
| 0.46203348 | 0.004958551 | 0.009 | 1 | 338667 | LOC338667 |
| 0.461776048 | 0.004985158 | 0.008 | 1 | 9684 | LRRC14 |
| 0.461776048 | 0.004985158 | 0.013 | 1 | 389941 | C1QL1 |
| 0.461518645 | 0.005011882 | 0.008 | 1 | 6853 | SYN1 |
| 0.461261243 | 0.005038749 | 0.007 | 1 | 8294 | HIST1H4I |
| 0.461261243 | 0.005038749 | 0.012 | 1 | 9630 | GNA14 |
| 0.461261243 | 0.005038749 | 0.006 | 1 | 254778 | C8orf46 |
| 0.46100384 | 0.005065723 | 0.006 | 1 | 5957 | RCVRN |
| 0.46100384 | 0.005065723 | 0.01 | 1 | 9899 | SV2B |
| 0.460746467 | 0.005092822 | 0.008 | 1 | 2709 | GJB5 |
| 0.460746467 | 0.005092822 | 0.011 | 1 | 27232 | GNMT |
| 0.460746467 | 0.005092822 | 0.014 | 1 | 51626 | DYNC2LI1 |
| 0.460746467 | 0.005092822 | 0.005 | 1 | 64743 | WDR13 |
| 0.460746467 | 0.005092822 | 0.011 | 1 | 84460 | ZMAT1 |
| 0.460746467 | 0.005092822 | 0.009 | 1 | 90362 | FAM110B |
| 0.460746467 | 0.005092822 | 0.015 | 1 | 202181 | LOC202181 |
| 0.460746467 | 0.005092822 | 0.008 | 1 | 642273 | FAM110C |
| 0.460489035 | 0.005120053 | 0.007 | 1 | 22800 | RRAS2 |
| 0.460489035 | 0.005120053 | 0.01 | 1 | 55226 | NAT10 |
| 0.460489035 | 0.005120053 | 0.006 | 1 | 57690 | TNRC6C |
| 0.460489035 | 0.005120053 | 0.005 | 1 | 284996 | RNF149 |
| 0.460489035 | 0.005120053 | 0.01 | 1 | 100289341 | LOC100289341 |
| 0.460231662 | 0.005147417 | 0.012 | 1 | 84319 | C3orf26 |
| 0.460231662 | 0.005147417 | 0.01 | 1 | 644596 | LINC00087 |
| 0.459974229 | 0.005174901 | 0.01 | 1 | 10326 | SIRPB1 |
| 0.459974229 | 0.005174901 | 0.007 | 1 | 408029 | C2orf27B |
| 0.459716856 | 0.005202507 | 0.012 | 1 | 8900 | CCNA1 |
| 0.459716856 | 0.005202507 | 0.009 | 1 | 26996 | GPR160 |
| 0.459459454 | 0.005230241 | 0.006 | 1 | 9128 | PRPF4 |
| 0.459202051 | 0.005258121 | 0.009 | 1 | 2909 | GRLF1 |
| 0.459202051 | 0.005258121 | 0.012 | 1 | 5603 | MAPK13 |
| 0.459202051 | 0.005258121 | 0.007 | 1 | 80115 | BAIAP2L2 |
| 0.459202051 | 0.005258121 | 0.008 | 1 | 138724 | C9orf131 |
| 0.459202051 | 0.005258121 | 0.009 | 1 | 150590 | C2orf15 |
| 0.458944649 | 0.005286111 | 0.01 | 1 | 23176 | SEPTIN8 |
| 0.458944649 | 0.005286111 | 0.009 | 1 | 54749 | EPDR1 |
| 0.458944649 | 0.005286111 | 0.004 | 1 | 64921 | CASD1 |
| 0.458944649 | 0.005286111 | 0.01 | 1 | 122830 | NAA30 |
| 0.458944649 | 0.005286111 | 0.008 | 1 | 728858 | C12orf71 |
| 0.458687246 | 0.005314238 | 0.005 | 1 | 22821 | RASA3 |
| 0.458687246 | 0.005314238 | 0.008 | 1 | 27087 | B3GAT1 |
| 0.458687246 | 0.005314238 | 0.01 | 1 | 29906 | ST8SIA5 |
| 0.458429843 | 0.005342488 | 0.015 | 1 | 694 | BTG1 |
| 0.458429843 | 0.005342488 | 0.003 | 1 | 1436 | CSF1R |
| 0.458429843 | 0.005342488 | 0.009 | 1 | 1977 | EIF4E |
| 0.458429843 | 0.005342488 | 0.012 | 1 | 9141 | PDCD5 |
| 0.458429843 | 0.005342488 | 0.01 | 1 | 79882 | ZC3H14 |
| 0.45817247 | 0.005370868 | 0.008 | 1 | 2067 | ERCC1 |
| 0.45817247 | 0.005370868 | 0.006 | 1 | 4199 | ME1 |
| 0.45817247 | 0.005370868 | 0.005 | 1 | 79078 | C1orf50 |
| 0.457915038 | 0.005399398 | 0.009 | 1 | 6810 | STX4 |
| 0.457915038 | 0.005399398 | 0.006 | 1 | 57221 | KIAA1244 |
| 0.457915038 | 0.005399398 | 0.014 | 1 | 613038 | RP11-347C12.3 |
| 0.457657665 | 0.005428039 | 0.01 | 1 | 5768 | QSOX1 |
| 0.457657665 | 0.005428039 | 0.01 | 1 | 133957 | CCDC127 |
| 0.457657665 | 0.005428039 | 0.013 | 1 | 140458 | ASB5 |
| 0.457400233 | 0.00545682 | 0.008 | 1 | 5787 | PTPRB |
| 0.457400233 | 0.00545682 | 0.009 | 1 | 57497 | LRFN2 |
| 0.457400233 | 0.00545682 | 0.005 | 1 | 203522 | DDX26B |
| 0.457400233 | 0.00545682 | 0.012 | 1 | 339479 | FAM5C |
| 0.45714286 | 0.005485726 | 0.01 | 1 | 1838 | DTNB |
| 0.45714286 | 0.005485726 | 0.015 | 1 | 84067 | FAM160A2 |
| 0.45714286 | 0.005485726 | 0.011 | 1 | 399697 | CTXN2 |
| 0.45714286 | 0.005485726 | 0.006 | 1 | 440101 | RP11-834C11.3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.329946309 | < 0.001 | 5612 | PRKRIR |
| 0.329876333 | < 0.001 | 81616 | ACSBG2 |
| 0.32982859 | < 0.001 | 83959 | SLC4A11 |
| 0.329826087 | < 0.001 | 2155 | F7 |
| 0.329797298 | < 0.001 | 722 | C4BPA |
| 0.329771399 | < 0.001 | 5795 | PTPRJ |
| 0.329708993 | < 0.001 | 25928 | SOSTDC1 |
| 0.329684108 | < 0.001 | 5013 | OTX1 |
| 0.329605073 | < 0.001 | 6038 | RNASE4 |
| 0.329583704 | < 0.001 | 6503 | SLA |
| 0.329516023 | < 0.001 | 66004 | LYNX1 |
| 0.329472423 | < 0.001 | 7262 | PHLDA2 |
| 0.329392165 | < 0.001 | 11264 | PXMP4 |
| 0.32926482 | < 0.001 | 266812 | NAP1L5 |
| 0.329231024 | < 0.001 | 646174 | C16orf90 |
| 0.329208732 | < 0.001 | 10526 | IPO8 |
| 0.329016358 | < 0.001 | 84456 | L3MBTL3 |
| 0.329004496 | < 0.001 | 84769 | MPV17L2 |
| 0.328896463 | < 0.001 | 22916 | NCBP2 |
| 0.328850359 | < 0.001 | 283358 | B4GALNT3 |
| 0.328767002 | < 0.001 | 51170 | HSD17B11 |
| 0.328679025 | < 0.001 | 137970 | UNC5D |
| 0.328406274 | < 0.001 | 80184 | CEP290 |
| 0.328110993 | < 0.001 | 653505 | PPIAL4B |
| 0.328105658 | < 0.001 | 140612 | ZFP28 |
| 0.328021109 | < 0.001 | 204962 | SLC44A5 |
| 0.327977955 | < 0.001 | 219869 | OR10G8 |
| 0.32793349 | < 0.001 | 94033 | FTMT |
| 0.327924579 | < 0.001 | 8660 | IRS2 |
| 0.32791996 | < 0.001 | 4277 | MICB |
| 0.327668637 | < 0.001 | 4435 | CITED1 |
| 0.32758376 | < 0.001 | 55466 | DNAJA4 |
| 0.327535778 | < 0.001 | 5293 | PIK3CD |
| 0.327533334 | < 0.001 | 9626 | GUCA1C |
| 0.327475756 | < 0.001 | 10005 | ACOT8 |
| 0.327411622 | < 0.001 | 440672 | NUDT4P1 |
| 0.32728824 | < 0.001 | 4185 | ADAM11 |
| 0.32715416 | < 0.001 | 170261 | ZCCHC12 |
| 0.327092111 | < 0.001 | 266675 | BEST4 |
| 0.326895803 | < 0.001 | 9956 | HS3ST2 |
| 0.326889485 | < 0.001 | 10528 | NOP56 |
| 0.3267304 | < 0.001 | 55203 | LGI2 |
| 0.326725721 | < 0.001 | 10383 | TUBB2C |
| 0.326718479 | < 0.001 | 2742 | GLRA2 |
| 0.32616666 | < 0.001 | 54207 | KCNK10 |
| 0.326139301 | < 0.001 | 2191 | FAP |
| 0.326006413 | < 0.001 | 64921 | CASD1 |
| 0.325925529 | < 0.001 | 51186 | WBP5 |
| 0.325917095 | < 0.001 | 285033 | LOC285033 |
| 0.325910479 | < 0.001 | 84937 | ZNRF1 |
| 0.325900376 | < 0.001 | 100129291 | LOC100129291 |
| 0.325728983 | < 0.001 | 79172 | CENPO |
| 0.32553944 | < 0.001 | 79697 | C14orf169 |
| 0.325432509 | < 0.001 | 55437 | STRADB |
| 0.325422496 | < 0.001 | 7380 | UPK3A |
| 0.325291634 | < 0.001 | 6925 | TCF4 |
| 0.325283229 | < 0.001 | 57504 | MTA3 |
| 0.325223058 | < 0.001 | 51032 | CELA2B |
| 0.325147182 | < 0.001 | 84954 | MPND |
| 0.325119406 | < 0.001 | 27178 | IL1F7 |
| 0.325003296 | < 0.001 | 79161 | C7orf23 |
| 0.324972123 | < 0.001 | 3024 | HIST1H1A |
| 0.324961901 | < 0.001 | 51098 | IFT52 |
| 0.324945509 | < 0.001 | 10745 | PHTF1 |
| 0.324835569 | < 0.001 | 5566 | PRKACA |
| 0.324827582 | < 0.001 | 90410 | IFT20 |
| 0.324802607 | < 0.001 | 29886 | SNX8 |
| 0.324772388 | < 0.001 | 55801 | IL26 |
| 0.324640274 | < 0.001 | 79363 | C1orf89 |
| 0.324624777 | < 0.001 | 152992 | C4orf23 |
| 0.324572951 | < 0.001 | 8444 | DYRK3 |
| 0.324525595 | < 0.001 | 63941 | NECAB3 |
| 0.32449922 | < 0.001 | 8775 | NAPA |
| 0.324466139 | < 0.001 | 29883 | CNOT7 |
| 0.324339658 | < 0.001 | 57213 | C13orf1 |
| 0.324317515 | < 0.001 | 100131482 | LOC100131482 |
| 0.324193269 | < 0.001 | 140883 | ZNF280B |
| 0.32416749 | < 0.001 | 4751 | NEK2 |
| 0.324111879 | < 0.001 | 2979 | GUCA1B |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.45714286 | 0.005485726 | 0.007 | 1 | 646548 | LOC646548 |
| 0.456885457 | 0.005514778 | 0.01 | 1 | 6833 | ABCC8 |
| 0.456885457 | 0.005514778 | 0.015 | 1 | 6940 | ZNF354A |
| 0.456885457 | 0.005514778 | 0.006 | 1 | 10979 | PLEKHC1 |
| 0.456885457 | 0.005514778 | 0.01 | 1 | 84289 | ING5 |
| 0.456885457 | 0.005514778 | 0.002 | 1 | 388242 | RP11-345J4.3 |
| 0.456628054 | 0.005543957 | 0.006 | 1 | 2971 | GTF3A |
| 0.456628054 | 0.005543957 | 0.016 | 1 | 55610 | CCDC132 |
| 0.456370652 | 0.005573262 | 0.008 | 1 | 3059 | HCLS1 |
| 0.456370652 | 0.005573262 | 0.013 | 1 | 8208 | CHAF1B |
| 0.456370652 | 0.005573262 | 0.009 | 1 | 11170 | FAM107A |
| 0.456370652 | 0.005573262 | 0.009 | 1 | 84203 | TXNDC2 |
| 0.456370652 | 0.005573262 | 0.006 | 1 | 100191040 | AL589765.4 |
| 0.456113249 | 0.00560271 | 0.011 | 1 | 29960 | FTSJ2 |
| 0.455855846 | 0.005632298 | 0.01 | 1 | 5926 | ARID4A |
| 0.455855846 | 0.005632298 | 0.009 | 1 | 57689 | LRRC4C |
| 0.455598474 | 0.005662009 | 0.01 | 1 | 51086 | TNNI3K |
| 0.455598474 | 0.005662009 | 0.007 | 1 | 51343 | FZR1 |
| 0.455598474 | 0.005662009 | 0.01 | 1 | 51729 | WBP11 |
| 0.455598474 | 0.005662009 | 0.006 | 1 | 219736 | STOX1 |
| 0.455341041 | 0.005691862 | 0.009 | 1 | 53615 | MBD3 |
| 0.455341041 | 0.005691862 | 0.008 | 1 | 64897 | C12orf43 |
| 0.455341041 | 0.005691862 | 0.006 | 1 | 401067 | IQCF3 |
| 0.455083668 | 0.005721845 | 0.011 | 1 | 4681 | NBL1 |
| 0.455083668 | 0.005721845 | 0.012 | 1 | 23022 | PALLD |
| 0.455083668 | 0.005721845 | 0.008 | 1 | 161882 | ZFPM1 |
| 0.454826236 | 0.005751972 | 0.011 | 1 | 9820 | CUL7 |
| 0.454826236 | 0.005751972 | 0.009 | 1 | 124220 | ZG16B |
| 0.454826236 | 0.005751972 | 0.013 | 1 | 286887 | KRT6C |
| 0.454826236 | 0.005751972 | 0.005 | 1 | 346389 | MACC1 |
| 0.454826236 | 0.005751972 | 0.017 | 1 | 353189 | SLCO4C1 |
| 0.454826236 | 0.005751972 | 0.011 | 1 | 389383 | C6orf126 |
| 0.45431146 | 0.005812637 | 0.014 | 1 | 6755 | SSTR5 |
| 0.45431146 | 0.005812637 | 0.012 | 1 | 9847 | KIAA0528 |
| 0.45431146 | 0.005812637 | 0.008 | 1 | 100287114 | LINC00421 |
| 0.454054028 | 0.005843177 | 0.012 | 1 | 4659 | PPP1R12A |
| 0.453796655 | 0.005873849 | 0.003 | 1 | 283767 | AC116165.2 |
| 0.453796655 | 0.005873849 | 0.013 | 1 | 388564 | TMEM238 |
| 0.453539222 | 0.005904682 | 0.007 | 1 | 7138 | TNNT1 |
| 0.453539222 | 0.005904682 | 0.009 | 1 | 221895 | JAZF1 |
| 0.45328185 | 0.005935633 | 0.008 | 1 | 5048 | PAFAH1B1 |
| 0.45328185 | 0.005935633 | 0.006 | 1 | 6752 | SSTR2 |
| 0.45328185 | 0.005935633 | 0.007 | 1 | 29070 | CCDC113 |
| 0.45328185 | 0.005935633 | 0.009 | 1 | 80212 | CCDC92 |
| 0.45328185 | 0.005935633 | 0.015 | 1 | 374875 | HSD11B1L |
| 0.45328185 | 0.005935633 | 0.009 | 1 | 389384 | C6orf222 |
| 0.453024447 | 0.005966726 | 0.015 | 1 | 23564 | DDAH2 |
| 0.453024447 | 0.005966726 | 0.014 | 1 | 84063 | KIRREL2 |
| 0.452767044 | 0.005997966 | 0.011 | 1 | 2555 | GABRA2 |
| 0.452767044 | 0.005997966 | 0.007 | 1 | 51514 | DTL |
| 0.452509642 | 0.006029354 | 0.011 | 1 | 5784 | PTPN14 |
| 0.452509642 | 0.006029354 | 0.01 | 1 | 51098 | IFT52 |
| 0.452509642 | 0.006029354 | 0.009 | 1 | 317701 | VN1R2 |
| 0.452252239 | 0.006060879 | 0.012 | 1 | 516 | ATP5G1 |
| 0.452252239 | 0.006060879 | 0.008 | 1 | 23168 | RTF1 |
| 0.452252239 | 0.006060879 | 0.004 | 1 | 257194 | NEGR1 |
| 0.451994836 | 0.006092538 | 0.014 | 1 | 60 | ACTB |
| 0.451994836 | 0.006092538 | 0.012 | 1 | 64595 | TTTY15 |
| 0.451994836 | 0.006092538 | 0.011 | 1 | 151987 | PPP4R2 |
| 0.451994836 | 0.006092538 | 0.009 | 1 | 153770 | PLAC8L1 |
| 0.451737463 | 0.00612434 | 0.011 | 1 | 22948 | CCT5 |
| 0.451480031 | 0.006156294 | 0.007 | 1 | 4781 | NFIB |
| 0.451480031 | 0.006156294 | 0.008 | 1 | 79033 | ERI3 |
| 0.451222658 | 0.006188399 | 0.007 | 1 | 3216 | HOXB6 |
| 0.451222658 | 0.006188399 | 0.008 | 1 | 55670 | PEX26 |
| 0.451222658 | 0.006188399 | 0.01 | 1 | 79158 | GNPTAB |
| 0.451222658 | 0.006188399 | 0.009 | 1 | 84557 | MAP1LC3A |
| 0.450965226 | 0.006220642 | 0.009 | 1 | 10253 | SPRY2 |
| 0.450965226 | 0.006220642 | 0.011 | 1 | 81688 | C6orf62 |
| 0.450965226 | 0.006220642 | 0.011 | 1 | 134121 | C5orf49 |
| 0.450965226 | 0.006220642 | 0.014 | 1 | 100129291 | LOC100129291 |
| 0.450707853 | 0.006253023 | 0.01 | 1 | 25893 | TRIM58 |
| 0.450707853 | 0.006253023 | 0.007 | 1 | 55088 | C10orf118 |
| 0.450707853 | 0.006253023 | 0.015 | 1 | 55273 | TMEM100 |
| 0.450707853 | 0.006253023 | 0.008 | 1 | 114915 | EPB41L4A-AS1 |
| 0.45045045 | 0.006285549 | 0.014 | 1 | 3586 | IL10 |
| 0.450193048 | 0.006318243 | 0.016 | 1 | 1012 | CDH13 |
| 0.450193048 | 0.006318243 | 0.014 | 1 | 8525 | DGKZ |
| 0.450193048 | 0.006318243 | 0.017 | 1 | 54510 | PCDH18 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.324065536 | < 0.001 | 8907 | AP1M1 |
| 0.324060738 | < 0.001 | 10552 | ARPC1A |
| 0.323931783 | < 0.001 | 10911 | UTS2 |
| 0.323907614 | < 0.001 | 343477 | HSP90B3P |
| 0.323860765 | < 0.001 | 8237 | USP11 |
| 0.323771983 | < 0.001 | 5887 | RAD23B |
| 0.323729992 | < 0.001 | 85442 | KNDC1 |
| 0.323722094 | < 0.001 | 26521 | TIMM8B |
| 0.323620558 | < 0.001 | 11245 | GPR176 |
| 0.323597431 | < 0.001 | 65268 | WNK2 |
| 0.323478341 | < 0.001 | 5000 | ORC4 |
| 0.323343664 | < 0.001 | 7332 | UBE2L3 |
| 0.323301226 | < 0.001 | 727800 | RNF208 |
| 0.323284894 | < 0.001 | 80007 | C10orf88 |
| 0.323108822 | < 0.001 | 2312 | FLG |
| 0.322998345 | < 0.001 | 8799 | PEX11B |
| 0.322954327 | < 0.001 | 892 | CCNC |
| 0.322944343 | < 0.001 | 4698 | NDUFA5 |
| 0.322919011 | < 0.001 | 3049 | HBQ1 |
| 0.322896302 | < 0.001 | 53339 | BTBD1 |
| 0.322784215 | < 0.001 | 3787 | KCNS1 |
| 0.32259208 | < 0.001 | 146861 | AMAC1 |
| 0.322558224 | < 0.001 | 2953 | GSTT2 |
| 0.322533458 | < 0.001 | 151242 | PPP1R1C |
| 0.322453827 | < 0.001 | 344558 | SH3RF3 |
| 0.32235086 | < 0.001 | 339231 | ARL16 |
| 0.322350323 | < 0.001 | 79827 | AP000926.2 |
| 0.322335154 | < 0.001 | 285659 | OR2V2 |
| 0.322241157 | < 0.001 | 2241 | FER |
| 0.32212615 | < 0.001 | 10990 | LILRB5 |
| 0.322123975 | < 0.001 | 84560 | MT4 |
| 0.322119802 | < 0.001 | 245711 | SPDYA |
| 0.322007418 | < 0.001 | 8626 | TP63 |
| 0.321955413 | < 0.001 | 9158 | FIBP |
| 0.321785569 | < 0.001 | 1572 | CYP2F1 |
| 0.321761847 | < 0.001 | 126328 | NDUFA11 |
| 0.321750015 | < 0.001 | 54529 | ASNSD1 |
| 0.32169205 | < 0.001 | 8754 | ADAM9 |
| 0.321610332 | < 0.001 | 139599 | MAGEE2 |
| 0.321607322 | < 0.001 | 6903 | TBCC |
| 0.321549892 | < 0.001 | 401913 | LOC401913 |
| 0.321432322 | < 0.001 | 1016 | CDH18 |
| 0.321330309 | < 0.001 | 125488 | TTC39C |
| 0.321220666 | < 0.001 | 389812 | LCN15 |
| 0.321045935 | < 0.001 | 157313 | CDCA2 |
| 0.320947886 | < 0.001 | 90417 | C15orf23 |
| 0.320924759 | < 0.001 | 80762 | NDFIP1 |
| 0.320908457 | < 0.001 | 6988 | TCTA |
| 0.320880175 | < 0.001 | 347454 | ANKRD58 |
| 0.320873022 | < 0.001 | 3760 | KCNJ3 |
| 0.320786327 | < 0.001 | 22911 | WDR47 |
| 0.320691377 | < 0.001 | 445 | ASS1 |
| 0.32066083 | < 0.001 | 529 | ATP6V1E1 |
| 0.32064417 | < 0.001 | 6623 | SNCG |
| 0.32057786 | < 0.001 | 3796 | KIF2A |
| 0.320491284 | < 0.001 | 160 | AP2A1 |
| 0.320485294 | < 0.001 | 343450 | KCNT2 |
| 0.320482045 | < 0.001 | 84289 | ING5 |
| 0.320463538 | < 0.001 | 8732 | RNGTT |
| 0.320362717 | < 0.001 | 1740 | DLG2 |
| 0.320222229 | < 0.001 | 170393 | C10orf91 |
| 0.320198596 | < 0.001 | 22953 | P2RX2 |
| 0.320099622 | < 0.001 | 4151 | MB |
| 0.319941908 | < 0.001 | 342541 | LOC342541 |
| 0.319938838 | < 0.001 | 8618 | CADPS |
| 0.319929183 | < 0.001 | 8506 | CNTNAP1 |
| 0.319919527 | < 0.001 | 8723 | SNX4 |
| 0.319891572 | < 0.001 | 100506084 | AC005829.1 |
| 0.319807142 | < 0.001 | 26533 | OR10G3 |
| 0.319787085 | < 0.001 | 7415 | VCP |
| 0.319774479 | < 0.001 | 1262 | CNGA4 |
| 0.319768578 | < 0.001 | 57600 | FNIP2 |
| 0.319601685 | < 0.001 | 51166 | AADAT |
| 0.319583863 | < 0.001 | 54897 | CASZ1 |
| 0.319580048 | < 0.001 | 221044 | UCMA |
| 0.319401562 | < 0.001 | 4624 | MYH6 |
| 0.319143355 | < 0.001 | 1609 | DGKQ |
| 0.319127709 | < 0.001 | 727830 | FAM75A3 |
| 0.319052756 | < 0.001 | 84923 | FAM104A |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.450193048 | 0.006318243 | 0.007 | 1 | 64130 | LIN7B |
| 0.450193048 | 0.006318243 | 0.011 | 1 | 64859 | OBFC2A |
| 0.450193048 | 0.006318243 | 0.015 | 1 | 340307 | CTAGE6P |
| 0.449935645 | 0.006351063 | 0.011 | 1 | 2048 | EPHB2 |
| 0.449935645 | 0.006351063 | 0.007 | 1 | 79690 | GAL3ST4 |
| 0.449678242 | 0.006384034 | 0.011 | 1 | 9551 | ATP5J2 |
| 0.449678242 | 0.006384034 | 0.009 | 1 | 29924 | EPN1 |
| 0.449678242 | 0.006384034 | 0.01 | 1 | 56651 | LINC00470 |
| 0.449678242 | 0.006384034 | 0.01 | 1 | 389206 | BEND4 |
| 0.44942084 | 0.006417152 | 0.013 | 1 | 10053 | AP1M2 |
| 0.44942084 | 0.006417152 | 0.015 | 1 | 25794 | FSCN2 |
| 0.44942084 | 0.006417152 | 0.003 | 1 | 339287 | MSL1 |
| 0.449163467 | 0.006450431 | 0.015 | 1 | 1448 | CSN3 |
| 0.448906034 | 0.006483852 | 0.01 | 1 | 1576 | CYP3A4 |
| 0.448906034 | 0.006483852 | 0.012 | 1 | 2802 | GOLGA3 |
| 0.448906034 | 0.006483852 | 0.007 | 1 | 3109 | HLA-DMB |
| 0.448906034 | 0.006483852 | 0.005 | 1 | 378805 | AC058791.2 |
| 0.448391229 | 0.006551131 | 0.013 | 1 | 680 | BRS3 |
| 0.448391229 | 0.006551131 | 0.003 | 1 | 64219 | PJA1 |
| 0.448133856 | 0.006584994 | 0.008 | 1 | 29993 | PACSIN1 |
| 0.448133856 | 0.006584994 | 0.008 | 1 | 79570 | NKAIN1 |
| 0.447876453 | 0.006619029 | 0.007 | 1 | 53829 | P2RY13 |
| 0.447876453 | 0.006619029 | 0.005 | 1 | 727800 | RNF208 |
| 0.447619021 | 0.006653198 | 0.012 | 1 | 56981 | PRDM11 |
| 0.447104216 | 0.006721998 | 0.006 | 1 | 1965 | EIF2S1 |
| 0.446846843 | 0.006756642 | 0.017 | 1 | 4257 | MGST1 |
| 0.446846843 | 0.006756642 | 0.007 | 1 | 65008 | MRPL1 |
| 0.446846843 | 0.006756642 | 0.012 | 1 | 128434 | VSTM2L |
| 0.446846843 | 0.006756642 | 0.012 | 1 | 727910 | TLCD2 |
| 0.44658944 | 0.006791422 | 0.009 | 1 | 2888 | GRB14 |
| 0.44658944 | 0.006791422 | 0.008 | 1 | 63979 | FIGNL1 |
| 0.446332037 | 0.00682636 | 0.008 | 1 | 2922 | GRP |
| 0.446332037 | 0.00682636 | 0.013 | 1 | 57551 | TAOK1 |
| 0.446332037 | 0.00682636 | 0.01 | 1 | 283152 | CCDC153 |
| 0.446074635 | 0.006861453 | 0.013 | 1 | 26039 | SS18L1 |
| 0.446074635 | 0.006861453 | 0.013 | 1 | 84126 | ATRIP |
| 0.446074635 | 0.006861453 | 0.014 | 1 | 126170 | LOC126170 |
| 0.445817232 | 0.006896718 | 0.013 | 1 | 60676 | PAPPA2 |
| 0.445817232 | 0.006896718 | 0.005 | 1 | 391104 | VHLL |
| 0.445559829 | 0.006932124 | 0.009 | 1 | 9535 | GMFG |
| 0.445559829 | 0.006932124 | 0.012 | 1 | 388882 | AP000345.1 |
| 0.445302457 | 0.006967682 | 0.019 | 1 | 8508 | NIPSNAP1 |
| 0.445302457 | 0.006967682 | 0.007 | 1 | 55423 | SIRPG |
| 0.445045024 | 0.007003402 | 0.01 | 1 | 813 | CALU |
| 0.445045024 | 0.007003402 | 0.008 | 1 | 1089 | CEACAM4 |
| 0.445045024 | 0.007003402 | 0.014 | 1 | 4338 | MOCS2 |
| 0.444787651 | 0.007039277 | 0.015 | 1 | 2781 | GNAZ |
| 0.444787651 | 0.007039277 | 0.016 | 1 | 9992 | KCNE2 |
| 0.444787651 | 0.007039277 | 0.019 | 1 | 53826 | FXYD6 |
| 0.444787651 | 0.007039277 | 0.01 | 1 | 55757 | UGCGL2 |
| 0.444787651 | 0.007039277 | 0.01 | 1 | 254102 | EHBP1L1 |
| 0.444530219 | 0.007075333 | 0.006 | 1 | 23518 | R3HDM1 |
| 0.444272846 | 0.007111525 | 0.009 | 1 | 3679 | ITGA7 |
| 0.444272846 | 0.007111525 | 0.02 | 1 | 6595 | SMARCA2 |
| 0.444272846 | 0.007111525 | 0.015 | 1 | 9249 | DHRS3 |
| 0.444272846 | 0.007111525 | 0.015 | 1 | 51669 | TMEM66 |
| 0.444272846 | 0.007111525 | 0.005 | 1 | 54946 | SLC41A3 |
| 0.444272846 | 0.007111525 | 0.02 | 1 | 55028 | C17orf80 |
| 0.444015443 | 0.00714788 | 0.011 | 1 | 29 | ABR |
| 0.444015443 | 0.00714788 | 0.015 | 1 | 148 | ADRA1A |
| 0.444015443 | 0.00714788 | 0.009 | 1 | 8721 | EDF1 |
| 0.444015443 | 0.00714788 | 0.012 | 1 | 284194 | AC025627.16 |
| 0.443758041 | 0.007184397 | 0.019 | 1 | 5746 | PTH2R |
| 0.443500638 | 0.007221091 | 0.012 | 1 | 23369 | PUM2 |
| 0.443500638 | 0.007221091 | 0.013 | 1 | 57583 | TMEM181 |
| 0.443500638 | 0.007221091 | 0.011 | 1 | 64744 | SMAP2 |
| 0.443500638 | 0.007221091 | 0.013 | 1 | 121268 | RHEBL1 |
| 0.443500638 | 0.007221091 | 0.014 | 1 | 374387 | AC044839.2 |
| 0.443243235 | 0.007257929 | 0.007 | 1 | 132160 | PPM1M |
| 0.443243235 | 0.007257929 | 0.009 | 1 | 155368 | WBSCR27 |
| 0.443243235 | 0.007257929 | 0.006 | 1 | 255252 | LRRC57 |
| 0.442985833 | 0.007294925 | 0.013 | 1 | 84626 | KRBA1 |
| 0.44272846 | 0.007332089 | 0.017 | 1 | 23035 | PHLPP2 |
| 0.442471027 | 0.007369416 | 0.014 | 1 | 7325 | UBE2E2 |
| 0.442471027 | 0.007369416 | 0.013 | 1 | 140612 | ZFP28 |
| 0.442471027 | 0.007369416 | 0.014 | 1 | 285598 | ARL10 |
| 0.442471027 | 0.007369416 | 0.012 | 1 | 653513 | LOC653513 |
| 0.442213655 | 0.007406923 | 0.012 | 1 | 51186 | WBP5 |
| 0.442213655 | 0.007406923 | 0.012 | 1 | 401472 | FLJ45248 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.319027066 | < 0.001 | 389538 | MGC72080 |
| 0.319024771 | < 0.001 | 55790 | CSGALNACT1 |
| 0.318976372 | < 0.001 | 1838 | DTNB |
| 0.318929434 | < 0.001 | 51182 | HSPA14 |
| 0.318892658 | < 0.001 | 6689 | SPIB |
| 0.318842053 | < 0.001 | 64968 | MRPS6 |
| 0.318761915 | < 0.001 | 401992 | OR2T2 |
| 0.318658948 | < 0.001 | 55737 | VPS35 |
| 0.318624377 | < 0.001 | 56160 | NDNL2 |
| 0.318575382 | < 0.001 | 3512 | IGJ |
| 0.318557054 | < 0.001 | 64282 | PAPD5 |
| 0.318532467 | < 0.001 | 54842 | MFSD6 |
| 0.318444431 | < 0.001 | 8111 | GPR68 |
| 0.31829083 | < 0.001 | 10640 | EXOC5 |
| 0.318194568 | < 0.001 | 113730 | KLHDC7B |
| 0.318176836 | < 0.001 | 79139 | DERL1 |
| 0.318167418 | < 0.001 | 50487 | PLA2G3 |
| 0.317984849 | < 0.001 | 84648 | LCE3D |
| 0.317911446 | < 0.001 | 168374 | ZNF92 |
| 0.317895263 | < 0.001 | 3050 | HBZ |
| 0.31788817 | < 0.001 | 644578 | LARP1BP1 |
| 0.317789137 | < 0.001 | 57551 | TAOK1 |
| 0.31777367 | < 0.001 | 56666 | PANX2 |
| 0.317548096 | < 0.001 | 1984 | EIF5A |
| 0.317476869 | < 0.001 | 149175 | MANEAL |
| 0.317419231 | < 0.001 | 84944 | MAEL |
| 0.317377508 | < 0.001 | 2926 | GRSF1 |
| 0.317372948 | < 0.001 | 59285 | CACNG6 |
| 0.317313373 | < 0.001 | 645455 | CEP170L |
| 0.317276925 | < 0.001 | 10424 | PGRMC2 |
| 0.317268521 | < 0.001 | 254173 | TTLL10 |
| 0.317131698 | < 0.001 | 79980 | DSN1 |
| 0.317075789 | < 0.001 | 26512 | INTS6 |
| 0.31688723 | < 0.001 | 8542 | APOL1 |
| 0.316839248 | < 0.001 | 23300 | ATMIN |
| 0.316821277 | < 0.001 | 550631 | CCDC157 |
| 0.316796869 | < 0.001 | 7975 | MAFK |
| 0.316750288 | < 0.001 | 54869 | EPS8L1 |
| 0.316738486 | < 0.001 | 6683 | SPAST |
| 0.316659242 | < 0.001 | 6532 | SLC6A4 |
| 0.316649765 | < 0.001 | 1186 | CLCN7 |
| 0.316615254 | < 0.001 | 29089 | UBE2T |
| 0.316607326 | < 0.001 | 51373 | MRPS17 |
| 0.316428006 | < 0.001 | 146227 | AC132186.2 |
| 0.316425711 | < 0.001 | 440917 | LOC440917 |
| 0.31642136 | < 0.001 | 3954 | LETM1 |
| 0.316406488 | < 0.001 | 90809 | TMEM55B |
| 0.316294163 | < 0.001 | 9352 | TXNL1 |
| 0.316289961 | < 0.001 | 6854 | SYN2 |
| 0.316269577 | < 0.001 | 3008 | HIST1H1E |
| 0.316245317 | < 0.001 | 9779 | TBC1D5 |
| 0.316186637 | < 0.001 | 56606 | SLC2A9 |
| 0.316144943 | < 0.001 | 114571 | SLC22A9 |
| 0.316113025 | < 0.001 | 344387 | CDKL4 |
| 0.316105992 | < 0.001 | 8220 | DGCR14 |
| 0.316091686 | < 0.001 | 148979 | GLIS1 |
| 0.315994918 | < 0.001 | 100134934 | C17ORF106 |
| 0.315917969 | < 0.001 | 84984 | C3orf34 |
| 0.315884173 | < 0.001 | 162993 | ZNF846 |
| 0.315866768 | < 0.001 | 57731 | SPTBN4 |
| 0.315788835 | < 0.001 | 80309 | SPHKAP |
| 0.315700948 | < 0.001 | 23741 | EID1 |
| 0.315574825 | < 0.001 | 8022 | LHX3 |
| 0.315478772 | < 0.001 | 283848 | CES8 |
| 0.315458804 | < 0.001 | 8792 | TNFRSF11A |
| 0.315412492 | < 0.001 | 84707 | BEX2 |
| 0.315340102 | < 0.001 | 80063 | ATF7IP2 |
| 0.315320015 | < 0.001 | 3214 | HOXB4 |
| 0.315277189 | < 0.001 | 55922 | NKRF |
| 0.315272838 | < 0.001 | 6185 | RPN2 |
| 0.315195948 | < 0.001 | 5197 | PF4V1 |
| 0.315165699 | < 0.001 | 84661 | DPY30 |
| 0.315152258 | < 0.001 | 283177 | LOC283177 |
| 0.315138221 | < 0.001 | 55336 | FBXL8 |
| 0.315018088 | < 0.001 | 7108 | TM7SF2 |
| 0.314886451 | < 0.001 | 1803 | DPP4 |
| 0.314874202 | < 0.001 | 81871 | KRTAP4-6 |
| 0.31486237 | < 0.001 | 140461 | ASB8 |
| 0.314792961 | < 0.001 | 27289 | RND1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.441956222 | 0.007444578 | 0.011 | 1 | 8974 | P4HA2 |
| 0.441956222 | 0.007444578 | 0.008 | 1 | 9394 | HS6ST1 |
| 0.441956222 | 0.007444578 | 0.013 | 1 | 84960 | KIAA1984 |
| 0.441956222 | 0.007444578 | 0.015 | 1 | 92370 | ACPL2 |
| 0.441956222 | 0.007444578 | 0.008 | 1 | 148137 | C19orf55 |
| 0.441698849 | 0.007482394 | 0.019 | 1 | 5691 | PSMB3 |
| 0.441698849 | 0.007482394 | 0.013 | 1 | 55034 | MOCOS |
| 0.441441447 | 0.007520374 | 0.011 | 1 | 5295 | PIK3R1 |
| 0.441441447 | 0.007520374 | 0.009 | 1 | 6721 | SREBF2 |
| 0.441441447 | 0.007520374 | 0.014 | 1 | 65267 | WNK3 |
| 0.441184044 | 0.007558549 | 0.016 | 1 | 917 | CD3G |
| 0.441184044 | 0.007558549 | 0.007 | 1 | 7414 | VCL |
| 0.441184044 | 0.007558549 | 0.016 | 1 | 152992 | C4orf23 |
| 0.440669239 | 0.007635354 | 0.013 | 1 | 10286 | BCAS2 |
| 0.440669239 | 0.007635354 | 0.018 | 1 | 200312 | RNF215 |
| 0.440411836 | 0.007674003 | 0.014 | 1 | 23031 | MAST3 |
| 0.440411836 | 0.007674003 | 0.008 | 1 | 64430 | C14orf135 |
| 0.440411836 | 0.007674003 | 0.011 | 1 | 79707 | NOL9 |
| 0.440411836 | 0.007674003 | 0.011 | 1 | 95681 | TSGA14 |
| 0.440411836 | 0.007674003 | 0.016 | 1 | 118424 | UBE2J2 |
| 0.440154433 | 0.007712843 | 0.01 | 1 | 120227 | CYP2R1 |
| 0.440154433 | 0.007712843 | 0.011 | 1 | 166752 | FREM3 |
| 0.440154433 | 0.007712843 | 0.006 | 1 | 222068 | TMED4 |
| 0.440154433 | 0.007712843 | 0.009 | 1 | 441308 | OR4F21 |
| 0.439897031 | 0.007751835 | 0.009 | 1 | 9289 | GPR56 |
| 0.439382225 | 0.007830329 | 0.012 | 1 | 2890 | GRIA1 |
| 0.439382225 | 0.007830329 | 0.016 | 1 | 54959 | ODAM |
| 0.439124823 | 0.007869828 | 0.014 | 1 | 84268 | RPAIN |
| 0.439124823 | 0.007869828 | 0.011 | 1 | 135295 | RP11-63L7.1 |
| 0.43886745 | 0.007909521 | 0.014 | 1 | 1564 | CYP2D7P1 |
| 0.43886745 | 0.007909521 | 0.015 | 1 | 54438 | GFOD1 |
| 0.438610017 | 0.007949368 | 0.018 | 1 | 284 | ANGPT1 |
| 0.438352644 | 0.007989384 | 0.01 | 1 | 4147 | MATN2 |
| 0.438352644 | 0.007989384 | 0.013 | 1 | 10724 | MGEA5 |
| 0.438352644 | 0.007989384 | 0.014 | 1 | 22801 | ITGA11 |
| 0.438352644 | 0.007989384 | 0.011 | 1 | 349667 | RTN4RL2 |
| 0.438095212 | 0.008029581 | 0.007 | 1 | 3214 | HOXB4 |
| 0.438095212 | 0.008029581 | 0.015 | 1 | 6503 | SLA |
| 0.438095212 | 0.008029581 | 0.014 | 1 | 10940 | POP1 |
| 0.438095212 | 0.008029581 | 0.012 | 1 | 24145 | PANX1 |
| 0.438095212 | 0.008029581 | 0.013 | 1 | 29841 | GRHL1 |
| 0.438095212 | 0.008029581 | 0.012 | 1 | 55615 | PRR5 |
| 0.438095212 | 0.008029581 | 0.014 | 1 | 80131 | LRRC8E |
| 0.437837839 | 0.008069962 | 0.011 | 1 | 9921 | RNF10 |
| 0.437837839 | 0.008069962 | 0.019 | 1 | 83643 | CCDC3 |
| 0.437837839 | 0.008069962 | 0.017 | 1 | 221468 | TMEM217 |
| 0.437837839 | 0.008069962 | 0.013 | 1 | 353500 | BMP8A |
| 0.437837839 | 0.008069962 | 0.014 | 1 | 389493 | RP4-725G10.1 |
| 0.437580436 | 0.0081105 | 0.01 | 1 | 64407 | RGS18 |
| 0.437580436 | 0.0081105 | 0.019 | 1 | 388963 | C2orf81 |
| 0.437323034 | 0.008151222 | 0.01 | 1 | 9114 | ATP6V0D1 |
| 0.437323034 | 0.008151222 | 0.017 | 1 | 23092 | ARHGAP26 |
| 0.437323034 | 0.008151222 | 0.012 | 1 | 388165 | UBE2Q2P1 |
| 0.437065631 | 0.008192111 | 0.012 | 1 | 1525 | CXADR |
| 0.437065631 | 0.008192111 | 0.023 | 1 | 3619 | INCENP |
| 0.437065631 | 0.008192111 | 0.005 | 1 | 4277 | MICB |
| 0.437065631 | 0.008192111 | 0.011 | 1 | 64946 | CENPH |
| 0.437065631 | 0.008192111 | 0.011 | 1 | 115098 | CCDC124 |
| 0.436808228 | 0.008233199 | 0.016 | 1 | 997 | CDC34 |
| 0.436808228 | 0.008233199 | 0.012 | 1 | 6185 | RPN2 |
| 0.436808228 | 0.008233199 | 0.012 | 1 | 550643 | LOC550643 |
| 0.436550826 | 0.008274446 | 0.012 | 1 | 2821 | GPI |
| 0.436550826 | 0.008274446 | 0.013 | 1 | 23671 | TMEFF2 |
| 0.436550826 | 0.008274446 | 0.016 | 1 | 26994 | RNF11 |
| 0.436550826 | 0.008274446 | 0.013 | 1 | 346157 | ZNF391 |
| 0.436550826 | 0.008274446 | 0.016 | 1 | 400410 | ST20 |
| 0.436036021 | 0.008357475 | 0.012 | 1 | 25799 | ZNF324 |
| 0.436036021 | 0.008357475 | 0.012 | 1 | 57707 | KIAA1609 |
| 0.436036021 | 0.008357475 | 0.014 | 1 | 83696 | TRAPPC9 |
| 0.436036021 | 0.008357475 | 0.009 | 1 | 440073 | IQSEC3 |
| 0.435778648 | 0.008399253 | 0.01 | 1 | 9637 | FEZ2 |
| 0.435521215 | 0.008441228 | 0.018 | 1 | 1363 | CPE |
| 0.435521215 | 0.008441228 | 0.016 | 1 | 57544 | TXNDC16 |
| 0.435521215 | 0.008441228 | 0.014 | 1 | 90678 | LRSAM1 |
| 0.435263842 | 0.008483375 | 0.015 | 1 | 8764 | TNFRSF14 |
| 0.435263842 | 0.008483375 | 0.017 | 1 | 245711 | SPDYA |
| 0.43500644 | 0.008525694 | 0.012 | 1 | 5297 | PI4KA |
| 0.43500644 | 0.008525694 | 0.009 | 1 | 55521 | TRIM36 |
| 0.43500644 | 0.008525694 | 0.011 | 1 | 55915 | LANCL2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.314676762 | < 0.001 | 348094 | ANKDD1A |
| 0.314626902 | < 0.001 | 29 | ABR |
| 0.314602077 | < 0.001 | 57573 | ZNF471 |
| 0.314576805 | < 0.001 | 654434 | LINC00338 |
| 0.314559311 | < 0.001 | 65108 | MARCKSL1 |
| 0.314498901 | < 0.001 | 25814 | ATXN10 |
| 0.314427048 | < 0.001 | 27018 | NGFRAP1 |
| 0.31439209 | < 0.001 | 27010 | TPK1 |
| 0.314348966 | < 0.001 | 57591 | MKL1 |
| 0.314208835 | < 0.001 | 222642 | BZRPL1 |
| 0.31417799 | < 0.001 | 400578 | KRT16P2 |
| 0.314095765 | < 0.001 | 9382 | COG1 |
| 0.313986212 | < 0.001 | 3423 | IDS |
| 0.313930303 | < 0.001 | 142940 | TRUB1 |
| 0.313834488 | < 0.001 | 54584 | GNB1L |
| 0.313783675 | < 0.001 | 56255 | TMX4 |
| 0.313732564 | < 0.001 | 55588 | MED29 |
| 0.313728899 | < 0.001 | 730101 | RP1-152L7.5 |
| 0.313701212 | < 0.001 | 1173 | AP2M1 |
| 0.313646942 | < 0.001 | 388882 | AP000345.1 |
| 0.31361866 | < 0.001 | 51400 | PPME1 |
| 0.313559592 | < 0.001 | 23284 | LPHN3 |
| 0.313396394 | < 0.001 | 116519 | APOA5 |
| 0.313361049 | < 0.001 | 4843 | NOS2 |
| 0.313245118 | < 0.001 | 51132 | RLIM |
| 0.313113093 | < 0.001 | 6616 | SNAP25 |
| 0.313077301 | < 0.001 | 435 | ASL |
| 0.313073069 | < 0.001 | 440072 | LINC00167 |
| 0.313023865 | < 0.001 | 79072 | FASTKD3 |
| 0.312990546 | < 0.001 | 3361 | HTR5A |
| 0.312969148 | < 0.001 | 9867 | PJA2 |
| 0.312934428 | < 0.001 | 55175 | KLHL11 |
| 0.312915891 | < 0.001 | 92558 | CCDC64 |
| 0.312806785 | < 0.001 | 3188 | HNRNPH2 |
| 0.312791884 | < 0.001 | 3048 | HBG2 |
| 0.312787175 | < 0.001 | 6512 | SLC1A7 |
| 0.312745482 | < 0.001 | 79047 | KCTD15 |
| 0.312732995 | < 0.001 | 1063 | CENPF |
| 0.312676728 | < 0.001 | 205717 | KIAA2018 |
| 0.31265229 | < 0.001 | 9895 | TECPR2 |
| 0.312613338 | < 0.001 | 2967 | GTF2H3 |
| 0.312601447 | < 0.001 | 282991 | BLOC1S2 |
| 0.312588036 | < 0.001 | 5688 | PSMA7 |
| 0.31257242 | < 0.001 | 90780 | PYGO2 |
| 0.31246841 | < 0.001 | 100132247 | NPIPL3 |
| 0.312274873 | < 0.001 | 64407 | RGS18 |
| 0.312269598 | < 0.001 | 1819 | DRG2 |
| 0.312236995 | < 0.001 | 57410 | SCYL1 |
| 0.312221527 | < 0.001 | 79751 | SLC25A22 |
| 0.31188184 | < 0.001 | 23092 | ARHGAP26 |
| 0.311824173 | < 0.001 | 8851 | CDK5R1 |
| 0.311594278 | < 0.001 | 4675 | NAP1L3 |
| 0.311572313 | < 0.001 | 79668 | PARP8 |
| 0.31157124 | < 0.001 | 4850 | CNOT4 |
| 0.311568826 | < 0.001 | 80071 | CCDC15 |
| 0.311514586 | < 0.001 | 646870 | LOC646870 |
| 0.311488867 | < 0.001 | 219738 | C10orf35 |
| 0.311367482 | < 0.001 | 79026 | AHNAK |
| 0.31135115 | < 0.001 | 3843 | IPO5 |
| 0.311260521 | < 0.001 | 389206 | BEND4 |
| 0.311190963 | < 0.001 | 378884 | NHLRC1 |
| 0.310926229 | < 0.001 | 123036 | TC2N |
| 0.310492098 | < 0.001 | 221302 | ZUFSP |
| 0.310378015 | < 0.001 | 9777 | TM9SF4 |
| 0.31025064 | < 0.001 | 283431 | GAS2L3 |
| 0.310195476 | < 0.001 | 5058 | PAK1 |
| 0.310132504 | < 0.001 | 143384 | C10orf46 |
| 0.310121566 | < 0.001 | 23008 | KLHDC10 |
| 0.310051084 | < 0.001 | 440292 | LOC440292 |
| 0.310047835 | < 0.001 | 7879 | RAB7A |
| 0.310023218 | < 0.001 | 10868 | USP20 |
| 0.309947014 | < 0.001 | 56886 | UGCGL1 |
| 0.3098647 | < 0.001 | 390 | RND3 |
| 0.309852719 | < 0.001 | 51606 | ATP6V1H |
| 0.309749961 | < 0.001 | 83855 | KLF16 |
| 0.309719294 | < 0.001 | 4320 | MMP11 |
| 0.309687883 | < 0.001 | 9506 | PAGE4 |
| 0.309544355 | < 0.001 | 23248 | RPRD2 |
| 0.309505016 | < 0.001 | 83696 | TRAPPC9 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.43500644 | 0.008525694 | 0.022 | 1 | 55964 | SEPTIN3 |
| 0.434749037 | 0.008568203 | 0.018 | 1 | 316 | AOX1 |
| 0.434749037 | 0.008568203 | 0.017 | 1 | 8543 | LMO4 |
| 0.434749037 | 0.008568203 | 0.013 | 1 | 23066 | CAND2 |
| 0.434749037 | 0.008568203 | 0.017 | 1 | 30062 | RAX |
| 0.434749037 | 0.008568203 | 0.012 | 1 | 54938 | SARS2 |
| 0.434491634 | 0.008610904 | 0.012 | 1 | 2960 | GTF2E1 |
| 0.434491634 | 0.008610904 | 0.019 | 1 | 55295 | KLHL26 |
| 0.434491634 | 0.008610904 | 0.012 | 1 | 646808 | LOC646808 |
| 0.434234232 | 0.008653768 | 0.012 | 1 | 3116 | HLA-DPB2 |
| 0.434234232 | 0.008653768 | 0.018 | 1 | 3964 | LGALS8 |
| 0.434234232 | 0.008653768 | 0.015 | 1 | 8367 | HIST1H4E |
| 0.434234232 | 0.008653768 | 0.016 | 1 | 26013 | L3MBTL |
| 0.434234232 | 0.008653768 | 0.013 | 1 | 29919 | C18orf8 |
| 0.434234232 | 0.008653768 | 0.01 | 1 | 64282 | PAPD5 |
| 0.434234232 | 0.008653768 | 0.011 | 1 | 83468 | GLT8D2 |
| 0.433976829 | 0.008696826 | 0.012 | 1 | 26043 | UBXN7 |
| 0.433976829 | 0.008696826 | 0.015 | 1 | 64840 | PORCN |
| 0.433719456 | 0.008740058 | 0.012 | 1 | 57821 | C1orf114 |
| 0.433719456 | 0.008740058 | 0.014 | 1 | 139599 | MAGEE2 |
| 0.433204621 | 0.008827107 | 0.016 | 1 | 3790 | KCNS3 |
| 0.433204621 | 0.008827107 | 0.021 | 1 | 64426 | SUDS3 |
| 0.432947218 | 0.008870896 | 0.014 | 1 | 6647 | SOD1 |
| 0.432947218 | 0.008870896 | 0.017 | 1 | 57621 | ZBTB2 |
| 0.432947218 | 0.008870896 | 0.01 | 1 | 116519 | APOA5 |
| 0.432947218 | 0.008870896 | 0.007 | 1 | 140689 | CBLN4 |
| 0.432689816 | 0.00891488 | 0.014 | 1 | 381 | ARF5 |
| 0.432689816 | 0.00891488 | 0.012 | 1 | 79184 | BRCC3 |
| 0.432432443 | 0.008959042 | 0.015 | 1 | 759 | CA1 |
| 0.432432443 | 0.008959042 | 0.011 | 1 | 63974 | NEUROD6 |
| 0.432432443 | 0.008959042 | 0.008 | 1 | 80343 | SEL1L2 |
| 0.432432443 | 0.008959042 | 0.009 | 1 | 84153 | RNASEH2C |
| 0.432432443 | 0.008959042 | 0.014 | 1 | 84769 | MPV17L2 |
| 0.43217501 | 0.009003422 | 0.016 | 1 | 10752 | CHL1 |
| 0.43217501 | 0.009003422 | 0.015 | 1 | 100129321 | LOC100129321 |
| 0.431917638 | 0.009047961 | 0.014 | 1 | 57159 | TRIM54 |
| 0.431917638 | 0.009047961 | 0.018 | 1 | 283489 | ZNF828 |
| 0.431660205 | 0.009092689 | 0.011 | 1 | 1063 | CENPF |
| 0.431660205 | 0.009092689 | 0.019 | 1 | 25903 | OLFML2B |
| 0.431660205 | 0.009092689 | 0.016 | 1 | 51170 | HSD17B11 |
| 0.431660205 | 0.009092689 | 0.019 | 1 | 285659 | OR2V2 |
| 0.431402832 | 0.009137617 | 0.013 | 1 | 5604 | MAP2K1 |
| 0.431402832 | 0.009137617 | 0.014 | 1 | 83931 | STK40 |
| 0.431402832 | 0.009137617 | 0.013 | 1 | 348654 | GEN1 |
| 0.4311454 | 0.009182745 | 0.025 | 1 | 5569 | PKIA |
| 0.4311454 | 0.009182745 | 0.014 | 1 | 7068 | THRB |
| 0.4311454 | 0.009182745 | 0.015 | 1 | 90557 | CCDC74A |
| 0.4311454 | 0.009182745 | 0.018 | 1 | 91860 | CALML4 |
| 0.4311454 | 0.009182745 | 0.015 | 1 | 167555 | FAM151B |
| 0.4311454 | 0.009182745 | 0.014 | 1 | 474343 | SPIN2B |
| 0.430888027 | 0.009228054 | 0.013 | 1 | 2255 | FGF10 |
| 0.430888027 | 0.009228054 | 0.013 | 1 | 7799 | PRDM2 |
| 0.430888027 | 0.009228054 | 0.011 | 1 | 8365 | HIST1H4H |
| 0.430888027 | 0.009228054 | 0.016 | 1 | 23491 | CES3 |
| 0.430888027 | 0.009228054 | 0.012 | 1 | 27012 | KCNV1 |
| 0.430888027 | 0.009228054 | 0.014 | 1 | 58524 | DMRT3 |
| 0.430630624 | 0.009273546 | 0.017 | 1 | 2134 | EXTL1 |
| 0.430630624 | 0.009273546 | 0.011 | 1 | 9203 | ZMYM3 |
| 0.430630624 | 0.009273546 | 0.017 | 1 | 22808 | MRAS |
| 0.430373222 | 0.00931923 | 0.022 | 1 | 55630 | AF205589.2 |
| 0.430373222 | 0.00931923 | 0.013 | 1 | 89932 | PAPLN |
| 0.430373222 | 0.00931923 | 0.008 | 1 | 92255 | LMBRD2 |
| 0.430373222 | 0.00931923 | 0.013 | 1 | 146439 | CCDC64B |
| 0.430373222 | 0.00931923 | 0.018 | 1 | 256158 | HMCN2 |
| 0.430115819 | 0.009365137 | 0.015 | 1 | 1840 | DTX1 |
| 0.430115819 | 0.009365137 | 0.019 | 1 | 7268 | TTC4 |
| 0.430115819 | 0.009365137 | 0.018 | 1 | 10092 | ARPC5 |
| 0.429858446 | 0.009411207 | 0.013 | 1 | 529 | ATP6V1E1 |
| 0.429858446 | 0.009411207 | 0.012 | 1 | 8785 | MATN4 |
| 0.429858446 | 0.009411207 | 0.017 | 1 | 23504 | RIMBP2 |
| 0.429858446 | 0.009411207 | 0.02 | 1 | 84689 | MS4A14 |
| 0.429858446 | 0.009411207 | 0.014 | 1 | 402509 | SLC29A4P1 |
| 0.429601014 | 0.009457483 | 0.018 | 1 | 886 | CCKAR |
| 0.429601014 | 0.009457483 | 0.013 | 1 | 116443 | GRIN3A |
| 0.429601014 | 0.009457483 | 0.014 | 1 | 389898 | UBE2NL |
| 0.429343641 | 0.009503943 | 0.016 | 1 | 55620 | STAP2 |
| 0.429343641 | 0.009503943 | 0.014 | 1 | 57646 | USP28 |
| 0.429343641 | 0.009503943 | 0.018 | 1 | 83756 | TAS1R3 |
| 0.429086208 | 0.009550599 | 0.017 | 1 | 196792 | FAM24B |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.309427708 | < 0.001 | 22843 | PPM1E |
| 0.309373349 | < 0.001 | 56955 | MEPE |
| 0.309372932 | < 0.001 | 92292 | GLYATL1 |
| 0.309197724 | < 0.001 | 10219 | KLRG1 |
| 0.30918774 | < 0.001 | 79829 | NAT11 |
| 0.309163749 | < 0.001 | 89790 | SIGLEC10 |
| 0.309120148 | < 0.001 | 57405 | SPC25 |
| 0.309116006 | < 0.001 | 84973 | SNHG7 |
| 0.309066474 | < 0.001 | 91582 | RPS19BP1 |
| 0.308903605 | < 0.001 | 8672 | EIF4G3 |
| 0.308877856 | < 0.001 | 127018 | LYPLAL1 |
| 0.308686256 | < 0.001 | 53833 | IL20RB |
| 0.308632135 | < 0.001 | 4830 | NME1 |
| 0.308573723 | < 0.001 | 55095 | SAMD4B |
| 0.308571666 | < 0.001 | 80818 | ZNF436 |
| 0.308433294 | < 0.001 | 51194 | IPO11 |
| 0.308398664 | < 0.001 | 8683 | SFRS9 |
| 0.308279783 | < 0.001 | 1452 | CSNK1A1 |
| 0.308260649 | < 0.001 | 1557 | CYP2C19 |
| 0.308228284 | < 0.001 | 23265 | EXOC7 |
| 0.308191001 | < 0.001 | 149647 | FAM71A |
| 0.308068395 | < 0.001 | 4636 | MYL5 |
| 0.308044225 | < 0.001 | 10855 | HPSE |
| 0.308042645 | < 0.001 | 23107 | MRPS27 |
| 0.30800277 | < 0.001 | 10621 | POLR3F |
| 0.307982653 | < 0.001 | 55812 | SPATA7 |
| 0.307960749 | < 0.001 | 9453 | GGPS1 |
| 0.30792439 | < 0.001 | 440107 | PLEKHG7 |
| 0.307796091 | < 0.001 | 643988 | RP11-345P4.1 |
| 0.307662785 | < 0.001 | 84083 | ZRANB3 |
| 0.307620168 | < 0.001 | 5980 | REV3L |
| 0.307381928 | < 0.001 | 6754 | SSTR4 |
| 0.307363749 | < 0.001 | 140902 | R3HDML |
| 0.307329446 | < 0.001 | 6400 | SEL1L |
| 0.307269096 | < 0.001 | 170954 | KIAA1949 |
| 0.307245344 | < 0.001 | 117579 | RLN3 |
| 0.30723393 | < 0.001 | 5210 | PFKFB4 |
| 0.307208687 | < 0.001 | 51263 | MRPL30 |
| 0.307104707 | < 0.001 | 2960 | GTF2E1 |
| 0.30707407 | < 0.001 | 8727 | CTNNAL1 |
| 0.306996852 | < 0.001 | 23481 | PES1 |
| 0.306966841 | < 0.001 | 55852 | TEX2 |
| 0.30694142 | < 0.001 | 55974 | RAG1AP1 |
| 0.306901753 | < 0.001 | 8516 | ITGA8 |
| 0.306864977 | < 0.001 | 3984 | LIMK1 |
| 0.306838095 | < 0.001 | 90956 | ADCK2 |
| 0.306774259 | < 0.001 | 401944 | LDLRAD2 |
| 0.306720793 | < 0.001 | 84072 | HORMAD1 |
| 0.306695729 | < 0.001 | 8815 | BANF1 |
| 0.306523144 | < 0.001 | 83544 | DNAL1 |
| 0.306422204 | < 0.001 | 23047 | PDS5B |
| 0.306381226 | < 0.001 | 10752 | CHL1 |
| 0.306331933 | < 0.001 | 4753 | NELL2 |
| 0.306204706 | < 0.001 | 84622 | ZNF594 |
| 0.306108177 | < 0.001 | 10888 | GPR83 |
| 0.306036532 | < 0.001 | 84449 | ZNF333 |
| 0.306000531 | < 0.001 | 56949 | XAB2 |
| 0.30598852 | < 0.001 | 338442 | NIACR2 |
| 0.305975795 | < 0.001 | 100128553 | CTAGE4 |
| 0.305799067 | < 0.001 | 58475 | MS4A7 |
| 0.305786908 | < 0.001 | 317648 | C4ORF10 |
| 0.305740565 | < 0.001 | 3656 | IRAK2 |
| 0.305723369 | < 0.001 | 64326 | RFWD2 |
| 0.305680811 | < 0.001 | 8030 | CCDC6 |
| 0.305650979 | < 0.001 | 58531 | PRM3 |
| 0.305634081 | < 0.001 | 55074 | OXR1 |
| 0.305626333 | < 0.001 | 8448 | DOC2A |
| 0.305615276 | < 0.001 | 11051 | NUDT21 |
| 0.305598766 | < 0.001 | 5431 | POLR2B |
| 0.305593073 | < 0.001 | 653499 | LGALS7B |
| 0.305592895 | < 0.001 | 100129201 | LOC100129201 |
| 0.305532366 | < 0.001 | 10620 | ARID3B |
| 0.30547756 | < 0.001 | 337880 | KRTAP11-1 |
| 0.305367053 | < 0.001 | 154865 | IQUB |
| 0.305319071 | < 0.001 | 138724 | C9orf131 |
| 0.305224001 | < 0.001 | 147968 | CAPN12 |
| 0.305107296 | < 0.001 | 3109 | HLA-DMB |
| 0.304962188 | < 0.001 | 26984 | SEC22A |
| 0.304904312 | < 0.001 | 123228 | SENP8 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.428828835 | 0.009597483 | 0.019 | 1 | 10409 | BASP1 |
| 0.428828835 | 0.009597483 | 0.01 | 1 | 54518 | APBB1IP |
| 0.428828835 | 0.009597483 | 0.021 | 1 | 58510 | PRODH2 |
| 0.428571403 | 0.009644533 | 0.018 | 1 | 4486 | MST1R |
| 0.428571403 | 0.009644533 | 0.021 | 1 | 132671 | SPATA18 |
| 0.42831403 | 0.00969179 | 0.016 | 1 | 9766 | KIAA0247 |
| 0.42831403 | 0.00969179 | 0.02 | 1 | 387890 | AC002563.2 |
| 0.428056628 | 0.009739236 | 0.017 | 1 | 4830 | NME1 |
| 0.428056628 | 0.009739236 | 0.017 | 1 | 23613 | ZMYND8 |
| 0.428056628 | 0.009739236 | 0.019 | 1 | 91283 | MSANTD3 |
| 0.428056628 | 0.009739236 | 0.017 | 1 | 91300 | C19orf22 |
| 0.427799225 | 0.009786902 | 0.013 | 1 | 137902 | PXDNL |
| 0.427541822 | 0.009834757 | 0.015 | 1 | 11142 | PKIG |
| 0.427541822 | 0.009834757 | 0.022 | 1 | 79143 | LENG4 |
| 0.427541822 | 0.009834757 | 0.012 | 1 | 128646 | SIRPD |
| 0.427284449 | 0.009882802 | 0.018 | 1 | 8317 | CDC7 |
| 0.427027017 | 0.00993106 | 0.015 | 1 | 83648 | FAM167A |
| 0.427027017 | 0.00993106 | 0.018 | 1 | 134111 | UBE2QL1 |
| 0.427027017 | 0.00993106 | 0.022 | 1 | 148534 | TMEM56 |
| 0.426769644 | 0.00997953 | 0.009 | 1 | 1002 | CDH4 |
| 0.426769644 | 0.00997953 | 0.008 | 1 | 84632 | AFAP1L2 |
| 0.426769644 | 0.00997953 | 0.014 | 1 | 554206 | LOC554206 |
| 0.426512212 | 0.010028181 | 0.019 | 1 | 8988 | HSPB3 |
| 0.426254809 | 0.010077045 | 0.016 | 1 | 653140 | AC008073.2 |
| 0.425997406 | 0.010126103 | 0.017 | 1 | 1606 | DGKA |
| 0.425997406 | 0.010126103 | 0.019 | 1 | 23108 | GARNL4 |
| 0.425740004 | 0.010175371 | 0.015 | 1 | 5898 | RALA |
| 0.425740004 | 0.010175371 | 0.019 | 1 | 8854 | ALDH1A2 |
| 0.425740004 | 0.010175371 | 0.016 | 1 | 55545 | MSX2P1 |
| 0.425740004 | 0.010175371 | 0.009 | 1 | 57616 | TSHZ3 |
| 0.425740004 | 0.010175371 | 0.017 | 1 | 84871 | AGBL4 |
| 0.425482631 | 0.010224866 | 0.027 | 1 | 4061 | LY6E |
| 0.425482631 | 0.010224866 | 0.013 | 1 | 80223 | RAB11FIP1 |
| 0.425225198 | 0.010274539 | 0.017 | 1 | 4200 | ME2 |
| 0.425225198 | 0.010274539 | 0.012 | 1 | 5529 | PPP2R5E |
| 0.424967825 | 0.010324431 | 0.019 | 1 | 11264 | PXMP4 |
| 0.424967825 | 0.010324431 | 0.017 | 1 | 100288540 | POM121B |
| 0.424710393 | 0.010374518 | 0.018 | 1 | 197 | AHSG |
| 0.424710393 | 0.010374518 | 0.022 | 1 | 8600 | TNFSF11 |
| 0.424710393 | 0.010374518 | 0.015 | 1 | 51010 | EXOSC3 |
| 0.424710393 | 0.010374518 | 0.017 | 1 | 57190 | SEPN1 |
| 0.424710393 | 0.010374518 | 0.016 | 1 | 84321 | THOC3 |
| 0.42445302 | 0.010424848 | 0.012 | 1 | 92335 | STRADA |
| 0.424195617 | 0.010475351 | 0.007 | 1 | 10870 | HCST |
| 0.424195617 | 0.010475351 | 0.022 | 1 | 11033 | ADAP1 |
| 0.424195617 | 0.010475351 | 0.016 | 1 | 23657 | SLC7A11 |
| 0.424195617 | 0.010475351 | 0.027 | 1 | 55215 | FANCI |
| 0.424195617 | 0.010475351 | 0.015 | 1 | 253143 | C22orf30 |
| 0.423938215 | 0.010526065 | 0.012 | 1 | 10098 | TSPAN5 |
| 0.423938215 | 0.010526065 | 0.018 | 1 | 92912 | UBE2Q2 |
| 0.423938215 | 0.010526065 | 0.017 | 1 | 100131801 | PET100 |
| 0.423423409 | 0.010628135 | 0.022 | 1 | 8131 | C16orf35 |
| 0.423423409 | 0.010628135 | 0.013 | 1 | 112755 | STX1B |
| 0.423166007 | 0.010679515 | 0.017 | 1 | 220202 | ATOH7 |
| 0.422908634 | 0.010731074 | 0.023 | 1 | 10006 | ABI1 |
| 0.422908634 | 0.010731074 | 0.02 | 1 | 57498 | KIDINS220 |
| 0.422908634 | 0.010731074 | 0.025 | 1 | 83544 | DNAL1 |
| 0.422908634 | 0.010731074 | 0.017 | 1 | 100288198 | LOC100288198 |
| 0.422651201 | 0.010782844 | 0.016 | 1 | 10424 | PGRMC2 |
| 0.422651201 | 0.010782844 | 0.022 | 1 | 54472 | TOLLIP |
| 0.422393829 | 0.010834835 | 0.013 | 1 | 23581 | CASP14 |
| 0.422393829 | 0.010834835 | 0.02 | 1 | 27345 | KCNMB4 |
| 0.422393829 | 0.010834835 | 0.015 | 1 | 57167 | SALL4 |
| 0.422393829 | 0.010834835 | 0.022 | 1 | 60559 | SPCS3 |
| 0.422393829 | 0.010834835 | 0.015 | 1 | 286183 | NKAIN3 |
| 0.422136396 | 0.010887064 | 0.012 | 1 | 826 | CAPNS1 |
| 0.422136396 | 0.010887064 | 0.011 | 1 | 9672 | SDC3 |
| 0.421879023 | 0.010939483 | 0.015 | 1 | 3954 | LETM1 |
| 0.421879023 | 0.010939483 | 0.016 | 1 | 4301 | MLLT4 |
| 0.421879023 | 0.010939483 | 0.019 | 1 | 28988 | DBNL |
| 0.421879023 | 0.010939483 | 0.018 | 1 | 134353 | LSM11 |
| 0.421879023 | 0.010939483 | 0.019 | 1 | 338699 | ANKRD42 |
| 0.421621621 | 0.01099212 | 0.02 | 1 | 100128511 | RP11-565H13.2 |
| 0.421364218 | 0.011044967 | 0.021 | 1 | 3241 | HPCAL1 |
| 0.421364218 | 0.011044967 | 0.02 | 1 | 54932 | EXD3 |
| 0.421364218 | 0.011044967 | 0.012 | 1 | 55617 | TASP1 |
| 0.421364218 | 0.011044967 | 0.025 | 1 | 401577 | CD99P1 |
| 0.421106815 | 0.011098064 | 0.015 | 1 | 11202 | KLK8 |
| 0.420849413 | 0.011151346 | 0.011 | 1 | 53616 | ADAM22 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.30489549 | < 0.001 | 4288 | MKI67 |
| 0.304806799 | < 0.001 | 29081 | METTL5 |
| 0.30477652 | < 0.001 | 341568 | OR8S1 |
| 0.304749638 | < 0.001 | 7567 | ZNF19 |
| 0.304735839 | < 0.001 | 25797 | QPCT |
| 0.304719537 | < 0.001 | 494143 | CHAC2 |
| 0.304618865 | < 0.001 | 57414 | RHBDD2 |
| 0.304601043 | < 0.001 | 2849 | GPR26 |
| 0.30459553 | < 0.001 | 167838 | TXLNB |
| 0.304555357 | < 0.001 | 644128 | RPL23AP53 |
| 0.304546118 | < 0.001 | 5511 | PPP1R8 |
| 0.304453433 | < 0.001 | 51552 | RAB14 |
| 0.304395348 | < 0.001 | 100169851 | PATE3 |
| 0.304355085 | < 0.001 | 50508 | NOX3 |
| 0.304275841 | < 0.001 | 25930 | PTPN23 |
| 0.304207206 | < 0.001 | 26100 | WIPI2 |
| 0.304038078 | < 0.001 | 57565 | KLHL14 |
| 0.303803891 | < 0.001 | 7621 | ZNF70 |
| 0.303683341 | < 0.001 | 64376 | IKZF5 |
| 0.303585172 | < 0.001 | 85300 | ATCAY |
| 0.303567588 | < 0.001 | 6688 | SPI1 |
| 0.303547531 | < 0.001 | 5793 | PTPRG |
| 0.303517908 | < 0.001 | 25903 | OLFML2B |
| 0.303516656 | < 0.001 | 81570 | CLPB |
| 0.303435445 | < 0.001 | 813 | CALU |
| 0.303204387 | < 0.001 | 283991 | FAM100B |
| 0.303145915 | < 0.001 | 440043 | PGAM1P8 |
| 0.303108007 | < 0.001 | 9651 | PLCH2 |
| 0.303052276 | < 0.001 | 6881 | TAF10 |
| 0.302998215 | < 0.001 | 1089 | CEACAM4 |
| 0.302925408 | < 0.001 | 30845 | EHD3 |
| 0.302919298 | < 0.001 | 54944 | AC073548.1 |
| 0.30277878 | < 0.001 | 10940 | POP1 |
| 0.302721888 | < 0.001 | 2271 | FH |
| 0.302696645 | < 0.001 | 337972 | KRTAP19-5 |
| 0.302693069 | < 0.001 | 4104 | MAGEA5 |
| 0.30265379 | < 0.001 | 283489 | ZNF828 |
| 0.302596629 | < 0.001 | 8882 | ZNF259 |
| 0.302560508 | < 0.001 | 79873 | NUDT18 |
| 0.302455038 | < 0.001 | 4884 | NPTX1 |
| 0.302443773 | < 0.001 | 6821 | SUOX |
| 0.302395165 | < 0.001 | 23144 | ZC3H3 |
| 0.302360505 | < 0.001 | 146433 | IL34 |
| 0.302221954 | < 0.001 | 80345 | ZNF435 |
| 0.302204132 | < 0.001 | 390637 | C15orf58 |
| 0.302123785 | < 0.001 | 23369 | PUM2 |
| 0.30207625 | < 0.001 | 51388 | NIP7 |
| 0.301899344 | < 0.001 | 51222 | ZNF219 |
| 0.301810741 | < 0.001 | 56888 | KCMF1 |
| 0.301677287 | < 0.001 | 8504 | PEX3 |
| 0.301529408 | < 0.001 | 50486 | G0S2 |
| 0.301481545 | < 0.001 | 91156 | IGFN1 |
| 0.301475823 | < 0.001 | 200942 | KLHDC8B |
| 0.301463157 | < 0.001 | 150590 | C2orf15 |
| 0.30135107 | < 0.001 | 6941 | TCF19 |
| 0.301300496 | < 0.001 | 392145 | LOC392145 |
| 0.301252633 | < 0.001 | 144448 | TSPAN19 |
| 0.301252007 | < 0.001 | 6526 | SLC5A3 |
| 0.301186323 | < 0.001 | 100130386 | LINC00552 |
| 0.301175267 | < 0.001 | 387775 | SLC22A10 |
| 0.301089406 | < 0.001 | 10135 | PBEF1 |
| 0.301065177 | < 0.001 | 220992 | ZNF485 |
| 0.301022768 | < 0.001 | 92691 | TMEM169 |
| 0.300986528 | < 0.001 | 4361 | MRE11A |
| 0.300817639 | < 0.001 | 54938 | SARS2 |
| 0.300773263 | < 0.001 | 6713 | SQLE |
| 0.300745428 | < 0.001 | 4285 | MIPEP |
| 0.300655782 | < 0.001 | 4130 | MAP1A |
| 0.30058983 | < 0.001 | 254359 | ZDHHC24 |
| 0.30057174 | < 0.001 | 84524 | ZC3H8 |
| 0.300571531 | < 0.001 | 10533 | ATG7 |
| 0.300561756 | < 0.001 | 29099 | COMMD9 |
| 0.300514251 | < 0.001 | 11052 | CPSF6 |
| 0.300420552 | < 0.001 | 285148 | IAH1 |
| 0.300378114 | < 0.001 | 83756 | TAS1R3 |
| 0.300361633 | < 0.001 | 10408 | MYCNOS |
| 0.300339878 | < 0.001 | 65123 | INTS3 |
| 0.3003079 | < 0.001 | 317662 | FAM149B1 |
| 0.30017361 | < 0.001 | 23199 | KIAA0182 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.420849413 | 0.011151346 | 0.02 | 1 | 100288346 | AP000880.1 |
| 0.42059201 | 0.011204853 | 0.014 | 1 | 2769 | GNA15 |
| 0.42059201 | 0.011204853 | 0.022 | 1 | 9208 | LRRFIP1 |
| 0.42059201 | 0.011204853 | 0.025 | 1 | 29789 | OLA1 |
| 0.42059201 | 0.011204853 | 0.019 | 1 | 220388 | CCDC89 |
| 0.420334637 | 0.011258571 | 0.013 | 1 | 55692 | LUC7L |
| 0.420334637 | 0.011258571 | 0.016 | 1 | 147965 | FAM98C |
| 0.420077205 | 0.011312517 | 0.016 | 1 | 9502 | XAGE2B |
| 0.420077205 | 0.011312517 | 0.012 | 1 | 199800 | C19orf76 |
| 0.419819832 | 0.011366708 | 0.021 | 1 | 9643 | MORF4L2 |
| 0.419819832 | 0.011366708 | 0.018 | 1 | 57001 | ACN9 |
| 0.419819832 | 0.011366708 | 0.017 | 1 | 65982 | ZSCAN18 |
| 0.419819832 | 0.011366708 | 0.02 | 1 | 112611 | RWDD2A |
| 0.419819832 | 0.011366708 | 0.02 | 1 | 170261 | ZCCHC12 |
| 0.419562399 | 0.011421096 | 0.017 | 1 | 8507 | ENC1 |
| 0.419562399 | 0.011421096 | 0.021 | 1 | 54602 | NDFIP2 |
| 0.419562399 | 0.011421096 | 0.013 | 1 | 154865 | IQUB |
| 0.419304997 | 0.011475705 | 0.022 | 1 | 155 | ADRB3 |
| 0.419304997 | 0.011475705 | 0.013 | 1 | 5824 | PEX19 |
| 0.419304997 | 0.011475705 | 0.02 | 1 | 51155 | HN1 |
| 0.419304997 | 0.011475705 | 0.023 | 1 | 225689 | MAPK15 |
| 0.419304997 | 0.011475705 | 0.028 | 1 | 642943 | LOC642943 |
| 0.419047624 | 0.011530533 | 0.017 | 1 | 3780 | KCNN1 |
| 0.419047624 | 0.011530533 | 0.008 | 1 | 9536 | PTGES |
| 0.419047624 | 0.011530533 | 0.008 | 1 | 23074 | UHRF1BP1L |
| 0.419047624 | 0.011530533 | 0.019 | 1 | 25940 | FAM98A |
| 0.419047624 | 0.011530533 | 0.017 | 1 | 57542 | KLHDC5 |
| 0.419047624 | 0.011530533 | 0.024 | 1 | 84830 | C6orf105 |
| 0.419047624 | 0.011530533 | 0.022 | 1 | 128408 | BHLHE23 |
| 0.419047624 | 0.011530533 | 0.015 | 1 | 130733 | TMEM178 |
| 0.418790191 | 0.011585613 | 0.019 | 1 | 3050 | HBZ |
| 0.418790191 | 0.011585613 | 0.02 | 1 | 3909 | LAMA3 |
| 0.418790191 | 0.011585613 | 0.022 | 1 | 11001 | SLC27A2 |
| 0.418790191 | 0.011585613 | 0.019 | 1 | 22924 | MAPRE3 |
| 0.418790191 | 0.011585613 | 0.017 | 1 | 79672 | FN3KRP |
| 0.418790191 | 0.011585613 | 0.022 | 1 | 200933 | FBXO45 |
| 0.418532819 | 0.011640895 | 0.016 | 1 | 10783 | NEK6 |
| 0.418532819 | 0.011640895 | 0.024 | 1 | 374739 | TEPP |
| 0.418275386 | 0.011696401 | 0.008 | 1 | 21 | ABCA3 |
| 0.418275386 | 0.011696401 | 0.023 | 1 | 4288 | MKI67 |
| 0.418275386 | 0.011696401 | 0.017 | 1 | 25942 | SIN3A |
| 0.418275386 | 0.011696401 | 0.016 | 1 | 29087 | THYN1 |
| 0.418275386 | 0.011696401 | 0.026 | 1 | 91461 | SGK493 |
| 0.418018013 | 0.011752132 | 0.015 | 1 | 55738 | ARFGAP1 |
| 0.418018013 | 0.011752132 | 0.014 | 1 | 100170841 | C17orf96 |
| 0.417760611 | 0.011808117 | 0.021 | 1 | 65992 | DDRGK1 |
| 0.417760611 | 0.011808117 | 0.016 | 1 | 79589 | RNF128 |
| 0.417760611 | 0.011808117 | 0.019 | 1 | 730101 | RP1-152L7.5 |
| 0.417503208 | 0.011864296 | 0.028 | 1 | 1414 | CRYBB1 |
| 0.417503208 | 0.011864296 | 0.02 | 1 | 51313 | C4orf18 |
| 0.417503208 | 0.011864296 | 0.023 | 1 | 55752 | SEPTIN11 |
| 0.417503208 | 0.011864296 | 0.018 | 1 | 126382 | NR2C2AP |
| 0.417245805 | 0.01192071 | 0.008 | 1 | 1643 | DDB2 |
| 0.417245805 | 0.01192071 | 0.022 | 1 | 3775 | KCNK1 |
| 0.417245805 | 0.01192071 | 0.026 | 1 | 6038 | RNASE4 |
| 0.416988403 | 0.011977348 | 0.018 | 1 | 810 | CALML3 |
| 0.416988403 | 0.011977348 | 0.023 | 1 | 54536 | EXOC6 |
| 0.416988403 | 0.011977348 | 0.013 | 1 | 64208 | POPDC3 |
| 0.416731 | 0.012034226 | 0.032 | 1 | 83693 | HSDL1 |
| 0.416731 | 0.012034226 | 0.019 | 1 | 503639 | DUXAP10 |
| 0.416473627 | 0.012091348 | 0.013 | 1 | 57134 | MAN1C1 |
| 0.416473627 | 0.012091348 | 0.024 | 1 | 79677 | SMC6 |
| 0.416216195 | 0.012148682 | 0.012 | 1 | 7182 | NR2C2 |
| 0.416216195 | 0.012148682 | 0.019 | 1 | 9935 | MAFB |
| 0.415958822 | 0.012206248 | 0.022 | 1 | 8707 | B3GALT2 |
| 0.415958822 | 0.012206248 | 0.022 | 1 | 94030 | LRRC4B |
| 0.415701389 | 0.012264041 | 0.023 | 1 | 5431 | POLR2B |
| 0.415701389 | 0.012264041 | 0.014 | 1 | 9556 | C14orf2 |
| 0.415701389 | 0.012264041 | 0.022 | 1 | 9895 | TECPR2 |
| 0.415701389 | 0.012264041 | 0.019 | 1 | 79632 | FAM184A |
| 0.415701389 | 0.012264041 | 0.024 | 1 | 125875 | CLDND2 |
| 0.415186614 | 0.012380364 | 0.016 | 1 | 2986 | GUCY2F |
| 0.415186614 | 0.012380364 | 0.024 | 1 | 9901 | SRGAP3 |
| 0.415186614 | 0.012380364 | 0.021 | 1 | 55814 | BDP1 |
| 0.415186614 | 0.012380364 | 0.026 | 1 | 252839 | TMEM9 |
| 0.414929211 | 0.012438864 | 0.021 | 1 | 6633 | SNRPD2 |
| 0.414929211 | 0.012438864 | 0.026 | 1 | 11311 | VPS45 |
| 0.414929211 | 0.012438864 | 0.011 | 1 | 619208 | C6orf225 |
| 0.414671808 | 0.0124976 | 0.015 | 1 | 139716 | GAB3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.300165027 | < 0.001 | 220213 | OTUD1 |
| 0.300161958 | < 0.001 | 344382 | LOC344382 |
| 0.300148308 | < 0.001 | 203259 | C9orf25 |
| 0.300143898 | < 0.001 | 339524 | LOC339524 |
| 0.300124347 | < 0.001 | 79982 | DNAJB14 |
| 0.300123096 | < 0.001 | 112950 | MED8 |
| 0.300090164 | < 0.001 | 7036 | TFR2 |
| 0.300036222 | < 0.001 | 23262 | HISPPD1 |
| 0.300035954 | < 0.001 | 22943 | DKK1 |
| 0.299961865 | < 0.001 | 286023 | AC009365.1 |
| 0.299917996 | < 0.001 | 266977 | GPR110 |
| 0.299909592 | < 0.001 | 768 | CA9 |
| 0.299767971 | < 0.001 | 131055 | LOC131055 |
| 0.299767315 | < 0.001 | 6659 | SOX4 |
| 0.299722463 | < 0.001 | 2209 | FCGR1A |
| 0.299651831 | < 0.001 | 51155 | HN1 |
| 0.299583077 | < 0.001 | 55034 | MOCOS |
| 0.299559593 | < 0.001 | 64946 | CENPH |
| 0.299434215 | < 0.001 | 7090 | TLE3 |
| 0.299389631 | < 0.001 | 8808 | IL1RL2 |
| 0.299238443 | < 0.001 | 2243 | FGA |
| 0.299188584 | < 0.001 | 29995 | LMCD1 |
| 0.299034417 | < 0.001 | 9194 | SLC16A7 |
| 0.298822045 | < 0.001 | 84203 | TXNDC2 |
| 0.298758566 | < 0.001 | 51022 | GLRX2 |
| 0.298700005 | < 0.001 | 55450 | CAMK2N1 |
| 0.298568249 | < 0.001 | 9474 | ATG5 |
| 0.298321486 | < 0.001 | 155382 | VPS37D |
| 0.29827112 | < 0.001 | 126695 | C1orf172 |
| 0.298262984 | < 0.001 | 80271 | ITPKC |
| 0.298145324 | < 0.001 | 51086 | TNNI3K |
| 0.298047811 | < 0.001 | 79898 | ZNF613 |
| 0.298027396 | < 0.001 | 27099 | SND1-IT1 |
| 0.297958106 | < 0.001 | 63893 | UBE2O |
| 0.297798574 | < 0.001 | 5172 | SLC26A4 |
| 0.29779458 | < 0.001 | 28992 | MACROD1 |
| 0.297788709 | < 0.001 | 4709 | NDUFB3 |
| 0.297619879 | < 0.001 | 1400 | CRMP1 |
| 0.297528595 | < 0.001 | 5685 | PSMA4 |
| 0.297502458 | < 0.001 | 3425 | IDUA |
| 0.297328651 | < 0.001 | 64396 | GMCL1P1 |
| 0.297294527 | < 0.001 | 6358 | CCL14 |
| 0.297126532 | < 0.001 | 147906 | DACT3 |
| 0.297116548 | < 0.001 | 55028 | C17orf80 |
| 0.29704845 | < 0.001 | 2865 | AC002511.1 |
| 0.296858847 | < 0.001 | 5432 | POLR2C |
| 0.296809256 | < 0.001 | 127602 | DNAH14 |
| 0.296743691 | < 0.001 | 8744 | TNFSF9 |
| 0.296742767 | < 0.001 | 8446 | DUSP11 |
| 0.296449035 | < 0.001 | 3062 | HCRTR2 |
| 0.296397775 | < 0.001 | 9992 | KCNE2 |
| 0.296387017 | < 0.001 | 158763 | RP13-102H20.1 |
| 0.296379954 | < 0.001 | 9597 | SMAD5OS |
| 0.296307981 | < 0.001 | 728224 | KRTAP4-8 |
| 0.296285868 | < 0.001 | 27245 | AHDC1 |
| 0.29627046 | < 0.001 | 659 | BMPR2 |
| 0.296214491 | < 0.001 | 55699 | IARS2 |
| 0.296169043 | < 0.001 | 9071 | CLDN10 |
| 0.296155959 | < 0.001 | 126402 | CCDC105 |
| 0.296119273 | < 0.001 | 728215 | FAM155A |
| 0.295909494 | < 0.001 | 196792 | FAM24B |
| 0.295818239 | < 0.001 | 137886 | UBXN2B |
| 0.295757413 | < 0.001 | 197 | AHSG |
| 0.295710385 | < 0.001 | 51062 | ATL1 |
| 0.295642555 | < 0.001 | 3216 | HOXB6 |
| 0.295639515 | < 0.001 | 8363 | HIST1H4J |
| 0.295624942 | < 0.001 | 387597 | ILDR2 |
| 0.295619458 | < 0.001 | 80344 | WDR23 |
| 0.295586854 | < 0.001 | 220965 | FAM13C |
| 0.295575321 | < 0.001 | 26232 | FBXO2 |
| 0.295540214 | < 0.001 | 28512 | NKIRAS1 |
| 0.295530885 | < 0.001 | 129868 | TRIM43 |
| 0.295400679 | < 0.001 | 3176 | HNMT |
| 0.295330614 | < 0.001 | 10564 | ARFGEF2 |
| 0.295313001 | < 0.001 | 9742 | IFT140 |
| 0.295309007 | < 0.001 | 6335 | SCN9A |
| 0.295217723 | < 0.001 | 84896 | ATAD1 |
| 0.295157045 | < 0.001 | 6445 | SGCG |
| 0.295065969 | < 0.001 | 4200 | ME2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.414671808 | 0.0124976 | 0.022 | 1 | 729313 | LOC729313 |
| 0.414414406 | 0.012556599 | 0.012 | 1 | 939 | CD27 |
| 0.414414406 | 0.012556599 | 0.023 | 1 | 54733 | SLC35F2 |
| 0.414414406 | 0.012556599 | 0.015 | 1 | 63877 | FAM204A |
| 0.414157003 | 0.012615808 | 0.02 | 1 | 7251 | TSG101 |
| 0.414157003 | 0.012615808 | 0.023 | 1 | 149647 | FAM71A |
| 0.41389963 | 0.01267525 | 0.018 | 1 | 140459 | ASB6 |
| 0.41389963 | 0.01267525 | 0.033 | 1 | 167838 | TXLNB |
| 0.41389963 | 0.01267525 | 0.029 | 1 | 284352 | LRRC68 |
| 0.41389963 | 0.01267525 | 0.019 | 1 | 402381 | SOHLH1 |
| 0.413642198 | 0.012734929 | 0.017 | 1 | 55294 | FBXW7 |
| 0.413384825 | 0.012794862 | 0.018 | 1 | 55039 | TRMT12 |
| 0.413384825 | 0.012794862 | 0.02 | 1 | 83855 | KLF16 |
| 0.413127393 | 0.012855047 | 0.017 | 1 | 1000 | CDH2 |
| 0.413127393 | 0.012855047 | 0.028 | 1 | 79072 | FASTKD3 |
| 0.413127393 | 0.012855047 | 0.013 | 1 | 80184 | CEP290 |
| 0.413127393 | 0.012855047 | 0.022 | 1 | 138715 | ARID3C |
| 0.41287002 | 0.012915459 | 0.027 | 1 | 84072 | HORMAD1 |
| 0.412612617 | 0.012976101 | 0.026 | 1 | 6462 | SHBG |
| 0.412612617 | 0.012976101 | 0.023 | 1 | 116372 | LYPD1 |
| 0.412355185 | 0.013036985 | 0.023 | 1 | 7529 | YWHAB |
| 0.412355185 | 0.013036985 | 0.03 | 1 | 123624 | AGBL1 |
| 0.412355185 | 0.013036985 | 0.02 | 1 | 341277 | OVCH2 |
| 0.412355185 | 0.013036985 | 0.024 | 1 | 100288929 | LOC100288929 |
| 0.412097812 | 0.013098152 | 0.019 | 1 | 4843 | NOS2 |
| 0.411840379 | 0.013159524 | 0.017 | 1 | 337985 | KRTAP20-3 |
| 0.411583006 | 0.013221152 | 0.022 | 1 | 894 | CCND2 |
| 0.411583006 | 0.013221152 | 0.027 | 1 | 9777 | TM9SF4 |
| 0.411583006 | 0.013221152 | 0.021 | 1 | 80152 | CENPT |
| 0.411325604 | 0.013283013 | 0.022 | 1 | 388567 | ZNF749 |
| 0.411068201 | 0.013345155 | 0.018 | 1 | 23312 | DMXL2 |
| 0.410810798 | 0.013407516 | 0.028 | 1 | 8848 | TSC22D1 |
| 0.410810798 | 0.013407516 | 0.024 | 1 | 11218 | DDX20 |
| 0.410810798 | 0.013407516 | 0.026 | 1 | 51121 | RPL26L1 |
| 0.410810798 | 0.013407516 | 0.022 | 1 | 90416 | C15orf57 |
| 0.410810798 | 0.013407516 | 0.024 | 1 | 340811 | AKR1CL1 |
| 0.410553396 | 0.013470119 | 0.02 | 1 | 51440 | HPCAL4 |
| 0.410553396 | 0.013470119 | 0.024 | 1 | 51499 | TRIAP1 |
| 0.410553396 | 0.013470119 | 0.015 | 1 | 152302 | CIDECP |
| 0.410553396 | 0.013470119 | 0.027 | 1 | 389649 | C8orf86 |
| 0.410295993 | 0.013532983 | 0.025 | 1 | 273 | AMPH |
| 0.410295993 | 0.013532983 | 0.012 | 1 | 7066 | THPO |
| 0.410295993 | 0.013532983 | 0.016 | 1 | 55142 | HAUS2 |
| 0.410295993 | 0.013532983 | 0.018 | 1 | 143187 | VTI1A |
| 0.410295993 | 0.013532983 | 0.027 | 1 | 152189 | CMTM8 |
| 0.41003862 | 0.013596083 | 0.023 | 1 | 7139 | TNNT2 |
| 0.41003862 | 0.013596083 | 0.019 | 1 | 64168 | NECAB1 |
| 0.409781188 | 0.013659461 | 0.03 | 1 | 5833 | PCYT2 |
| 0.409781188 | 0.013659461 | 0.022 | 1 | 79722 | ANKRD55 |
| 0.409266382 | 0.013786931 | 0.019 | 1 | 57526 | PCDH19 |
| 0.40900901 | 0.013851049 | 0.023 | 1 | 822 | CAPG |
| 0.40900901 | 0.013851049 | 0.023 | 1 | 2642 | GCGR |
| 0.40900901 | 0.013851049 | 0.04 | 1 | 6557 | SLC12A1 |
| 0.40900901 | 0.013851049 | 0.026 | 1 | 10827 | FAM114A2 |
| 0.40900901 | 0.013851049 | 0.014 | 1 | 54431 | DNAJC10 |
| 0.40900901 | 0.013851049 | 0.024 | 1 | 63934 | ZNF667 |
| 0.40900901 | 0.013851049 | 0.029 | 1 | 100133941 | CD24 |
| 0.408751607 | 0.013915436 | 0.018 | 1 | 9764 | KIAA0513 |
| 0.408751607 | 0.013915436 | 0.02 | 1 | 83719 | YPEL3 |
| 0.408751607 | 0.013915436 | 0.021 | 1 | 90135 | BTBD6 |
| 0.408751607 | 0.013915436 | 0.016 | 1 | 140456 | ASB11 |
| 0.408751607 | 0.013915436 | 0.022 | 1 | 374654 | KIF7 |
| 0.408494204 | 0.013980049 | 0.023 | 1 | 1759 | DNM1 |
| 0.408494204 | 0.013980049 | 0.02 | 1 | 80204 | FBXO11 |
| 0.408494204 | 0.013980049 | 0.029 | 1 | 285676 | ZNF454 |
| 0.408236802 | 0.014044932 | 0.022 | 1 | 51097 | SCCPDH |
| 0.407979399 | 0.014110055 | 0.015 | 1 | 7781 | SLC30A3 |
| 0.407979399 | 0.014110055 | 0.021 | 1 | 54457 | TAF7L |
| 0.407979399 | 0.014110055 | 0.029 | 1 | 285704 | RGMB |
| 0.407721996 | 0.014175464 | 0.019 | 1 | 84239 | ATP13A4 |
| 0.407721996 | 0.014175464 | 0.022 | 1 | 260425 | MAGI3 |
| 0.407721996 | 0.014175464 | 0.025 | 1 | 653505 | PPIAL4B |
| 0.407464623 | 0.014241118 | 0.022 | 1 | 27147 | DENND2A |
| 0.407464623 | 0.014241118 | 0.032 | 1 | 729603 | LOC729603 |
| 0.407207191 | 0.014307013 | 0.02 | 1 | 6597 | SMARCA4 |
| 0.407207191 | 0.014307013 | 0.018 | 1 | 55210 | ATAD3A |
| 0.406949818 | 0.014373181 | 0.019 | 1 | 2312 | FLG |
| 0.406949818 | 0.014373181 | 0.023 | 1 | 10518 | CIB2 |
| 0.406949818 | 0.014373181 | 0.02 | 1 | 55203 | LGI2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.295012623 | < 0.001 | 7170 | TPM3 |
| 0.295005709 | < 0.001 | 140628 | GATA5 |
| 0.295004427 | < 0.001 | 54566 | EPB41L4B |
| 0.295001626 | < 0.001 | 8822 | FGF17 |
| 0.294979423 | < 0.001 | 2903 | GRIN2A |
| 0.294948727 | < 0.001 | 79810 | PTCD2 |
| 0.294920176 | < 0.001 | 388567 | ZNF749 |
| 0.294843286 | < 0.001 | 4645 | MYO5B |
| 0.294530064 | < 0.001 | 79882 | ZC3H14 |
| 0.29451403 | < 0.001 | 4817 | NIT1 |
| 0.294469863 | < 0.001 | 286006 | C7orf53 |
| 0.294427723 | < 0.001 | 55610 | CCDC132 |
| 0.294314057 | < 0.001 | 29934 | SNX12 |
| 0.294292033 | < 0.001 | 58504 | ARHGAP22 |
| 0.294240862 | < 0.001 | 51491 | NOP16 |
| 0.294224024 | < 0.001 | 9830 | TRIM14 |
| 0.294184357 | < 0.001 | 283970 | PDXDC2 |
| 0.294160068 | < 0.001 | 203 | AK1 |
| 0.294063717 | < 0.001 | 57449 | PLEKHG5 |
| 0.293956697 | < 0.001 | 286234 | C9orf79 |
| 0.293883443 | < 0.001 | 6711 | SPTBN1 |
| 0.293830156 | < 0.001 | 80204 | FBXO11 |
| 0.29380694 | < 0.001 | 11075 | STMN2 |
| 0.29372552 | < 0.001 | 200810 | ALG1L |
| 0.293541461 | < 0.001 | 60312 | AFAP1 |
| 0.293499649 | < 0.001 | 55319 | C4orf43 |
| 0.293475419 | < 0.001 | 130535 | KCTD18 |
| 0.29344663 | < 0.001 | 5599 | MAPK8 |
| 0.293439627 | < 0.001 | 1745 | DLX1 |
| 0.293402463 | < 0.001 | 54677 | CROT |
| 0.293291956 | < 0.001 | 10092 | ARPC5 |
| 0.293284804 | < 0.001 | 254102 | EHBP1L1 |
| 0.29328388 | < 0.001 | 54585 | LZTFL1 |
| 0.293254912 | < 0.001 | 11021 | RAB35 |
| 0.293247074 | < 0.001 | 128977 | C22orf39 |
| 0.293235421 | < 0.001 | 170691 | ADAMTS17 |
| 0.293232113 | < 0.001 | 84302 | TMEM246 |
| 0.293141484 | < 0.001 | 51005 | AMDHD2 |
| 0.293111891 | < 0.001 | 23108 | GARNL4 |
| 0.293049961 | < 0.001 | 55132 | LARP1B |
| 0.293025672 | < 0.001 | 284352 | LRRC68 |
| 0.29297635 | < 0.001 | 55860 | ACTR10 |
| 0.292969584 | < 0.001 | 645453 | RLIMP3 |
| 0.292958766 | < 0.001 | 90324 | CCDC97 |
| 0.292934954 | < 0.001 | 124739 | USP43 |
| 0.292899042 | < 0.001 | 148231 | AC114273.1 |
| 0.292837054 | < 0.001 | 126272 | EID2B |
| 0.292768806 | < 0.001 | 284573 | C1orf157 |
| 0.292709917 | < 0.001 | 440400 | RNASEK |
| 0.292564869 | < 0.001 | 7341 | SUMO1 |
| 0.292558312 | < 0.001 | 115098 | CCDC124 |
| 0.292451978 | < 0.001 | 51377 | UCHL5 |
| 0.29236415 | < 0.001 | 100128139 | LOC100128139 |
| 0.292363226 | < 0.001 | 9807 | IP6K1 |
| 0.292358428 | < 0.001 | 347516 | DGAT2L6 |
| 0.292341024 | < 0.001 | 401993 | OR2T5 |
| 0.29227528 | < 0.001 | 8514 | KCNAB2 |
| 0.292197257 | < 0.001 | 257397 | MAP3K7IP3 |
| 0.292182177 | < 0.001 | 8310 | ACOX3 |
| 0.292178363 | < 0.001 | 732253 | RP11-535K1.1 |
| 0.292102128 | < 0.001 | 2673 | GFPT1 |
| 0.29210034 | < 0.001 | 219968 | OR5B21 |
| 0.292098463 | < 0.001 | 1007 | CDH9 |
| 0.29207778 | < 0.001 | 10908 | PNPLA6 |
| 0.292070955 | < 0.001 | 23787 | MTCH1 |
| 0.29204914 | < 0.001 | 26173 | INTS1 |
| 0.291962415 | < 0.001 | 26043 | UBXN7 |
| 0.291956723 | < 0.001 | 55634 | ZNF673 |
| 0.291875839 | < 0.001 | 64748 | AC024575.2 |
| 0.291816592 | < 0.001 | 140807 | KRT72 |
| 0.291767836 | < 0.001 | 51441 | YTHDF2 |
| 0.291717649 | < 0.001 | 27290 | SPINK4 |
| 0.291508019 | < 0.001 | 118471 | PRAP1 |
| 0.291440964 | < 0.001 | 83481 | EPPK1 |
| 0.29142797 | < 0.001 | 8747 | ADAM21 |
| 0.291156501 | < 0.001 | 113691 | AC002472.8 |
| 0.291150302 | < 0.001 | 23333 | DPY19L1 |
| 0.291148663 | < 0.001 | 79095 | C9orf16 |
| 0.291120529 | < 0.001 | 83982 | IFI27L2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.406949818 | 0.014373181 | 0.025 | 1 | 55558 | PLXNA3 |
| 0.406949818 | 0.014373181 | 0.021 | 1 | 56949 | XAB2 |
| 0.406692386 | 0.014439595 | 0.015 | 1 | 1621 | DBH |
| 0.406692386 | 0.014439595 | 0.019 | 1 | 2647 | BLOC1S1 |
| 0.406692386 | 0.014439595 | 0.024 | 1 | 25830 | SULT4A1 |
| 0.406692386 | 0.014439595 | 0.018 | 1 | 91409 | CCDC74B |
| 0.406692386 | 0.014439595 | 0.024 | 1 | 136051 | ZNF786 |
| 0.406435013 | 0.0145063 | 0.02 | 1 | 51232 | CRIM1 |
| 0.406435013 | 0.0145063 | 0.018 | 1 | 63939 | C20orf177 |
| 0.406435013 | 0.0145063 | 0.018 | 1 | 148231 | AC114273.1 |
| 0.40617761 | 0.01457325 | 0.017 | 1 | 6051 | RNPEP |
| 0.40617761 | 0.01457325 | 0.024 | 1 | 57761 | TRIB3 |
| 0.40617761 | 0.01457325 | 0.022 | 1 | 145814 | AC069029.1 |
| 0.405920208 | 0.014640447 | 0.019 | 1 | 1893 | ECM1 |
| 0.405920208 | 0.014640447 | 0.028 | 1 | 4314 | MMP3 |
| 0.405920208 | 0.014640447 | 0.016 | 1 | 55176 | SEC61A2 |
| 0.405920208 | 0.014640447 | 0.023 | 1 | 90523 | C6orf142 |
| 0.405662805 | 0.014707925 | 0.037 | 1 | 1608 | DGKG |
| 0.405662805 | 0.014707925 | 0.024 | 1 | 1984 | EIF5A |
| 0.405662805 | 0.014707925 | 0.02 | 1 | 51510 | CHMP5 |
| 0.405662805 | 0.014707925 | 0.021 | 1 | 80025 | PANK2 |
| 0.405662805 | 0.014707925 | 0.018 | 1 | 389073 | C2orf80 |
| 0.405405372 | 0.014775679 | 0.016 | 1 | 8761 | PABPC4 |
| 0.405405372 | 0.014775679 | 0.032 | 1 | 81849 | ST6GALNAC5 |
| 0.405148 | 0.014843669 | 0.03 | 1 | 5798 | PTPRN |
| 0.405148 | 0.014843669 | 0.028 | 1 | 57648 | KIAA1522 |
| 0.405148 | 0.014843669 | 0.037 | 1 | 64320 | RNF25 |
| 0.405148 | 0.014843669 | 0.031 | 1 | 84832 | ANKRD36BL1 |
| 0.405148 | 0.014843669 | 0.019 | 1 | 126306 | JSRP1 |
| 0.405148 | 0.014843669 | 0.021 | 1 | 284355 | TPRX1 |
| 0.404633194 | 0.014980458 | 0.029 | 1 | 6611 | SMS |
| 0.404633194 | 0.014980458 | 0.022 | 1 | 9453 | GGPS1 |
| 0.404633194 | 0.014980458 | 0.025 | 1 | 23498 | HAAO |
| 0.404633194 | 0.014980458 | 0.025 | 1 | 51388 | NIP7 |
| 0.404633194 | 0.014980458 | 0.013 | 1 | 93627 | AC004053.1 |
| 0.404375792 | 0.015049292 | 0.017 | 1 | 23129 | PLXND1 |
| 0.404375792 | 0.015049292 | 0.021 | 1 | 57132 | CHMP1B |
| 0.404118389 | 0.015118347 | 0.025 | 1 | 158293 | FAM120AOS |
| 0.403860986 | 0.015187671 | 0.026 | 1 | 23271 | CAMSAP1L1 |
| 0.403860986 | 0.015187671 | 0.02 | 1 | 57157 | PHTF2 |
| 0.403860986 | 0.015187671 | 0.027 | 1 | 114900 | C1QTNF4 |
| 0.403860986 | 0.015187671 | 0.025 | 1 | 149603 | RNF187 |
| 0.403860986 | 0.015187671 | 0.027 | 1 | 339210 | C17orf67 |
| 0.403603613 | 0.01525728 | 0.027 | 1 | 1501 | CTNND2 |
| 0.403603613 | 0.01525728 | 0.024 | 1 | 219333 | USP12 |
| 0.403603613 | 0.01525728 | 0.02 | 1 | 442517 | LOC442517 |
| 0.403346181 | 0.015327144 | 0.023 | 1 | 2823 | GPM6A |
| 0.403346181 | 0.015327144 | 0.031 | 1 | 6654 | SOS1 |
| 0.403346181 | 0.015327144 | 0.024 | 1 | 7143 | TNR |
| 0.403346181 | 0.015327144 | 0.03 | 1 | 122876 | GPHB5 |
| 0.403346181 | 0.015327144 | 0.022 | 1 | 132001 | C3orf31 |
| 0.403088808 | 0.015397327 | 0.014 | 1 | 839 | CASP6 |
| 0.403088808 | 0.015397327 | 0.023 | 1 | 4915 | NTRK2 |
| 0.403088808 | 0.015397327 | 0.016 | 1 | 8822 | FGF17 |
| 0.403088808 | 0.015397327 | 0.017 | 1 | 79798 | ARMC5 |
| 0.403088808 | 0.015397327 | 0.026 | 1 | 125488 | TTC39C |
| 0.403088808 | 0.015397327 | 0.027 | 1 | 282991 | BLOC1S2 |
| 0.402831376 | 0.015467734 | 0.024 | 1 | 5395 | PMS2 |
| 0.402831376 | 0.015467734 | 0.017 | 1 | 8315 | BRAP |
| 0.402831376 | 0.015467734 | 0.025 | 1 | 84102 | SLC41A2 |
| 0.402574003 | 0.015538413 | 0.02 | 1 | 377 | ARF3 |
| 0.402574003 | 0.015538413 | 0.02 | 1 | 84923 | FAM104A |
| 0.402574003 | 0.015538413 | 0.017 | 1 | 192111 | PGAM5 |
| 0.4023166 | 0.015609383 | 0.024 | 1 | 9033 | PKD2L1 |
| 0.4023166 | 0.015609383 | 0.016 | 1 | 54756 | IL17RD |
| 0.4023166 | 0.015609383 | 0.023 | 1 | 90488 | C12orf23 |
| 0.402059197 | 0.015680641 | 0.012 | 1 | 662 | BNIP1 |
| 0.402059197 | 0.015680641 | 0.02 | 1 | 89837 | FAM7A3 |
| 0.401801795 | 0.015752161 | 0.029 | 1 | 100131187 | RP11-544M22.1 |
| 0.401544392 | 0.01582394 | 0.022 | 1 | 3714 | JAG2 |
| 0.401544392 | 0.01582394 | 0.025 | 1 | 84620 | ST6GAL2 |
| 0.401544392 | 0.01582394 | 0.023 | 1 | 222865 | TMEM130 |
| 0.401286989 | 0.015895996 | 0.025 | 1 | 5575 | PRKAR1B |
| 0.401286989 | 0.015895996 | 0.027 | 1 | 5714 | PSMD8 |
| 0.401286989 | 0.015895996 | 0.023 | 1 | 10203 | CALCRL |
| 0.401286989 | 0.015895996 | 0.019 | 1 | 84140 | FAM161A |
| 0.401029617 | 0.015968347 | 0.033 | 1 | 6855 | SYP |
| 0.401029617 | 0.015968347 | 0.02 | 1 | 9819 | TSC22D2 |
| 0.401029617 | 0.015968347 | 0.027 | 1 | 80055 | PGAP1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.291014194 | < 0.001 | 84128 | WDR75 |
| 0.290992558 | < 0.001 | 23317 | DNAJC13 |
| 0.290935665 | < 0.001 | 53942 | CNTN5 |
| 0.290925145 | < 0.001 | 310 | ANXA7 |
| 0.290810823 | < 0.001 | 9201 | DCLK1 |
| 0.290784955 | < 0.001 | 9097 | USP14 |
| 0.290691167 | < 0.001 | 10116 | FEM1B |
| 0.290600896 | < 0.001 | 147381 | CBLN2 |
| 0.290572107 | < 0.001 | 147841 | SPC24 |
| 0.290567875 | < 0.001 | 55471 | C2orf56 |
| 0.290548205 | < 0.001 | 55584 | CHRNA9 |
| 0.290464103 | < 0.001 | 3725 | JUN |
| 0.290421516 | < 0.001 | 57150 | C6orf162 |
| 0.290419906 | < 0.001 | 5217 | PFN2 |
| 0.29039228 | < 0.001 | 55170 | PRMT6 |
| 0.290347606 | < 0.001 | 29887 | SNX10 |
| 0.290303439 | < 0.001 | 8562 | DENR |
| 0.290298283 | < 0.001 | 10059 | DNM1L |
| 0.290260226 | < 0.001 | 284355 | TPRX1 |
| 0.290080369 | < 0.001 | 862 | RUNX1T1 |
| 0.289995313 | < 0.001 | 1622 | DBI |
| 0.289827824 | < 0.001 | 55859 | BEX1 |
| 0.289815992 | < 0.001 | 90525 | SHF |
| 0.289806575 | < 0.001 | 64320 | RNF25 |
| 0.289772063 | < 0.001 | 245973 | ATP6V1C2 |
| 0.289723128 | < 0.001 | 11047 | ADRM1 |
| 0.289705843 | < 0.001 | 126370 | OR1I1 |
| 0.289663583 | < 0.001 | 2056 | EPO |
| 0.289433241 | < 0.001 | 81696 | OR5V1 |
| 0.289430231 | < 0.001 | 642696 | AC007601.1 |
| 0.2894288 | < 0.001 | 338645 | LUZP2 |
| 0.289380908 | < 0.001 | 171024 | SYNPO2 |
| 0.289379328 | < 0.001 | 54432 | YIPF1 |
| 0.289364338 | < 0.001 | 400456 | CTD-2536I1.1 |
| 0.289340436 | < 0.001 | 1193 | CLIC2 |
| 0.289027095 | < 0.001 | 387104 | AL096711.2 |
| 0.289008051 | < 0.001 | 5201 | PFDN1 |
| 0.288812906 | < 0.001 | 10951 | CBX1 |
| 0.288732141 | < 0.001 | 57402 | S100A14 |
| 0.288651228 | < 0.001 | 8462 | KLF11 |
| 0.28864941 | < 0.001 | 4781 | NFIB |
| 0.288644314 | < 0.001 | 10190 | TXNDC9 |
| 0.288552701 | < 0.001 | 7454 | WAS |
| 0.288545996 | < 0.001 | 58530 | LY6G6D |
| 0.288459361 | < 0.001 | 8908 | GYG2 |
| 0.288389206 | < 0.001 | 25897 | RNF19A |
| 0.288290888 | < 0.001 | 203859 | ANO5 |
| 0.288167298 | < 0.001 | 22873 | DZIP1 |
| 0.287975103 | < 0.001 | 9853 | RUSC2 |
| 0.287949532 | < 0.001 | 66000 | TMEM108 |
| 0.287701666 | < 0.001 | 57692 | MAGEE1 |
| 0.287669897 | < 0.001 | 80152 | CENPT |
| 0.287611395 | < 0.001 | 9154 | SLC28A1 |
| 0.287590444 | < 0.001 | 23530 | NNT |
| 0.287551731 | < 0.001 | 9521 | EEF1E1 |
| 0.287540317 | < 0.001 | 145282 | MIPOL1 |
| 0.287513226 | < 0.001 | 140775 | SMCR8 |
| 0.287405938 | < 0.001 | 114905 | C1QTNF7 |
| 0.287390411 | < 0.001 | 63950 | DMRTA2 |
| 0.287293613 | < 0.001 | 126003 | TRAPPC5 |
| 0.287145168 | < 0.001 | 3620 | IDO1 |
| 0.287076622 | < 0.001 | 89872 | AQP10 |
| 0.287042886 | < 0.001 | 441666 | LOC441666 |
| 0.287015289 | < 0.001 | 8925 | HERC1 |
| 0.286985159 | < 0.001 | 440345 | 61E3.4 |
| 0.286977112 | < 0.001 | 887 | CCKBR |
| 0.286936164 | < 0.001 | 146723 | C17orf77 |
| 0.286923945 | < 0.001 | 83930 | STARD3NL |
| 0.286922067 | < 0.001 | 60682 | SMAP1 |
| 0.286846519 | < 0.001 | 163778 | SPRR4 |
| 0.286712825 | < 0.001 | 4883 | NPR3 |
| 0.286661893 | < 0.001 | 55621 | TRMT1 |
| 0.2865569 | < 0.001 | 7480 | WNT10B |
| 0.286477357 | < 0.001 | 9568 | GABBR2 |
| 0.286441296 | < 0.001 | 1551 | CYP3A7 |
| 0.286440164 | < 0.001 | 9229 | DLGAP1 |
| 0.286392152 | < 0.001 | 60559 | SPCS3 |
| 0.286358953 | < 0.001 | 51026 | GOLT1B |
| 0.286346108 | < 0.001 | 9603 | NFE2L3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.400772184 | 0.016040992 | 0.02 | 1 | 52 | ACP1 |
| 0.400772184 | 0.016040992 | 0.035 | 1 | 10920 | COPS8 |
| 0.400257379 | 0.01618707 | 0.023 | 1 | 5140 | PDE3B |
| 0.400257379 | 0.01618707 | 0.023 | 1 | 10886 | NPFFR2 |
| 0.400257379 | 0.01618707 | 0.024 | 1 | 26059 | ERC2 |
| 0.400257379 | 0.01618707 | 0.026 | 1 | 55706 | TMEM48 |
| 0.400257379 | 0.01618707 | 0.022 | 1 | 84911 | ZNF382 |
| 0.400257379 | 0.01618707 | 0.027 | 1 | 128371 | OR6K6 |
| 0.400000006 | 0.016260525 | 0.017 | 1 | 5980 | REV3L |
| 0.400000006 | 0.016260525 | 0.02 | 1 | 6804 | STX1A |
| 0.399742603 | 0.01633431 | 0.021 | 1 | 5342 | PLGLB2 |
| 0.399742603 | 0.01633431 | 0.032 | 1 | 55173 | MRPS10 |
| 0.399742603 | 0.01633431 | 0.036 | 1 | 199720 | GGN |
| 0.399742603 | 0.01633431 | 0.029 | 1 | 340385 | ZNF517 |
| 0.399485201 | 0.016408328 | 0.028 | 1 | 3159 | HMGA1 |
| 0.399485201 | 0.016408328 | 0.035 | 1 | 3242 | HPD |
| 0.399485201 | 0.016408328 | 0.03 | 1 | 9947 | MAGEC1 |
| 0.399485201 | 0.016408328 | 0.029 | 1 | 54545 | MTMR12 |
| 0.399485201 | 0.016408328 | 0.037 | 1 | 65080 | MRPL44 |
| 0.399485201 | 0.016408328 | 0.025 | 1 | 85300 | ATCAY |
| 0.399227798 | 0.016482646 | 0.023 | 1 | 56660 | KCNK12 |
| 0.399227798 | 0.016482646 | 0.024 | 1 | 157376 | FER1L6-AS2 |
| 0.398970395 | 0.016557232 | 0.03 | 1 | 1404 | HAPLN1 |
| 0.398970395 | 0.016557232 | 0.024 | 1 | 54998 | AURKAIP1 |
| 0.398970395 | 0.016557232 | 0.03 | 1 | 149628 | PYHIN1 |
| 0.398970395 | 0.016557232 | 0.024 | 1 | 727837 | SSX2B |
| 0.398712993 | 0.016632138 | 0.023 | 1 | 57631 | LRCH2 |
| 0.398712993 | 0.016632138 | 0.026 | 1 | 124801 | LSM12 |
| 0.39845559 | 0.016707312 | 0.028 | 1 | 8120 | AP3B2 |
| 0.39845559 | 0.016707312 | 0.031 | 1 | 29798 | C2orf27A |
| 0.39845559 | 0.016707312 | 0.024 | 1 | 59350 | RXFP1 |
| 0.39845559 | 0.016707312 | 0.026 | 1 | 152138 | PYDC2 |
| 0.398198187 | 0.016782759 | 0.032 | 1 | 2232 | FDXR |
| 0.398198187 | 0.016782759 | 0.024 | 1 | 5912 | RAP2B |
| 0.398198187 | 0.016782759 | 0.031 | 1 | 11074 | TRIM31 |
| 0.398198187 | 0.016782759 | 0.027 | 1 | 50944 | SHANK1 |
| 0.397940785 | 0.016858498 | 0.019 | 1 | 6455 | SH3GL1 |
| 0.397940785 | 0.016858498 | 0.025 | 1 | 27319 | BHLHE22 |
| 0.397940785 | 0.016858498 | 0.022 | 1 | 55845 | BRK1 |
| 0.397940785 | 0.016858498 | 0.025 | 1 | 79605 | PGBD5 |
| 0.397940785 | 0.016858498 | 0.022 | 1 | 339965 | CCDC158 |
| 0.397683382 | 0.016934531 | 0.027 | 1 | 55662 | HIF1AN |
| 0.397683382 | 0.016934531 | 0.023 | 1 | 338879 | RNASE10 |
| 0.397683382 | 0.016934531 | 0.023 | 1 | 341640 | FREM2 |
| 0.397425979 | 0.017010875 | 0.027 | 1 | 4295 | MLN |
| 0.397425979 | 0.017010875 | 0.036 | 1 | 146177 | VWA3A |
| 0.397425979 | 0.017010875 | 0.03 | 1 | 553158 | ARHGAP8 |
| 0.397168607 | 0.017087493 | 0.031 | 1 | 26512 | INTS6 |
| 0.397168607 | 0.017087493 | 0.033 | 1 | 28968 | SLC6A16 |
| 0.397168607 | 0.017087493 | 0.021 | 1 | 29123 | ANKRD11 |
| 0.397168607 | 0.017087493 | 0.027 | 1 | 91966 | CXorf40A |
| 0.396911174 | 0.017164389 | 0.02 | 1 | 4883 | NPR3 |
| 0.396911174 | 0.017164389 | 0.024 | 1 | 60487 | TRMT11 |
| 0.396653801 | 0.017241584 | 0.033 | 1 | 832 | CAPZB |
| 0.396653801 | 0.017241584 | 0.02 | 1 | 3742 | KCNA6 |
| 0.396653801 | 0.017241584 | 0.018 | 1 | 9228 | DLGAP2 |
| 0.396396369 | 0.017319106 | 0.028 | 1 | 153642 | ARSK |
| 0.396138996 | 0.017396878 | 0.029 | 1 | 1861 | TOR1A |
| 0.396138996 | 0.017396878 | 0.026 | 1 | 9326 | ZNHIT3 |
| 0.396138996 | 0.017396878 | 0.035 | 1 | 79729 | C1orf113 |
| 0.395881593 | 0.017474962 | 0.034 | 1 | 55315 | SLC29A3 |
| 0.395881593 | 0.017474962 | 0.028 | 1 | 151009 | LOC151009 |
| 0.395881593 | 0.017474962 | 0.038 | 1 | 375790 | AGRN |
| 0.395624191 | 0.017553328 | 0.033 | 1 | 7342 | UBP1 |
| 0.395624191 | 0.017553328 | 0.025 | 1 | 64375 | IKZF4 |
| 0.395624191 | 0.017553328 | 0.031 | 1 | 646870 | LOC646870 |
| 0.395366788 | 0.017632039 | 0.02 | 1 | 11047 | ADRM1 |
| 0.395366788 | 0.017632039 | 0.024 | 1 | 60412 | EXOC4 |
| 0.395366788 | 0.017632039 | 0.023 | 1 | 170690 | ADAMTS16 |
| 0.395109385 | 0.017710999 | 0.025 | 1 | 4208 | MEF2C |
| 0.395109385 | 0.017710999 | 0.031 | 1 | 84708 | LNX1 |
| 0.395109385 | 0.017710999 | 0.029 | 1 | 401992 | OR2T2 |
| 0.394851983 | 0.017790254 | 0.028 | 1 | 3299 | HSF4 |
| 0.394851983 | 0.017790254 | 0.03 | 1 | 10345 | TRDN |
| 0.394851983 | 0.017790254 | 0.025 | 1 | 56940 | DUSP22 |
| 0.394851983 | 0.017790254 | 0.035 | 1 | 161142 | C14orf54 |
| 0.39459461 | 0.017869817 | 0.035 | 1 | 10528 | NOP56 |
| 0.39459461 | 0.017869817 | 0.041 | 1 | 23204 | ARL6IP1 |
| 0.39459461 | 0.017869817 | 0.026 | 1 | 54957 | TXNL4B |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.286318839 | < 0.001 | 6870 | TACR3 |
| 0.286229283 | < 0.001 | 7762 | ZNF215 |
| 0.286206096 | < 0.001 | 441381 | LRRC24 |
| 0.286176234 | < 0.001 | 84671 | ZNF347 |
| 0.286064893 | < 0.001 | 375519 | GJB7 |
| 0.286062121 | < 0.001 | 3607 | FOXK2 |
| 0.286007196 | < 0.001 | 150538 | AC017096.1 |
| 0.285962552 | < 0.001 | 25794 | FSCN2 |
| 0.285955876 | < 0.001 | 140689 | CBLN4 |
| 0.285948992 | < 0.001 | 55129 | ANO10 |
| 0.28593725 | < 0.001 | 643446 | RNPS1P1 |
| 0.285900205 | < 0.001 | 11281 | POU6F2 |
| 0.28574276 | < 0.001 | 57478 | USP31 |
| 0.285672814 | < 0.001 | 55079 | FEZF2 |
| 0.285655886 | < 0.001 | 1571 | CYP2E1 |
| 0.285632133 | < 0.001 | 80831 | APOL5 |
| 0.28542766 | < 0.001 | 343263 | MYBPHL |
| 0.285389066 | < 0.001 | 10971 | YWHAQ |
| 0.285388976 | < 0.001 | 203238 | C9orf93 |
| 0.285306424 | < 0.001 | 23396 | PIP5K1C |
| 0.285228699 | < 0.001 | 10046 | MAMLD1 |
| 0.285208762 | < 0.001 | 3202 | HOXA5 |
| 0.28520149 | < 0.001 | 990 | CDC6 |
| 0.285172492 | < 0.001 | 51686 | OAZ3 |
| 0.285125285 | < 0.001 | 56136 | PCDHA13 |
| 0.28504923 | < 0.001 | 51329 | ARL6IP4 |
| 0.284999043 | < 0.001 | 266811 | NPSA |
| 0.284970343 | < 0.001 | 4620 | MYH2 |
| 0.284858346 | < 0.001 | 140706 | C20orf160 |
| 0.284843624 | < 0.001 | 1303 | COL12A1 |
| 0.284823418 | < 0.001 | 6885 | MAP3K7 |
| 0.284811825 | < 0.001 | 146325 | C16orf11 |
| 0.284796119 | < 0.001 | 4012 | LNPEP |
| 0.284778982 | < 0.001 | 9622 | KLK4 |
| 0.284679562 | < 0.001 | 283219 | KCTD21 |
| 0.284642786 | < 0.001 | 79187 | FSD1 |
| 0.284561217 | < 0.001 | 1418 | CRYGA |
| 0.284542233 | < 0.001 | 116349 | C5orf55 |
| 0.284493297 | < 0.001 | 84102 | SLC41A2 |
| 0.284479171 | < 0.001 | 389073 | C2orf80 |
| 0.28447184 | < 0.001 | 146547 | PRSS36 |
| 0.284353763 | < 0.001 | 7514 | XPO1 |
| 0.284192592 | < 0.001 | 23767 | FLRT3 |
| 0.284036994 | < 0.001 | 23349 | KIAA1045 |
| 0.284006029 | < 0.001 | 50801 | KCNK4 |
| 0.283941418 | < 0.001 | 5001 | ORC5L |
| 0.283899456 | < 0.001 | 84069 | PLEKHN1 |
| 0.283870101 | < 0.001 | 80727 | TTYH3 |
| 0.283821106 | < 0.001 | 23518 | R3HDM1 |
| 0.283791959 | < 0.001 | 10447 | FAM3C |
| 0.283788532 | < 0.001 | 4142 | MAS1 |
| 0.283761978 | < 0.001 | 10213 | PSMD14 |
| 0.283751935 | < 0.001 | 1154 | CISH |
| 0.283537596 | < 0.001 | 29989 | OBP2B |
| 0.283456624 | < 0.001 | 9652 | TTC37 |
| 0.283361018 | < 0.001 | 64333 | ARHGAP9 |
| 0.283354461 | < 0.001 | 431705 | ASTL |
| 0.283266723 | < 0.001 | 553158 | ARHGAP8 |
| 0.283258438 | < 0.001 | 1291 | COL6A1 |
| 0.283237964 | < 0.001 | 23510 | KCTD2 |
| 0.283083171 | < 0.001 | 80055 | PGAP1 |
| 0.282909453 | < 0.001 | 57616 | TSHZ3 |
| 0.282906353 | < 0.001 | 84312 | BRMS1L |
| 0.282816261 | < 0.001 | 402778 | AC068580.3 |
| 0.282630354 | < 0.001 | 27287 | VENTX |
| 0.282585263 | < 0.001 | 9493 | KIF23 |
| 0.282554656 | < 0.001 | 10982 | MAPRE2 |
| 0.282497793 | < 0.001 | 55908 | AC011472.2 |
| 0.282404065 | < 0.001 | 8368 | HIST1H4L |
| 0.282403976 | < 0.001 | 10737 | RFPL3S |
| 0.282209158 | < 0.001 | 346389 | MACC1 |
| 0.282178879 | < 0.001 | 23214 | XPO6 |
| 0.282176316 | < 0.001 | 118424 | UBE2J2 |
| 0.282146245 | < 0.001 | 4776 | NFATC4 |
| 0.282081842 | < 0.001 | 26102 | DKFZP434A062 |
| 0.282048345 | < 0.001 | 9140 | ATG12 |
| 0.282026291 | < 0.001 | 113802 | C1orf59 |
| 0.282021016 | < 0.001 | 80179 | MYO19 |
| 0.28197217 | < 0.001 | 57547 | ZNF624 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.39459461 | 0.017869817 | 0.022 | 1 | 55968 | NSFL1C |
| 0.39459461 | 0.017869817 | 0.027 | 1 | 133686 | C5orf33 |
| 0.39459461 | 0.017869817 | 0.029 | 1 | 375484 | C5orf25 |
| 0.394337177 | 0.017949682 | 0.03 | 1 | 9478 | CABP1 |
| 0.394337177 | 0.017949682 | 0.031 | 1 | 114769 | CARD16 |
| 0.394337177 | 0.017949682 | 0.022 | 1 | 400954 | EML6 |
| 0.394079804 | 0.018029882 | 0.032 | 1 | 9215 | LARGE |
| 0.393822372 | 0.018110352 | 0.031 | 1 | 1996 | ELAVL4 |
| 0.393822372 | 0.018110352 | 0.033 | 1 | 22931 | RAB18 |
| 0.393822372 | 0.018110352 | 0.024 | 1 | 60560 | MAK10 |
| 0.393822372 | 0.018110352 | 0.023 | 1 | 285190 | RGPD4 |
| 0.393564999 | 0.018191112 | 0.026 | 1 | 5080 | PAX6 |
| 0.393564999 | 0.018191112 | 0.024 | 1 | 8882 | ZNF259 |
| 0.393564999 | 0.018191112 | 0.037 | 1 | 57179 | KIAA1191 |
| 0.393564999 | 0.018191112 | 0.032 | 1 | 81031 | SLC2A10 |
| 0.393307596 | 0.018272186 | 0.018 | 1 | 5437 | POLR2H |
| 0.393307596 | 0.018272186 | 0.024 | 1 | 27339 | PRPF19 |
| 0.393307596 | 0.018272186 | 0.02 | 1 | 284309 | ZNF776 |
| 0.393307596 | 0.018272186 | 0.029 | 1 | 375449 | MAST4 |
| 0.392792791 | 0.018435284 | 0.027 | 1 | 2350 | FOLR2 |
| 0.392792791 | 0.018435284 | 0.02 | 1 | 65012 | SLC26A10 |
| 0.392792791 | 0.018435284 | 0.03 | 1 | 255631 | COL24A1 |
| 0.392535388 | 0.018517267 | 0.022 | 1 | 129285 | KLRAQ1 |
| 0.392277986 | 0.018599564 | 0.023 | 1 | 492303 | GEMIN8P4 |
| 0.392020613 | 0.018682206 | 0.023 | 1 | 4674 | NAP1L2 |
| 0.392020613 | 0.018682206 | 0.023 | 1 | 57403 | RAB22A |
| 0.39176318 | 0.018765122 | 0.028 | 1 | 9887 | SMG7 |
| 0.39176318 | 0.018765122 | 0.03 | 1 | 23365 | ARHGEF12 |
| 0.39176318 | 0.018765122 | 0.034 | 1 | 139886 | SPIN4 |
| 0.391505778 | 0.018848347 | 0.036 | 1 | 25789 | TMEM59L |
| 0.391505778 | 0.018848347 | 0.017 | 1 | 343990 | C2orf55 |
| 0.391248375 | 0.018931873 | 0.034 | 1 | 80232 | WDR26 |
| 0.391248375 | 0.018931873 | 0.025 | 1 | 83637 | ZMIZ2 |
| 0.391248375 | 0.018931873 | 0.026 | 1 | 161931 | ADAD2 |
| 0.391248375 | 0.018931873 | 0.024 | 1 | 730153 | LOC730153 |
| 0.3907336 | 0.019099917 | 0.022 | 1 | 2885 | GRB2 |
| 0.3907336 | 0.019099917 | 0.041 | 1 | 54922 | RASIP1 |
| 0.3907336 | 0.019099917 | 0.023 | 1 | 55016 | MARCHF1 |
| 0.3907336 | 0.019099917 | 0.032 | 1 | 58497 | PRUNE |
| 0.3907336 | 0.019099917 | 0.025 | 1 | 64223 | MLST8 |
| 0.3907336 | 0.019099917 | 0.025 | 1 | 137695 | TMEM68 |
| 0.390476167 | 0.01918439 | 0.027 | 1 | 5889 | RAD51C |
| 0.390476167 | 0.01918439 | 0.022 | 1 | 728039 | SSR4P1 |
| 0.390218794 | 0.01926918 | 0.029 | 1 | 23214 | XPO6 |
| 0.390218794 | 0.01926918 | 0.042 | 1 | 387775 | SLC22A10 |
| 0.389961362 | 0.019354273 | 0.021 | 1 | 4067 | LYN |
| 0.389961362 | 0.019354273 | 0.029 | 1 | 5715 | PSMD9 |
| 0.389961362 | 0.019354273 | 0.029 | 1 | 134526 | ACOT12 |
| 0.389961362 | 0.019354273 | 0.036 | 1 | 200728 | TMEM17 |
| 0.389961362 | 0.019354273 | 0.032 | 1 | 390637 | C15orf58 |
| 0.389703989 | 0.019439729 | 0.027 | 1 | 8650 | NUMB |
| 0.389446586 | 0.019525468 | 0.026 | 1 | 4233 | MET |
| 0.389446586 | 0.019525468 | 0.028 | 1 | 6331 | SCN5A |
| 0.389446586 | 0.019525468 | 0.04 | 1 | 171177 | RHOV |
| 0.389189184 | 0.019611511 | 0.024 | 1 | 238 | ALK |
| 0.389189184 | 0.019611511 | 0.035 | 1 | 4108 | MAGEA9 |
| 0.389189184 | 0.019611511 | 0.034 | 1 | 29958 | DMGDH |
| 0.389189184 | 0.019611511 | 0.027 | 1 | 85359 | DGCR6L |
| 0.389189184 | 0.019611511 | 0.03 | 1 | 440915 | POTEKP |
| 0.388931781 | 0.019697895 | 0.027 | 1 | 93 | ACVR2B |
| 0.388931781 | 0.019697895 | 0.024 | 1 | 2016 | EMX1 |
| 0.388931781 | 0.019697895 | 0.03 | 1 | 3376 | IARS |
| 0.388931781 | 0.019697895 | 0.03 | 1 | 100129792 | CCDC152 |
| 0.388674378 | 0.019784618 | 0.028 | 1 | 1272 | CNTN1 |
| 0.388674378 | 0.019784618 | 0.036 | 1 | 6500 | SKP1 |
| 0.388674378 | 0.019784618 | 0.027 | 1 | 92597 | MOBKL1A |
| 0.388674378 | 0.019784618 | 0.031 | 1 | 114960 | TSGA13 |
| 0.388674378 | 0.019784618 | 0.032 | 1 | 100288911 | LOC100288911 |
| 0.388416976 | 0.019871632 | 0.026 | 1 | 5607 | MAP2K5 |
| 0.388416976 | 0.019871632 | 0.032 | 1 | 6328 | SCN3A |
| 0.388416976 | 0.019871632 | 0.031 | 1 | 9168 | TMSB10 |
| 0.388416976 | 0.019871632 | 0.033 | 1 | 57628 | DPP10 |
| 0.388416976 | 0.019871632 | 0.03 | 1 | 81889 | FAHD1 |
| 0.388416976 | 0.019871632 | 0.034 | 1 | 344558 | SH3RF3 |
| 0.388416976 | 0.019871632 | 0.032 | 1 | 100129272 | LOC100129272 |
| 0.388159603 | 0.019958969 | 0.029 | 1 | 1808 | DPYSL2 |
| 0.388159603 | 0.019958969 | 0.033 | 1 | 6988 | TCTA |
| 0.388159603 | 0.019958969 | 0.038 | 1 | 22992 | KDM2A |
| 0.388159603 | 0.019958969 | 0.031 | 1 | 442862 | PRY |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.28192094 | < 0.001 | 51094 | ADIPOR1 |
| 0.281910598 | < 0.001 | 2553 | GABPB1 |
| 0.281706601 | < 0.001 | 1362 | CPD |
| 0.281695962 | < 0.001 | 80129 | C6orf97 |
| 0.281621873 | < 0.001 | 2863 | GPR39 |
| 0.281617403 | < 0.001 | 7265 | TTC1 |
| 0.281584173 | < 0.001 | 54531 | MIER2 |
| 0.281564295 | < 0.001 | 6574 | SLC20A1 |
| 0.281497061 | < 0.001 | 80339 | PNPLA3 |
| 0.281486005 | < 0.001 | 389114 | ZNF662 |
| 0.281403869 | < 0.001 | 10970 | CKAP4 |
| 0.281375021 | < 0.001 | 5154 | PDGFA |
| 0.281223655 | < 0.001 | 140707 | BRI3BP |
| 0.281051397 | < 0.001 | 1417 | CRYBB3 |
| 0.280979425 | < 0.001 | 474149 | TTTY4B |
| 0.280828983 | < 0.001 | 4986 | OPRK1 |
| 0.280807346 | < 0.001 | 26258 | PLDN |
| 0.280787557 | < 0.001 | 223117 | SEMA3D |
| 0.280602902 | < 0.001 | 199953 | TMEM201 |
| 0.280589014 | < 0.001 | 221960 | CCZ1B |
| 0.280531704 | < 0.001 | 64223 | MLST8 |
| 0.280441314 | < 0.001 | 5568 | PRKACG |
| 0.280425072 | < 0.001 | 55911 | AC138894.3 |
| 0.28035894 | < 0.001 | 28986 | MAGEH1 |
| 0.280335665 | < 0.001 | 634 | CEACAM1 |
| 0.280331492 | < 0.001 | 8394 | PIP5K1A |
| 0.28025344 | < 0.001 | 51372 | CCDC72 |
| 0.280188859 | < 0.001 | 113220 | KIF12 |
| 0.280126125 | < 0.001 | 26289 | AK5 |
| 0.280105591 | < 0.001 | 8027 | STAM |
| 0.280041248 | < 0.001 | 135112 | NCOA7 |
| 0.279990315 | < 0.001 | 2862 | MLNR |
| 0.279956311 | < 0.001 | 283373 | ANKRD52 |
| 0.279874235 | < 0.001 | 280660 | SSX9 |
| 0.279794812 | < 0.001 | 205327 | C2orf69 |
| 0.279785901 | < 0.001 | 7010 | TEK |
| 0.27975741 | < 0.001 | 4836 | NMT1 |
| 0.279728502 | < 0.001 | 6398 | SECTM1 |
| 0.279644161 | < 0.001 | 9958 | USP15 |
| 0.27953127 | < 0.001 | 8609 | KLF7 |
| 0.279457241 | < 0.001 | 392392 | OR1K1 |
| 0.279361129 | < 0.001 | 2264 | FGFR4 |
| 0.279292524 | < 0.001 | 7071 | KLF10 |
| 0.279291242 | < 0.001 | 27445 | PCLO |
| 0.279190212 | < 0.001 | 1072 | CFL1 |
| 0.279127777 | < 0.001 | 9530 | BAG4 |
| 0.2790896 | < 0.001 | 29760 | BLNK |
| 0.278945386 | < 0.001 | 9478 | CABP1 |
| 0.278903484 | < 0.001 | 2081 | ERN1 |
| 0.278899223 | < 0.001 | 8933 | FAM127A |
| 0.278777391 | < 0.001 | 54102 | CLIC6 |
| 0.278731138 | < 0.001 | 51054 | PLEKHA9 |
| 0.278694451 | < 0.001 | 5576 | PRKAR2A |
| 0.278667003 | < 0.001 | 818 | CAMK2G |
| 0.278629899 | < 0.001 | 6288 | SAA1 |
| 0.278584123 | < 0.001 | 84342 | COG8 |
| 0.27854684 | < 0.001 | 51042 | ZNF593 |
| 0.278515875 | < 0.001 | 7625 | ZNF74 |
| 0.278500885 | < 0.001 | 266697 | POM121L4P |
| 0.27847752 | < 0.001 | 694 | BTG1 |
| 0.278393805 | < 0.001 | 441228 | LOC441228 |
| 0.278366297 | < 0.001 | 653548 | DUX4L3 |
| 0.278354317 | < 0.001 | 22928 | SEPHS2 |
| 0.278336078 | < 0.001 | 221472 | FGD2 |
| 0.278301388 | < 0.001 | 1144 | CHRND |
| 0.278245866 | < 0.001 | 256329 | C11orf35 |
| 0.278241813 | < 0.001 | 219333 | USP12 |
| 0.278109014 | < 0.001 | 84530 | KIAA1853 |
| 0.278102249 | < 0.001 | 84539 | MCHR2 |
| 0.277966708 | < 0.001 | 5251 | PHEX |
| 0.277958632 | < 0.001 | 4835 | NQO2 |
| 0.277944386 | < 0.001 | 84542 | KIAA1841 |
| 0.277939856 | < 0.001 | 378807 | CATSPER4 |
| 0.277827561 | < 0.001 | 5223 | PGAM1 |
| 0.277787745 | < 0.001 | 22950 | SLC4A1AP |
| 0.277780294 | < 0.001 | 125170 | SMCR7 |
| 0.277736634 | < 0.001 | 5163 | PDK1 |
| 0.277620137 | < 0.001 | 57456 | KIAA1143 |
| 0.277596861 | < 0.001 | 160418 | TMTC3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.38790217 | 0.020046618 | 0.025 | 1 | 51750 | RTEL1 |
| 0.38790217 | 0.020046618 | 0.028 | 1 | 54675 | CRLS1 |
| 0.38790217 | 0.020046618 | 0.029 | 1 | 55135 | WRAP53 |
| 0.387644798 | 0.020134611 | 0.033 | 1 | 4207 | MEF2BNB-MEF2B |
| 0.387644798 | 0.020134611 | 0.033 | 1 | 84144 | SYDE2 |
| 0.387387365 | 0.020222949 | 0.036 | 1 | 83856 | FSD1L |
| 0.387387365 | 0.020222949 | 0.024 | 1 | 166614 | DCLK2 |
| 0.387387365 | 0.020222949 | 0.017 | 1 | 392617 | PPP1R28 |
| 0.387129992 | 0.020311579 | 0.036 | 1 | 150 | ADRA2A |
| 0.387129992 | 0.020311579 | 0.03 | 1 | 2565 | GABRG1 |
| 0.387129992 | 0.020311579 | 0.031 | 1 | 8881 | CDC16 |
| 0.387129992 | 0.020311579 | 0.032 | 1 | 339448 | C1orf174 |
| 0.38687259 | 0.020400539 | 0.037 | 1 | 3024 | HIST1H1A |
| 0.38687259 | 0.020400539 | 0.019 | 1 | 10255 | HCG9 |
| 0.38687259 | 0.020400539 | 0.037 | 1 | 81871 | KRTAP4-6 |
| 0.38687259 | 0.020400539 | 0.028 | 1 | 340204 | C6orf127 |
| 0.386615187 | 0.020489816 | 0.037 | 1 | 3052 | HCCS |
| 0.386615187 | 0.020489816 | 0.028 | 1 | 65117 | RSRC2 |
| 0.386615187 | 0.020489816 | 0.024 | 1 | 84503 | ZNF527 |
| 0.386615187 | 0.020489816 | 0.037 | 1 | 90249 | UNC5A |
| 0.386357784 | 0.020579478 | 0.019 | 1 | 131055 | LOC131055 |
| 0.386100382 | 0.020669412 | 0.035 | 1 | 11133 | KPTN |
| 0.385842979 | 0.020759676 | 0.036 | 1 | 6769 | STAC |
| 0.385842979 | 0.020759676 | 0.03 | 1 | 23335 | WDR7 |
| 0.385842979 | 0.020759676 | 0.029 | 1 | 375133 | PI1KAP2 |
| 0.385585606 | 0.02085029 | 0.028 | 1 | 7846 | TUBA1A |
| 0.385585606 | 0.02085029 | 0.022 | 1 | 9827 | RGP1 |
| 0.385585606 | 0.02085029 | 0.032 | 1 | 64218 | SEMA4A |
| 0.385328174 | 0.020941256 | 0.031 | 1 | 23185 | LARP4B |
| 0.385328174 | 0.020941256 | 0.035 | 1 | 84306 | PDCD2L |
| 0.385328174 | 0.020941256 | 0.037 | 1 | 93185 | IGSF8 |
| 0.384813368 | 0.021124128 | 0.04 | 1 | 3730 | KAL1 |
| 0.384813368 | 0.021124128 | 0.039 | 1 | 53343 | NUDT9 |
| 0.384813368 | 0.021124128 | 0.034 | 1 | 54107 | POLE3 |
| 0.384813368 | 0.021124128 | 0.036 | 1 | 84833 | USMG5 |
| 0.384813368 | 0.021124128 | 0.029 | 1 | 201140 | DHRS7C |
| 0.384555966 | 0.021216057 | 0.019 | 1 | 8396 | PIP5K2B |
| 0.384555966 | 0.021216057 | 0.039 | 1 | 150921 | TCF23 |
| 0.384298593 | 0.02130834 | 0.032 | 1 | 1994 | ELAVL1 |
| 0.384298593 | 0.02130834 | 0.028 | 1 | 127262 | TPRG1L |
| 0.38404116 | 0.021400981 | 0.035 | 1 | 9424 | KCNK6 |
| 0.38404116 | 0.021400981 | 0.037 | 1 | 22916 | NCBP2 |
| 0.38404116 | 0.021400981 | 0.034 | 1 | 29797 | POM121L8P |
| 0.38404116 | 0.021400981 | 0.029 | 1 | 55810 | FOXJ2 |
| 0.38404116 | 0.021400981 | 0.029 | 1 | 93210 | PGAP3 |
| 0.383526355 | 0.021587214 | 0.036 | 1 | 4692 | NDN |
| 0.383526355 | 0.021587214 | 0.033 | 1 | 7320 | UBE2B |
| 0.383526355 | 0.021587214 | 0.039 | 1 | 10740 | RFPL1-AS1 |
| 0.383526355 | 0.021587214 | 0.029 | 1 | 54802 | TRIT1 |
| 0.383268982 | 0.021680828 | 0.034 | 1 | 5368 | PNOC |
| 0.383268982 | 0.021680828 | 0.034 | 1 | 79042 | TSEN34 |
| 0.383268982 | 0.021680828 | 0.03 | 1 | 220164 | DOK6 |
| 0.383268982 | 0.021680828 | 0.026 | 1 | 441089 | CRSP8P |
| 0.38301158 | 0.021774847 | 0.036 | 1 | 5382 | PMS2P4 |
| 0.38301158 | 0.021774847 | 0.029 | 1 | 9933 | KIAA0020 |
| 0.38301158 | 0.021774847 | 0.025 | 1 | 283431 | GAS2L3 |
| 0.382754177 | 0.021869145 | 0.032 | 1 | 5600 | MAPK11 |
| 0.382754177 | 0.021869145 | 0.029 | 1 | 11230 | PRAF2 |
| 0.382754177 | 0.021869145 | 0.035 | 1 | 23265 | EXOC7 |
| 0.382754177 | 0.021869145 | 0.05 | 1 | 65985 | AACS |
| 0.382496774 | 0.021963805 | 0.042 | 1 | 55201 | MAP1S |
| 0.382496774 | 0.021963805 | 0.03 | 1 | 55837 | EAPP |
| 0.382496774 | 0.021963805 | 0.033 | 1 | 64881 | PCDH20 |
| 0.382239372 | 0.022058787 | 0.03 | 1 | 50640 | PNPLA8 |
| 0.382239372 | 0.022058787 | 0.031 | 1 | 53635 | PTOV1 |
| 0.382239372 | 0.022058787 | 0.027 | 1 | 55346 | TCP11L1 |
| 0.382239372 | 0.022058787 | 0.03 | 1 | 56934 | CA10 |
| 0.382239372 | 0.022058787 | 0.048 | 1 | 85439 | STON2 |
| 0.382239372 | 0.022058787 | 0.041 | 1 | 149934 | NCOR1P1 |
| 0.381981969 | 0.022154156 | 0.03 | 1 | 11237 | RNF24 |
| 0.381981969 | 0.022154156 | 0.028 | 1 | 26063 | DECR2 |
| 0.381981969 | 0.022154156 | 0.032 | 1 | 54480 | CSGLCA-T |
| 0.381724596 | 0.02224985 | 0.028 | 1 | 6662 | SOX9 |
| 0.381724596 | 0.02224985 | 0.032 | 1 | 57669 | EPB41L5 |
| 0.381724596 | 0.02224985 | 0.04 | 1 | 79786 | KLHL36 |
| 0.381724596 | 0.02224985 | 0.027 | 1 | 89790 | SIGLEC10 |
| 0.381724596 | 0.02224985 | 0.033 | 1 | 140462 | ASB9 |
| 0.381724596 | 0.02224985 | 0.035 | 1 | 653548 | DUX4L3 |
| 0.381467164 | 0.022345865 | 0.03 | 1 | 5138 | PDE2A |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.277571857 | < 0.001 | 23550 | PSD4 |
| 0.277546018 | < 0.001 | 5824 | PEX19 |
| 0.277544767 | < 0.001 | 84084 | RAB6C |
| 0.27751857 | < 0.001 | 58538 | MPP4 |
| 0.27744931 | < 0.001 | 1261 | CNGA3 |
| 0.277422756 | < 0.001 | 55851 | PSENEN |
| 0.277419358 | < 0.001 | 90678 | LRSAM1 |
| 0.277371675 | < 0.001 | 11282 | MGAT4B |
| 0.2773633 | < 0.001 | 53831 | GPR84 |
| 0.277334154 | < 0.001 | 83693 | HSDL1 |
| 0.277331471 | < 0.001 | 337979 | KRTAP22-1 |
| 0.277304709 | < 0.001 | 143379 | C10orf82 |
| 0.277267814 | < 0.001 | 54103 | PION |
| 0.277250111 | < 0.001 | 132989 | C4orf36 |
| 0.277206361 | < 0.001 | 6949 | TCOF1 |
| 0.277138025 | < 0.001 | 7189 | TRAF6 |
| 0.277035117 | < 0.001 | 7531 | YWHAE |
| 0.277021855 | < 0.001 | 6794 | STK11 |
| 0.276999503 | < 0.001 | 5923 | RASGRF1 |
| 0.276942253 | < 0.001 | 9630 | GNA14 |
| 0.276867121 | < 0.001 | 55315 | SLC29A3 |
| 0.276642263 | < 0.001 | 7268 | TTC4 |
| 0.276605755 | < 0.001 | 4905 | NSF |
| 0.276560843 | < 0.001 | 339210 | C17orf67 |
| 0.276512206 | < 0.001 | 81855 | SFXN3 |
| 0.276488096 | < 0.001 | 5527 | PPP2R5C |
| 0.276466727 | < 0.001 | 54503 | ZDHHC13 |
| 0.276466519 | < 0.001 | 662 | BNIP1 |
| 0.276421279 | < 0.001 | 29123 | ANKRD11 |
| 0.276407808 | < 0.001 | 5007 | OSBP |
| 0.276365966 | < 0.001 | 64175 | LEPRE1 |
| 0.276359349 | < 0.001 | 8078 | USP5 |
| 0.276269078 | < 0.001 | 155185 | AMZ1 |
| 0.276252925 | < 0.001 | 11196 | SEC23IP |
| 0.276212603 | < 0.001 | 375 | ARF1 |
| 0.276208103 | < 0.001 | 4882 | NPR2 |
| 0.276148677 | < 0.001 | 23558 | WBP2 |
| 0.276138842 | < 0.001 | 94137 | RP1L1 |
| 0.27601105 | < 0.001 | 57520 | HECW2 |
| 0.275978386 | < 0.001 | 161142 | C14orf54 |
| 0.275825351 | < 0.001 | 84276 | NICN1 |
| 0.275697261 | < 0.001 | 9404 | LPXN |
| 0.275692374 | < 0.001 | 64400 | AKTIP |
| 0.275670886 | < 0.001 | 115557 | GEFT |
| 0.275632054 | < 0.001 | 5871 | MAP4K2 |
| 0.275614381 | < 0.001 | 100133211 | LOC100133211 |
| 0.275510222 | < 0.001 | 4920 | ROR2 |
| 0.275433272 | < 0.001 | 26059 | ERC2 |
| 0.27541396 | < 0.001 | 441094 | AC106818.2 |
| 0.275262505 | < 0.001 | 2874 | GPS2 |
| 0.275252551 | < 0.001 | 84457 | PHYHIP |
| 0.275221407 | < 0.001 | 344892 | RTP2 |
| 0.275138617 | < 0.001 | 1576 | CYP3A4 |
| 0.275124818 | < 0.001 | 55585 | UBE2Q1 |
| 0.275123 | < 0.001 | 7014 | TERF2 |
| 0.274957329 | < 0.001 | 29964 | PRICKLE4 |
| 0.274929076 | < 0.001 | 442459 | LOC442459 |
| 0.274917305 | < 0.001 | 391334 | LOC391334 |
| 0.274915546 | < 0.001 | 4207 | MEF2BNB-MEF2B |
| 0.274843663 | < 0.001 | 55847 | CISD1 |
| 0.274815947 | < 0.001 | 84662 | GLIS2 |
| 0.274803102 | < 0.001 | 9925 | ZBTB5 |
| 0.274742037 | < 0.001 | 3841 | KPNA5 |
| 0.274607003 | < 0.001 | 123775 | C16orf46 |
| 0.274564296 | < 0.001 | 196410 | METTL7B |
| 0.274513245 | < 0.001 | 6399 | TRAPPC2 |
| 0.274502307 | < 0.001 | 1717 | DHCR7 |
| 0.274474353 | < 0.001 | 29924 | EPN1 |
| 0.274452895 | < 0.001 | 51304 | ZDHHC3 |
| 0.274414033 | < 0.001 | 6276 | S100A5 |
| 0.274145454 | < 0.001 | 100133941 | CD24 |
| 0.273981512 | < 0.001 | 162979 | ZNF296 |
| 0.273964614 | < 0.001 | 79640 | Z83840.4 |
| 0.273936361 | < 0.001 | 55290 | BRF2 |
| 0.273887485 | < 0.001 | 51118 | UTP11L |
| 0.273880094 | < 0.001 | 399979 | SNX19 |
| 0.273860455 | < 0.001 | 219402 | MTIF3 |
| 0.273777664 | < 0.001 | 10381 | RP11-566K11.2 |
| 0.273771852 | < 0.001 | 4035 | LRP1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.381467164 | 0.022345865 | 0.03 | 1 | 78999 | LRFN4 |
| 0.381209791 | 0.022442251 | 0.036 | 1 | 8784 | TNFRSF18 |
| 0.381209791 | 0.022442251 | 0.029 | 1 | 55588 | MED29 |
| 0.380694985 | 0.022636071 | 0.034 | 1 | 25911 | RP11-529I10.1 |
| 0.380694985 | 0.022636071 | 0.034 | 1 | 222962 | SLC29A4 |
| 0.380694985 | 0.022636071 | 0.042 | 1 | 283987 | C17orf28 |
| 0.380437583 | 0.022733504 | 0.028 | 1 | 6854 | SYN2 |
| 0.380437583 | 0.022733504 | 0.041 | 1 | 9737 | GPRASP1 |
| 0.380437583 | 0.022733504 | 0.038 | 1 | 84792 | C7orf70 |
| 0.380437583 | 0.022733504 | 0.037 | 1 | 390199 | OR4D9 |
| 0.380437583 | 0.022733504 | 0.029 | 1 | 400359 | C15orf53 |
| 0.38018018 | 0.022831265 | 0.037 | 1 | 4837 | NNMT |
| 0.38018018 | 0.022831265 | 0.038 | 1 | 7701 | ZNF142 |
| 0.38018018 | 0.022831265 | 0.036 | 1 | 10656 | KHDRBS3 |
| 0.38018018 | 0.022831265 | 0.024 | 1 | 63826 | SRR |
| 0.38018018 | 0.022831265 | 0.041 | 1 | 84326 | C16orf13 |
| 0.379922777 | 0.0229294 | 0.024 | 1 | 51016 | FAM158A |
| 0.379922777 | 0.0229294 | 0.039 | 1 | 51332 | SPTBN5 |
| 0.379922777 | 0.0229294 | 0.031 | 1 | 283970 | PDXDC2 |
| 0.379665375 | 0.023027912 | 0.036 | 1 | 8698 | S1PR4 |
| 0.379407972 | 0.023126734 | 0.022 | 1 | 23542 | MAPK8IP2 |
| 0.378893167 | 0.023325462 | 0.027 | 1 | 2168 | FABP1 |
| 0.378893167 | 0.023325462 | 0.029 | 1 | 57492 | ARID1B |
| 0.378893167 | 0.023325462 | 0.045 | 1 | 348303 | AC011500.2 |
| 0.378635794 | 0.023425372 | 0.03 | 1 | 2776 | GNAQ |
| 0.378635794 | 0.023425372 | 0.029 | 1 | 8216 | LZTR1 |
| 0.378635794 | 0.023425372 | 0.027 | 1 | 10368 | CACNG3 |
| 0.378635794 | 0.023425372 | 0.035 | 1 | 23368 | PPP1R13B |
| 0.378635794 | 0.023425372 | 0.039 | 1 | 55957 | LIN37 |
| 0.378378361 | 0.023525663 | 0.04 | 1 | 631 | BFSP1 |
| 0.378378361 | 0.023525663 | 0.031 | 1 | 10138 | YAF2 |
| 0.378378361 | 0.023525663 | 0.024 | 1 | 11005 | SPINK5 |
| 0.378378361 | 0.023525663 | 0.035 | 1 | 84083 | ZRANB3 |
| 0.378120989 | 0.023626266 | 0.031 | 1 | 145957 | NRG4 |
| 0.378120989 | 0.023626266 | 0.036 | 1 | 284129 | SLC26A11 |
| 0.377863586 | 0.023727253 | 0.025 | 1 | 56938 | ARNTL2 |
| 0.377863586 | 0.023727253 | 0.03 | 1 | 81624 | DIAPH3 |
| 0.377863586 | 0.023727253 | 0.034 | 1 | 126969 | SLC44A3 |
| 0.377606153 | 0.023828575 | 0.038 | 1 | 7415 | VCP |
| 0.377348781 | 0.02393033 | 0.023 | 1 | 3356 | HTR2A |
| 0.377348781 | 0.02393033 | 0.035 | 1 | 64396 | GMCL1P1 |
| 0.377348781 | 0.02393033 | 0.04 | 1 | 124402 | FAM100A |
| 0.377091348 | 0.024032379 | 0.036 | 1 | 5737 | PTGFR |
| 0.377091348 | 0.024032379 | 0.04 | 1 | 84902 | CCDC123 |
| 0.377091348 | 0.024032379 | 0.026 | 1 | 131408 | FAM131A |
| 0.376833975 | 0.024134791 | 0.038 | 1 | 29086 | C19orf62 |
| 0.376833975 | 0.024134791 | 0.038 | 1 | 115350 | FCRL1 |
| 0.376576573 | 0.02423759 | 0.031 | 1 | 26270 | FBXO6 |
| 0.376576573 | 0.02423759 | 0.039 | 1 | 27346 | TMEM97 |
| 0.376576573 | 0.02423759 | 0.027 | 1 | 55699 | IARS2 |
| 0.37631917 | 0.024340777 | 0.04 | 1 | 7485 | WRB |
| 0.37631917 | 0.024340777 | 0.038 | 1 | 84221 | C21orf56 |
| 0.37631917 | 0.024340777 | 0.035 | 1 | 221955 | DAGLB |
| 0.376061767 | 0.024444308 | 0.035 | 1 | 5432 | POLR2C |
| 0.376061767 | 0.024444308 | 0.043 | 1 | 7762 | ZNF215 |
| 0.376061767 | 0.024444308 | 0.034 | 1 | 8715 | NOL4 |
| 0.376061767 | 0.024444308 | 0.032 | 1 | 65078 | RTN4R |
| 0.376061767 | 0.024444308 | 0.036 | 1 | 114781 | BTBD9 |
| 0.375804365 | 0.024548186 | 0.03 | 1 | 5687 | PSMA6 |
| 0.375804365 | 0.024548186 | 0.035 | 1 | 647012 | LOC647012 |
| 0.375546962 | 0.024652431 | 0.037 | 1 | 81572 | PDRG1 |
| 0.375289589 | 0.024757067 | 0.039 | 1 | 2560 | GABRB1 |
| 0.375289589 | 0.024757067 | 0.028 | 1 | 51188 | SS18L2 |
| 0.375032157 | 0.024862099 | 0.039 | 1 | 8609 | KLF7 |
| 0.375032157 | 0.024862099 | 0.032 | 1 | 9804 | TOMM20 |
| 0.375032157 | 0.024862099 | 0.038 | 1 | 389119 | C3orf54 |
| 0.374774784 | 0.024967477 | 0.026 | 1 | 51255 | RNF181 |
| 0.374517351 | 0.025073206 | 0.042 | 1 | 2171 | FABP5 |
| 0.374517351 | 0.025073206 | 0.035 | 1 | 4850 | CNOT4 |
| 0.374517351 | 0.025073206 | 0.026 | 1 | 7532 | YWHAG |
| 0.374517351 | 0.025073206 | 0.031 | 1 | 10962 | MLLT11 |
| 0.374517351 | 0.025073206 | 0.04 | 1 | 114294 | LACTB |
| 0.374517351 | 0.025073206 | 0.035 | 1 | 140545 | RNF32 |
| 0.374259979 | 0.025179308 | 0.034 | 1 | 3607 | FOXK2 |
| 0.374259979 | 0.025179308 | 0.036 | 1 | 6229 | RPS24 |
| 0.374002546 | 0.025285855 | 0.024 | 1 | 5688 | PSMA7 |
| 0.374002546 | 0.025285855 | 0.041 | 1 | 253018 | HCG27 |
| 0.373745173 | 0.025392706 | 0.048 | 1 | 5602 | MAPK10 |
| 0.373487771 | 0.025499946 | 0.045 | 1 | 2891 | GRIA2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.27373296 | < 0.001 | 65008 | MRPL1 |
| 0.273678422 | < 0.001 | 5127 | PCTK1 |
| 0.273604691 | < 0.001 | 54491 | FAM105A |
| 0.273530871 | < 0.001 | 29982 | NRBF2 |
| 0.273464233 | < 0.001 | 1448 | CSN3 |
| 0.273437649 | < 0.001 | 5524 | PPP2R4 |
| 0.273433656 | < 0.001 | 2132 | EXT2 |
| 0.273421526 | < 0.001 | 6728 | SRP19 |
| 0.273380011 | < 0.001 | 2060 | EPS15 |
| 0.273315102 | < 0.001 | 8270 | LAGE3 |
| 0.273313105 | < 0.001 | 92400 | RBM18 |
| 0.273212373 | < 0.001 | 22902 | RUFY3 |
| 0.273180813 | < 0.001 | 10692 | RRH |
| 0.273160934 | < 0.001 | 9076 | CLDN1 |
| 0.273109257 | < 0.001 | 128646 | SIRPD |
| 0.273004919 | < 0.001 | 1808 | DPYSL2 |
| 0.272994399 | < 0.001 | 79735 | TBC1D17 |
| 0.27292487 | < 0.001 | 51335 | NGRN |
| 0.272915393 | < 0.001 | 26000 | TBC1D10B |
| 0.272884756 | < 0.001 | 23507 | LRRC8B |
| 0.272839427 | < 0.001 | 157570 | ESCO2 |
| 0.27271077 | < 0.001 | 220202 | ATOH7 |
| 0.272702634 | < 0.001 | 100288540 | POM121B |
| 0.272680402 | < 0.001 | 51350 | KRT76 |
| 0.272645444 | < 0.001 | 1809 | DPYSL3 |
| 0.272608668 | < 0.001 | 25891 | PAMR1 |
| 0.27258265 | < 0.001 | 2890 | GRIA1 |
| 0.272542 | < 0.001 | 51339 | DACT1 |
| 0.272540599 | < 0.001 | 9095 | TBX19 |
| 0.272504091 | < 0.001 | 283459 | GATC |
| 0.272500902 | < 0.001 | 84520 | C14orf142 |
| 0.272465527 | < 0.001 | 57542 | KLHDC5 |
| 0.272463799 | < 0.001 | 390243 | FOLR4 |
| 0.27246058 | < 0.001 | 285331 | CCDC66 |
| 0.272405386 | < 0.001 | 646719 | LOC646719 |
| 0.2723836 | < 0.001 | 5732 | PTGER2 |
| 0.272372037 | < 0.001 | 5555 | PRH2 |
| 0.272305727 | < 0.001 | 154313 | C6orf165 |
| 0.272301286 | < 0.001 | 22998 | LIMCH1 |
| 0.272246867 | < 0.001 | 167227 | DCP2 |
| 0.272240728 | < 0.001 | 84172 | POLR1B |
| 0.272221744 | < 0.001 | 84691 | FAM71F1 |
| 0.272173405 | < 0.001 | 112770 | C1orf85 |
| 0.272140682 | < 0.001 | 346606 | MOGAT3 |
| 0.272094101 | < 0.001 | 57663 | USP29 |
| 0.272029221 | < 0.001 | 347744 | C6orf52 |
| 0.272012919 | < 0.001 | 729475 | RAD51AP2 |
| 0.272002667 | < 0.001 | 1564 | CYP2D7P1 |
| 0.271966487 | < 0.001 | 57102 | C12orf4 |
| 0.271900743 | < 0.001 | 441273 | SPDYE2 |
| 0.271786243 | < 0.001 | 4363 | ABCC1 |
| 0.271768332 | < 0.001 | 113146 | AHNAK2 |
| 0.271768123 | < 0.001 | 286128 | ZFP41 |
| 0.271767586 | < 0.001 | 29931 | LINC00312 |
| 0.271659434 | < 0.001 | 7178 | TPT1 |
| 0.27161932 | < 0.001 | 394 | ARHGAP5 |
| 0.271612495 | < 0.001 | 1595 | CYP51A1 |
| 0.271560729 | < 0.001 | 27183 | VPS4A |
| 0.27151829 | < 0.001 | 4633 | MYL2 |
| 0.271474779 | < 0.001 | 8065 | CUL5 |
| 0.271443248 | < 0.001 | 3833 | KIFC1 |
| 0.271352053 | < 0.001 | 388569 | ZNF324B |
| 0.271335274 | < 0.001 | 645 | BLVRB |
| 0.271333337 | < 0.001 | 79643 | CHMP6 |
| 0.271322101 | < 0.001 | 1208 | CLPS |
| 0.271280974 | < 0.001 | 27036 | SIGLEC7 |
| 0.271271825 | < 0.001 | 10401 | PIAS3 |
| 0.271212012 | < 0.001 | 56829 | ZC3HAV1 |
| 0.27119869 | < 0.001 | 84262 | PSMG3 |
| 0.271139532 | < 0.001 | 10651 | MTX2 |
| 0.271103829 | < 0.001 | 29108 | PYCARD |
| 0.271011919 | < 0.001 | 23581 | CASP14 |
| 0.270945519 | < 0.001 | 7850 | IL1R2 |
| 0.270940155 | < 0.001 | 9972 | NUP153 |
| 0.270937085 | < 0.001 | 440738 | MAP1LC3C |
| 0.270704031 | < 0.001 | 1459 | CSNK2A2 |
| 0.270695865 | < 0.001 | 2334 | AFF2 |
| 0.270666927 | < 0.001 | 23623 | RUSC1 |
| 0.270641208 | < 0.001 | 25847 | ANAPC13 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.373487771 | 0.025499946 | 0.037 | 1 | 219348 | PLAC9 |
| 0.373230368 | 0.025607564 | 0.036 | 1 | 132851 | SPATA4 |
| 0.372972965 | 0.025715595 | 0.046 | 1 | 1487 | CTBP1 |
| 0.372972965 | 0.025715595 | 0.037 | 1 | 84318 | CCDC77 |
| 0.372972965 | 0.025715595 | 0.044 | 1 | 441061 | MARCHF11 |
| 0.372715592 | 0.025823982 | 0.047 | 1 | 1734 | DIO2 |
| 0.37245816 | 0.025932726 | 0.053 | 1 | 7447 | VSNL1 |
| 0.37245816 | 0.025932726 | 0.044 | 1 | 27330 | RPS6KA6 |
| 0.372200787 | 0.026041863 | 0.051 | 1 | 755 | C21orf2 |
| 0.372200787 | 0.026041863 | 0.049 | 1 | 23416 | KCNH3 |
| 0.372200787 | 0.026041863 | 0.032 | 1 | 57576 | KIF17 |
| 0.372200787 | 0.026041863 | 0.034 | 1 | 133690 | CAPSL |
| 0.372200787 | 0.026041863 | 0.034 | 1 | 148423 | C1orf52 |
| 0.371943355 | 0.026151383 | 0.045 | 1 | 119358 | SNRPD2P1 |
| 0.371943355 | 0.026151383 | 0.033 | 1 | 138307 | LCN8 |
| 0.371685982 | 0.026261322 | 0.046 | 1 | 6604 | SMARCD3 |
| 0.371685982 | 0.026261322 | 0.036 | 1 | 22883 | CLSTN1 |
| 0.371428549 | 0.026371622 | 0.038 | 1 | 27099 | SND1-IT1 |
| 0.371428549 | 0.026371622 | 0.041 | 1 | 114132 | SIGLEC11 |
| 0.371171176 | 0.026482284 | 0.055 | 1 | 25864 | ABHD14A |
| 0.370913774 | 0.026593344 | 0.042 | 1 | 9807 | IP6K1 |
| 0.370656341 | 0.02670484 | 0.045 | 1 | 551 | AVP |
| 0.370656341 | 0.02670484 | 0.04 | 1 | 55669 | MFN1 |
| 0.370656341 | 0.02670484 | 0.034 | 1 | 219870 | OR10G9 |
| 0.370398968 | 0.026816666 | 0.04 | 1 | 5899 | RALB |
| 0.370398968 | 0.026816666 | 0.032 | 1 | 57795 | FAM5B |
| 0.370141536 | 0.02692889 | 0.038 | 1 | 55320 | C14orf106 |
| 0.370141536 | 0.02692889 | 0.035 | 1 | 133015 | PACRGL |
| 0.369884163 | 0.027041508 | 0.051 | 1 | 53358 | SHC3 |
| 0.369884163 | 0.027041508 | 0.04 | 1 | 57479 | PRR12 |
| 0.369884163 | 0.027041508 | 0.031 | 1 | 79935 | CNTD2 |
| 0.36962676 | 0.027154554 | 0.037 | 1 | 5000 | ORC4 |
| 0.36962676 | 0.027154554 | 0.037 | 1 | 27039 | PKD2L2 |
| 0.36962676 | 0.027154554 | 0.041 | 1 | 80310 | PDGFD |
| 0.369111955 | 0.027381748 | 0.031 | 1 | 3157 | HMGCS1 |
| 0.369111955 | 0.027381748 | 0.048 | 1 | 50512 | PODXL2 |
| 0.369111955 | 0.027381748 | 0.037 | 1 | 57534 | MIB1 |
| 0.369111955 | 0.027381748 | 0.044 | 1 | 387893 | SETD8 |
| 0.368854553 | 0.027495936 | 0.047 | 1 | 1952 | CELSR2 |
| 0.368854553 | 0.027495936 | 0.045 | 1 | 9369 | NRXN3 |
| 0.36859715 | 0.027610522 | 0.038 | 1 | 94160 | ABCC12 |
| 0.36859715 | 0.027610522 | 0.032 | 1 | 146206 | RLTPR |
| 0.36859715 | 0.027610522 | 0.036 | 1 | 374286 | CDRT1 |
| 0.368339777 | 0.027725542 | 0.027 | 1 | 80023 | NRSN2 |
| 0.368082345 | 0.027840935 | 0.042 | 1 | 23162 | MAPK8IP3 |
| 0.368082345 | 0.027840935 | 0.055 | 1 | 146198 | ZFP90 |
| 0.367824972 | 0.0279567 | 0.037 | 1 | 9805 | SCRN1 |
| 0.367824972 | 0.0279567 | 0.041 | 1 | 26047 | CNTNAP2 |
| 0.367824972 | 0.0279567 | 0.04 | 1 | 51699 | VPS29 |
| 0.367567539 | 0.028072879 | 0.049 | 1 | 1877 | E4F1 |
| 0.367567539 | 0.028072879 | 0.046 | 1 | 6289 | SAA2 |
| 0.367567539 | 0.028072879 | 0.043 | 1 | 58495 | OVOL2 |
| 0.367567539 | 0.028072879 | 0.041 | 1 | 387911 | RP11-45B20.3 |
| 0.367310166 | 0.028189508 | 0.027 | 1 | 1806 | DPYD |
| 0.367310166 | 0.028189508 | 0.038 | 1 | 6717 | SRI |
| 0.367310166 | 0.028189508 | 0.032 | 1 | 8723 | SNX4 |
| 0.367052764 | 0.028306477 | 0.039 | 1 | 23367 | LARP1 |
| 0.367052764 | 0.028306477 | 0.043 | 1 | 57452 | GALNTL1 |
| 0.367052764 | 0.028306477 | 0.043 | 1 | 83660 | TLN2 |
| 0.367052764 | 0.028306477 | 0.036 | 1 | 727830 | FAM75A3 |
| 0.366795361 | 0.028423861 | 0.043 | 1 | 150290 | DUSP18 |
| 0.366795361 | 0.028423861 | 0.043 | 1 | 644172 | LOC644172 |
| 0.366537958 | 0.028541651 | 0.041 | 1 | 29115 | SAP30BP |
| 0.366537958 | 0.028541651 | 0.035 | 1 | 79838 | TMC5 |
| 0.366280556 | 0.028659895 | 0.034 | 1 | 147699 | PPM1N |
| 0.366280556 | 0.028659895 | 0.054 | 1 | 441728 | GOLGA6B |
| 0.366023153 | 0.028778495 | 0.038 | 1 | 55847 | CISD1 |
| 0.366023153 | 0.028778495 | 0.048 | 1 | 80273 | GRPEL1 |
| 0.366023153 | 0.028778495 | 0.036 | 1 | 768206 | PRCD |
| 0.36576578 | 0.028897488 | 0.043 | 1 | 7306 | TYRP1 |
| 0.365508348 | 0.029016903 | 0.042 | 1 | 25852 | ARMC8 |
| 0.365508348 | 0.029016903 | 0.041 | 1 | 55030 | FBXO34 |
| 0.365508348 | 0.029016903 | 0.03 | 1 | 200844 | C3orf67 |
| 0.365250975 | 0.029136727 | 0.044 | 1 | 10605 | PAIP1 |
| 0.365250975 | 0.029136727 | 0.043 | 1 | 22980 | TCF25 |
| 0.365250975 | 0.029136727 | 0.046 | 1 | 51275 | C12ORF47 |
| 0.365250975 | 0.029136727 | 0.04 | 1 | 84342 | COG8 |
| 0.365250975 | 0.029136727 | 0.041 | 1 | 197187 | MGC23284 |
| 0.364993542 | 0.029257014 | 0.056 | 1 | 2103 | ESRRB |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.270630628 | < 0.001 | 285759 | RP11-544L8__B.4 |
| 0.27061373 | < 0.001 | 80731 | THSD7B |
| 0.270591795 | < 0.001 | 28983 | TMPRSS11E2 |
| 0.270573318 | < 0.001 | 140606 | SELM |
| 0.270572484 | < 0.001 | 30836 | DNTTIP2 |
| 0.270564139 | < 0.001 | 401777 | LOC401777 |
| 0.270546287 | < 0.001 | 4659 | PPP1R12A |
| 0.270476609 | < 0.001 | 388722 | C1orf53 |
| 0.270466328 | < 0.001 | 5216 | PFN1 |
| 0.270384073 | < 0.001 | 3654 | IRAK1 |
| 0.270334393 | < 0.001 | 92609 | TIMM50 |
| 0.270280242 | < 0.001 | 23615 | PYY2 |
| 0.270275235 | < 0.001 | 255313 | CT47A11 |
| 0.270258427 | < 0.001 | 10045 | SH2D3A |
| 0.27023074 | < 0.001 | 1118 | CHIT1 |
| 0.270191461 | < 0.001 | 81631 | MAP1LC3B |
| 0.270118743 | < 0.001 | 133308 | NHEDC2 |
| 0.27008605 | < 0.001 | 7167 | TPI1 |
| 0.270050764 | < 0.001 | 128864 | C20orf144 |
| 0.270006061 | < 0.001 | 126068 | ZNF441 |
| 0.269998014 | < 0.001 | 8784 | TNFRSF18 |
| 0.269967467 | < 0.001 | 2295 | FOXF2 |
| 0.269933611 | < 0.001 | 220001 | VWCE |
| 0.269875616 | < 0.001 | 25873 | RPL36 |
| 0.269870609 | < 0.001 | 7371 | UCK2 |
| 0.269856483 | < 0.001 | 9107 | MTMR6 |
| 0.269828826 | < 0.001 | 158062 | LCN6 |
| 0.269799292 | < 0.001 | 199882 | LOC199882 |
| 0.269762754 | < 0.001 | 22989 | MYH15 |
| 0.269627213 | < 0.001 | 54662 | TBC1D13 |
| 0.269613087 | < 0.001 | 2743 | GLRB |
| 0.269608349 | < 0.001 | 79647 | AKIRIN1 |
| 0.269515246 | < 0.001 | 135295 | RP11-63L7.1 |
| 0.269497573 | < 0.001 | 388341 | C17orf76 |
| 0.269494593 | < 0.001 | 57690 | TNRC6C |
| 0.269420564 | < 0.001 | 3752 | KCND3 |
| 0.269400239 | < 0.001 | 55884 | WSB2 |
| 0.269383013 | < 0.001 | 389668 | XKR9 |
| 0.269338161 | < 0.001 | 128371 | OR6K6 |
| 0.269264132 | < 0.001 | 9931 | HELZ |
| 0.269238323 | < 0.001 | 27247 | NFU1 |
| 0.269139439 | < 0.001 | 10890 | RAB10 |
| 0.269105196 | < 0.001 | 389043 | LOC389043 |
| 0.269023657 | < 0.001 | 81688 | C6orf62 |
| 0.26880312 | < 0.001 | 6361 | CCL17 |
| 0.268699944 | < 0.001 | 7534 | YWHAZ |
| 0.2686795 | < 0.001 | 84215 | ZNF541 |
| 0.268625468 | < 0.001 | 84925 | DIRC2 |
| 0.268607527 | < 0.001 | 80772 | GLTPD1 |
| 0.268600255 | < 0.001 | 440387 | CTRB2 |
| 0.26851055 | < 0.001 | 23552 | CCRK |
| 0.268457681 | < 0.001 | 2790 | GNG10 |
| 0.26844427 | < 0.001 | 646517 | LOC646517 |
| 0.268418819 | < 0.001 | 169044 | COL22A1 |
| 0.268375367 | < 0.001 | 149603 | RNF187 |
| 0.268299162 | < 0.001 | 1826 | DSCAM |
| 0.268257111 | < 0.001 | 135114 | HINT3 |
| 0.268140107 | < 0.001 | 342931 | RFPL4A |
| 0.268084317 | < 0.001 | 10018 | BCL2L11 |
| 0.26801157 | < 0.001 | 100129250 | C9ORF133 |
| 0.26796338 | < 0.001 | 6809 | STX3 |
| 0.267906666 | < 0.001 | 9898 | UBAP2L |
| 0.267880529 | < 0.001 | 338440 | ANO9 |
| 0.26787284 | < 0.001 | 84666 | RETNLB |
| 0.267837107 | < 0.001 | 3589 | IL11 |
| 0.267778575 | < 0.001 | 729595 | HMGB3P22 |
| 0.267596781 | < 0.001 | 152002 | C3orf21 |
| 0.267540693 | < 0.001 | 10956 | OS9 |
| 0.267522663 | < 0.001 | 388242 | RP11-345J4.3 |
| 0.267518044 | < 0.001 | 57001 | ACN9 |
| 0.26751247 | < 0.001 | 27324 | TOX3 |
| 0.267478883 | < 0.001 | 728409 | C21orf54 |
| 0.267457634 | < 0.001 | 57403 | RAB22A |
| 0.267418623 | < 0.001 | 57216 | VANGL2 |
| 0.26734376 | < 0.001 | 3897 | L1CAM |
| 0.267285585 | < 0.001 | 333929 | SNAI3 |
| 0.267206848 | < 0.001 | 54888 | NSUN2 |
| 0.267184556 | < 0.001 | 65057 | ACD |
| 0.267183155 | < 0.001 | 8667 | EIF3H |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.364993542 | 0.029257014 | 0.046 | 1 | 5592 | PRKG1 |
| 0.364993542 | 0.029257014 | 0.045 | 1 | 9793 | CKAP5 |
| 0.364993542 | 0.029257014 | 0.045 | 1 | 10787 | NCKAP1 |
| 0.36473617 | 0.029377645 | 0.039 | 1 | 5217 | PFN2 |
| 0.36473617 | 0.029377645 | 0.036 | 1 | 8626 | TP63 |
| 0.36473617 | 0.029377645 | 0.033 | 1 | 11281 | POU6F2 |
| 0.364478767 | 0.029498704 | 0.042 | 1 | 3574 | IL7 |
| 0.364478767 | 0.029498704 | 0.043 | 1 | 63967 | CLSPN |
| 0.364478767 | 0.029498704 | 0.038 | 1 | 64850 | AGXT2L1 |
| 0.364478767 | 0.029498704 | 0.04 | 1 | 84280 | BTBD10 |
| 0.364221364 | 0.029620174 | 0.036 | 1 | 1635 | DCTD |
| 0.364221364 | 0.029620174 | 0.047 | 1 | 2199 | FBLN2 |
| 0.363963962 | 0.029742114 | 0.05 | 1 | 3755 | KCNG1 |
| 0.363963962 | 0.029742114 | 0.048 | 1 | 4885 | NPTX2 |
| 0.363963962 | 0.029742114 | 0.034 | 1 | 9177 | HTR3B |
| 0.363449156 | 0.029987121 | 0.047 | 1 | 4886 | NPY1R |
| 0.363449156 | 0.029987121 | 0.045 | 1 | 23207 | PLEKHM2 |
| 0.363449156 | 0.029987121 | 0.035 | 1 | 149992 | ANKRD30BP2 |
| 0.363449156 | 0.029987121 | 0.042 | 1 | 100128771 | EIF4BP3 |
| 0.363191754 | 0.030110257 | 0.034 | 1 | 5537 | PPP6C |
| 0.363191754 | 0.030110257 | 0.04 | 1 | 8933 | FAM127A |
| 0.363191754 | 0.030110257 | 0.06 | 1 | 347454 | ANKRD58 |
| 0.363191754 | 0.030110257 | 0.043 | 1 | 399942 | TUBAP2 |
| 0.362934351 | 0.030233864 | 0.044 | 1 | 4016 | LOXL1 |
| 0.362934351 | 0.030233864 | 0.047 | 1 | 50628 | GEMIN4 |
| 0.362934351 | 0.030233864 | 0.048 | 1 | 113730 | KLHDC7B |
| 0.362934351 | 0.030233864 | 0.047 | 1 | 162979 | ZNF296 |
| 0.362676948 | 0.03035784 | 0.049 | 1 | 435 | ASL |
| 0.362676948 | 0.03035784 | 0.038 | 1 | 51020 | HDDC2 |
| 0.362419546 | 0.030482236 | 0.05 | 1 | 3589 | IL11 |
| 0.362419546 | 0.030482236 | 0.037 | 1 | 392288 | LOC392288 |
| 0.362162143 | 0.030607035 | 0.051 | 1 | 1128 | CHRM1 |
| 0.362162143 | 0.030607035 | 0.052 | 1 | 3203 | HOXA6 |
| 0.362162143 | 0.030607035 | 0.041 | 1 | 25818 | KLK5 |
| 0.362162143 | 0.030607035 | 0.044 | 1 | 55789 | DEPDC1B |
| 0.362162143 | 0.030607035 | 0.048 | 1 | 387882 | C12ORF75 |
| 0.36190477 | 0.030732265 | 0.046 | 1 | 7534 | YWHAZ |
| 0.36190477 | 0.030732265 | 0.045 | 1 | 84215 | ZNF541 |
| 0.361389965 | 0.030984072 | 0.043 | 1 | 29035 | C16orf72 |
| 0.361389965 | 0.030984072 | 0.05 | 1 | 29761 | USP25 |
| 0.361132532 | 0.0311106 | 0.05 | 1 | 9597 | SMAD5OS |
| 0.361132532 | 0.0311106 | 0.049 | 1 | 54866 | PPP1R14D |
| 0.361132532 | 0.0311106 | 0.03 | 1 | 55851 | PSENEN |
| 0.361132532 | 0.0311106 | 0.051 | 1 | 84698 | CAPS2 |
| 0.361132532 | 0.0311106 | 0.045 | 1 | 643311 | CT47B1 |
| 0.36087516 | 0.031237528 | 0.041 | 1 | 2290 | FOXG1B |
| 0.36087516 | 0.031237528 | 0.046 | 1 | 10522 | DEAF1 |
| 0.360617757 | 0.031364955 | 0.05 | 1 | 1118 | CHIT1 |
| 0.360617757 | 0.031364955 | 0.051 | 1 | 10213 | PSMD14 |
| 0.360617757 | 0.031364955 | 0.047 | 1 | 11321 | GPN1 |
| 0.360617757 | 0.031364955 | 0.034 | 1 | 54785 | C17orf59 |
| 0.360617757 | 0.031364955 | 0.059 | 1 | 64376 | IKZF5 |
| 0.360617757 | 0.031364955 | 0.047 | 1 | 84059 | GPR98 |
| 0.360360354 | 0.031492755 | 0.061 | 1 | 147841 | SPC24 |
| 0.360102952 | 0.031620972 | 0.049 | 1 | 665 | BNIP3L |
| 0.360102952 | 0.031620972 | 0.044 | 1 | 7461 | CLIP2 |
| 0.360102952 | 0.031620972 | 0.049 | 1 | 55779 | WDR52 |
| 0.360102952 | 0.031620972 | 0.048 | 1 | 85313 | PPIL4 |
| 0.359845549 | 0.031749647 | 0.05 | 1 | 1032 | CDKN2D |
| 0.359845549 | 0.031749647 | 0.041 | 1 | 6256 | RXRA |
| 0.359845549 | 0.031749647 | 0.036 | 1 | 91582 | RPS19BP1 |
| 0.359588146 | 0.031878781 | 0.039 | 1 | 55450 | CAMK2N1 |
| 0.359588146 | 0.031878781 | 0.054 | 1 | 57591 | MKL1 |
| 0.359588146 | 0.031878781 | 0.036 | 1 | 64092 | SAMSN1 |
| 0.359588146 | 0.031878781 | 0.049 | 1 | 123228 | SENP8 |
| 0.359588146 | 0.031878781 | 0.053 | 1 | 152579 | SCFD2 |
| 0.359073341 | 0.032138273 | 0.046 | 1 | 2567 | GABRG3 |
| 0.359073341 | 0.032138273 | 0.05 | 1 | 57585 | CRAMP1L |
| 0.359073341 | 0.032138273 | 0.04 | 1 | 84305 | WIBG |
| 0.359073341 | 0.032138273 | 0.048 | 1 | 343035 | RD3 |
| 0.359073341 | 0.032138273 | 0.046 | 1 | 440107 | PLEKHG7 |
| 0.358815968 | 0.032268658 | 0.059 | 1 | 5641 | LGMN |
| 0.358815968 | 0.032268658 | 0.049 | 1 | 7443 | VRK1 |
| 0.358815968 | 0.032268658 | 0.044 | 1 | 8541 | PPFIA3 |
| 0.358815968 | 0.032268658 | 0.058 | 1 | 51560 | RAB6B |
| 0.358815968 | 0.032268658 | 0.045 | 1 | 79057 | PRRG3 |
| 0.358558536 | 0.032399505 | 0.035 | 1 | 1538 | CYLC1 |
| 0.358558536 | 0.032399505 | 0.038 | 1 | 55715 | DOK4 |
| 0.358558536 | 0.032399505 | 0.04 | 1 | 643836 | ZFP62 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.267136902 | < 0.001 | 283871 | PGP |
| 0.26711908 | < 0.001 | 155006 | TMEM213 |
| 0.267088622 | < 0.001 | 7267 | TTC3 |
| 0.267053574 | < 0.001 | 196383 | RILPL2 |
| 0.266875297 | < 0.001 | 3044 | HBBP1 |
| 0.266871125 | < 0.001 | 1107 | CHD3 |
| 0.266843915 | < 0.001 | 5209 | PFKFB3 |
| 0.266808063 | < 0.001 | 353500 | BMP8A |
| 0.266796887 | < 0.001 | 56145 | PCDHA3 |
| 0.266718626 | < 0.001 | 26526 | TSPAN16 |
| 0.266703606 | < 0.001 | 132671 | SPATA18 |
| 0.266676664 | < 0.001 | 1066 | CES1 |
| 0.266627491 | < 0.001 | 339479 | FAM5C |
| 0.266593814 | < 0.001 | 2220 | FCN2 |
| 0.266458482 | < 0.001 | 83983 | TSSK6 |
| 0.266435117 | < 0.001 | 9451 | EIF2AK3 |
| 0.266382188 | < 0.001 | 55968 | NSFL1C |
| 0.266362965 | < 0.001 | 253143 | C22orf30 |
| 0.266355336 | < 0.001 | 90249 | UNC5A |
| 0.266335666 | < 0.001 | 10746 | MAP3K2 |
| 0.266272038 | < 0.001 | 5806 | PTX3 |
| 0.266252726 | < 0.001 | 83401 | ELOVL3 |
| 0.266245902 | < 0.001 | 116832 | RPL39L |
| 0.266230494 | < 0.001 | 3386 | ICAM4 |
| 0.266214281 | < 0.001 | 91694 | LONRF1 |
| 0.26606226 | < 0.001 | 84947 | SERAC1 |
| 0.266006976 | < 0.001 | 2116 | ETV2 |
| 0.265908301 | < 0.001 | 3963 | LGALS7 |
| 0.265863776 | < 0.001 | 158038 | LINGO2 |
| 0.265820473 | < 0.001 | 29935 | RPA4 |
| 0.265787095 | < 0.001 | 79800 | ALS2CR8 |
| 0.265681565 | < 0.001 | 92675 | DTD1 |
| 0.265524745 | < 0.001 | 55758 | RCOR3 |
| 0.265496701 | < 0.001 | 595101 | LOC595101 |
| 0.265341014 | < 0.001 | 170302 | ARX |
| 0.265280485 | < 0.001 | 1211 | CLTA |
| 0.265249401 | < 0.001 | 84934 | C12orf52 |
| 0.265230358 | < 0.001 | 55022 | PID1 |
| 0.265165329 | < 0.001 | 1585 | CYP11B2 |
| 0.265108258 | < 0.001 | 80094 | FLJ14107 |
| 0.265040874 | < 0.001 | 286319 | TUSC1 |
| 0.264911145 | < 0.001 | 89845 | ABCC10 |
| 0.264882684 | < 0.001 | 4588 | MUC6 |
| 0.264853328 | < 0.001 | 23034 | SAMD4A |
| 0.2648471 | < 0.001 | 730153 | LOC730153 |
| 0.264766216 | < 0.001 | 8543 | LMO4 |
| 0.264731586 | < 0.001 | 84070 | FAM186B |
| 0.264727503 | < 0.001 | 23614 | PPY2 |
| 0.264688045 | < 0.001 | 23270 | TSPYL5 |
| 0.264675498 | < 0.001 | 117159 | DCD |
| 0.264662415 | < 0.001 | 10827 | FAM114A2 |
| 0.264617354 | < 0.001 | 11119 | BTN3A1 |
| 0.264577836 | < 0.001 | 339834 | CCDC36 |
| 0.2644732 | < 0.001 | 26071 | FAM127B |
| 0.264472246 | < 0.001 | 148423 | C1orf52 |
| 0.264470577 | < 0.001 | 11078 | TRIOBP |
| 0.264469892 | < 0.001 | 3638 | INSIG1 |
| 0.264403343 | < 0.001 | 113091 | PTH2 |
| 0.264393866 | < 0.001 | 11249 | NXPH2 |
| 0.264387578 | < 0.001 | 116447 | TOP1MT |
| 0.26436156 | < 0.001 | 7117 | TMSB4XP8 |
| 0.264314711 | < 0.001 | 10974 | C10orf116 |
| 0.264292389 | < 0.001 | 29998 | GLTSCR1 |
| 0.264236063 | < 0.001 | 11259 | FILIP1L |
| 0.264208525 | < 0.001 | 27189 | IL17C |
| 0.26411894 | < 0.001 | 54478 | FAM64A |
| 0.264117748 | < 0.001 | 400 | ARL1 |
| 0.264037818 | < 0.001 | 2299 | FOXI1 |
| 0.264012516 | < 0.001 | 22999 | RIMS1 |
| 0.263992935 | < 0.001 | 53 | ACP2 |
| 0.263961464 | < 0.001 | 9858 | KIAA0649 |
| 0.26390925 | < 0.001 | 80195 | RP11-369J21.1 |
| 0.263902754 | < 0.001 | 65084 | TMEM135 |
| 0.263901919 | < 0.001 | 9392 | TGFBRAP1 |
| 0.26383701 | < 0.001 | 55026 | FAM70A |
| 0.263779372 | < 0.001 | 8854 | ALDH1A2 |
| 0.263758868 | < 0.001 | 285943 | AC004080.12 |
| 0.263728499 | < 0.001 | 10527 | IPO7 |
| 0.263703942 | < 0.001 | 30844 | EHD4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.358301163 | 0.032530826 | 0.041 | 1 | 10211 | FLOT1 |
| 0.358301163 | 0.032530826 | 0.044 | 1 | 10488 | CREB3 |
| 0.358301163 | 0.032530826 | 0.053 | 1 | 10559 | SLC35A1 |
| 0.358301163 | 0.032530826 | 0.048 | 1 | 23373 | CRTC1 |
| 0.35804376 | 0.032662522 | 0.04 | 1 | 4665 | NAB2 |
| 0.35804376 | 0.032662522 | 0.044 | 1 | 158326 | FREM1 |
| 0.35804376 | 0.032662522 | 0.047 | 1 | 161835 | FSIP1 |
| 0.35804376 | 0.032662522 | 0.047 | 1 | 245940 | AC144830.1 |
| 0.357786357 | 0.032794688 | 0.051 | 1 | 1600 | DAB1 |
| 0.357786357 | 0.032794688 | 0.038 | 1 | 200424 | TET3 |
| 0.357528955 | 0.032927267 | 0.045 | 1 | 3798 | KIF5A |
| 0.357271552 | 0.033060376 | 0.064 | 1 | 3875 | KRT18P19 |
| 0.357014149 | 0.033193842 | 0.047 | 1 | 8646 | CHRD |
| 0.357014149 | 0.033193842 | 0.048 | 1 | 8816 | DCAF5 |
| 0.357014149 | 0.033193842 | 0.053 | 1 | 155051 | CRYGN |
| 0.356756777 | 0.033327751 | 0.052 | 1 | 3087 | HHEX |
| 0.356756777 | 0.033327751 | 0.043 | 1 | 10408 | MYCNOS |
| 0.356756777 | 0.033327751 | 0.05 | 1 | 79666 | PLEKHF2 |
| 0.356756777 | 0.033327751 | 0.052 | 1 | 140885 | SIRPA |
| 0.356756777 | 0.033327751 | 0.051 | 1 | 222967 | RSPH10B |
| 0.356756777 | 0.033327751 | 0.045 | 1 | 440173 | LOC440173 |
| 0.356499344 | 0.033462133 | 0.044 | 1 | 6945 | MLX |
| 0.356499344 | 0.033462133 | 0.049 | 1 | 9392 | TGFBRAP1 |
| 0.356241941 | 0.033596937 | 0.045 | 1 | 3622 | ING2 |
| 0.356241941 | 0.033596937 | 0.054 | 1 | 10001 | MED6 |
| 0.356241941 | 0.033596937 | 0.051 | 1 | 29118 | DDX25 |
| 0.356241941 | 0.033596937 | 0.05 | 1 | 58489 | FAM108C1 |
| 0.355984539 | 0.033732273 | 0.048 | 1 | 165215 | FAM171B |
| 0.355984539 | 0.033732273 | 0.039 | 1 | 222029 | DKFZp434L192 |
| 0.355984539 | 0.033732273 | 0.057 | 1 | 401474 | SAMD12 |
| 0.355727136 | 0.03386797 | 0.051 | 1 | 4760 | NEUROD1 |
| 0.355727136 | 0.03386797 | 0.051 | 1 | 8905 | AP1S2 |
| 0.355727136 | 0.03386797 | 0.046 | 1 | 79986 | ZNF702P |
| 0.355469763 | 0.034004118 | 0.054 | 1 | 1416 | CRYBB2P1 |
| 0.355469763 | 0.034004118 | 0.058 | 1 | 22823 | MTF2 |
| 0.355469763 | 0.034004118 | 0.048 | 1 | 56729 | RETN |
| 0.355212331 | 0.034140743 | 0.044 | 1 | 627 | BDNF |
| 0.355212331 | 0.034140743 | 0.038 | 1 | 4253 | CTAGE5 |
| 0.355212331 | 0.034140743 | 0.054 | 1 | 23163 | GGA3 |
| 0.354954958 | 0.034277856 | 0.064 | 1 | 3479 | IGF1 |
| 0.354954958 | 0.034277856 | 0.049 | 1 | 10908 | PNPLA6 |
| 0.354697526 | 0.03441539 | 0.054 | 1 | 2778 | GNAS |
| 0.354697526 | 0.03441539 | 0.055 | 1 | 57731 | SPTBN4 |
| 0.354697526 | 0.03441539 | 0.042 | 1 | 113174 | SAAL1 |
| 0.354440153 | 0.034553345 | 0.05 | 1 | 324 | APC |
| 0.354440153 | 0.034553345 | 0.053 | 1 | 51649 | MRPS23 |
| 0.35418275 | 0.034691758 | 0.059 | 1 | 4192 | MDK |
| 0.35418275 | 0.034691758 | 0.048 | 1 | 11137 | PWP1 |
| 0.35418275 | 0.034691758 | 0.041 | 1 | 57325 | CSRP2BP |
| 0.35418275 | 0.034691758 | 0.061 | 1 | 65268 | WNK2 |
| 0.353925347 | 0.034830723 | 0.047 | 1 | 79762 | C1orf115 |
| 0.353667945 | 0.034970045 | 0.062 | 1 | 778 | CACNA1F |
| 0.353667945 | 0.034970045 | 0.057 | 1 | 51122 | COMMD2 |
| 0.353667945 | 0.034970045 | 0.051 | 1 | 55319 | C4orf43 |
| 0.353667945 | 0.034970045 | 0.054 | 1 | 122553 | TRAPPC6B |
| 0.353667945 | 0.034970045 | 0.046 | 1 | 148930 | KNCN |
| 0.353410542 | 0.035109863 | 0.057 | 1 | 57622 | LRFN1 |
| 0.353410542 | 0.035109863 | 0.059 | 1 | 116987 | AGAP1 |
| 0.353410542 | 0.035109863 | 0.055 | 1 | 285943 | AC004080.12 |
| 0.353410542 | 0.035109863 | 0.054 | 1 | 728224 | KRTAP4-8 |
| 0.353153139 | 0.035250109 | 0.058 | 1 | 7267 | TTC3 |
| 0.353153139 | 0.035250109 | 0.057 | 1 | 9978 | RBX1 |
| 0.353153139 | 0.035250109 | 0.048 | 1 | 57333 | RCN3 |
| 0.352895766 | 0.035390813 | 0.046 | 1 | 8239 | USP9X |
| 0.352895766 | 0.035390813 | 0.051 | 1 | 8814 | CDKL1 |
| 0.352895766 | 0.035390813 | 0.044 | 1 | 9040 | UBE2M |
| 0.352895766 | 0.035390813 | 0.053 | 1 | 26532 | OR10H3 |
| 0.352895766 | 0.035390813 | 0.052 | 1 | 63932 | CXorf56 |
| 0.352895766 | 0.035390813 | 0.03 | 1 | 84310 | C7orf50 |
| 0.352895766 | 0.035390813 | 0.04 | 1 | 144108 | SPTY2D1 |
| 0.352638334 | 0.035532076 | 0.059 | 1 | 1662 | DDX10 |
| 0.352638334 | 0.035532076 | 0.049 | 1 | 54914 | KIAA1797 |
| 0.352638334 | 0.035532076 | 0.051 | 1 | 55683 | KIAA1310 |
| 0.352638334 | 0.035532076 | 0.05 | 1 | 64478 | CSMD1 |
| 0.352638334 | 0.035532076 | 0.046 | 1 | 220832 | FABP5P3 |
| 0.352638334 | 0.035532076 | 0.044 | 1 | 391191 | OR2AK2 |
| 0.352638334 | 0.035532076 | 0.044 | 1 | 100506084 | AC005829.1 |
| 0.352380961 | 0.035673708 | 0.043 | 1 | 4493 | MT1E |
| 0.352123529 | 0.035815831 | 0.066 | 1 | 1123 | CHN1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.263650864 | < 0.001 | 51719 | CAB39 |
| 0.263643444 | < 0.001 | 343702 | XKR7 |
| 0.263640553 | < 0.001 | 146177 | VWA3A |
| 0.263639331 | < 0.001 | 391196 | OR2M7 |
| 0.263617933 | < 0.001 | 119678 | OR52E2 |
| 0.26353845 | < 0.001 | 3851 | KRT4 |
| 0.263465077 | < 0.001 | 2835 | GPR12 |
| 0.263378382 | < 0.001 | 26189 | OR1A2 |
| 0.263374269 | < 0.001 | 535 | ATP6V0A1 |
| 0.263354301 | < 0.001 | 55837 | EAPP |
| 0.263326526 | < 0.001 | 114112 | TXNRD3 |
| 0.263288021 | < 0.001 | 57558 | USP35 |
| 0.263275266 | < 0.001 | 317701 | VN1R2 |
| 0.263253719 | < 0.001 | 11321 | GPN1 |
| 0.263227671 | < 0.001 | 57492 | ARID1B |
| 0.263100117 | < 0.001 | 84632 | AFAP1L2 |
| 0.263095349 | < 0.001 | 4082 | MARCKS |
| 0.262986183 | < 0.001 | 269 | AMHR2 |
| 0.262923032 | < 0.001 | 200424 | TET3 |
| 0.262885749 | < 0.001 | 167555 | FAM151B |
| 0.262876272 | < 0.001 | 57476 | GRAMD1B |
| 0.26286611 | < 0.001 | 7695 | ZNF136 |
| 0.262847334 | < 0.001 | 29789 | OLA1 |
| 0.262827456 | < 0.001 | 8530 | CST7 |
| 0.262792766 | < 0.001 | 3569 | IL6 |
| 0.262593627 | < 0.001 | 89796 | NAV1 |
| 0.26254198 | < 0.001 | 54534 | MRPL50 |
| 0.262540311 | < 0.001 | 219770 | GJD4 |
| 0.262380451 | < 0.001 | 1456 | CSNK1G3 |
| 0.2622419 | < 0.001 | 259232 | NALCN |
| 0.262175739 | < 0.001 | 27120 | DKKL1 |
| 0.262168199 | < 0.001 | 100131360 | LOC100131360 |
| 0.26214397 | < 0.001 | 29115 | SAP30BP |
| 0.262132257 | < 0.001 | 284904 | SEC14L4 |
| 0.262064248 | < 0.001 | 118813 | ZFYVE27 |
| 0.262038112 | < 0.001 | 4108 | MAGEA9 |
| 0.261996299 | < 0.001 | 353143 | LCE3B |
| 0.261958003 | < 0.001 | 64377 | CHST8 |
| 0.261942446 | < 0.001 | 4605 | MYBL2 |
| 0.261857331 | < 0.001 | 26002 | MOXD1 |
| 0.261823803 | < 0.001 | 3482 | IGF2R |
| 0.261794239 | < 0.001 | 3203 | HOXA6 |
| 0.261698633 | < 0.001 | 284021 | MILR1 |
| 0.261658937 | < 0.001 | 257194 | NEGR1 |
| 0.261633843 | < 0.001 | 10463 | SLC30A9 |
| 0.261604369 | < 0.001 | 100129583 | FAM47E |
| 0.261563987 | < 0.001 | 7767 | ZNF224 |
| 0.261516929 | < 0.001 | 84665 | MYPN |
| 0.261449099 | < 0.001 | 51095 | TRNT1 |
| 0.261444688 | < 0.001 | 10019 | SH2B3 |
| 0.261381954 | < 0.001 | 6329 | SCN4A |
| 0.261342853 | < 0.001 | 90637 | ZFAND2A |
| 0.26127243 | < 0.001 | 220032 | GDPD4 |
| 0.261242062 | < 0.001 | 4597 | MVD |
| 0.261206061 | < 0.001 | 100129935 | LOC100129935 |
| 0.261144221 | < 0.001 | 55010 | C12orf48 |
| 0.261095226 | < 0.001 | 1837 | DTNA |
| 0.261073053 | < 0.001 | 1457 | CSNK2A1 |
| 0.26097855 | < 0.001 | 84197 | AC113191.1 |
| 0.260961771 | < 0.001 | 10000 | AKT3 |
| 0.260823965 | < 0.001 | 27199 | OXGR1 |
| 0.260823429 | < 0.001 | 5478 | PPIA |
| 0.260791093 | < 0.001 | 149018 | LELP1 |
| 0.260738313 | < 0.001 | 340075 | ARSI |
| 0.260551512 | < 0.001 | 128387 | TATDN3 |
| 0.26054889 | < 0.001 | 29070 | CCDC113 |
| 0.260537952 | < 0.001 | 139716 | GAB3 |
| 0.260534227 | < 0.001 | 284069 | FAM171A2 |
| 0.260517687 | < 0.001 | 8216 | LZTR1 |
| 0.26051569 | < 0.001 | 284 | ANGPT1 |
| 0.260487705 | < 0.001 | 94030 | LRRC4B |
| 0.260443926 | < 0.001 | 51085 | MLXIPL |
| 0.260434628 | < 0.001 | 23677 | SH3BP4 |
| 0.260298997 | < 0.001 | 53616 | ADAM22 |
| 0.260296583 | < 0.001 | 22992 | KDM2A |
| 0.260260731 | < 0.001 | 55577 | NAGK |
| 0.260240078 | < 0.001 | 1444 | CSHL1 |
| 0.260217011 | < 0.001 | 260293 | CYP4X1 |
| 0.260156184 | < 0.001 | 642943 | LOC642943 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.352123529 | 0.035815831 | 0.045 | 1 | 7763 | ZFAND5 |
| 0.352123529 | 0.035815831 | 0.051 | 1 | 10572 | SIVA1 |
| 0.352123529 | 0.035815831 | 0.055 | 1 | 50509 | COL5A3 |
| 0.352123529 | 0.035815831 | 0.043 | 1 | 80331 | DNAJC5 |
| 0.352123529 | 0.035815831 | 0.041 | 1 | 84520 | C14orf142 |
| 0.351866156 | 0.035958394 | 0.049 | 1 | 5662 | PSD |
| 0.351866156 | 0.035958394 | 0.052 | 1 | 50861 | STMN3 |
| 0.351866156 | 0.035958394 | 0.056 | 1 | 134147 | CMBL |
| 0.351866156 | 0.035958394 | 0.061 | 1 | 157570 | ESCO2 |
| 0.351351351 | 0.036245011 | 0.059 | 1 | 154313 | C6orf165 |
| 0.351351351 | 0.036245011 | 0.054 | 1 | 353116 | RILPL1 |
| 0.351093948 | 0.036388971 | 0.054 | 1 | 92154 | MTSS1L |
| 0.350836545 | 0.036533434 | 0.054 | 1 | 904 | CCNT1 |
| 0.350836545 | 0.036533434 | 0.058 | 1 | 9070 | ASH2L |
| 0.350836545 | 0.036533434 | 0.044 | 1 | 10221 | TRIB1 |
| 0.350836545 | 0.036533434 | 0.054 | 1 | 57496 | MKL2 |
| 0.350579143 | 0.036678404 | 0.042 | 1 | 23107 | MRPS27 |
| 0.350579143 | 0.036678404 | 0.032 | 1 | 23480 | SEC61G |
| 0.350579143 | 0.036678404 | 0.048 | 1 | 83546 | RTBDN |
| 0.35032177 | 0.036823779 | 0.05 | 1 | 3140 | MR1 |
| 0.35032177 | 0.036823779 | 0.052 | 1 | 11069 | RAPGEF4 |
| 0.35032177 | 0.036823779 | 0.061 | 1 | 23321 | TRIM2 |
| 0.35032177 | 0.036823779 | 0.049 | 1 | 57834 | CYP4F11 |
| 0.35032177 | 0.036823779 | 0.051 | 1 | 205428 | C3orf58 |
| 0.35032177 | 0.036823779 | 0.062 | 1 | 404550 | C16orf74 |
| 0.35032177 | 0.036823779 | 0.047 | 1 | 729991 | MEF2BNB |
| 0.350064337 | 0.036969658 | 0.046 | 1 | 644192 | RP11-327J17.3 |
| 0.349806964 | 0.03711598 | 0.055 | 1 | 1837 | DTNA |
| 0.349806964 | 0.03711598 | 0.063 | 1 | 8748 | ADAM20 |
| 0.349806964 | 0.03711598 | 0.056 | 1 | 133746 | JMY |
| 0.349549532 | 0.037262797 | 0.056 | 1 | 2210 | FCGR1B |
| 0.349549532 | 0.037262797 | 0.051 | 1 | 3749 | KCNC4 |
| 0.349549532 | 0.037262797 | 0.056 | 1 | 27352 | SGSM3 |
| 0.349549532 | 0.037262797 | 0.043 | 1 | 51222 | ZNF219 |
| 0.349549532 | 0.037262797 | 0.048 | 1 | 646627 | LOC646627 |
| 0.349292129 | 0.037410151 | 0.065 | 1 | 6809 | STX3 |
| 0.349292129 | 0.037410151 | 0.048 | 1 | 23759 | PPIL2 |
| 0.349292129 | 0.037410151 | 0.047 | 1 | 54847 | SIDT1 |
| 0.349292129 | 0.037410151 | 0.063 | 1 | 375190 | C2orf84 |
| 0.349034756 | 0.037557904 | 0.052 | 1 | 821 | CANX |
| 0.349034756 | 0.037557904 | 0.043 | 1 | 5902 | RANBP1 |
| 0.349034756 | 0.037557904 | 0.063 | 1 | 23466 | CBX6 |
| 0.349034756 | 0.037557904 | 0.045 | 1 | 60685 | ZFAND3 |
| 0.349034756 | 0.037557904 | 0.066 | 1 | 113457 | TUBA3D |
| 0.349034756 | 0.037557904 | 0.059 | 1 | 114796 | AC093734.11 |
| 0.348777324 | 0.037706167 | 0.059 | 1 | 1678 | TIMM8A |
| 0.348777324 | 0.037706167 | 0.054 | 1 | 6713 | SQLE |
| 0.348777324 | 0.037706167 | 0.045 | 1 | 64755 | C16orf58 |
| 0.348519951 | 0.037854876 | 0.059 | 1 | 1400 | CRMP1 |
| 0.348519951 | 0.037854876 | 0.061 | 1 | 5493 | PPL |
| 0.348519951 | 0.037854876 | 0.048 | 1 | 9506 | PAGE4 |
| 0.348519951 | 0.037854876 | 0.055 | 1 | 10126 | DNAL4 |
| 0.348519951 | 0.037854876 | 0.051 | 1 | 26289 | AK5 |
| 0.348519951 | 0.037854876 | 0.044 | 1 | 219402 | MTIF3 |
| 0.348262519 | 0.038004167 | 0.058 | 1 | 10059 | DNM1L |
| 0.348262519 | 0.038004167 | 0.053 | 1 | 55813 | UTP6 |
| 0.348005146 | 0.038153838 | 0.063 | 1 | 4435 | CITED1 |
| 0.348005146 | 0.038153838 | 0.076 | 1 | 286077 | FAM83H |
| 0.347747743 | 0.038303997 | 0.057 | 1 | 28958 | CCDC56 |
| 0.347747743 | 0.038303997 | 0.048 | 1 | 342850 | ANKRD62 |
| 0.34749034 | 0.038454667 | 0.063 | 1 | 310 | ANXA7 |
| 0.34749034 | 0.038454667 | 0.059 | 1 | 3425 | IDUA |
| 0.34749034 | 0.038454667 | 0.058 | 1 | 6457 | SH3GL3 |
| 0.34749034 | 0.038454667 | 0.066 | 1 | 8997 | KALRN |
| 0.34749034 | 0.038454667 | 0.054 | 1 | 10855 | HPSE |
| 0.34749034 | 0.038454667 | 0.053 | 1 | 51529 | ANAPC11 |
| 0.34749034 | 0.038454667 | 0.05 | 1 | 81616 | ACSBG2 |
| 0.347232938 | 0.038605861 | 0.05 | 1 | 80028 | FBXL18 |
| 0.347232938 | 0.038605861 | 0.061 | 1 | 114926 | C8orf40 |
| 0.346975535 | 0.038757507 | 0.058 | 1 | 11214 | AKAP13 |
| 0.346718132 | 0.038909607 | 0.059 | 1 | 320 | APBA1 |
| 0.346718132 | 0.038909607 | 0.043 | 1 | 84320 | ACBD6 |
| 0.346718132 | 0.038909607 | 0.061 | 1 | 159989 | CCDC67 |
| 0.34646076 | 0.039062198 | 0.063 | 1 | 4142 | MAS1 |
| 0.34646076 | 0.039062198 | 0.056 | 1 | 5887 | RAD23B |
| 0.34646076 | 0.039062198 | 0.058 | 1 | 644054 | FAM25C |
| 0.34646076 | 0.039062198 | 0.056 | 1 | 100129492 | LOC100129492 |
| 0.346203327 | 0.039215293 | 0.054 | 1 | 1824 | DSC2 |
| 0.346203327 | 0.039215293 | 0.05 | 1 | 4712 | NDUFB6 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.260114849 | < 0.001 | 146853 | C17orf50 |
| 0.259953678 | < 0.001 | 126526 | C19orf47 |
| 0.259938389 | < 0.001 | 4105 | MAGEA6 |
| 0.259896785 | < 0.001 | 493856 | CISD2 |
| 0.259883344 | < 0.001 | 4199 | ME1 |
| 0.259826362 | < 0.001 | 64792 | RABL5 |
| 0.259763449 | < 0.001 | 8509 | NDST2 |
| 0.259710193 | < 0.001 | 54065 | C21orf51 |
| 0.259633154 | < 0.001 | 647309 | RP11-332P22.1 |
| 0.25962168 | < 0.001 | 9276 | COPB2 |
| 0.259488642 | < 0.001 | 548593 | GIYD2 |
| 0.259409249 | < 0.001 | 5861 | RAB1A |
| 0.259405494 | < 0.001 | 79135 | APOO |
| 0.259395331 | < 0.001 | 144165 | PRICKLE1 |
| 0.259359092 | < 0.001 | 51168 | MYO15A |
| 0.259357721 | < 0.001 | 64375 | IKZF4 |
| 0.259207487 | < 0.001 | 55234 | SMU1 |
| 0.259202242 | < 0.001 | 10180 | RBM6 |
| 0.259176254 | < 0.001 | 337971 | KRTAP19-4 |
| 0.259024888 | < 0.001 | 153396 | TMEM161B |
| 0.259019971 | < 0.001 | 23461 | ABCA5 |
| 0.258989483 | < 0.001 | 90271 | LINC00263 |
| 0.258944184 | < 0.001 | 84435 | GPR123 |
| 0.258871734 | < 0.001 | 115290 | FBXO17 |
| 0.258810401 | < 0.001 | 27012 | KCNV1 |
| 0.258732021 | < 0.001 | 6528 | SLC5A5 |
| 0.258683443 | < 0.001 | 4779 | NFE2L1 |
| 0.258667588 | < 0.001 | 1800 | DPEP1 |
| 0.258666337 | < 0.001 | 51203 | NUSAP1 |
| 0.258644402 | < 0.001 | 84134 | TOMM40L |
| 0.258638233 | < 0.001 | 7453 | WARS |
| 0.258633316 | < 0.001 | 56203 | LMOD3 |
| 0.258626014 | < 0.001 | 284656 | RP4-783C10.1 |
| 0.25854969 | < 0.001 | 400236 | RP11-33N16.1 |
| 0.258547783 | < 0.001 | 80856 | KIAA1715 |
| 0.258526146 | < 0.001 | 8681 | JMJD7-PLA2G4B |
| 0.258506745 | < 0.001 | 150786 | WTH3DI |
| 0.258430481 | < 0.001 | 54959 | ODAM |
| 0.258427739 | < 0.001 | 57231 | SNX14 |
| 0.25839442 | < 0.001 | 3149 | HMGB3 |
| 0.258379102 | < 0.001 | 147 | ADRA1B |
| 0.258290917 | < 0.001 | 64359 | NXN |
| 0.258283436 | < 0.001 | 222950 | C7orf51 |
| 0.258243889 | < 0.001 | 146198 | ZFP90 |
| 0.258223683 | < 0.001 | 25822 | DNAJB5 |
| 0.258157969 | < 0.001 | 23708 | GSPT2 |
| 0.258155704 | < 0.001 | 64240 | ABCG5 |
| 0.258154809 | < 0.001 | 246704 | LINC00315 |
| 0.25813207 | < 0.001 | 23491 | CES3 |
| 0.258106023 | < 0.001 | 7727 | ZNF174 |
| 0.25806585 | < 0.001 | 9455 | HOMER2 |
| 0.258031875 | < 0.001 | 57282 | SLC4A10 |
| 0.258014649 | < 0.001 | 23316 | CUX2 |
| 0.257869333 | < 0.001 | 57705 | WDFY4 |
| 0.257797331 | < 0.001 | 388566 | ZNF470 |
| 0.257777542 | < 0.001 | 729627 | AC130416.2 |
| 0.257774472 | < 0.001 | 83732 | RIOK1 |
| 0.25773567 | < 0.001 | 3606 | IL18 |
| 0.257693261 | < 0.001 | 2677 | GGCX |
| 0.257626027 | < 0.001 | 10255 | HCG9 |
| 0.257575661 | < 0.001 | 9159 | PCSK7 |
| 0.257475793 | < 0.001 | 5864 | RAB3A |
| 0.257467151 | < 0.001 | 636 | BICD1 |
| 0.257466167 | < 0.001 | 23764 | MAFF |
| 0.257458419 | < 0.001 | 116379 | IL22RA2 |
| 0.257341176 | < 0.001 | 220164 | DOK6 |
| 0.257316619 | < 0.001 | 22826 | DNAJC8 |
| 0.257311046 | < 0.001 | 89874 | SLC25A21 |
| 0.257089704 | < 0.001 | 81501 | TM7SF4 |
| 0.256896526 | < 0.001 | 91966 | CXorf40A |
| 0.256747901 | < 0.001 | 9437 | NCR1 |
| 0.25669989 | < 0.001 | 4747 | NEFL |
| 0.256672174 | < 0.001 | 51260 | CXorf26 |
| 0.256609887 | < 0.001 | 54922 | RASIP1 |
| 0.256560445 | < 0.001 | 64577 | ALDH8A1 |
| 0.256471425 | < 0.001 | 124997 | WDR81 |
| 0.256389886 | < 0.001 | 25829 | TMEM184B |
| 0.256296098 | < 0.001 | 727957 | HEATR7A |
| 0.256189436 | < 0.001 | 5203 | PFDN4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.346203327 | 0.039215293 | 0.054 | 1 | 27239 | GPR162 |
| 0.345945954 | 0.039368946 | 0.046 | 1 | 8754 | ADAM9 |
| 0.345945954 | 0.039368946 | 0.065 | 1 | 170691 | ADAMTS17 |
| 0.345945954 | 0.039368946 | 0.051 | 1 | 284677 | C1orf204 |
| 0.345688522 | 0.039523024 | 0.046 | 1 | 3933 | LCN1 |
| 0.345688522 | 0.039523024 | 0.048 | 1 | 55803 | ADAP2 |
| 0.345688522 | 0.039523024 | 0.061 | 1 | 80195 | RP11-369J21.1 |
| 0.345431149 | 0.039677598 | 0.054 | 1 | 4852 | NPY |
| 0.345431149 | 0.039677598 | 0.049 | 1 | 9024 | BRSK2 |
| 0.345431149 | 0.039677598 | 0.047 | 1 | 27344 | PCSK1N |
| 0.345431149 | 0.039677598 | 0.054 | 1 | 728591 | C13orf38 |
| 0.345173746 | 0.039832648 | 0.056 | 1 | 9750 | FAM65B |
| 0.345173746 | 0.039832648 | 0.051 | 1 | 50650 | ARHGEF3 |
| 0.344916344 | 0.039988298 | 0.056 | 1 | 54986 | ULK4 |
| 0.344916344 | 0.039988298 | 0.057 | 1 | 83930 | STARD3NL |
| 0.344916344 | 0.039988298 | 0.063 | 1 | 340156 | MYLK4 |
| 0.344658941 | 0.040144343 | 0.063 | 1 | 8569 | MKNK1 |
| 0.344658941 | 0.040144343 | 0.051 | 1 | 27341 | RRP7A |
| 0.344658941 | 0.040144343 | 0.054 | 1 | 57600 | FNIP2 |
| 0.344401538 | 0.040300898 | 0.056 | 1 | 138255 | C9orf135 |
| 0.344401538 | 0.040300898 | 0.059 | 1 | 654434 | LINC00338 |
| 0.344144136 | 0.040457953 | 0.06 | 1 | 5097 | PCDH1 |
| 0.343886763 | 0.040615566 | 0.04 | 1 | 2515 | ADAM2 |
| 0.343886763 | 0.040615566 | 0.044 | 1 | 26974 | ZNF285 |
| 0.34362933 | 0.040773641 | 0.05 | 1 | 5340 | PLG |
| 0.343371958 | 0.040932182 | 0.07 | 1 | 5874 | RAB27B |
| 0.343371958 | 0.040932182 | 0.077 | 1 | 7076 | TIMP1 |
| 0.343371958 | 0.040932182 | 0.057 | 1 | 51066 | C3orf32 |
| 0.343371958 | 0.040932182 | 0.067 | 1 | 84449 | ZNF333 |
| 0.343114525 | 0.041091245 | 0.073 | 1 | 127254 | C1orf173 |
| 0.342857152 | 0.041250799 | 0.052 | 1 | 23641 | LDOC1 |
| 0.342857152 | 0.041250799 | 0.054 | 1 | 23764 | MAFF |
| 0.342857152 | 0.041250799 | 0.062 | 1 | 80271 | ITPKC |
| 0.34259975 | 0.041410945 | 0.068 | 1 | 3899 | AFF3 |
| 0.34259975 | 0.041410945 | 0.051 | 1 | 90134 | KCNH7 |
| 0.34259975 | 0.041410945 | 0.061 | 1 | 170850 | KCNG3 |
| 0.34259975 | 0.041410945 | 0.068 | 1 | 219749 | ZNF25 |
| 0.342342317 | 0.041571528 | 0.062 | 1 | 1043 | CD52 |
| 0.342342317 | 0.041571528 | 0.06 | 1 | 57393 | TMEM27 |
| 0.342342317 | 0.041571528 | 0.071 | 1 | 169166 | SNX31 |
| 0.342084944 | 0.041732617 | 0.058 | 1 | 3927 | LASP1 |
| 0.342084944 | 0.041732617 | 0.05 | 1 | 5393 | EXOSC9 |
| 0.342084944 | 0.041732617 | 0.057 | 1 | 11151 | CORO1A |
| 0.342084944 | 0.041732617 | 0.055 | 1 | 118472 | ZNF511 |
| 0.342084944 | 0.041732617 | 0.071 | 1 | 338811 | FAM19A2 |
| 0.341827512 | 0.041894216 | 0.064 | 1 | 9920 | KBTBD11 |
| 0.341827512 | 0.041894216 | 0.065 | 1 | 10675 | CSPG5 |
| 0.341827512 | 0.041894216 | 0.063 | 1 | 26286 | ARFGAP3 |
| 0.341827512 | 0.041894216 | 0.057 | 1 | 91584 | PLXNA4 |
| 0.341570139 | 0.042056397 | 0.061 | 1 | 23339 | VPS39 |
| 0.341570139 | 0.042056397 | 0.063 | 1 | 57630 | SH3RF1 |
| 0.341570139 | 0.042056397 | 0.069 | 1 | 84314 | TMEM107 |
| 0.341312736 | 0.042219002 | 0.055 | 1 | 4145 | MATK |
| 0.341312736 | 0.042219002 | 0.052 | 1 | 125988 | C19orf70 |
| 0.341055334 | 0.042382136 | 0.063 | 1 | 1490 | CTGF |
| 0.341055334 | 0.042382136 | 0.057 | 1 | 5786 | PTPRA |
| 0.340797931 | 0.042545784 | 0.063 | 1 | 55336 | FBXL8 |
| 0.340797931 | 0.042545784 | 0.063 | 1 | 81557 | MAGED4B |
| 0.340540528 | 0.042710006 | 0.062 | 1 | 2267 | FGL1 |
| 0.340540528 | 0.042710006 | 0.075 | 1 | 5330 | PLCB2 |
| 0.340540528 | 0.042710006 | 0.079 | 1 | 23024 | PDZRN3 |
| 0.340540528 | 0.042710006 | 0.049 | 1 | 55505 | NOP10 |
| 0.340283126 | 0.042874705 | 0.06 | 1 | 6019 | RLN2 |
| 0.340283126 | 0.042874705 | 0.059 | 1 | 51622 | C7orf28A |
| 0.340025753 | 0.043039881 | 0.047 | 1 | 100288870 | ERLEC1P1 |
| 0.33976832 | 0.043205597 | 0.051 | 1 | 5361 | PLXNA1 |
| 0.33976832 | 0.043205597 | 0.072 | 1 | 8453 | CUL2 |
| 0.33976832 | 0.043205597 | 0.05 | 1 | 55352 | C17orf79 |
| 0.339510947 | 0.043371815 | 0.05 | 1 | 57007 | CXCR7 |
| 0.339510947 | 0.043371815 | 0.059 | 1 | 79898 | ZNF613 |
| 0.339253515 | 0.043538649 | 0.075 | 1 | 6867 | TACC1 |
| 0.339253515 | 0.043538649 | 0.067 | 1 | 22953 | P2RX2 |
| 0.339253515 | 0.043538649 | 0.058 | 1 | 130026 | ICA1L |
| 0.339253515 | 0.043538649 | 0.054 | 1 | 401548 | SNX30 |
| 0.339253515 | 0.043538649 | 0.069 | 1 | 646719 | LOC646719 |
| 0.338996142 | 0.043705929 | 0.064 | 1 | 85369 | FAM40A |
| 0.338738739 | 0.043873727 | 0.054 | 1 | 5478 | PPIA |
| 0.338738739 | 0.043873727 | 0.076 | 1 | 8927 | BSN |
| 0.338738739 | 0.043873727 | 0.048 | 1 | 55122 | AKIRIN2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.256179273 | < 0.001 | 83988 | NCALD |
| 0.256170839 | < 0.001 | 8929 | PHOX2B |
| 0.256139725 | < 0.001 | 79050 | NOC4L |
| 0.256106973 | < 0.001 | 83468 | GLT8D2 |
| 0.256085753 | < 0.001 | 27232 | GNMT |
| 0.256055593 | < 0.001 | 23368 | PPP1R13B |
| 0.256027579 | < 0.001 | 100130311 | AC233723.1 |
| 0.255961031 | < 0.001 | 51289 | RXFP3 |
| 0.255677074 | < 0.001 | 11283 | CYP4F8 |
| 0.255616665 | < 0.001 | 259173 | ALS2CL |
| 0.255534232 | < 0.001 | 122509 | IFI27L1 |
| 0.255442291 | < 0.001 | 10800 | CYSLTR1 |
| 0.255250663 | < 0.001 | 7092 | TLL1 |
| 0.255235255 | < 0.001 | 78999 | LRFN4 |
| 0.25517568 | < 0.001 | 229 | ALDOB |
| 0.255169839 | < 0.001 | 353355 | ZNF233 |
| 0.255144387 | < 0.001 | 11094 | C9orf7 |
| 0.25511995 | < 0.001 | 55586 | MIOX |
| 0.255025327 | < 0.001 | 79078 | C1orf50 |
| 0.25489229 | < 0.001 | 8315 | BRAP |
| 0.254882216 | < 0.001 | 4952 | OCRL |
| 0.2548154 | < 0.001 | 5671 | PSG3 |
| 0.254806161 | < 0.001 | 6752 | SSTR2 |
| 0.254803002 | < 0.001 | 55647 | RAB20 |
| 0.254784286 | < 0.001 | 83660 | TLN2 |
| 0.254656136 | < 0.001 | 9587 | MAD2L1BP |
| 0.25463298 | < 0.001 | 9827 | RGP1 |
| 0.254620165 | < 0.001 | 440044 | SLC22A20 |
| 0.254603714 | < 0.001 | 4591 | TRIM37 |
| 0.254573941 | < 0.001 | 51438 | MAGEC2 |
| 0.254535884 | < 0.001 | 652276 | AC141586.5 |
| 0.254525602 | < 0.001 | 54675 | CRLS1 |
| 0.254514486 | < 0.001 | 3087 | HHEX |
| 0.254412889 | < 0.001 | 54762 | GRAMD1C |
| 0.25438121 | < 0.001 | 54442 | KCTD5 |
| 0.254360735 | < 0.001 | 2867 | FFAR2 |
| 0.254196644 | < 0.001 | 26012 | NELF |
| 0.25414142 | < 0.001 | 8507 | ENC1 |
| 0.254133731 | < 0.001 | 8525 | DGKZ |
| 0.254124522 | < 0.001 | 10253 | SPRY2 |
| 0.254056633 | < 0.001 | 148268 | ZNF570 |
| 0.254055262 | < 0.001 | 7204 | TRIO |
| 0.25402832 | < 0.001 | 1404 | HAPLN1 |
| 0.253967315 | < 0.001 | 9545 | RAB3D |
| 0.253948271 | < 0.001 | 5932 | RBBP8 |
| 0.253811479 | < 0.001 | 441089 | CRSP8P |
| 0.253700882 | < 0.001 | 124773 | C17orf64 |
| 0.253656387 | < 0.001 | 7772 | ZNF229 |
| 0.253498018 | < 0.001 | 54431 | DNAJC10 |
| 0.253492713 | < 0.001 | 56171 | DNAH7 |
| 0.253478259 | < 0.001 | 2071 | ERCC3 |
| 0.25342375 | < 0.001 | 7582 | ZNF33B |
| 0.253340542 | < 0.001 | 25843 | MOBKL3 |
| 0.253334612 | < 0.001 | 10124 | ARL4A |
| 0.253315836 | < 0.001 | 10605 | PAIP1 |
| 0.253274798 | < 0.001 | 496 | ATP4B |
| 0.253229588 | < 0.001 | 8742 | TNFSF12 |
| 0.253219515 | < 0.001 | 92552 | ATXN3L |
| 0.253164768 | < 0.001 | 64432 | MRPS25 |
| 0.253091872 | < 0.001 | 201294 | UNC13D |
| 0.25308767 | < 0.001 | 23567 | ZNF346 |
| 0.25304088 | < 0.001 | 115353 | LRRC42 |
| 0.252860308 | < 0.001 | 23594 | ORC6L |
| 0.252800822 | < 0.001 | 10936 | GPR75 |
| 0.252702743 | < 0.001 | 954 | ENTPD2 |
| 0.252686858 | < 0.001 | 90273 | CEACAM21 |
| 0.252661645 | < 0.001 | 120400 | FAM55A |
| 0.252622694 | < 0.001 | 9139 | CBFA2T2 |
| 0.252598494 | < 0.001 | 340665 | CYP26C1 |
| 0.252510875 | < 0.001 | 283130 | SLC25A45 |
| 0.252496868 | < 0.001 | 64711 | HS3ST6 |
| 0.25236699 | < 0.001 | 286359 | LOC286359 |
| 0.252350092 | < 0.001 | 219927 | MRPL21 |
| 0.252293587 | < 0.001 | 7001 | PRDX2 |
| 0.252250314 | < 0.001 | 222553 | SLC35F1 |
| 0.252193511 | < 0.001 | 8454 | CUL1 |
| 0.252193004 | < 0.001 | 4109 | MAGEA10 |
| 0.2520096 | < 0.001 | 400765 | MIR2682 |
| 0.251936227 | < 0.001 | 341416 | OR6C2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.338738739 | 0.043873727 | 0.056 | 1 | 55437 | STRADB |
| 0.338738739 | 0.043873727 | 0.056 | 1 | 79586 | CHPF |
| 0.338738739 | 0.043873727 | 0.066 | 1 | 83874 | TBC1D10A |
| 0.338738739 | 0.043873727 | 0.067 | 1 | 117166 | WFIKKN1 |
| 0.338738739 | 0.043873727 | 0.06 | 1 | 285596 | FAM153A |
| 0.338481337 | 0.044042055 | 0.057 | 1 | 4216 | MAP3K4 |
| 0.338481337 | 0.044042055 | 0.055 | 1 | 27245 | AHDC1 |
| 0.338481337 | 0.044042055 | 0.06 | 1 | 55777 | MBD5 |
| 0.338481337 | 0.044042055 | 0.068 | 1 | 65263 | PYCRL |
| 0.338481337 | 0.044042055 | 0.056 | 1 | 393046 | OR2A5 |
| 0.338223934 | 0.044210982 | 0.061 | 1 | 10219 | KLRG1 |
| 0.338223934 | 0.044210982 | 0.06 | 1 | 10525 | HYOU1 |
| 0.338223934 | 0.044210982 | 0.058 | 1 | 25994 | HIGD1A |
| 0.338223934 | 0.044210982 | 0.073 | 1 | 79026 | AHNAK |
| 0.338223934 | 0.044210982 | 0.06 | 1 | 221960 | CCZ1B |
| 0.337966532 | 0.044380344 | 0.074 | 1 | 8454 | CUL1 |
| 0.337966532 | 0.044380344 | 0.063 | 1 | 23219 | FBXO28 |
| 0.337966532 | 0.044380344 | 0.078 | 1 | 27101 | CACYBP |
| 0.337966532 | 0.044380344 | 0.062 | 1 | 123811 | C16orf63 |
| 0.337966532 | 0.044380344 | 0.054 | 1 | 283951 | C16orf91 |
| 0.337709129 | 0.044550251 | 0.066 | 1 | 1262 | CNGA4 |
| 0.337709129 | 0.044550251 | 0.065 | 1 | 5591 | PRKDC |
| 0.337709129 | 0.044550251 | 0.065 | 1 | 5625 | PRODH |
| 0.337709129 | 0.044550251 | 0.068 | 1 | 10081 | PDCD7 |
| 0.337709129 | 0.044550251 | 0.056 | 1 | 221424 | C6orf154 |
| 0.337451756 | 0.044720683 | 0.047 | 1 | 3851 | KRT4 |
| 0.337451756 | 0.044720683 | 0.07 | 1 | 7224 | TRPC5 |
| 0.337194324 | 0.044891726 | 0.067 | 1 | 8818 | DPM2 |
| 0.337194324 | 0.044891726 | 0.069 | 1 | 79902 | NUP85 |
| 0.336936951 | 0.045063205 | 0.066 | 1 | 486 | FXYD2 |
| 0.336936951 | 0.045063205 | 0.059 | 1 | 55284 | UBE2W |
| 0.336936951 | 0.045063205 | 0.071 | 1 | 388387 | AC100793.3 |
| 0.336679518 | 0.045235235 | 0.058 | 1 | 5164 | PDK2 |
| 0.336679518 | 0.045235235 | 0.065 | 1 | 9774 | BCLAF1 |
| 0.336422145 | 0.045407802 | 0.068 | 1 | 5801 | PTPRR |
| 0.336422145 | 0.045407802 | 0.06 | 1 | 7874 | USP7 |
| 0.336164743 | 0.045580897 | 0.073 | 1 | 401237 | LINC00340 |
| 0.33590734 | 0.045754611 | 0.06 | 1 | 1 | A1BG |
| 0.335649937 | 0.045928765 | 0.068 | 1 | 3275 | PRMT2 |
| 0.335649937 | 0.045928765 | 0.075 | 1 | 8777 | MPDZ |
| 0.335649937 | 0.045928765 | 0.055 | 1 | 55082 | ARGLU1 |
| 0.335649937 | 0.045928765 | 0.072 | 1 | 57520 | HECW2 |
| 0.335649937 | 0.045928765 | 0.065 | 1 | 85019 | C18orf45 |
| 0.335649937 | 0.045928765 | 0.062 | 1 | 254863 | C17orf61 |
| 0.335392505 | 0.046103474 | 0.055 | 1 | 8407 | TAGLN2 |
| 0.334877729 | 0.046454594 | 0.066 | 1 | 2483 | FRG1 |
| 0.334877729 | 0.046454594 | 0.058 | 1 | 140707 | BRI3BP |
| 0.334877729 | 0.046454594 | 0.064 | 1 | 254887 | ZDHHC23 |
| 0.334620327 | 0.046630908 | 0.081 | 1 | 1803 | DPP4 |
| 0.334620327 | 0.046630908 | 0.058 | 1 | 91752 | ZNF804A |
| 0.334362924 | 0.046807781 | 0.06 | 1 | 5929 | RBBP5 |
| 0.334362924 | 0.046807781 | 0.061 | 1 | 10044 | SH2D3C |
| 0.334362924 | 0.046807781 | 0.073 | 1 | 54674 | LRRN3 |
| 0.334362924 | 0.046807781 | 0.069 | 1 | 57128 | LYRM4 |
| 0.334362924 | 0.046807781 | 0.063 | 1 | 116154 | PHACTR3 |
| 0.334362924 | 0.046807781 | 0.053 | 1 | 343263 | MYBPHL |
| 0.334105521 | 0.046985202 | 0.067 | 1 | 1443 | CSH2 |
| 0.333848119 | 0.04716317 | 0.071 | 1 | 10801 | SEPTIN9 |
| 0.333848119 | 0.04716317 | 0.063 | 1 | 23089 | PEG10 |
| 0.333848119 | 0.04716317 | 0.073 | 1 | 28316 | CDH20 |
| 0.333848119 | 0.04716317 | 0.071 | 1 | 29978 | UBQLN2 |
| 0.333848119 | 0.04716317 | 0.054 | 1 | 54927 | CHCHD3 |
| 0.333848119 | 0.04716317 | 0.072 | 1 | 129868 | TRIM43 |
| 0.333590746 | 0.047341757 | 0.069 | 1 | 887 | CCKBR |
| 0.333590746 | 0.047341757 | 0.063 | 1 | 9657 | IQCB1 |
| 0.333590746 | 0.047341757 | 0.065 | 1 | 150864 | FAM117B |
| 0.333333313 | 0.047520798 | 0.08 | 1 | 79837 | PIP4K2C |
| 0.333075941 | 0.047700409 | 0.067 | 1 | 5218 | PFTK1 |
| 0.333075941 | 0.047700409 | 0.06 | 1 | 6416 | MAP2K4 |
| 0.333075941 | 0.047700409 | 0.07 | 1 | 26084 | RP11-23D24.1 |
| 0.333075941 | 0.047700409 | 0.081 | 1 | 55337 | C19orf66 |
| 0.333075941 | 0.047700409 | 0.065 | 1 | 92595 | ZNF764 |
| 0.332818508 | 0.047880568 | 0.071 | 1 | 1650 | DDOST |
| 0.332818508 | 0.047880568 | 0.079 | 1 | 5892 | RAD51L3 |
| 0.332818508 | 0.047880568 | 0.064 | 1 | 6041 | RNASEL |
| 0.332818508 | 0.047880568 | 0.071 | 1 | 7101 | NR2E1 |
| 0.332818508 | 0.047880568 | 0.086 | 1 | 9956 | HS3ST2 |
| 0.332818508 | 0.047880568 | 0.077 | 1 | 126731 | C1orf96 |
| 0.332561135 | 0.04806136 | 0.056 | 1 | 1303 | COL12A1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.251810253 | < 0.001 | 126326 | GIPC3 |
| 0.251785427 | < 0.001 | 5610 | EIF2AK2 |
| 0.251664609 | < 0.001 | 440153 | OR11H12 |
| 0.251663566 | < 0.001 | 284612 | SYPL2 |
| 0.251546949 | < 0.001 | 84823 | LMNB2 |
| 0.2515091 | < 0.001 | 55280 | CWF19L1 |
| 0.251450121 | < 0.001 | 201255 | LRRC45 |
| 0.251338303 | < 0.001 | 939 | CD27 |
| 0.251311809 | < 0.001 | 57084 | SLC17A6 |
| 0.251175255 | < 0.001 | 10001 | MED6 |
| 0.251081228 | < 0.001 | 153733 | CCDC112 |
| 0.251049131 | < 0.001 | 6344 | SCTR |
| 0.250660777 | < 0.001 | 3275 | PRMT2 |
| 0.250573695 | < 0.001 | 1870 | E2F2 |
| 0.250557691 | < 0.001 | 2739 | GLO1 |
| 0.250286281 | < 0.001 | 53829 | P2RY13 |
| 0.250277728 | < 0.001 | 64579 | NDST4 |
| 0.250202805 | < 0.001 | 64478 | CSMD1 |
| 0.250194609 | < 0.001 | 3084 | NRG1 |
| 0.250171602 | < 0.001 | 122830 | NAA30 |
| 0.250040323 | < 0.001 | 149837 | LOC149837 |
| 0.250006199 | < 0.001 | 5045 | FURIN |
| 0.250003546 | < 0.001 | 3747 | KCNC2 |
| 0.24998568 | < 0.001 | 146206 | RLTPR |
| 0.24987559 | < 0.001 | 259197 | NCR3 |
| 0.249862626 | < 0.001 | 5536 | PPP5C |
| 0.249828503 | < 0.001 | 8128 | ST8SIA2 |
| 0.249750674 | < 0.001 | 27255 | CNTN6 |
| 0.249682277 | < 0.001 | 51651 | PTRH2 |
| 0.249594659 | < 0.001 | 3503 | IGHG4 |
| 0.249552041 | < 0.001 | 8835 | SOCS2 |
| 0.249519065 | < 0.001 | 9921 | RNF10 |
| 0.249343738 | < 0.001 | 8266 | UBL4A |
| 0.249305889 | < 0.001 | 342897 | NCCRP1 |
| 0.24926351 | < 0.001 | 79798 | ARMC5 |
| 0.249176532 | < 0.001 | 2114 | ETS2 |
| 0.249152616 | < 0.001 | 4359 | MPZ |
| 0.24911125 | < 0.001 | 55240 | STEAP3 |
| 0.24910298 | < 0.001 | 91584 | PLXNA4 |
| 0.249101266 | < 0.001 | 29035 | C16orf72 |
| 0.249091834 | < 0.001 | 114786 | XKR4 |
| 0.249048427 | < 0.001 | 5898 | RALA |
| 0.249032691 | < 0.001 | 7317 | UBA1 |
| 0.248947948 | < 0.001 | 80231 | CXorf21 |
| 0.248940229 | < 0.001 | 4210 | MEFV |
| 0.248850569 | < 0.001 | 10426 | TUBGCP3 |
| 0.248822674 | < 0.001 | 26532 | OR10H3 |
| 0.24882035 | < 0.001 | 93627 | AC004053.1 |
| 0.248815656 | < 0.001 | 8560 | DEGS1 |
| 0.248791412 | < 0.001 | 56681 | SAR1A |
| 0.248781115 | < 0.001 | 90353 | ATPBD3 |
| 0.248751715 | < 0.001 | 899 | CCNF |
| 0.248740718 | < 0.001 | 9689 | BZW1 |
| 0.248610973 | < 0.001 | 247 | ALOX15B |
| 0.24853529 | < 0.001 | 10048 | RANBP9 |
| 0.248461142 | < 0.001 | 85364 | ZCCHC3 |
| 0.248424321 | < 0.001 | 56993 | TOMM22 |
| 0.248410389 | < 0.001 | 5798 | PTPRN |
| 0.248395994 | < 0.001 | 6059 | ABCE1 |
| 0.248251364 | < 0.001 | 5290 | PIK3CA |
| 0.247966304 | < 0.001 | 3270 | HRC |
| 0.247888163 | < 0.001 | 359710 | C20orf185 |
| 0.247876868 | < 0.001 | 55181 | C17orf71 |
| 0.247874558 | < 0.001 | 55016 | MARCHF1 |
| 0.247801334 | < 0.001 | 27039 | PKD2L2 |
| 0.247708321 | < 0.001 | 23397 | NCAPH |
| 0.247622654 | < 0.001 | 23158 | TBC1D9 |
| 0.247546643 | < 0.001 | 387882 | C12ORF75 |
| 0.247488141 | < 0.001 | 5743 | PTGS2 |
| 0.247476071 | < 0.001 | 83483 | PLVAP |
| 0.247475788 | < 0.001 | 222068 | TMED4 |
| 0.247397035 | < 0.001 | 147199 | SCGB1C1 |
| 0.247327805 | < 0.001 | 27072 | VPS41 |
| 0.247255176 | < 0.001 | 90416 | C15orf57 |
| 0.247250035 | < 0.001 | 551 | AVP |
| 0.247197241 | < 0.001 | 152518 | NFXL1 |
| 0.247180015 | < 0.001 | 55226 | NAT10 |
| 0.247132137 | < 0.001 | 284600 | RP11-54O7.1 |
| 0.247100383 | < 0.001 | 54965 | PIGX |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.332561135 | 0.04806136 | 0.059 | 1 | 64711 | HS3ST6 |
| 0.332561135 | 0.04806136 | 0.074 | 1 | 118471 | PRAP1 |
| 0.332303733 | 0.048242621 | 0.061 | 1 | 25771 | TBC1D22A |
| 0.332303733 | 0.048242621 | 0.067 | 1 | 60626 | RIC8A |
| 0.332303733 | 0.048242621 | 0.058 | 1 | 339559 | ZNF642 |
| 0.33204633 | 0.048424415 | 0.069 | 1 | 1240 | CMKLR1 |
| 0.33204633 | 0.048424415 | 0.067 | 1 | 9107 | MTMR6 |
| 0.33204633 | 0.048424415 | 0.063 | 1 | 10574 | CCT7 |
| 0.33204633 | 0.048424415 | 0.072 | 1 | 11346 | SYNPO |
| 0.33204633 | 0.048424415 | 0.082 | 1 | 65217 | PCDH15 |
| 0.33204633 | 0.048424415 | 0.072 | 1 | 646517 | LOC646517 |
| 0.331788927 | 0.048606791 | 0.064 | 1 | 23396 | PIP5K1C |
| 0.331788927 | 0.048606791 | 0.072 | 1 | 29966 | STRN3 |
| 0.331788927 | 0.048606791 | 0.062 | 1 | 51377 | UCHL5 |
| 0.331788927 | 0.048606791 | 0.072 | 1 | 284013 | VMO1 |
| 0.331531525 | 0.048789795 | 0.073 | 1 | 4753 | NELL2 |
| 0.331531525 | 0.048789795 | 0.069 | 1 | 407738 | FAM19A1 |
| 0.331274122 | 0.048973285 | 0.073 | 1 | 4018 | LPA |
| 0.331274122 | 0.048973285 | 0.073 | 1 | 9473 | C1orf38 |
| 0.331274122 | 0.048973285 | 0.058 | 1 | 84766 | EFCAB4B |
| 0.331274122 | 0.048973285 | 0.067 | 1 | 153733 | CCDC112 |
| 0.331274122 | 0.048973285 | 0.067 | 1 | 284417 | TMEM150B |
| 0.330759317 | 0.04934191 | 0.071 | 1 | 2132 | EXT2 |
| 0.330759317 | 0.04934191 | 0.06 | 1 | 5680 | PSG11 |
| 0.330759317 | 0.04934191 | 0.069 | 1 | 22974 | TPX2 |
| 0.330759317 | 0.04934191 | 0.077 | 1 | 27010 | TPK1 |
| 0.330759317 | 0.04934191 | 0.065 | 1 | 128611 | ZNF831 |
| 0.330501944 | 0.049527071 | 0.071 | 1 | 157 | ADRBK2 |
| 0.330501944 | 0.049527071 | 0.07 | 1 | 2556 | GABRA3 |
| 0.330501944 | 0.049527071 | 0.062 | 1 | 645212 | LOC645212 |
| 0.330501944 | 0.049527071 | 0.077 | 1 | 729515 | TMEM242 |
| 0.330244511 | 0.049712881 | 0.073 | 1 | 9743 | AP000751.3 |
| 0.330244511 | 0.049712881 | 0.055 | 1 | 25943 | C20orf194 |
| 0.330244511 | 0.049712881 | 0.063 | 1 | 55359 | STYK1 |
| 0.330244511 | 0.049712881 | 0.085 | 1 | 199882 | LOC199882 |
| 0.329987139 | 0.049899168 | 0.069 | 1 | 23635 | SSBP2 |
| 0.329729736 | 0.050086025 | 0.067 | 1 | 2021 | ENDOG |
| 0.329729736 | 0.050086025 | 0.079 | 1 | 27258 | LSM3 |
| 0.329729736 | 0.050086025 | 0.068 | 1 | 28512 | NKIRAS1 |
| 0.329729736 | 0.050086025 | 0.064 | 1 | 55530 | SVOP |
| 0.329729736 | 0.050086025 | 0.07 | 1 | 57449 | PLEKHG5 |
| 0.329729736 | 0.050086025 | 0.064 | 1 | 124637 | CYB5D1 |
| 0.329729736 | 0.050086025 | 0.077 | 1 | 145864 | HAPLN3 |
| 0.329729736 | 0.050086025 | 0.068 | 1 | 728739 | LOC728739 |
| 0.329472333 | 0.050273418 | 0.083 | 1 | 2039 | EPB49 |
| 0.329472333 | 0.050273418 | 0.07 | 1 | 26960 | NBEA |
| 0.329472333 | 0.050273418 | 0.077 | 1 | 128387 | TATDN3 |
| 0.329472333 | 0.050273418 | 0.051 | 1 | 348180 | C16orf84 |
| 0.329214931 | 0.05046149 | 0.067 | 1 | 659 | BMPR2 |
| 0.329214931 | 0.05046149 | 0.084 | 1 | 2867 | FFAR2 |
| 0.329214931 | 0.05046149 | 0.074 | 1 | 3980 | LIG3 |
| 0.329214931 | 0.05046149 | 0.076 | 1 | 5214 | PFKP |
| 0.329214931 | 0.05046149 | 0.077 | 1 | 83539 | CHST9 |
| 0.328957528 | 0.050650042 | 0.068 | 1 | 1107 | CHD3 |
| 0.328957528 | 0.050650042 | 0.086 | 1 | 3763 | KCNJ6 |
| 0.328957528 | 0.050650042 | 0.068 | 1 | 5567 | PRKACB |
| 0.328957528 | 0.050650042 | 0.087 | 1 | 11250 | GPR45 |
| 0.328957528 | 0.050650042 | 0.08 | 1 | 23094 | SIPA1L3 |
| 0.328957528 | 0.050650042 | 0.065 | 1 | 51241 | COX16 |
| 0.328957528 | 0.050650042 | 0.071 | 1 | 54769 | DIRAS2 |
| 0.328957528 | 0.050650042 | 0.067 | 1 | 400456 | CTD-2536I1.1 |
| 0.328700125 | 0.050839163 | 0.06 | 1 | 400120 | C13orf36 |
| 0.328442723 | 0.051028855 | 0.074 | 1 | 3361 | HTR5A |
| 0.328442723 | 0.051028855 | 0.061 | 1 | 8976 | WASL |
| 0.328442723 | 0.051028855 | 0.076 | 1 | 9653 | HS2ST1 |
| 0.328442723 | 0.051028855 | 0.068 | 1 | 22884 | WDR37 |
| 0.328442723 | 0.051028855 | 0.064 | 1 | 23053 | KIAA0913 |
| 0.328442723 | 0.051028855 | 0.093 | 1 | 57662 | KIAA1543 |
| 0.32818532 | 0.051219184 | 0.073 | 1 | 2224 | FDPS |
| 0.32818532 | 0.051219184 | 0.076 | 1 | 79101 | TAF1D |
| 0.327927917 | 0.051410023 | 0.071 | 1 | 10094 | ARPC3 |
| 0.327670515 | 0.051601432 | 0.065 | 1 | 552 | AVPR1A |
| 0.327670515 | 0.051601432 | 0.065 | 1 | 4209 | MEF2D |
| 0.327413112 | 0.051793419 | 0.09 | 1 | 5578 | PRKCA |
| 0.327413112 | 0.051793419 | 0.065 | 1 | 6634 | SNRPD3 |
| 0.327413112 | 0.051793419 | 0.063 | 1 | 25854 | FAM149A |
| 0.327155739 | 0.05198596 | 0.065 | 1 | 3283 | HSD3B1 |
| 0.327155739 | 0.05198596 | 0.081 | 1 | 10788 | IQGAP2 |
| 0.327155739 | 0.05198596 | 0.07 | 1 | 114784 | CSMD2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.247061744 | < 0.001 | 285237 | C3orf38 |
| 0.246905029 | < 0.001 | 140685 | ZBTB46 |
| 0.246834636 | < 0.001 | 624 | BDKRB2 |
| 0.24678719 | < 0.001 | 140456 | ASB11 |
| 0.246733502 | < 0.001 | 6810 | STX4 |
| 0.246706396 | < 0.001 | 6093 | ROCK1 |
| 0.246658847 | < 0.001 | 142913 | CFL1P1 |
| 0.246620581 | < 0.001 | 5009 | OTC |
| 0.246536821 | < 0.001 | 7257 | TSNAX |
| 0.246477947 | < 0.001 | 5292 | PIM1 |
| 0.246435136 | < 0.001 | 10256 | CNKSR1 |
| 0.246434942 | < 0.001 | 79674 | VEPH1 |
| 0.246350989 | < 0.001 | 80832 | APOL4 |
| 0.246309385 | < 0.001 | 10154 | PLXNC1 |
| 0.246221021 | < 0.001 | 1140 | CHRNB1 |
| 0.246187359 | < 0.001 | 91948 | RP11-82I10.1 |
| 0.246162474 | < 0.001 | 55573 | CDV3 |
| 0.246084377 | < 0.001 | 60314 | C12orf10 |
| 0.24603571 | < 0.001 | 55127 | HEATR1 |
| 0.245991692 | < 0.001 | 339230 | CCDC137 |
| 0.245970711 | < 0.001 | 57560 | IFT80 |
| 0.245871902 | < 0.001 | 79683 | ZDHHC14 |
| 0.2458653 | < 0.001 | 122416 | ANKRD9 |
| 0.245740265 | < 0.001 | 54901 | CDKAL1 |
| 0.245715514 | < 0.001 | 11166 | SOX21 |
| 0.245647073 | < 0.001 | 60558 | GUF1 |
| 0.245623067 | < 0.001 | 8624 | PSMG1 |
| 0.245601192 | < 0.001 | 8871 | SYNJ2 |
| 0.245561078 | < 0.001 | 150921 | TCF23 |
| 0.245558292 | < 0.001 | 9338 | TCEAL1 |
| 0.245534882 | < 0.001 | 11171 | STRAP |
| 0.24551706 | < 0.001 | 729830 | FAM160A1 |
| 0.245516315 | < 0.001 | 5870 | RAB6A |
| 0.245500669 | < 0.001 | 55763 | EXOC1 |
| 0.245369121 | < 0.001 | 113174 | SAAL1 |
| 0.245360851 | < 0.001 | 60685 | ZFAND3 |
| 0.245286286 | < 0.001 | 10606 | PAICS |
| 0.245244682 | < 0.001 | 56729 | RETN |
| 0.245212868 | < 0.001 | 55770 | EXOC2 |
| 0.245184824 | < 0.001 | 2273 | FHL1 |
| 0.245175868 | < 0.001 | 11284 | PNKP |
| 0.245127618 | < 0.001 | 29881 | NPC1L1 |
| 0.245110169 | < 0.001 | 6472 | SHMT2 |
| 0.245082259 | < 0.001 | 10077 | TSPAN32 |
| 0.245014608 | < 0.001 | 51003 | MED31 |
| 0.244979784 | < 0.001 | 29121 | CLEC2D |
| 0.244941607 | < 0.001 | 2255 | FGF10 |
| 0.244918868 | < 0.001 | 9168 | TMSB10 |
| 0.244907394 | < 0.001 | 905 | CCNT2 |
| 0.244880512 | < 0.001 | 2175 | FANCA |
| 0.244827807 | < 0.001 | 2932 | GSK3B |
| 0.24467203 | < 0.001 | 143162 | FRMPD2 |
| 0.244671702 | < 0.001 | 781 | CACNA2D1 |
| 0.244668081 | < 0.001 | 23332 | CLASP1 |
| 0.244514614 | < 0.001 | 440132 | LINC00545 |
| 0.244354561 | < 0.001 | 2730 | GCLM |
| 0.244353637 | < 0.001 | 149095 | DCST1 |
| 0.244275481 | < 0.001 | 3780 | KCNN1 |
| 0.244247764 | < 0.001 | 284613 | CYB561D1 |
| 0.244233787 | < 0.001 | 442213 | C6orf138 |
| 0.244230628 | < 0.001 | 347168 | OR1J1 |
| 0.244226873 | < 0.001 | 799 | CALCR |
| 0.244212657 | < 0.001 | 8532 | CPZ |
| 0.244208619 | < 0.001 | 94039 | ZNF101 |
| 0.244201794 | < 0.001 | 29933 | GPR132 |
| 0.244131595 | < 0.001 | 148266 | ZNF569 |
| 0.244108468 | < 0.001 | 1356 | CP |
| 0.244102284 | < 0.001 | 142891 | SAMD8 |
| 0.244078323 | < 0.001 | 80108 | ZFP2 |
| 0.244065747 | < 0.001 | 94009 | SERHL |
| 0.244015694 | < 0.001 | 100287016 | DSTNP3 |
| 0.243992433 | < 0.001 | 152065 | C3orf22 |
| 0.243870452 | < 0.001 | 7538 | ZFP36 |
| 0.24379918 | < 0.001 | 50650 | ARHGEF3 |
| 0.243792072 | < 0.001 | 125875 | CLDND2 |
| 0.243737787 | < 0.001 | 154743 | C7orf60 |
| 0.243723124 | < 0.001 | 197335 | WDR90 |
| 0.243678123 | < 0.001 | 29801 | ZDHHC8 |
| 0.243673906 | < 0.001 | 55593 | OTUD5 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.327155739 | 0.05198596 | 0.078 | 1 | 353355 | ZNF233 |
| 0.326898307 | 0.052179184 | 0.071 | 1 | 5251 | PHEX |
| 0.326898307 | 0.052179184 | 0.077 | 1 | 23237 | ARC |
| 0.326898307 | 0.052179184 | 0.097 | 1 | 374860 | C21orf110 |
| 0.326640934 | 0.052372903 | 0.065 | 1 | 10242 | KCNMB2 |
| 0.326640934 | 0.052372903 | 0.056 | 1 | 11092 | C9orf9 |
| 0.326383501 | 0.052567199 | 0.074 | 1 | 23034 | SAMD4A |
| 0.326383501 | 0.052567199 | 0.079 | 1 | 51534 | VTA1 |
| 0.326383501 | 0.052567199 | 0.081 | 1 | 54557 | SGTB |
| 0.326383501 | 0.052567199 | 0.064 | 1 | 219970 | GLYATL2 |
| 0.326126128 | 0.05276208 | 0.066 | 1 | 9753 | ZSCAN12 |
| 0.326126128 | 0.05276208 | 0.069 | 1 | 10295 | BCKDK |
| 0.326126128 | 0.05276208 | 0.074 | 1 | 10620 | ARID3B |
| 0.326126128 | 0.05276208 | 0.072 | 1 | 63925 | ZNF335 |
| 0.326126128 | 0.05276208 | 0.075 | 1 | 121355 | GTSF1 |
| 0.325868726 | 0.052957606 | 0.07 | 1 | 10911 | UTS2 |
| 0.325868726 | 0.052957606 | 0.072 | 1 | 246213 | SLC17A8 |
| 0.325611323 | 0.053153649 | 0.07 | 1 | 205 | AK3L1 |
| 0.325611323 | 0.053153649 | 0.067 | 1 | 1973 | EIF4A1 |
| 0.325611323 | 0.053153649 | 0.079 | 1 | 3598 | IL13RA2 |
| 0.325611323 | 0.053153649 | 0.075 | 1 | 10570 | DPYSL4 |
| 0.325611323 | 0.053153649 | 0.076 | 1 | 340543 | TCEAL5 |
| 0.325611323 | 0.053153649 | 0.078 | 1 | 342541 | LOC342541 |
| 0.325611323 | 0.053153649 | 0.068 | 1 | 100287728 | LOC100287728 |
| 0.32535392 | 0.053350281 | 0.079 | 1 | 51310 | SLC22A17 |
| 0.325096518 | 0.053547494 | 0.079 | 1 | 2853 | GPR31 |
| 0.325096518 | 0.053547494 | 0.085 | 1 | 132789 | GNPDA2 |
| 0.324839115 | 0.053745385 | 0.074 | 1 | 1284 | COL4A2 |
| 0.324839115 | 0.053745385 | 0.066 | 1 | 9229 | DLGAP1 |
| 0.324581742 | 0.053943753 | 0.088 | 1 | 10004 | NAALADL1 |
| 0.324581742 | 0.053943753 | 0.079 | 1 | 246182 | AKR7A2P1 |
| 0.324581742 | 0.053943753 | 0.078 | 1 | 387836 | CLEC2A |
| 0.32432431 | 0.054142732 | 0.068 | 1 | 1432 | MAPK14 |
| 0.32432431 | 0.054142732 | 0.069 | 1 | 2931 | GSK3A |
| 0.32432431 | 0.054142732 | 0.069 | 1 | 162632 | AC022596.6 |
| 0.32432431 | 0.054142732 | 0.074 | 1 | 200942 | KLHDC8B |
| 0.32432431 | 0.054142732 | 0.085 | 1 | 644353 | ZCCHC18 |
| 0.324066937 | 0.054342303 | 0.083 | 1 | 22983 | MAST1 |
| 0.324066937 | 0.054342303 | 0.071 | 1 | 56034 | PDGFC |
| 0.324066937 | 0.054342303 | 0.076 | 1 | 389762 | FAM75D3 |
| 0.323809505 | 0.054542467 | 0.073 | 1 | 5710 | PSMD4 |
| 0.323809505 | 0.054542467 | 0.064 | 1 | 221786 | C7orf38 |
| 0.323552132 | 0.054743312 | 0.066 | 1 | 865 | CBFB |
| 0.323552132 | 0.054743312 | 0.079 | 1 | 4920 | ROR2 |
| 0.323552132 | 0.054743312 | 0.074 | 1 | 8471 | IRS4 |
| 0.323552132 | 0.054743312 | 0.072 | 1 | 27098 | CLUL1 |
| 0.323552132 | 0.054743312 | 0.07 | 1 | 57037 | ANKMY2 |
| 0.323552132 | 0.054743312 | 0.074 | 1 | 81579 | PLA2G12A |
| 0.323552132 | 0.054743312 | 0.074 | 1 | 168391 | GALNTL5 |
| 0.323294729 | 0.054944638 | 0.085 | 1 | 5802 | PTPRS |
| 0.323294729 | 0.054944638 | 0.072 | 1 | 6360 | CCL16 |
| 0.323294729 | 0.054944638 | 0.096 | 1 | 6861 | SYT5 |
| 0.323294729 | 0.054944638 | 0.068 | 1 | 10691 | GMEB1 |
| 0.323294729 | 0.054944638 | 0.062 | 1 | 56136 | PCDHA13 |
| 0.323294729 | 0.054944638 | 0.072 | 1 | 84461 | NEURL4 |
| 0.323294729 | 0.054944638 | 0.067 | 1 | 142940 | TRUB1 |
| 0.323037326 | 0.055146586 | 0.078 | 1 | 5713 | PSMD7 |
| 0.323037326 | 0.055146586 | 0.073 | 1 | 6607 | SMN2 |
| 0.323037326 | 0.055146586 | 0.073 | 1 | 23418 | CRB1 |
| 0.323037326 | 0.055146586 | 0.066 | 1 | 29933 | GPR132 |
| 0.323037326 | 0.055146586 | 0.069 | 1 | 145553 | MDP1 |
| 0.322779924 | 0.055349123 | 0.087 | 1 | 116238 | TLCD1 |
| 0.322522521 | 0.055552356 | 0.068 | 1 | 23414 | ZFPM2 |
| 0.322522521 | 0.055552356 | 0.066 | 1 | 26009 | ZZZ3 |
| 0.322522521 | 0.055552356 | 0.079 | 1 | 284123 | FAM27L |
| 0.322265118 | 0.055756092 | 0.079 | 1 | 27075 | TSPAN13 |
| 0.322265118 | 0.055756092 | 0.077 | 1 | 54714 | CNGB3 |
| 0.322007746 | 0.055960406 | 0.079 | 1 | 7786 | MAP3K12 |
| 0.322007746 | 0.055960406 | 0.064 | 1 | 55924 | C1orf183 |
| 0.322007746 | 0.055960406 | 0.07 | 1 | 64926 | RASAL3 |
| 0.322007746 | 0.055960406 | 0.063 | 1 | 116138 | KLHDC3 |
| 0.322007746 | 0.055960406 | 0.082 | 1 | 200035 | NUDT17 |
| 0.322007746 | 0.055960406 | 0.085 | 1 | 285759 | RP11-544L8__B.4 |
| 0.321750313 | 0.056165349 | 0.082 | 1 | 2118 | ETV4 |
| 0.321750313 | 0.056165349 | 0.072 | 1 | 5331 | PLCB3 |
| 0.321750313 | 0.056165349 | 0.084 | 1 | 5991 | RFX3 |
| 0.321750313 | 0.056165349 | 0.082 | 1 | 51019 | CCDC53 |
| 0.321750313 | 0.056165349 | 0.091 | 1 | 51466 | EVL |
| 0.321750313 | 0.056165349 | 0.067 | 1 | 56947 | MFF |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.243647575 | < 0.001 | 146167 | SLC38A8 |
| 0.243551403 | < 0.001 | 57665 | RDH14 |
| 0.24352406 | < 0.001 | 346157 | ZNF391 |
| 0.243522063 | < 0.001 | 55300 | PI4K2B |
| 0.243493035 | < 0.001 | 54998 | AURKAIP1 |
| 0.243473679 | < 0.001 | 8578 | SCARF1 |
| 0.2434728 | < 0.001 | 611 | OPN1SW |
| 0.243422329 | < 0.001 | 2627 | GATA6 |
| 0.243382066 | < 0.001 | 6360 | CCL16 |
| 0.243371293 | < 0.001 | 4893 | NRAS |
| 0.243353143 | < 0.001 | 23253 | ANKRD12 |
| 0.243350208 | < 0.001 | 7038 | TG |
| 0.243336514 | < 0.001 | 375484 | C5orf25 |
| 0.243274108 | < 0.001 | 23190 | UBXN4 |
| 0.243085638 | < 0.001 | 340533 | KIAA2022 |
| 0.243082806 | < 0.001 | 100288870 | ERLEC1P1 |
| 0.243063956 | < 0.001 | 10159 | ATP6AP2 |
| 0.243047848 | < 0.001 | 1364 | CLDN4 |
| 0.243041113 | < 0.001 | 442361 | OR2A2 |
| 0.243008196 | < 0.001 | 4111 | MAGEA12 |
| 0.242988452 | < 0.001 | 7084 | TK2 |
| 0.242976248 | < 0.001 | 100131315 | LOC100131315 |
| 0.242930278 | < 0.001 | 116028 | C16orf75 |
| 0.242898613 | < 0.001 | 135941 | OR2A14 |
| 0.242883697 | < 0.001 | 9947 | MAGEC1 |
| 0.242847815 | < 0.001 | 3748 | KCNC3 |
| 0.242819861 | < 0.001 | 285231 | FBXW12 |
| 0.242772117 | < 0.001 | 10817 | FRS3 |
| 0.242759779 | < 0.001 | 440073 | IQSEC3 |
| 0.242748901 | < 0.001 | 339803 | AC016747.3 |
| 0.242715985 | < 0.001 | 421 | ARVCF |
| 0.242633805 | < 0.001 | 51193 | ZNF639 |
| 0.242608964 | < 0.001 | 4141 | MARS |
| 0.242595911 | < 0.001 | 54984 | PINX1 |
| 0.242584959 | < 0.001 | 10870 | HCST |
| 0.242397591 | < 0.001 | 4898 | NRD1 |
| 0.242319629 | < 0.001 | 9657 | IQCB1 |
| 0.242286295 | < 0.001 | 128826 | C20orf166 |
| 0.242242187 | < 0.001 | 152118 | RP11-292E2.1 |
| 0.242222175 | < 0.001 | 55620 | STAP2 |
| 0.242218226 | < 0.001 | 9125 | RQCD1 |
| 0.242109895 | < 0.001 | 5244 | ABCB4 |
| 0.242096528 | < 0.001 | 7031 | TFF1 |
| 0.242006719 | < 0.001 | 57689 | LRRC4C |
| 0.24195829 | < 0.001 | 4809 | NHP2L1 |
| 0.241880059 | < 0.001 | 113130 | CDCA5 |
| 0.241736293 | < 0.001 | 6309 | SC5DL |
| 0.241669208 | < 0.001 | 10014 | HDAC5 |
| 0.241653129 | < 0.001 | 50628 | GEMIN4 |
| 0.241641715 | < 0.001 | 5578 | PRKCA |
| 0.241630808 | < 0.001 | 64417 | C5orf28 |
| 0.24162513 | < 0.001 | 338707 | B4GALNT4 |
| 0.241583765 | < 0.001 | 4915 | NTRK2 |
| 0.241531208 | < 0.001 | 1662 | DDX10 |
| 0.241510674 | < 0.001 | 84516 | DCTN5 |
| 0.241432533 | < 0.001 | 7136 | TNNI2 |
| 0.241409495 | < 0.001 | 344805 | TMPRSS7 |
| 0.24126853 | < 0.001 | 8445 | DYRK2 |
| 0.241236448 | < 0.001 | 6844 | VAMP2 |
| 0.24122034 | < 0.001 | 9278 | ZBTB22 |
| 0.241214022 | < 0.001 | 90843 | TCEAL8 |
| 0.241191864 | < 0.001 | 10471 | PFDN6 |
| 0.241164938 | < 0.001 | 152138 | PYDC2 |
| 0.241152734 | < 0.001 | 222 | ALDH3B2 |
| 0.241104245 | < 0.001 | 9607 | CARTPT |
| 0.241090596 | < 0.001 | 314 | AOC2 |
| 0.241086513 | < 0.001 | 85363 | TRIM5 |
| 0.240999311 | < 0.001 | 92949 | ADAMTSL1 |
| 0.240994111 | < 0.001 | 503693 | LOH12CR2 |
| 0.240993828 | < 0.001 | 84322 | C18orf12 |
| 0.240984589 | < 0.001 | 55269 | PSPC1 |
| 0.240966991 | < 0.001 | 1501 | CTNND2 |
| 0.240909651 | < 0.001 | 51729 | WBP11 |
| 0.240877375 | < 0.001 | 644 | BLVRA |
| 0.24086763 | < 0.001 | 80139 | ZNF703 |
| 0.24085778 | < 0.001 | 7399 | USH2A |
| 0.240847051 | < 0.001 | 79315 | OR7E91P |
| 0.240846545 | < 0.001 | 1718 | DHCR24 |
| 0.240839168 | < 0.001 | 51478 | HSD17B7 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.321750313 | 0.056165349 | 0.079 | 1 | 84926 | SPRYD3 |
| 0.321750313 | 0.056165349 | 0.071 | 1 | 151651 | EFHB |
| 0.32149291 | 0.056370981 | 0.071 | 1 | 27445 | PCLO |
| 0.32149291 | 0.056370981 | 0.076 | 1 | 30836 | DNTTIP2 |
| 0.32149291 | 0.056370981 | 0.072 | 1 | 57605 | PITPNM2 |
| 0.32149291 | 0.056370981 | 0.065 | 1 | 219902 | TMEM136 |
| 0.32149291 | 0.056370981 | 0.073 | 1 | 401994 | OR14I1 |
| 0.321235508 | 0.056577131 | 0.081 | 1 | 79751 | SLC25A22 |
| 0.321235508 | 0.056577131 | 0.093 | 1 | 139728 | PNCK |
| 0.320978105 | 0.056783881 | 0.089 | 1 | 2355 | FOSL2 |
| 0.320978105 | 0.056783881 | 0.074 | 1 | 2967 | GTF2H3 |
| 0.320978105 | 0.056783881 | 0.095 | 1 | 84648 | LCE3D |
| 0.320720732 | 0.056991216 | 0.084 | 1 | 284346 | ZNF575 |
| 0.3204633 | 0.05719918 | 0.082 | 1 | 9519 | TBPL1 |
| 0.3204633 | 0.05719918 | 0.07 | 1 | 10302 | SNAPC5 |
| 0.320205927 | 0.057407849 | 0.074 | 1 | 862 | RUNX1T1 |
| 0.320205927 | 0.057407849 | 0.066 | 1 | 7099 | TLR4 |
| 0.320205927 | 0.057407849 | 0.089 | 1 | 55259 | CASC1 |
| 0.320205927 | 0.057407849 | 0.068 | 1 | 85028 | SNHG12 |
| 0.320205927 | 0.057407849 | 0.085 | 1 | 149297 | FAM78B |
| 0.320205927 | 0.057407849 | 0.079 | 1 | 206338 | AC034236.3 |
| 0.319948494 | 0.057617031 | 0.078 | 1 | 4597 | MVD |
| 0.319948494 | 0.057617031 | 0.09 | 1 | 4675 | NAP1L3 |
| 0.319948494 | 0.057617031 | 0.096 | 1 | 84850 | GLIS3-AS1 |
| 0.319948494 | 0.057617031 | 0.07 | 1 | 146279 | TEKT5 |
| 0.319948494 | 0.057617031 | 0.078 | 1 | 146861 | AMAC1 |
| 0.319948494 | 0.057617031 | 0.093 | 1 | 253635 | CCDC75 |
| 0.319691122 | 0.057826828 | 0.058 | 1 | 1173 | AP2M1 |
| 0.319691122 | 0.057826828 | 0.076 | 1 | 8214 | DGCR6 |
| 0.319691122 | 0.057826828 | 0.083 | 1 | 124359 | CDYL2 |
| 0.319691122 | 0.057826828 | 0.073 | 1 | 140710 | C20orf117 |
| 0.319691122 | 0.057826828 | 0.091 | 1 | 150275 | CCDC117 |
| 0.319433719 | 0.05803721 | 0.062 | 1 | 6620 | SNCB |
| 0.319433719 | 0.05803721 | 0.104 | 1 | 6712 | SPTBN2 |
| 0.319433719 | 0.05803721 | 0.089 | 1 | 27145 | FILIP1 |
| 0.319433719 | 0.05803721 | 0.074 | 1 | 81608 | FIP1L1 |
| 0.319176316 | 0.058248326 | 0.088 | 1 | 6857 | SYT1 |
| 0.319176316 | 0.058248326 | 0.075 | 1 | 79735 | TBC1D17 |
| 0.318918914 | 0.05845996 | 0.076 | 1 | 345193 | LRIT3 |
| 0.318661511 | 0.058672212 | 0.077 | 1 | 66036 | MTMR9 |
| 0.318661511 | 0.058672212 | 0.074 | 1 | 131965 | METTL6 |
| 0.318661511 | 0.058672212 | 0.074 | 1 | 221223 | CES7 |
| 0.318404108 | 0.058885057 | 0.074 | 1 | 634 | CEACAM1 |
| 0.318404108 | 0.058885057 | 0.082 | 1 | 65056 | GPBP1 |
| 0.318404108 | 0.058885057 | 0.063 | 1 | 146779 | AC008026.2 |
| 0.318404108 | 0.058885057 | 0.074 | 1 | 474149 | TTTY4B |
| 0.318146735 | 0.059098639 | 0.088 | 1 | 623 | BDKRB1 |
| 0.318146735 | 0.059098639 | 0.088 | 1 | 5532 | PPP3CB |
| 0.317889303 | 0.059312742 | 0.085 | 1 | 5901 | RAN |
| 0.31763193 | 0.059527472 | 0.082 | 1 | 2026 | ENO2 |
| 0.31763193 | 0.059527472 | 0.078 | 1 | 2848 | GPR25 |
| 0.31763193 | 0.059527472 | 0.09 | 1 | 4826 | NNAT |
| 0.31763193 | 0.059527472 | 0.088 | 1 | 9068 | ANGPTL1 |
| 0.317374498 | 0.059742823 | 0.099 | 1 | 8643 | PTCH2 |
| 0.317374498 | 0.059742823 | 0.101 | 1 | 23295 | MGRN1 |
| 0.317374498 | 0.059742823 | 0.082 | 1 | 27044 | SND1 |
| 0.317117125 | 0.059958767 | 0.101 | 1 | 10458 | BAIAP2 |
| 0.317117125 | 0.059958767 | 0.094 | 1 | 51250 | C6orf203 |
| 0.316859722 | 0.060175464 | 0.075 | 1 | 10473 | HMGN4 |
| 0.316859722 | 0.060175464 | 0.099 | 1 | 10900 | RUNDC3A |
| 0.316859722 | 0.060175464 | 0.091 | 1 | 29767 | TMOD2 |
| 0.316602319 | 0.060392685 | 0.074 | 1 | 4128 | MAOA |
| 0.316602319 | 0.060392685 | 0.086 | 1 | 6590 | SLPI |
| 0.316602319 | 0.060392685 | 0.081 | 1 | 79946 | C10orf95 |
| 0.316602319 | 0.060392685 | 0.091 | 1 | 84916 | CIRH1A |
| 0.316344917 | 0.060610536 | 0.088 | 1 | 3064 | HTT |
| 0.316344917 | 0.060610536 | 0.088 | 1 | 7849 | PAX8 |
| 0.316344917 | 0.060610536 | 0.084 | 1 | 11178 | LZTS1 |
| 0.316344917 | 0.060610536 | 0.089 | 1 | 51334 | PRR16 |
| 0.316344917 | 0.060610536 | 0.102 | 1 | 54700 | RRN3 |
| 0.316344917 | 0.060610536 | 0.073 | 1 | 55577 | NAGK |
| 0.316087514 | 0.060828988 | 0.082 | 1 | 5727 | PTCH1 |
| 0.316087514 | 0.060828988 | 0.081 | 1 | 83940 | TATDN1 |
| 0.316087514 | 0.060828988 | 0.091 | 1 | 119678 | OR52E2 |
| 0.316087514 | 0.060828988 | 0.074 | 1 | 139065 | SLITRK4 |
| 0.316087514 | 0.060828988 | 0.085 | 1 | 645752 | LOC645752 |
| 0.315830112 | 0.061048191 | 0.098 | 1 | 81470 | OR2G2 |
| 0.315830112 | 0.061048191 | 0.082 | 1 | 346653 | FAM71F2 |
| 0.315572739 | 0.061267931 | 0.087 | 1 | 2194 | FASN |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.240747929 | < 0.001 | 57446 | NDRG3 |
| 0.240735158 | < 0.001 | 149461 | CLDN19 |
| 0.240687236 | < 0.001 | 574406 | C1orf138 |
| 0.24068208 | < 0.001 | 51696 | HECA |
| 0.240642667 | < 0.001 | 221060 | C10orf111 |
| 0.240595907 | < 0.001 | 100129478 | LOC100129478 |
| 0.240560979 | < 0.001 | 65981 | CAPRIN2 |
| 0.240537167 | < 0.001 | 79977 | GRHL2 |
| 0.240417778 | < 0.001 | 121643 | FOXN4 |
| 0.240377486 | < 0.001 | 146760 | RTN4RL1 |
| 0.240356117 | < 0.001 | 64744 | SMAP2 |
| 0.240352497 | < 0.001 | 729583 | C6orf100 |
| 0.240343913 | < 0.001 | 3422 | IDI1 |
| 0.240335837 | < 0.001 | 643836 | ZFP62 |
| 0.240291864 | < 0.001 | 283129 | C11orf85 |
| 0.240288243 | < 0.001 | 63934 | ZNF667 |
| 0.240198523 | < 0.001 | 8569 | MKNK1 |
| 0.240167141 | < 0.001 | 6277 | S100A6 |
| 0.240167007 | < 0.001 | 6311 | ATXN2 |
| 0.240165278 | < 0.001 | 79831 | JMJD5 |
| 0.240075901 | < 0.001 | 25992 | SNED1 |
| 0.240074649 | < 0.001 | 84305 | WIBG |
| 0.239996493 | < 0.001 | 81849 | ST6GALNAC5 |
| 0.239917234 | < 0.001 | 6531 | SLC6A3 |
| 0.23971042 | < 0.001 | 126306 | JSRP1 |
| 0.23966445 | < 0.001 | 57549 | IGSF9 |
| 0.239614591 | < 0.001 | 283375 | SLC39A5 |
| 0.239612401 | < 0.001 | 6272 | SORT1 |
| 0.239601821 | < 0.001 | 728175 | AC103540.1 |
| 0.239483088 | < 0.001 | 2237 | FEN1 |
| 0.23948285 | < 0.001 | 93 | ACVR2B |
| 0.239404008 | < 0.001 | 200844 | C3orf67 |
| 0.23938641 | < 0.001 | 51534 | VTA1 |
| 0.239382789 | < 0.001 | 221656 | AOF1 |
| 0.239247352 | < 0.001 | 2617 | GARS |
| 0.23913224 | < 0.001 | 644844 | AC013356.1 |
| 0.23911719 | < 0.001 | 400752 | LOC400752 |
| 0.23907271 | < 0.001 | 10959 | TMED2 |
| 0.239057109 | < 0.001 | 9202 | ZMYM4 |
| 0.238944843 | < 0.001 | 55009 | C19orf24 |
| 0.238936484 | < 0.001 | 7037 | TFRC |
| 0.238908991 | < 0.001 | 164091 | PAQR7 |
| 0.238882527 | < 0.001 | 116449 | CLNK |
| 0.238803864 | < 0.001 | 2289 | FKBP5 |
| 0.238729671 | < 0.001 | 1436 | CSF1R |
| 0.238715976 | < 0.001 | 338699 | ANKRD42 |
| 0.238714993 | < 0.001 | 374387 | AC044839.2 |
| 0.238627329 | < 0.001 | 727837 | SSX2B |
| 0.238595665 | < 0.001 | 403239 | OR2T27 |
| 0.2385014 | < 0.001 | 116729 | DYSFIP1 |
| 0.238442391 | < 0.001 | 51816 | CECR1 |
| 0.238439515 | < 0.001 | 79981 | FRMD1 |
| 0.238438398 | < 0.001 | 9993 | DGCR2 |
| 0.238419816 | < 0.001 | 1359 | CPA3 |
| 0.238407284 | < 0.001 | 8828 | NRP2 |
| 0.238381699 | < 0.001 | 5903 | RANBP2 |
| 0.238379568 | < 0.001 | 124538 | OR4D2 |
| 0.238376632 | < 0.001 | 10126 | DNAL4 |
| 0.238299146 | < 0.001 | 84193 | SETD3 |
| 0.238288417 | < 0.001 | 51069 | MRPL2 |
| 0.238220572 | < 0.001 | 84126 | ATRIP |
| 0.238199964 | < 0.001 | 1810 | DR1 |
| 0.238193884 | < 0.001 | 130813 | C2orf50 |
| 0.238106161 | < 0.001 | 375567 | VWC2 |
| 0.238098919 | < 0.001 | 5993 | RFX5 |
| 0.238021418 | < 0.001 | 4731 | NDUFV3 |
| 0.237980515 | < 0.001 | 55532 | SLC30A10 |
| 0.237973884 | < 0.001 | 374491 | TPTE2P6 |
| 0.237896293 | < 0.001 | 392335 | MYO5BP2 |
| 0.2378674 | < 0.001 | 83699 | SH3BGRL2 |
| 0.237850368 | < 0.001 | 121665 | AC069234.1 |
| 0.237729177 | < 0.001 | 391104 | VHLL |
| 0.237669602 | < 0.001 | 162239 | ZFP1 |
| 0.237657756 | < 0.001 | 389816 | LRRC26 |
| 0.23765409 | < 0.001 | 158055 | C9orf163 |
| 0.237616852 | < 0.001 | 54511 | HMGCLL1 |
| 0.237601161 | < 0.001 | 6712 | SPTBN2 |
| 0.237592205 | < 0.001 | 25778 | DSTYK |
| 0.237589002 | < 0.001 | 84258 | SYT3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.315572739 | 0.061267931 | 0.087 | 1 | 7433 | VIPR1 |
| 0.315572739 | 0.061267931 | 0.076 | 1 | 54707 | GPN2 |
| 0.315572739 | 0.061267931 | 0.079 | 1 | 91694 | LONRF1 |
| 0.315572739 | 0.061267931 | 0.062 | 1 | 375035 | SFT2D2 |
| 0.315315306 | 0.061488297 | 0.073 | 1 | 3475 | IFRD1 |
| 0.315315306 | 0.061488297 | 0.067 | 1 | 23317 | DNAJC13 |
| 0.315315306 | 0.061488297 | 0.076 | 1 | 84894 | LINGO1 |
| 0.315315306 | 0.061488297 | 0.097 | 1 | 148870 | CCDC27 |
| 0.315057933 | 0.061709274 | 0.086 | 1 | 6894 | TARBP1 |
| 0.315057933 | 0.061709274 | 0.098 | 1 | 8505 | PARG |
| 0.315057933 | 0.061709274 | 0.087 | 1 | 347744 | C6orf52 |
| 0.314800501 | 0.061930913 | 0.091 | 1 | 4868 | NPHS1 |
| 0.314800501 | 0.061930913 | 0.087 | 1 | 10990 | LILRB5 |
| 0.314800501 | 0.061930913 | 0.087 | 1 | 56897 | WRNIP1 |
| 0.314543098 | 0.062153284 | 0.092 | 1 | 83851 | SYT16 |
| 0.314543098 | 0.062153284 | 0.097 | 1 | 140465 | MYL6B |
| 0.314285696 | 0.06237619 | 0.079 | 1 | 641 | BLM |
| 0.314285696 | 0.06237619 | 0.078 | 1 | 10096 | ACTR3 |
| 0.314285696 | 0.06237619 | 0.091 | 1 | 25884 | CHRDL2 |
| 0.314285696 | 0.06237619 | 0.091 | 1 | 26093 | CCDC9 |
| 0.314285696 | 0.06237619 | 0.088 | 1 | 80071 | CCDC15 |
| 0.314285696 | 0.06237619 | 0.085 | 1 | 84671 | ZNF347 |
| 0.314028293 | 0.062599711 | 0.093 | 1 | 656 | BMP8B |
| 0.314028293 | 0.062599711 | 0.071 | 1 | 23039 | XPO7 |
| 0.314028293 | 0.062599711 | 0.073 | 1 | 25928 | SOSTDC1 |
| 0.314028293 | 0.062599711 | 0.06 | 1 | 27134 | TJP3 |
| 0.314028293 | 0.062599711 | 0.075 | 1 | 51491 | NOP16 |
| 0.31377092 | 0.062823892 | 0.078 | 1 | 80235 | PIGZ |
| 0.313513488 | 0.063048817 | 0.089 | 1 | 1340 | COX6B1 |
| 0.313513488 | 0.063048817 | 0.095 | 1 | 9515 | STXBP5L |
| 0.313513488 | 0.063048817 | 0.063 | 1 | 9701 | SAPS2 |
| 0.313513488 | 0.063048817 | 0.076 | 1 | 23013 | SPEN |
| 0.313513488 | 0.063048817 | 0.087 | 1 | 59277 | NTN4 |
| 0.313513488 | 0.063048817 | 0.074 | 1 | 83592 | AKR1CL2 |
| 0.313513488 | 0.063048817 | 0.094 | 1 | 168374 | ZNF92 |
| 0.313513488 | 0.063048817 | 0.081 | 1 | 338442 | NIACR2 |
| 0.313256115 | 0.063274279 | 0.094 | 1 | 617 | BCS1L |
| 0.313256115 | 0.063274279 | 0.084 | 1 | 9729 | KIAA0408 |
| 0.313256115 | 0.063274279 | 0.089 | 1 | 57595 | PDZD4 |
| 0.312998682 | 0.063500389 | 0.077 | 1 | 10494 | STK25 |
| 0.312741309 | 0.063727126 | 0.087 | 1 | 1949 | EFNB3 |
| 0.312741309 | 0.063727126 | 0.072 | 1 | 3047 | HBG1 |
| 0.312741309 | 0.063727126 | 0.079 | 1 | 57026 | PDXP |
| 0.312741309 | 0.063727126 | 0.104 | 1 | 64748 | AC024575.2 |
| 0.312741309 | 0.063727126 | 0.069 | 1 | 84973 | SNHG7 |
| 0.312483907 | 0.063954644 | 0.079 | 1 | 9046 | DOK2 |
| 0.312483907 | 0.063954644 | 0.085 | 1 | 348262 | AC174470.1 |
| 0.312226504 | 0.064182661 | 0.115 | 1 | 285231 | FBXW12 |
| 0.312226504 | 0.064182661 | 0.089 | 1 | 377677 | CA13 |
| 0.311969101 | 0.06441135 | 0.095 | 1 | 4496 | MT1H |
| 0.311969101 | 0.06441135 | 0.096 | 1 | 8835 | SOCS2 |
| 0.311969101 | 0.06441135 | 0.084 | 1 | 23173 | METAP1 |
| 0.311969101 | 0.06441135 | 0.09 | 1 | 25829 | TMEM184B |
| 0.311969101 | 0.06441135 | 0.082 | 1 | 27178 | IL1F7 |
| 0.311969101 | 0.06441135 | 0.087 | 1 | 54437 | SEMA5B |
| 0.311969101 | 0.06441135 | 0.091 | 1 | 80315 | CPEB4 |
| 0.311969101 | 0.06441135 | 0.086 | 1 | 221143 | N6AMT2 |
| 0.311711699 | 0.064640664 | 0.084 | 1 | 1452 | CSNK1A1 |
| 0.311711699 | 0.064640664 | 0.088 | 1 | 2274 | FHL2 |
| 0.311711699 | 0.064640664 | 0.084 | 1 | 10109 | ARPC2 |
| 0.311711699 | 0.064640664 | 0.078 | 1 | 50488 | MINK1 |
| 0.311711699 | 0.064640664 | 0.092 | 1 | 55011 | PIH1D1 |
| 0.311454296 | 0.064870656 | 0.096 | 1 | 8677 | STX10 |
| 0.311454296 | 0.064870656 | 0.077 | 1 | 9437 | NCR1 |
| 0.311454296 | 0.064870656 | 0.087 | 1 | 26149 | ZNF658 |
| 0.311454296 | 0.064870656 | 0.09 | 1 | 169044 | COL22A1 |
| 0.311454296 | 0.064870656 | 0.075 | 1 | 100188893 | TOMM6 |
| 0.311196923 | 0.0651014 | 0.085 | 1 | 4101 | MAGEA2 |
| 0.311196923 | 0.0651014 | 0.097 | 1 | 26220 | DGCR5 |
| 0.311196923 | 0.0651014 | 0.08 | 1 | 171391 | NS3BP |
| 0.310939491 | 0.065332688 | 0.11 | 1 | 1871 | E2F3 |
| 0.310939491 | 0.065332688 | 0.082 | 1 | 2005 | ELK4 |
| 0.310939491 | 0.065332688 | 0.099 | 1 | 83597 | RTP3 |
| 0.310939491 | 0.065332688 | 0.092 | 1 | 284069 | FAM171A2 |
| 0.310939491 | 0.065332688 | 0.092 | 1 | 400073 | C12orf76 |
| 0.310682118 | 0.065564618 | 0.086 | 1 | 1418 | CRYGA |
| 0.310682118 | 0.065564618 | 0.123 | 1 | 129450 | C2orf60 |
| 0.310682118 | 0.065564618 | 0.065 | 1 | 151230 | KLHL23 |
| 0.310424685 | 0.065797217 | 0.083 | 1 | 8971 | H1FX |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.23740828 | < 0.001 | 23509 | POFUT1 |
| 0.237407714 | < 0.001 | 5048 | PAFAH1B1 |
| 0.237346098 | < 0.001 | 50485 | SMARCAL1 |
| 0.237260103 | < 0.001 | 340307 | CTAGE6P |
| 0.237254217 | < 0.001 | 55692 | LUC7L |
| 0.237247616 | < 0.001 | 23277 | KIAA0664 |
| 0.237099454 | < 0.001 | 2199 | FBLN2 |
| 0.237067923 | < 0.001 | 54905 | CYP2W1 |
| 0.237065375 | < 0.001 | 56624 | ASAH2 |
| 0.237051114 | < 0.001 | 84660 | CCDC62 |
| 0.236926123 | < 0.001 | 641702 | FAM138E |
| 0.236911163 | < 0.001 | 9247 | GCM2 |
| 0.236823365 | < 0.001 | 84144 | SYDE2 |
| 0.236812443 | < 0.001 | 1678 | TIMM8A |
| 0.236785144 | < 0.001 | 57152 | SLURP1 |
| 0.236775115 | < 0.001 | 8139 | GAN |
| 0.236692935 | < 0.001 | 85865 | GTPBP10 |
| 0.236683086 | < 0.001 | 1846 | DUSP4 |
| 0.236530513 | < 0.001 | 337976 | KRTAP20-2 |
| 0.236496285 | < 0.001 | 85441 | RP4-697K14.1 |
| 0.236477852 | < 0.001 | 151742 | PPM1L |
| 0.236454308 | < 0.001 | 8570 | KHSRP |
| 0.236382753 | < 0.001 | 100130746 | LOC100130746 |
| 0.23625581 | < 0.001 | 126767 | AADACL3 |
| 0.236207515 | < 0.001 | 11151 | CORO1A |
| 0.236168101 | < 0.001 | 221409 | SPATS1 |
| 0.236107543 | < 0.001 | 246705 | LINC00314 |
| 0.236068264 | < 0.001 | 6940 | ZNF354A |
| 0.236011103 | < 0.001 | 10472 | ZNF238 |
| 0.235995695 | < 0.001 | 57088 | PLSCR4 |
| 0.235909924 | < 0.001 | 266727 | MDGA1 |
| 0.235888615 | < 0.001 | 57824 | HMHB1 |
| 0.235836238 | < 0.001 | 157378 | TMEM65 |
| 0.235825509 | < 0.001 | 89953 | KLC4 |
| 0.23577109 | < 0.001 | 286238 | LOC286238 |
| 0.235689327 | < 0.001 | 2823 | GPM6A |
| 0.235664204 | < 0.001 | 27293 | SMPDL3B |
| 0.235646471 | < 0.001 | 11218 | DDX20 |
| 0.235544264 | < 0.001 | 4093 | SMAD9 |
| 0.235531867 | < 0.001 | 282617 | IL28B |
| 0.235510051 | < 0.001 | 386618 | KCTD4 |
| 0.235468358 | < 0.001 | 126006 | PCP2 |
| 0.235462546 | < 0.001 | 64601 | VPS16A |
| 0.235406548 | < 0.001 | 55779 | WDR52 |
| 0.235404328 | < 0.001 | 164 | AP1G1 |
| 0.235370755 | < 0.001 | 795 | S100G |
| 0.2353383 | < 0.001 | 9329 | GTF3C4 |
| 0.235322133 | < 0.001 | 805 | CALM2 |
| 0.235301286 | < 0.001 | 9704 | DHX34 |
| 0.235280618 | < 0.001 | 23161 | SNX13 |
| 0.235241622 | < 0.001 | 10123 | ARL4C |
| 0.235154286 | < 0.001 | 5395 | PMS2 |
| 0.235106915 | < 0.001 | 10525 | HYOU1 |
| 0.23508212 | < 0.001 | 54386 | TERF2IP |
| 0.235074282 | < 0.001 | 283237 | TTC9C |
| 0.235052869 | < 0.001 | 5498 | PPOX |
| 0.234998405 | < 0.001 | 9764 | KIAA0513 |
| 0.234910175 | < 0.001 | 78990 | OTUB2 |
| 0.234854698 | < 0.001 | 3630 | INS |
| 0.234818339 | < 0.001 | 79699 | ZYG11B |
| 0.234800786 | < 0.001 | 25885 | POLR1A |
| 0.234795868 | < 0.001 | 50615 | IL21R |
| 0.23476252 | < 0.001 | 6920 | TCEA3 |
| 0.234692976 | < 0.001 | 400027 | LOC400027 |
| 0.234606877 | < 0.001 | 8492 | PRSS12 |
| 0.234587938 | < 0.001 | 9070 | ASH2L |
| 0.234569088 | < 0.001 | 1001 | CDH3 |
| 0.234287143 | < 0.001 | 405 | ARNT |
| 0.234210715 | < 0.001 | 5097 | PCDH1 |
| 0.234183416 | < 0.001 | 156 | ADRBK1 |
| 0.234142646 | < 0.001 | 6332 | SCN7A |
| 0.234132707 | < 0.001 | 81876 | RAB1B |
| 0.234097928 | < 0.001 | 149992 | ANKRD30BP2 |
| 0.234091938 | < 0.001 | 10262 | SF3B4 |
| 0.23409009 | < 0.001 | 9472 | AKAP6 |
| 0.234080896 | < 0.001 | 55322 | C5orf22 |
| 0.234043136 | < 0.001 | 100506049 | AC005014.1 |
| 0.233941406 | < 0.001 | 6715 | SRD5A1 |
| 0.23390612 | < 0.001 | 92014 | MCART1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.310424685 | 0.065797217 | 0.104 | 1 | 151354 | FAM84A |
| 0.310167313 | 0.066030577 | 0.082 | 1 | 4900 | NRGN |
| 0.310167313 | 0.066030577 | 0.096 | 1 | 114036 | LINC00310 |
| 0.310167313 | 0.066030577 | 0.082 | 1 | 197320 | ZNF778 |
| 0.30990991 | 0.066264495 | 0.093 | 1 | 2965 | GTF2H1 |
| 0.30990991 | 0.066264495 | 0.089 | 1 | 9892 | SNAP91 |
| 0.309652507 | 0.066499062 | 0.089 | 1 | 1266 | CNN3 |
| 0.309652507 | 0.066499062 | 0.096 | 1 | 3897 | L1CAM |
| 0.309652507 | 0.066499062 | 0.095 | 1 | 57198 | ATP8B2 |
| 0.309652507 | 0.066499062 | 0.088 | 1 | 80145 | THOC7 |
| 0.309652507 | 0.066499062 | 0.098 | 1 | 154881 | KCTD7 |
| 0.309395105 | 0.066734269 | 0.079 | 1 | 355 | FAS |
| 0.309395105 | 0.066734269 | 0.099 | 1 | 5188 | PET112L |
| 0.309395105 | 0.066734269 | 0.082 | 1 | 6445 | SGCG |
| 0.309395105 | 0.066734269 | 0.085 | 1 | 7329 | UBE2I |
| 0.309395105 | 0.066734269 | 0.092 | 1 | 23780 | APOL2 |
| 0.309395105 | 0.066734269 | 0.101 | 1 | 131616 | TMEM42 |
| 0.309395105 | 0.066734269 | 0.089 | 1 | 283464 | GLT8D3 |
| 0.309137702 | 0.066970266 | 0.089 | 1 | 1346 | COX7A1 |
| 0.309137702 | 0.066970266 | 0.082 | 1 | 3188 | HNRNPH2 |
| 0.309137702 | 0.066970266 | 0.098 | 1 | 5721 | PSME2 |
| 0.309137702 | 0.066970266 | 0.084 | 1 | 6711 | SPTBN1 |
| 0.309137702 | 0.066970266 | 0.079 | 1 | 7117 | TMSB4XP8 |
| 0.309137702 | 0.066970266 | 0.096 | 1 | 7216 | TRO |
| 0.309137702 | 0.066970266 | 0.084 | 1 | 9378 | NRXN1 |
| 0.309137702 | 0.066970266 | 0.066 | 1 | 56977 | STOX2 |
| 0.309137702 | 0.066970266 | 0.089 | 1 | 221711 | SYCP2L |
| 0.308880299 | 0.067206822 | 0.1 | 1 | 55908 | AC011472.2 |
| 0.308365494 | 0.067681931 | 0.088 | 1 | 1268 | CNR1 |
| 0.308365494 | 0.067681931 | 0.081 | 1 | 5176 | SERPINF1 |
| 0.308108121 | 0.067920446 | 0.097 | 1 | 653499 | LGALS7B |
| 0.307850689 | 0.068159774 | 0.09 | 1 | 2932 | GSK3B |
| 0.307850689 | 0.068159774 | 0.08 | 1 | 345456 | PFN3 |
| 0.307593286 | 0.06839966 | 0.108 | 1 | 440 | ASNS |
| 0.307593286 | 0.06839966 | 0.095 | 1 | 7259 | TSPYL1 |
| 0.307335913 | 0.06864021 | 0.089 | 1 | 10791 | VAMP5 |
| 0.307335913 | 0.06864021 | 0.077 | 1 | 55917 | CTTNBP2NL |
| 0.307335913 | 0.06864021 | 0.085 | 1 | 56655 | POLE4 |
| 0.307078481 | 0.06888143 | 0.088 | 1 | 9253 | NUMBL |
| 0.306821108 | 0.069123417 | 0.09 | 1 | 782 | CACNB1 |
| 0.306821108 | 0.069123417 | 0.103 | 1 | 340554 | ZC3H12B |
| 0.306563675 | 0.069365986 | 0.104 | 1 | 56970 | ATXN7L3 |
| 0.306563675 | 0.069365986 | 0.099 | 1 | 65977 | PLEKHA3 |
| 0.306563675 | 0.069365986 | 0.083 | 1 | 113540 | CMTM1 |
| 0.306563675 | 0.069365986 | 0.086 | 1 | 339230 | CCDC137 |
| 0.306306303 | 0.069609225 | 0.086 | 1 | 1397 | CRIP2 |
| 0.306306303 | 0.069609225 | 0.113 | 1 | 2064 | ERBB2 |
| 0.306306303 | 0.069609225 | 0.091 | 1 | 8660 | IRS2 |
| 0.306306303 | 0.069609225 | 0.105 | 1 | 11147 | HHLA3 |
| 0.3060489 | 0.069853142 | 0.097 | 1 | 5064 | PALM |
| 0.3060489 | 0.069853142 | 0.105 | 1 | 5447 | POR |
| 0.3060489 | 0.069853142 | 0.091 | 1 | 79369 | B3GNT4 |
| 0.3060489 | 0.069853142 | 0.096 | 1 | 284424 | MIR7-3HG |
| 0.305791497 | 0.070097849 | 0.101 | 1 | 57216 | VANGL2 |
| 0.305791497 | 0.070097849 | 0.103 | 1 | 112476 | PRRT2 |
| 0.305791497 | 0.070097849 | 0.082 | 1 | 132112 | RTP1 |
| 0.305791497 | 0.070097849 | 0.11 | 1 | 442319 | ZNF727 |
| 0.305534095 | 0.0703431 | 0.103 | 1 | 4100 | MAGEA1 |
| 0.305534095 | 0.0703431 | 0.092 | 1 | 64800 | EFCAB6 |
| 0.305276692 | 0.070589051 | 0.109 | 1 | 4794 | NFKBIE |
| 0.305276692 | 0.070589051 | 0.088 | 1 | 27257 | LSM1 |
| 0.305276692 | 0.070589051 | 0.1 | 1 | 51339 | DACT1 |
| 0.305019289 | 0.07083568 | 0.097 | 1 | 55008 | HERC6 |
| 0.305019289 | 0.07083568 | 0.11 | 1 | 135112 | NCOA7 |
| 0.304761916 | 0.071083002 | 0.084 | 1 | 540 | ATP7B |
| 0.304761916 | 0.071083002 | 0.083 | 1 | 6920 | TCEA3 |
| 0.304761916 | 0.071083002 | 0.107 | 1 | 10228 | STX6 |
| 0.304761916 | 0.071083002 | 0.112 | 1 | 30000 | TNPO2 |
| 0.304761916 | 0.071083002 | 0.12 | 1 | 54754 | FAM22F |
| 0.304504484 | 0.071331106 | 0.107 | 1 | 57536 | KIAA1328 |
| 0.304504484 | 0.071331106 | 0.088 | 1 | 391334 | LOC391334 |
| 0.304247111 | 0.071579754 | 0.086 | 1 | 54529 | ASNSD1 |
| 0.303989679 | 0.071829125 | 0.11 | 1 | 11282 | MGAT4B |
| 0.303732306 | 0.072079182 | 0.097 | 1 | 23468 | CBX5 |
| 0.303732306 | 0.072079182 | 0.094 | 1 | 26523 | EIF2C1 |
| 0.303474903 | 0.072330035 | 0.101 | 1 | 9497 | SLC4A7 |
| 0.303474903 | 0.072330035 | 0.08 | 1 | 11258 | DCTN3 |
| 0.303474903 | 0.072330035 | 0.088 | 1 | 23710 | GABARAPL1 |
| 0.303474903 | 0.072330035 | 0.089 | 1 | 114788 | CSMD3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.233897522 | < 0.001 | 648987 | AC008875.1 |
| 0.233692482 | < 0.001 | 100129492 | LOC100129492 |
| 0.233653426 | < 0.001 | 2266 | FGG |
| 0.233647481 | < 0.001 | 126549 | ANKLE1 |
| 0.233603001 | < 0.001 | 157556 | C8orf56 |
| 0.233562976 | < 0.001 | 84298 | LLPH |
| 0.233547553 | < 0.001 | 66005 | CHID1 |
| 0.233474806 | < 0.001 | 9409 | PEX16 |
| 0.233419076 | < 0.001 | 284424 | MIR7-3HG |
| 0.233229965 | < 0.001 | 60 | ACTB |
| 0.233217657 | < 0.001 | 119764 | OR4X2 |
| 0.233186677 | < 0.001 | 55850 | USE1 |
| 0.233180925 | < 0.001 | 4810 | NHS |
| 0.233165696 | < 0.001 | 23682 | RAB38 |
| 0.233149305 | < 0.001 | 503542 | SPRN |
| 0.233144104 | < 0.001 | 89890 | KBTBD6 |
| 0.233121723 | < 0.001 | 93655 | ST7-OT3 |
| 0.233114943 | < 0.001 | 3899 | AFF3 |
| 0.233100742 | < 0.001 | 114609 | TIRAP |
| 0.233047843 | < 0.001 | 642585 | VDAC1P1 |
| 0.233009547 | < 0.001 | 10102 | TSFM |
| 0.232985169 | < 0.001 | 84503 | ZNF527 |
| 0.232974812 | < 0.001 | 9874 | TLK1 |
| 0.232918859 | < 0.001 | 4668 | NAGA |
| 0.23286593 | < 0.001 | 392391 | OR5C1 |
| 0.232836664 | < 0.001 | 7321 | UBE2D1 |
| 0.2328206 | < 0.001 | 3615 | IMPDH2 |
| 0.232801527 | < 0.001 | 7068 | THRB |
| 0.232778028 | < 0.001 | 708 | C1QBP |
| 0.23275885 | < 0.001 | 254187 | TSGA10IP |
| 0.232749522 | < 0.001 | 50855 | PARD6A |
| 0.232740045 | < 0.001 | 80739 | C6orf25 |
| 0.2326352 | < 0.001 | 5358 | PLS3 |
| 0.232540339 | < 0.001 | 1415 | CRYBB2 |
| 0.232526407 | < 0.001 | 79020 | C7orf25 |
| 0.232408464 | < 0.001 | 376497 | SLC27A1 |
| 0.232395276 | < 0.001 | 5607 | MAP2K5 |
| 0.232269078 | < 0.001 | 9058 | SLC13A2 |
| 0.232244968 | < 0.001 | 22941 | SHANK2 |
| 0.232199013 | < 0.001 | 83884 | SLC25A2 |
| 0.232128203 | < 0.001 | 9684 | LRRC14 |
| 0.232097968 | < 0.001 | 4295 | MLN |
| 0.232043356 | < 0.001 | 3227 | HOXC11 |
| 0.231999576 | < 0.001 | 55190 | NUDT11 |
| 0.231867105 | < 0.001 | 4515 | MTCP1 |
| 0.231775299 | < 0.001 | 2117 | ETV3 |
| 0.231712341 | < 0.001 | 28982 | FLVCR1 |
| 0.231711924 | < 0.001 | 100506581 | C16orf95 |
| 0.231682897 | < 0.001 | 4828 | NMB |
| 0.231638148 | < 0.001 | 3574 | IL7 |
| 0.231543884 | < 0.001 | 81793 | TLR10 |
| 0.231342316 | < 0.001 | 285676 | ZNF454 |
| 0.231290683 | < 0.001 | 246721 | POLR2J2 |
| 0.231219321 | < 0.001 | 64122 | FN3K |
| 0.231203526 | < 0.001 | 3228 | HOXC12 |
| 0.231182545 | < 0.001 | 79087 | ALG12 |
| 0.231138065 | < 0.001 | 8029 | CUBN |
| 0.23110202 | < 0.001 | 221002 | RASGEF1A |
| 0.231068045 | < 0.001 | 58508 | MLL3 |
| 0.230889365 | < 0.001 | 55153 | SDAD1 |
| 0.230886206 | < 0.001 | 146849 | CCDC42 |
| 0.230858818 | < 0.001 | 727910 | TLCD2 |
| 0.230796456 | < 0.001 | 6902 | TBCA |
| 0.230781823 | < 0.001 | 59353 | TMEM35 |
| 0.230759025 | < 0.001 | 54931 | RG9MTD1 |
| 0.230742216 | < 0.001 | 6814 | STXBP3 |
| 0.230714083 | < 0.001 | 138474 | TAF1L |
| 0.230689794 | < 0.001 | 23547 | LILRA4 |
| 0.230686262 | < 0.001 | 326625 | MMAB |
| 0.23066546 | < 0.001 | 339742 | FAM201B |
| 0.230599478 | < 0.001 | 57099 | AVEN |
| 0.230586901 | < 0.001 | 6619 | SNAPC3 |
| 0.230551139 | < 0.001 | 79589 | RNF128 |
| 0.230517209 | < 0.001 | 9315 | C5orf13 |
| 0.230499327 | < 0.001 | 147700 | KLC3 |
| 0.230497092 | < 0.001 | 116987 | AGAP1 |
| 0.230437204 | < 0.001 | 5155 | PDGFB |
| 0.230416492 | < 0.001 | 3171 | FOXA3 |
| 0.230284706 | < 0.001 | 84620 | ST6GAL2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.303474903 | 0.072330035 | 0.1 | 1 | 646903 | LOC646903 |
| 0.3032175 | 0.072581463 | 0.098 | 1 | 1875 | E2F5 |
| 0.3032175 | 0.072581463 | 0.104 | 1 | 55722 | CEP72 |
| 0.3032175 | 0.072581463 | 0.085 | 1 | 79959 | CEP76 |
| 0.302960098 | 0.072833553 | 0.099 | 1 | 1455 | CSNK1G2 |
| 0.302960098 | 0.072833553 | 0.102 | 1 | 6567 | SLC16A2 |
| 0.302960098 | 0.072833553 | 0.09 | 1 | 8776 | MTMR1 |
| 0.302960098 | 0.072833553 | 0.084 | 1 | 9364 | RAB28 |
| 0.302960098 | 0.072833553 | 0.099 | 1 | 11054 | OGFR |
| 0.302702695 | 0.073086366 | 0.103 | 1 | 9722 | NOS1AP |
| 0.302445292 | 0.073339984 | 0.114 | 1 | 57535 | KIAA1324 |
| 0.302445292 | 0.073339984 | 0.092 | 1 | 84661 | DPY30 |
| 0.302445292 | 0.073339984 | 0.107 | 1 | 400765 | MIR2682 |
| 0.30218792 | 0.073594183 | 0.104 | 1 | 55107 | ANO1 |
| 0.30218792 | 0.073594183 | 0.114 | 1 | 55321 | C20orf46 |
| 0.30218792 | 0.073594183 | 0.102 | 1 | 91862 | MARVELD3 |
| 0.30218792 | 0.073594183 | 0.104 | 1 | 205564 | SENP5 |
| 0.30218792 | 0.073594183 | 0.076 | 1 | 256933 | NPB |
| 0.301930487 | 0.073849075 | 0.103 | 1 | 85456 | TNKS1BP1 |
| 0.301673114 | 0.074104637 | 0.098 | 1 | 3752 | KCND3 |
| 0.301673114 | 0.074104637 | 0.111 | 1 | 6093 | ROCK1 |
| 0.301673114 | 0.074104637 | 0.083 | 1 | 7429 | VIL1 |
| 0.301673114 | 0.074104637 | 0.106 | 1 | 22859 | LPHN1 |
| 0.301673114 | 0.074104637 | 0.095 | 1 | 63891 | RNF123 |
| 0.301673114 | 0.074104637 | 0.09 | 1 | 220074 | AP000812.2 |
| 0.301415682 | 0.074360922 | 0.086 | 1 | 51156 | SERPINA10 |
| 0.301415682 | 0.074360922 | 0.106 | 1 | 55095 | SAMD4B |
| 0.301415682 | 0.074360922 | 0.09 | 1 | 65996 | AC016629.3 |
| 0.301415682 | 0.074360922 | 0.099 | 1 | 286187 | LRRC67 |
| 0.301158309 | 0.074618027 | 0.104 | 1 | 501 | ALDH7A1 |
| 0.301158309 | 0.074618027 | 0.094 | 1 | 1142 | CHRNB3 |
| 0.301158309 | 0.074618027 | 0.115 | 1 | 9829 | DNAJC6 |
| 0.301158309 | 0.074618027 | 0.102 | 1 | 29068 | ZBTB44 |
| 0.300900906 | 0.074875712 | 0.093 | 1 | 283991 | FAM100B |
| 0.300643474 | 0.075134091 | 0.095 | 1 | 8718 | TNFRSF25 |
| 0.300643474 | 0.075134091 | 0.1 | 1 | 9355 | LHX2 |
| 0.300643474 | 0.075134091 | 0.099 | 1 | 388762 | OR2M1P |
| 0.300386101 | 0.075393155 | 0.114 | 1 | 9262 | STK17B |
| 0.300386101 | 0.075393155 | 0.087 | 1 | 146433 | IL34 |
| 0.300386101 | 0.075393155 | 0.096 | 1 | 167359 | AC114947.2 |
| 0.300128669 | 0.075653061 | 0.112 | 1 | 5498 | PPOX |
| 0.300128669 | 0.075653061 | 0.089 | 1 | 54984 | PINX1 |
| 0.300128669 | 0.075653061 | 0.095 | 1 | 55901 | THSD1 |
| 0.299871296 | 0.075913556 | 0.101 | 1 | 5780 | PTPN9 |
| 0.299871296 | 0.075913556 | 0.093 | 1 | 144448 | TSPAN19 |
| 0.299613893 | 0.076174766 | 0.096 | 1 | 6839 | SUV39H1 |
| 0.299613893 | 0.076174766 | 0.088 | 1 | 7637 | ZNF84 |
| 0.299613893 | 0.076174766 | 0.104 | 1 | 8452 | CUL3 |
| 0.299613893 | 0.076174766 | 0.084 | 1 | 51301 | GCNT4 |
| 0.299613893 | 0.076174766 | 0.084 | 1 | 391356 | PTRHD1 |
| 0.29935649 | 0.076436669 | 0.089 | 1 | 22949 | PTGR1 |
| 0.29935649 | 0.076436669 | 0.105 | 1 | 29114 | TAGLN3 |
| 0.29935649 | 0.076436669 | 0.105 | 1 | 202134 | FAM153B |
| 0.299099088 | 0.076699376 | 0.113 | 1 | 9055 | PRC1 |
| 0.299099088 | 0.076699376 | 0.093 | 1 | 9939 | RBM8A |
| 0.299099088 | 0.076699376 | 0.082 | 1 | 54456 | MOV10L1 |
| 0.299099088 | 0.076699376 | 0.103 | 1 | 79953 | C20orf39 |
| 0.298841685 | 0.076962702 | 0.1 | 1 | 1869 | E2F1 |
| 0.298841685 | 0.076962702 | 0.129 | 1 | 2892 | GRIA3 |
| 0.298841685 | 0.076962702 | 0.114 | 1 | 7504 | XK |
| 0.298841685 | 0.076962702 | 0.11 | 1 | 22820 | COPG |
| 0.298841685 | 0.076962702 | 0.1 | 1 | 57565 | KLHL14 |
| 0.298841685 | 0.076962702 | 0.11 | 1 | 123803 | NTAN1 |
| 0.298584282 | 0.077226743 | 0.096 | 1 | 56267 | CCBL2 |
| 0.29832691 | 0.077491492 | 0.108 | 1 | 5352 | PLOD2 |
| 0.29832691 | 0.077491492 | 0.112 | 1 | 6688 | SPI1 |
| 0.29832691 | 0.077491492 | 0.086 | 1 | 8924 | HERC2 |
| 0.29832691 | 0.077491492 | 0.095 | 1 | 63924 | CIDEC |
| 0.29832691 | 0.077491492 | 0.105 | 1 | 201254 | STRA13 |
| 0.298069477 | 0.077756964 | 0.112 | 1 | 2074 | ERCC6 |
| 0.298069477 | 0.077756964 | 0.09 | 1 | 9649 | RALGPS1 |
| 0.298069477 | 0.077756964 | 0.096 | 1 | 10014 | HDAC5 |
| 0.298069477 | 0.077756964 | 0.106 | 1 | 51062 | ATL1 |
| 0.298069477 | 0.077756964 | 0.103 | 1 | 130813 | C2orf50 |
| 0.297812104 | 0.078023225 | 0.109 | 1 | 3199 | HOXA2 |
| 0.297812104 | 0.078023225 | 0.09 | 1 | 4858 | NOVA2 |
| 0.297812104 | 0.078023225 | 0.107 | 1 | 8065 | CUL5 |
| 0.297812104 | 0.078023225 | 0.117 | 1 | 29945 | ANAPC4 |
| 0.297554672 | 0.07829012 | 0.106 | 1 | 8363 | HIST1H4J |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.23026596 | < 0.001 | 2330 | FMO5 |
| 0.23024492 | < 0.001 | 200959 | GABRR3 |
| 0.230231553 | < 0.001 | 653657 | AC010606.4 |
| 0.230218679 | < 0.001 | 124872 | B4GALNT2 |
| 0.230193615 | < 0.001 | 199745 | THAP8 |
| 0.230183303 | < 0.001 | 113540 | CMTM1 |
| 0.230177179 | < 0.001 | 11074 | TRIM31 |
| 0.230151355 | < 0.001 | 9665 | KIAA0430 |
| 0.230140731 | < 0.001 | 56675 | NRIP3 |
| 0.230134174 | < 0.001 | 79629 | OCEL1 |
| 0.230124384 | < 0.001 | 57482 | KIAA1211 |
| 0.230108365 | < 0.001 | 80131 | LRRC8E |
| 0.230107471 | < 0.001 | 643668 | PSMC1P9 |
| 0.229993254 | < 0.001 | 10961 | ERP29 |
| 0.229838997 | < 0.001 | 282616 | IL28A |
| 0.229828373 | < 0.001 | 64757 | MOSC1 |
| 0.229764432 | < 0.001 | 23234 | DNAJC9 |
| 0.229742378 | < 0.001 | 53340 | SPA17 |
| 0.229701325 | < 0.001 | 125972 | CALR3 |
| 0.229669616 | < 0.001 | 4681 | NBL1 |
| 0.229657039 | < 0.001 | 59340 | HRH4 |
| 0.22962597 | < 0.001 | 4128 | MAOA |
| 0.229603916 | < 0.001 | 9132 | KCNQ4 |
| 0.229550466 | < 0.001 | 3175 | ONECUT1 |
| 0.229543418 | < 0.001 | 151651 | EFHB |
| 0.229468882 | < 0.001 | 1761 | DMRT1 |
| 0.229456723 | < 0.001 | 6643 | SNX2 |
| 0.229454026 | < 0.001 | 57713 | SFMBT2 |
| 0.22944288 | < 0.001 | 669 | BPGM |
| 0.229432806 | < 0.001 | 133688 | UGT3A1 |
| 0.2293697 | < 0.001 | 3120 | HLA-DQB2 |
| 0.229352519 | < 0.001 | 387263 | C6orf120 |
| 0.229297921 | < 0.001 | 144809 | C13orf30 |
| 0.229242802 | < 0.001 | 23217 | ZFR2 |
| 0.22922419 | < 0.001 | 3430 | IFI35 |
| 0.229221866 | < 0.001 | 6175 | RPLP0P3 |
| 0.229148597 | < 0.001 | 140564 | APOBEC3D |
| 0.229132101 | < 0.001 | 344967 | AC098591.2 |
| 0.229123235 | < 0.001 | 57728 | WDR19 |
| 0.229033157 | < 0.001 | 6833 | ABCC8 |
| 0.229020208 | < 0.001 | 60592 | SCOC |
| 0.228919029 | < 0.001 | 402381 | SOHLH1 |
| 0.228899896 | < 0.001 | 92591 | ASB16 |
| 0.228871346 | < 0.001 | 100130331 | RP11-193H5.1 |
| 0.228825271 | < 0.001 | 6860 | SYT4 |
| 0.228772298 | < 0.001 | 51332 | SPTBN5 |
| 0.228714809 | < 0.001 | 8110 | DPF3 |
| 0.22871092 | < 0.001 | 143282 | FGFBP3 |
| 0.228706643 | < 0.001 | 23080 | AVL9 |
| 0.228696749 | < 0.001 | 1643 | DDB2 |
| 0.228678405 | < 0.001 | 79816 | TLE6 |
| 0.228675663 | < 0.001 | 10460 | TACC3 |
| 0.22867015 | < 0.001 | 8538 | BARX2 |
| 0.22855787 | < 0.001 | 2584 | GALK1 |
| 0.228528529 | < 0.001 | 1399 | CRKL |
| 0.228522867 | < 0.001 | 2660 | MSTN |
| 0.228501365 | < 0.001 | 3266 | ERAS |
| 0.228444114 | < 0.001 | 64840 | PORCN |
| 0.228322089 | < 0.001 | 55924 | C1orf183 |
| 0.228297472 | < 0.001 | 23074 | UHRF1BP1L |
| 0.228257686 | < 0.001 | 9859 | CEP170 |
| 0.228195325 | < 0.001 | 115350 | FCRL1 |
| 0.22814931 | < 0.001 | 375791 | C9orf169 |
| 0.228107885 | < 0.001 | 388324 | INCA1 |
| 0.228056625 | < 0.001 | 9791 | PTDSS1 |
| 0.227973416 | < 0.001 | 80737 | C6orf27 |
| 0.227930188 | < 0.001 | 5639 | PRRG2 |
| 0.227907896 | < 0.001 | 9057 | SLC7A6 |
| 0.227877021 | < 0.001 | 64089 | SNX16 |
| 0.227789536 | < 0.001 | 146771 | TCAM1 |
| 0.227778539 | < 0.001 | 5868 | RAB5A |
| 0.227725655 | < 0.001 | 6755 | SSTR5 |
| 0.227659672 | < 0.001 | 9500 | MAGED1 |
| 0.22763817 | < 0.001 | 145873 | MESP2 |
| 0.22759299 | < 0.001 | 222029 | DKFZp434L192 |
| 0.227510244 | < 0.001 | 4067 | LYN |
| 0.227358222 | < 0.001 | 114915 | EPB41L4A-AS1 |
| 0.227303803 | < 0.001 | 4802 | NFYC |
| 0.227281705 | < 0.001 | 24149 | ZNF318 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.297554672 | 0.07829012 | 0.102 | 1 | 79622 | SNRNP25 |
| 0.297297299 | 0.07855773 | 0.087 | 1 | 1983 | EIF5 |
| 0.297039896 | 0.078826062 | 0.12 | 1 | 577 | BAI3 |
| 0.297039896 | 0.078826062 | 0.102 | 1 | 7025 | NR2F1 |
| 0.297039896 | 0.078826062 | 0.106 | 1 | 8338 | HIST2H2AC |
| 0.297039896 | 0.078826062 | 0.108 | 1 | 9148 | NEURL |
| 0.297039896 | 0.078826062 | 0.084 | 1 | 51132 | RLIM |
| 0.297039896 | 0.078826062 | 0.107 | 1 | 159090 | FAM122B |
| 0.296782494 | 0.079095192 | 0.094 | 1 | 80345 | ZNF435 |
| 0.296525091 | 0.07936497 | 0.11 | 1 | 2247 | FGF2 |
| 0.296525091 | 0.07936497 | 0.112 | 1 | 10294 | DNAJA2 |
| 0.296525091 | 0.07936497 | 0.092 | 1 | 85406 | DNAJC14 |
| 0.296267688 | 0.079635456 | 0.115 | 1 | 8424 | BBOX1 |
| 0.296267688 | 0.079635456 | 0.105 | 1 | 8930 | MBD4 |
| 0.296267688 | 0.079635456 | 0.089 | 1 | 80218 | NAA50 |
| 0.296010286 | 0.079906672 | 0.12 | 1 | 5087 | PBX1 |
| 0.296010286 | 0.079906672 | 0.102 | 1 | 7274 | TTPA |
| 0.296010286 | 0.079906672 | 0.113 | 1 | 163255 | ZNF540 |
| 0.295752913 | 0.08017873 | 0.1 | 1 | 2152 | F3 |
| 0.295752913 | 0.08017873 | 0.106 | 1 | 150465 | TTL |
| 0.29549548 | 0.080451362 | 0.119 | 1 | 6507 | SLC1A3 |
| 0.29549548 | 0.080451362 | 0.11 | 1 | 8450 | CUL4B |
| 0.29549548 | 0.080451362 | 0.106 | 1 | 121273 | C12orf54 |
| 0.295238107 | 0.080724746 | 0.113 | 1 | 5156 | PDGFRA |
| 0.295238107 | 0.080724746 | 0.102 | 1 | 56997 | CABC1 |
| 0.294980675 | 0.080998868 | 0.098 | 1 | 29781 | NCAPH2 |
| 0.294980675 | 0.080998868 | 0.124 | 1 | 149018 | LELP1 |
| 0.294723302 | 0.081273712 | 0.114 | 1 | 5793 | PTPRG |
| 0.294723302 | 0.081273712 | 0.102 | 1 | 54622 | ARL15 |
| 0.294723302 | 0.081273712 | 0.106 | 1 | 79680 | C22orf29 |
| 0.294723302 | 0.081273712 | 0.112 | 1 | 131540 | ZDHHC19 |
| 0.294723302 | 0.081273712 | 0.132 | 1 | 653121 | ZBTB8A |
| 0.294465899 | 0.081549414 | 0.115 | 1 | 6621 | SNAPC4 |
| 0.294465899 | 0.081549414 | 0.101 | 1 | 7574 | ZNF26 |
| 0.294465899 | 0.081549414 | 0.105 | 1 | 246181 | AKR7L |
| 0.294208497 | 0.081825696 | 0.128 | 1 | 2978 | GUCA1A |
| 0.294208497 | 0.081825696 | 0.12 | 1 | 5201 | PFDN1 |
| 0.294208497 | 0.081825696 | 0.112 | 1 | 51592 | TRIM33 |
| 0.294208497 | 0.081825696 | 0.096 | 1 | 55691 | FRMD4A |
| 0.294208497 | 0.081825696 | 0.1 | 1 | 64207 | C14orf4 |
| 0.294208497 | 0.081825696 | 0.109 | 1 | 285126 | DNAJC5G |
| 0.293951094 | 0.082102731 | 0.101 | 1 | 8857 | FCGBP |
| 0.293951094 | 0.082102731 | 0.105 | 1 | 9564 | BCAR1 |
| 0.293951094 | 0.082102731 | 0.117 | 1 | 54535 | CCHCR1 |
| 0.293951094 | 0.082102731 | 0.1 | 1 | 122616 | C14orf79 |
| 0.293951094 | 0.082102731 | 0.11 | 1 | 132200 | C3orf49 |
| 0.293693662 | 0.082380503 | 0.099 | 1 | 2491 | CENPI |
| 0.293436289 | 0.08265914 | 0.102 | 1 | 9247 | GCM2 |
| 0.293436289 | 0.08265914 | 0.098 | 1 | 56892 | C8orf4 |
| 0.293178886 | 0.082938388 | 0.099 | 1 | 6001 | RGS10 |
| 0.293178886 | 0.082938388 | 0.136 | 1 | 29886 | SNX8 |
| 0.293178886 | 0.082938388 | 0.094 | 1 | 80301 | PLEKHO2 |
| 0.292921484 | 0.083218336 | 0.099 | 1 | 8811 | GALR2 |
| 0.292921484 | 0.083218336 | 0.106 | 1 | 54915 | YTHDF1 |
| 0.292921484 | 0.083218336 | 0.098 | 1 | 79873 | NUDT18 |
| 0.292664081 | 0.083499067 | 0.111 | 1 | 9547 | CXCL14 |
| 0.292664081 | 0.083499067 | 0.12 | 1 | 10480 | EIF3M |
| 0.292664081 | 0.083499067 | 0.111 | 1 | 54069 | C21orf45 |
| 0.292664081 | 0.083499067 | 0.12 | 1 | 55638 | AC079061.1 |
| 0.292664081 | 0.083499067 | 0.096 | 1 | 56062 | KLHL4 |
| 0.292664081 | 0.083499067 | 0.113 | 1 | 56160 | NDNL2 |
| 0.292664081 | 0.083499067 | 0.109 | 1 | 79139 | DERL1 |
| 0.292406678 | 0.083780527 | 0.111 | 1 | 1849 | DUSP7 |
| 0.292406678 | 0.083780527 | 0.11 | 1 | 8570 | KHSRP |
| 0.292406678 | 0.083780527 | 0.1 | 1 | 9145 | SYNGR1 |
| 0.292406678 | 0.083780527 | 0.097 | 1 | 81570 | CLPB |
| 0.292406678 | 0.083780527 | 0.109 | 1 | 158067 | C9orf98 |
| 0.292149276 | 0.084062852 | 0.115 | 1 | 4733 | DRG1 |
| 0.292149276 | 0.084062852 | 0.122 | 1 | 5820 | PVT1 |
| 0.292149276 | 0.084062852 | 0.118 | 1 | 23230 | VPS13A |
| 0.292149276 | 0.084062852 | 0.132 | 1 | 80700 | UBXN6 |
| 0.292149276 | 0.084062852 | 0.095 | 1 | 84225 | ZMYND15 |
| 0.292149276 | 0.084062852 | 0.106 | 1 | 91057 | CCDC34 |
| 0.292149276 | 0.084062852 | 0.129 | 1 | 100134934 | C17ORF106 |
| 0.291891903 | 0.084345795 | 0.107 | 1 | 3788 | KCNS2 |
| 0.291891903 | 0.084345795 | 0.113 | 1 | 29109 | FHOD1 |
| 0.291891903 | 0.084345795 | 0.124 | 1 | 51195 | RAPGEFL1 |
| 0.291891903 | 0.084345795 | 0.113 | 1 | 574029 | DUSP5P |
| 0.291891903 | 0.084345795 | 0.103 | 1 | 100132304 | RP1-172N19.1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.227209449 | < 0.001 | 201965 | RWDD4A |
| 0.227098674 | < 0.001 | 81034 | SLC25A32 |
| 0.227019683 | < 0.001 | 128989 | C22orf25 |
| 0.226894274 | < 0.001 | 127074 | OR2T4 |
| 0.226797417 | < 0.001 | 88745 | C6orf153 |
| 0.226781249 | < 0.001 | 2205 | FCER1A |
| 0.226759523 | < 0.001 | 10585 | POMT1 |
| 0.22671847 | < 0.001 | 90993 | CREB3L1 |
| 0.226666242 | < 0.001 | 83953 | FCAMR |
| 0.226610467 | < 0.001 | 9564 | BCAR1 |
| 0.226597384 | < 0.001 | 27034 | ACAD8 |
| 0.226569742 | < 0.001 | 92703 | TMEM183A |
| 0.226427987 | < 0.001 | 54734 | RAB39 |
| 0.226422742 | < 0.001 | 80218 | NAA50 |
| 0.226357922 | < 0.001 | 3308 | HSPA4 |
| 0.226341069 | < 0.001 | 154822 | AC004863.6 |
| 0.226317659 | < 0.001 | 826 | CAPNS1 |
| 0.226315856 | < 0.001 | 114794 | LRRC62 |
| 0.226236969 | < 0.001 | 5709 | PSMD3 |
| 0.22615692 | < 0.001 | 129684 | CNTNAP5 |
| 0.226145208 | < 0.001 | 728833 | FAM72D |
| 0.226115867 | < 0.001 | 685 | BTC |
| 0.225911841 | < 0.001 | 441308 | OR4F21 |
| 0.225889832 | < 0.001 | 5970 | RELA |
| 0.225887045 | < 0.001 | 55288 | RHOT1 |
| 0.225833043 | < 0.001 | 1054 | CEBPG |
| 0.225820556 | < 0.001 | 8715 | NOL4 |
| 0.225739986 | < 0.001 | 26539 | OR10H1 |
| 0.225662455 | < 0.001 | 440279 | UNC13C |
| 0.225591317 | < 0.001 | 9922 | IQSEC1 |
| 0.225583971 | < 0.001 | 8643 | PTCH2 |
| 0.22550787 | < 0.001 | 644172 | LOC644172 |
| 0.225487575 | < 0.001 | 57821 | C1orf114 |
| 0.225422069 | < 0.001 | 84694 | GJA10 |
| 0.225321397 | < 0.001 | 10512 | SEMA3C |
| 0.225195006 | < 0.001 | 26032 | SUSD5 |
| 0.22516194 | < 0.001 | 255631 | COL24A1 |
| 0.225138351 | < 0.001 | 26009 | ZZZ3 |
| 0.225116119 | < 0.001 | 284593 | FAM41C |
| 0.225087374 | < 0.001 | 9929 | JOSD1 |
| 0.225034669 | < 0.001 | 1014 | CDH16 |
| 0.22496368 | < 0.001 | 402117 | VWC2L |
| 0.224955231 | < 0.001 | 79825 | CCDC48 |
| 0.224922955 | < 0.001 | 100131289 | LOC100131289 |
| 0.22490035 | < 0.001 | 729991 | MEF2BNB |
| 0.224849075 | < 0.001 | 54707 | GPN2 |
| 0.224805668 | < 0.001 | 84929 | FIBCD1 |
| 0.224760205 | < 0.001 | 84272 | YIPF4 |
| 0.224749625 | < 0.001 | 80331 | DNAJC5 |
| 0.224681601 | < 0.001 | 401237 | LINC00340 |
| 0.2246719 | < 0.001 | 221786 | C7orf38 |
| 0.22464022 | < 0.001 | 58497 | PRUNE |
| 0.224551499 | < 0.001 | 283464 | GLT8D3 |
| 0.224524423 | < 0.001 | 6328 | SCN3A |
| 0.224499807 | < 0.001 | 1018 | CDK3 |
| 0.224452272 | < 0.001 | 399726 | C10orf114 |
| 0.22442013 | < 0.001 | 138804 | OR13C4 |
| 0.224405885 | < 0.001 | 57157 | PHTF2 |
| 0.224380895 | < 0.001 | 55014 | STX17 |
| 0.224367663 | < 0.001 | 9032 | TM4SF5 |
| 0.224313617 | < 0.001 | 64092 | SAMSN1 |
| 0.224302053 | < 0.001 | 4654 | MYOD1 |
| 0.224242851 | < 0.001 | 23544 | SEZ6L |
| 0.224191397 | < 0.001 | 158293 | FAM120AOS |
| 0.224120542 | < 0.001 | 3213 | HOXB3 |
| 0.224068448 | < 0.001 | 11253 | MAN1B1 |
| 0.223989472 | < 0.001 | 84885 | ZDHHC12 |
| 0.223899707 | < 0.001 | 11285 | B4GALT7 |
| 0.223868281 | < 0.001 | 6367 | CCL22 |
| 0.223834991 | < 0.001 | 4606 | MYBPC2 |
| 0.223830521 | < 0.001 | 9949 | AMMECR1 |
| 0.22378771 | < 0.001 | 7407 | VARS |
| 0.22377564 | < 0.001 | 9362 | CPNE6 |
| 0.223756284 | < 0.001 | 3904 | LAIR2 |
| 0.223636523 | < 0.001 | 162632 | AC022596.6 |
| 0.223528385 | < 0.001 | 3982 | LIM2 |
| 0.223451674 | < 0.001 | 3475 | IFRD1 |
| 0.223379478 | < 0.001 | 4534 | MTM1 |
| 0.223368749 | < 0.001 | 55680 | RUFY2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.29163447 | 0.084629454 | 0.126 | 1 | 64101 | LRRC4 |
| 0.29163447 | 0.084629454 | 0.109 | 1 | 145581 | LRFN5 |
| 0.29163447 | 0.084629454 | 0.085 | 1 | 163126 | EID2 |
| 0.291377097 | 0.084913887 | 0.104 | 1 | 2529 | FUT7 |
| 0.291377097 | 0.084913887 | 0.101 | 1 | 9329 | GTF3C4 |
| 0.291377097 | 0.084913887 | 0.108 | 1 | 55890 | GPRC5C |
| 0.291377097 | 0.084913887 | 0.116 | 1 | 92345 | NAF1 |
| 0.291119665 | 0.085199192 | 0.112 | 1 | 6247 | RS1 |
| 0.291119665 | 0.085199192 | 0.11 | 1 | 8193 | DPF1 |
| 0.291119665 | 0.085199192 | 0.111 | 1 | 91875 | TTC5 |
| 0.290862292 | 0.085485116 | 0.118 | 1 | 174 | AFP |
| 0.290862292 | 0.085485116 | 0.105 | 1 | 11168 | PSIP1 |
| 0.290862292 | 0.085485116 | 0.089 | 1 | 219957 | OR9Q2 |
| 0.290604889 | 0.085771762 | 0.115 | 1 | 80851 | SH3BP5L |
| 0.290347487 | 0.08605919 | 0.109 | 1 | 2036 | EPB41L1 |
| 0.290347487 | 0.08605919 | 0.107 | 1 | 3195 | TLX1 |
| 0.290090084 | 0.086347491 | 0.102 | 1 | 2775 | GNAO1 |
| 0.290090084 | 0.086347491 | 0.115 | 1 | 8929 | PHOX2B |
| 0.289832681 | 0.086636424 | 0.097 | 1 | 90378 | SAMD1 |
| 0.289832681 | 0.086636424 | 0.124 | 1 | 146542 | ZNF688 |
| 0.289575279 | 0.086926095 | 0.123 | 1 | 4745 | NELL1 |
| 0.289575279 | 0.086926095 | 0.109 | 1 | 10245 | TIMM17B |
| 0.289317906 | 0.087216504 | 0.103 | 1 | 84197 | AC113191.1 |
| 0.289060473 | 0.087507695 | 0.107 | 1 | 5155 | PDGFB |
| 0.289060473 | 0.087507695 | 0.121 | 1 | 7468 | WHSC1 |
| 0.289060473 | 0.087507695 | 0.122 | 1 | 10904 | BLCAP |
| 0.289060473 | 0.087507695 | 0.13 | 1 | 51299 | NRN1 |
| 0.289060473 | 0.087507695 | 0.099 | 1 | 114659 | LRRC37B |
| 0.289060473 | 0.087507695 | 0.109 | 1 | 123016 | TTC8 |
| 0.289060473 | 0.087507695 | 0.113 | 1 | 130162 | C2orf63 |
| 0.288803101 | 0.087799765 | 0.125 | 1 | 4771 | NF2 |
| 0.288803101 | 0.087799765 | 0.115 | 1 | 7084 | TK2 |
| 0.288803101 | 0.087799765 | 0.124 | 1 | 23331 | TTC28 |
| 0.288803101 | 0.087799765 | 0.1 | 1 | 55922 | NKRF |
| 0.288803101 | 0.087799765 | 0.109 | 1 | 114818 | KLHL29 |
| 0.288803101 | 0.087799765 | 0.107 | 1 | 143279 | HECTD2 |
| 0.288803101 | 0.087799765 | 0.119 | 1 | 163115 | ZNF781 |
| 0.288803101 | 0.087799765 | 0.113 | 1 | 282808 | RAB40AL |
| 0.288803101 | 0.087799765 | 0.123 | 1 | 389538 | MGC72080 |
| 0.288803101 | 0.087799765 | 0.117 | 1 | 645676 | RP11-29H23.1 |
| 0.288545668 | 0.088092476 | 0.119 | 1 | 361 | AQP4 |
| 0.288545668 | 0.088092476 | 0.112 | 1 | 10944 | C11orf58 |
| 0.288545668 | 0.088092476 | 0.124 | 1 | 51650 | MRPS33 |
| 0.288545668 | 0.088092476 | 0.109 | 1 | 54466 | SPIN2A |
| 0.288545668 | 0.088092476 | 0.111 | 1 | 64210 | MMS19 |
| 0.288545668 | 0.088092476 | 0.115 | 1 | 84332 | DYDC2 |
| 0.288030893 | 0.088680126 | 0.115 | 1 | 6645 | SNTB2 |
| 0.288030893 | 0.088680126 | 0.12 | 1 | 9061 | PAPSS1 |
| 0.28777349 | 0.088975251 | 0.112 | 1 | 8681 | JMJD7-PLA2G4B |
| 0.28777349 | 0.088975251 | 0.091 | 1 | 9154 | SLC28A1 |
| 0.28777349 | 0.088975251 | 0.113 | 1 | 24149 | ZNF318 |
| 0.287516087 | 0.089270994 | 0.122 | 1 | 9112 | MTA1 |
| 0.287516087 | 0.089270994 | 0.13 | 1 | 29855 | UBN1 |
| 0.287516087 | 0.089270994 | 0.109 | 1 | 55300 | PI4K2B |
| 0.287516087 | 0.089270994 | 0.115 | 1 | 401720 | FIGNL2 |
| 0.287258685 | 0.089567475 | 0.112 | 1 | 6157 | RPL27A |
| 0.287258685 | 0.089567475 | 0.11 | 1 | 8732 | RNGTT |
| 0.287258685 | 0.089567475 | 0.114 | 1 | 643988 | RP11-345P4.1 |
| 0.287001282 | 0.089864753 | 0.129 | 1 | 10486 | CAP2 |
| 0.286743879 | 0.090162925 | 0.109 | 1 | 2002 | ELK1 |
| 0.286743879 | 0.090162925 | 0.112 | 1 | 4948 | OCA2 |
| 0.286743879 | 0.090162925 | 0.117 | 1 | 150726 | FBXO41 |
| 0.286486477 | 0.090461738 | 0.109 | 1 | 2926 | GRSF1 |
| 0.286486477 | 0.090461738 | 0.121 | 1 | 55269 | PSPC1 |
| 0.286486477 | 0.090461738 | 0.123 | 1 | 338651 | AP006285.4 |
| 0.286229074 | 0.090761289 | 0.133 | 1 | 285315 | C3orf33 |
| 0.285971671 | 0.091061637 | 0.118 | 1 | 378 | ARF4 |
| 0.285971671 | 0.091061637 | 0.116 | 1 | 10465 | PPIH |
| 0.285971671 | 0.091061637 | 0.117 | 1 | 440799 | P2RX6P |
| 0.285714269 | 0.091362759 | 0.107 | 1 | 475 | ATOX1 |
| 0.285714269 | 0.091362759 | 0.125 | 1 | 137886 | UBXN2B |
| 0.285456896 | 0.091664784 | 0.128 | 1 | 5271 | SERPINB8 |
| 0.285456896 | 0.091664784 | 0.111 | 1 | 9761 | MLEC |
| 0.285456896 | 0.091664784 | 0.125 | 1 | 26015 | RPAP1 |
| 0.285456896 | 0.091664784 | 0.12 | 1 | 28992 | MACROD1 |
| 0.285456896 | 0.091664784 | 0.118 | 1 | 56143 | PCDHA5 |
| 0.285456896 | 0.091664784 | 0.134 | 1 | 57149 | LYRM1 |
| 0.285456896 | 0.091664784 | 0.122 | 1 | 200931 | Osta |
| 0.285199463 | 0.091967456 | 0.119 | 1 | 6441 | SFTPD |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.223366573 | < 0.001 | 147372 | CCBE1 |
| 0.223313585 | < 0.001 | 8761 | PABPC4 |
| 0.223237306 | < 0.001 | 7049 | TGFBR3 |
| 0.223217756 | < 0.001 | 139065 | SLITRK4 |
| 0.223212093 | < 0.001 | 79719 | AAGAB |
| 0.223196432 | < 0.001 | 283078 | MKX |
| 0.223111182 | < 0.001 | 23122 | CLASP2 |
| 0.223092422 | < 0.001 | 11222 | MRPL3 |
| 0.223037496 | < 0.001 | 54521 | WDR44 |
| 0.223002255 | < 0.001 | 25799 | ZNF324 |
| 0.222943425 | < 0.001 | 10531 | PITRM1 |
| 0.222934052 | < 0.001 | 3949 | LDLR |
| 0.222877443 | < 0.001 | 4131 | MAP1B |
| 0.222851992 | < 0.001 | 51307 | FAM53C |
| 0.222843736 | < 0.001 | 130827 | TMEM182 |
| 0.222838581 | < 0.001 | 6547 | SLC8A3 |
| 0.222779244 | < 0.001 | 4018 | LPA |
| 0.222774729 | < 0.001 | 8175 | SF3A2 |
| 0.222734481 | < 0.001 | 5481 | PPID |
| 0.222700074 | < 0.001 | 404266 | RP11-357H14.1 |
| 0.222665384 | < 0.001 | 119710 | C11orf74 |
| 0.222598702 | < 0.001 | 122616 | C14orf79 |
| 0.222567692 | < 0.001 | 646643 | SBK2 |
| 0.222555473 | < 0.001 | 387804 | VSTM5 |
| 0.222464383 | < 0.001 | 4154 | MBNL1 |
| 0.222356558 | < 0.001 | 22801 | ITGA11 |
| 0.222125739 | < 0.001 | 222696 | ZSCAN23 |
| 0.2221255 | < 0.001 | 22849 | CPEB3 |
| 0.222080752 | < 0.001 | 719 | C3AR1 |
| 0.222052798 | < 0.001 | 130888 | FBXO36 |
| 0.222008362 | < 0.001 | 54714 | CNGB3 |
| 0.221962109 | < 0.001 | 4833 | NME4 |
| 0.221952781 | < 0.001 | 10206 | TRIM13 |
| 0.221944839 | < 0.001 | 8208 | CHAF1B |
| 0.221940473 | < 0.001 | 6457 | SH3GL3 |
| 0.221925616 | < 0.001 | 23168 | RTF1 |
| 0.221919537 | < 0.001 | 339896 | GADL1 |
| 0.22190477 | < 0.001 | 4049 | LTA |
| 0.221673384 | < 0.001 | 29922 | NME7 |
| 0.221653476 | < 0.001 | 90550 | CCDC109A |
| 0.221624121 | < 0.001 | 149628 | PYHIN1 |
| 0.221575692 | < 0.001 | 389119 | C3orf54 |
| 0.22144717 | < 0.001 | 285349 | ZNF660 |
| 0.221430033 | < 0.001 | 401036 | ASB18 |
| 0.221395954 | < 0.001 | 57333 | RCN3 |
| 0.221368 | < 0.001 | 51750 | RTEL1 |
| 0.221367493 | < 0.001 | 256586 | LYSMD2 |
| 0.221367449 | < 0.001 | 6565 | SLC15A2 |
| 0.221358299 | < 0.001 | 201191 | SAMD14 |
| 0.221327364 | < 0.001 | 23595 | ORC3L |
| 0.221309766 | < 0.001 | 23001 | WDFY3 |
| 0.221285343 | < 0.001 | 1780 | DYNC1I1 |
| 0.221272722 | < 0.001 | 57016 | AKR1B10 |
| 0.221225917 | < 0.001 | 441525 | SPANXN4 |
| 0.221206784 | < 0.001 | 2525 | FUT3 |
| 0.221174553 | < 0.001 | 8317 | CDC7 |
| 0.221118286 | < 0.001 | 80270 | HSD3B7 |
| 0.221054018 | < 0.001 | 9167 | COX7A2L |
| 0.221043989 | < 0.001 | 79953 | C20orf39 |
| 0.221032336 | < 0.001 | 54751 | FBLIM1 |
| 0.221026391 | < 0.001 | 51646 | YPEL5 |
| 0.220952138 | < 0.001 | 5986 | RFNG |
| 0.220882595 | < 0.001 | 1182 | CLCN3 |
| 0.220857888 | < 0.001 | 100131733 | USP30-AS1 |
| 0.220778957 | < 0.001 | 7051 | TGM1 |
| 0.220778018 | < 0.001 | 147912 | SIX5 |
| 0.220736787 | < 0.001 | 56931 | DUS3L |
| 0.220676333 | < 0.001 | 7286 | TUFT1 |
| 0.220666394 | < 0.001 | 119687 | OR51A7 |
| 0.220642433 | < 0.001 | 3191 | HNRNPL |
| 0.220638722 | < 0.001 | 57621 | ZBTB2 |
| 0.220610484 | < 0.001 | 5515 | PPP2CA |
| 0.220602602 | < 0.001 | 339778 | C2orf70 |
| 0.22059916 | < 0.001 | 58155 | PTBP2 |
| 0.220580131 | < 0.001 | 253635 | CCDC75 |
| 0.220530808 | < 0.001 | 8786 | RGS11 |
| 0.220521986 | < 0.001 | 8721 | EDF1 |
| 0.220515773 | < 0.001 | 2691 | GHRH |
| 0.22046636 | < 0.001 | 84961 | FBXL20 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.285199463 | 0.091967456 | 0.12 | 1 | 22943 | DKK1 |
| 0.285199463 | 0.091967456 | 0.12 | 1 | 84639 | IL1F10 |
| 0.284684658 | 0.092575073 | 0.131 | 1 | 1508 | CTSB |
| 0.284684658 | 0.092575073 | 0.141 | 1 | 2354 | FOSB |
| 0.284684658 | 0.092575073 | 0.139 | 1 | 6002 | RGS12 |
| 0.284684658 | 0.092575073 | 0.127 | 1 | 10859 | LILRB1 |
| 0.284684658 | 0.092575073 | 0.116 | 1 | 64393 | ZMAT3 |
| 0.284684658 | 0.092575073 | 0.134 | 1 | 128977 | C22orf39 |
| 0.284169883 | 0.093185984 | 0.115 | 1 | 4107 | MAGEA8 |
| 0.284169883 | 0.093185984 | 0.11 | 1 | 6476 | SI |
| 0.284169883 | 0.093185984 | 0.129 | 1 | 51276 | ZNF571 |
| 0.284169883 | 0.093185984 | 0.126 | 1 | 202500 | TCTE1 |
| 0.28391248 | 0.0934925 | 0.122 | 1 | 22920 | KIFAP3 |
| 0.28391248 | 0.0934925 | 0.118 | 1 | 166647 | GPR125 |
| 0.283655077 | 0.093799837 | 0.118 | 1 | 4713 | NDUFB7 |
| 0.283655077 | 0.093799837 | 0.127 | 1 | 375196 | LOC375196 |
| 0.283140272 | 0.094416983 | 0.116 | 1 | 160 | AP2A1 |
| 0.283140272 | 0.094416983 | 0.121 | 1 | 1534 | CYB561 |
| 0.283140272 | 0.094416983 | 0.117 | 1 | 65243 | ZNF643 |
| 0.283140272 | 0.094416983 | 0.134 | 1 | 84065 | TMEM222 |
| 0.283140272 | 0.094416983 | 0.121 | 1 | 171484 | FAM9C |
| 0.282625467 | 0.095037095 | 0.126 | 1 | 6586 | SLIT3 |
| 0.282625467 | 0.095037095 | 0.122 | 1 | 56097 | PCDHGC5 |
| 0.282625467 | 0.095037095 | 0.119 | 1 | 57510 | XPO5 |
| 0.282368094 | 0.095348351 | 0.129 | 1 | 2762 | GMDS |
| 0.282368094 | 0.095348351 | 0.146 | 1 | 5886 | RAD23A |
| 0.282368094 | 0.095348351 | 0.122 | 1 | 9991 | ROD1 |
| 0.282368094 | 0.095348351 | 0.124 | 1 | 170960 | ZNF721 |
| 0.282368094 | 0.095348351 | 0.129 | 1 | 284257 | AC100775.1 |
| 0.282368094 | 0.095348351 | 0.126 | 1 | 553115 | PEF1 |
| 0.282110661 | 0.09566053 | 0.123 | 1 | 896 | CCND3 |
| 0.282110661 | 0.09566053 | 0.127 | 1 | 2941 | GSTA4 |
| 0.282110661 | 0.09566053 | 0.109 | 1 | 4072 | EPCAM |
| 0.282110661 | 0.09566053 | 0.113 | 1 | 23350 | SR140 |
| 0.282110661 | 0.09566053 | 0.124 | 1 | 25820 | ARIH1 |
| 0.282110661 | 0.09566053 | 0.12 | 1 | 152518 | NFXL1 |
| 0.281853288 | 0.095973358 | 0.107 | 1 | 3149 | HMGB3 |
| 0.281853288 | 0.095973358 | 0.123 | 1 | 7291 | TWIST1 |
| 0.281853288 | 0.095973358 | 0.136 | 1 | 10322 | SMYD5 |
| 0.281853288 | 0.095973358 | 0.127 | 1 | 11119 | BTN3A1 |
| 0.281853288 | 0.095973358 | 0.112 | 1 | 54020 | SLC37A1 |
| 0.281853288 | 0.095973358 | 0.134 | 1 | 154214 | RNF217 |
| 0.281853288 | 0.095973358 | 0.109 | 1 | 440823 | MIAT |
| 0.281595886 | 0.096286982 | 0.142 | 1 | 9409 | PEX16 |
| 0.281595886 | 0.096286982 | 0.136 | 1 | 255928 | SYT14 |
| 0.281595886 | 0.096286982 | 0.128 | 1 | 100288367 | LOC100288367 |
| 0.281338483 | 0.096601352 | 0.113 | 1 | 996 | CDC27 |
| 0.281338483 | 0.096601352 | 0.119 | 1 | 25804 | LSM4 |
| 0.28108108 | 0.096916698 | 0.134 | 1 | 26156 | RSL1D1 |
| 0.28108108 | 0.096916698 | 0.142 | 1 | 55171 | TBCCD1 |
| 0.28108108 | 0.096916698 | 0.117 | 1 | 114795 | TMEM132B |
| 0.28108108 | 0.096916698 | 0.127 | 1 | 116236 | ABHD15 |
| 0.28108108 | 0.096916698 | 0.144 | 1 | 126370 | OR1I1 |
| 0.280823678 | 0.097232692 | 0.128 | 1 | 4012 | LNPEP |
| 0.280823678 | 0.097232692 | 0.124 | 1 | 26050 | SLITRK5 |
| 0.280823678 | 0.097232692 | 0.117 | 1 | 55239 | OGFOD1 |
| 0.280823678 | 0.097232692 | 0.123 | 1 | 79896 | THNSL1 |
| 0.280823678 | 0.097232692 | 0.125 | 1 | 100288713 | PMS2P10 |
| 0.280566275 | 0.097549483 | 0.123 | 1 | 126129 | CPT1C |
| 0.280308902 | 0.097867072 | 0.125 | 1 | 611 | OPN1SW |
| 0.280308902 | 0.097867072 | 0.112 | 1 | 867 | CBL |
| 0.280308902 | 0.097867072 | 0.15 | 1 | 2220 | FCN2 |
| 0.280308902 | 0.097867072 | 0.159 | 1 | 6448 | SGSH |
| 0.280308902 | 0.097867072 | 0.128 | 1 | 9422 | ZNF264 |
| 0.28005147 | 0.098185562 | 0.109 | 1 | 2949 | GSTM5 |
| 0.28005147 | 0.098185562 | 0.126 | 1 | 4897 | NRCAM |
| 0.28005147 | 0.098185562 | 0.125 | 1 | 390113 | OR4X1 |
| 0.279794097 | 0.098504752 | 0.139 | 1 | 1036 | CDO1 |
| 0.279794097 | 0.098504752 | 0.138 | 1 | 9344 | TAOK2 |
| 0.279794097 | 0.098504752 | 0.129 | 1 | 9552 | SPAG7 |
| 0.279794097 | 0.098504752 | 0.145 | 1 | 283106 | CSNK2A1P |
| 0.279536664 | 0.098824732 | 0.127 | 1 | 2695 | GIP |
| 0.279536664 | 0.098824732 | 0.137 | 1 | 92703 | TMEM183A |
| 0.279536664 | 0.098824732 | 0.139 | 1 | 162333 | MARCHF10 |
| 0.279536664 | 0.098824732 | 0.14 | 1 | 284040 | CDRT4 |
| 0.279279262 | 0.099145517 | 0.14 | 1 | 11140 | CDC37 |
| 0.279279262 | 0.099145517 | 0.115 | 1 | 57231 | SNX14 |
| 0.279279262 | 0.099145517 | 0.129 | 1 | 79022 | TMEM106C |
| 0.279279262 | 0.099145517 | 0.146 | 1 | 199974 | CYP4Z1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.220451325 | < 0.001 | 8756 | ADAM7 |
| 0.220448807 | < 0.001 | 166336 | PRICKLE2 |
| 0.220314801 | < 0.001 | 353142 | LCE3A |
| 0.220216736 | < 0.001 | 64746 | ACBD3 |
| 0.220189989 | < 0.001 | 602 | BCL3 |
| 0.220152944 | < 0.001 | 2690 | GHR |
| 0.220139295 | < 0.001 | 9832 | JAKMIP2 |
| 0.22013855 | < 0.001 | 27248 | C2orf30 |
| 0.220094621 | < 0.001 | 646508 | AC092070.5 |
| 0.21989505 | < 0.001 | 1421 | CRYGD |
| 0.219850108 | < 0.001 | 401115 | C4orf48 |
| 0.219809994 | < 0.001 | 64091 | POPDC2 |
| 0.21978046 | < 0.001 | 1990 | CELA1 |
| 0.219766527 | < 0.001 | 22837 | COBLL1 |
| 0.219759658 | < 0.001 | 57599 | WDR48 |
| 0.219738483 | < 0.001 | 23339 | VPS39 |
| 0.219671801 | < 0.001 | 168433 | RNF133 |
| 0.219606519 | < 0.001 | 1155 | TBCB |
| 0.219573826 | < 0.001 | 58525 | WIZ |
| 0.219572246 | < 0.001 | 57171 | DOLPP1 |
| 0.219539925 | < 0.001 | 23129 | PLXND1 |
| 0.219499901 | < 0.001 | 134549 | SHROOM1 |
| 0.219457656 | < 0.001 | 3219 | HOXB9 |
| 0.219439268 | < 0.001 | 55869 | HDAC8 |
| 0.219414756 | < 0.001 | 441869 | ANKRD65 |
| 0.21939525 | < 0.001 | 4837 | NNMT |
| 0.219385594 | < 0.001 | 90060 | CCDC120 |
| 0.219356239 | < 0.001 | 3417 | IDH1 |
| 0.219352901 | < 0.001 | 3159 | HMGA1 |
| 0.219341382 | < 0.001 | 4608 | MYBPH |
| 0.219340369 | < 0.001 | 728716 | LOC728716 |
| 0.219294026 | < 0.001 | 60412 | EXOC4 |
| 0.219207942 | < 0.001 | 4353 | MPO |
| 0.21909529 | < 0.001 | 2232 | FDXR |
| 0.218983203 | < 0.001 | 1124 | CHN2 |
| 0.218904361 | < 0.001 | 22954 | TRIM32 |
| 0.218903616 | < 0.001 | 60677 | BRUNOL6 |
| 0.21889405 | < 0.001 | 7296 | TXNRD1 |
| 0.218843624 | < 0.001 | 387856 | C12orf68 |
| 0.218789205 | < 0.001 | 475 | ATOX1 |
| 0.218740538 | < 0.001 | 79849 | PDZD3 |
| 0.218705624 | < 0.001 | 768206 | PRCD |
| 0.21859251 | < 0.001 | 2218 | FKTN |
| 0.218558893 | < 0.001 | 93145 | OLFM2 |
| 0.218554348 | < 0.001 | 80237 | ELL3 |
| 0.218549237 | < 0.001 | 8433 | UTF1 |
| 0.218510792 | < 0.001 | 93663 | ARHGAP18 |
| 0.218510613 | < 0.001 | 28904 | IGKV1D-8 |
| 0.218301103 | < 0.001 | 11250 | GPR45 |
| 0.218183354 | < 0.001 | 392255 | GDF6 |
| 0.218169793 | < 0.001 | 134359 | C5orf37 |
| 0.218027979 | < 0.001 | 80320 | SP6 |
| 0.21797727 | < 0.001 | 56964 | WDR93 |
| 0.217961669 | < 0.001 | 9038 | TAAR5 |
| 0.217904463 | < 0.001 | 145567 | TTC7B |
| 0.217891753 | < 0.001 | 389137 | ARMC10P1 |
| 0.217851356 | < 0.001 | 5926 | ARID4A |
| 0.2178417 | < 0.001 | 400406 | LOC400406 |
| 0.217833057 | < 0.001 | 55902 | ACSS2 |
| 0.217816621 | < 0.001 | 7251 | TSG101 |
| 0.217779756 | < 0.001 | 51010 | EXOSC3 |
| 0.217729419 | < 0.001 | 51143 | DYNC1LI1 |
| 0.217690319 | < 0.001 | 56180 | MOSPD1 |
| 0.217681319 | < 0.001 | 54962 | TIPIN |
| 0.217638031 | < 0.001 | 23380 | SRGAP2 |
| 0.217636093 | < 0.001 | 4046 | LSP1 |
| 0.217582136 | < 0.001 | 5818 | PVRL1 |
| 0.217541084 | < 0.001 | 9172 | MYOM2 |
| 0.217484713 | < 0.001 | 55083 | KIF26B |
| 0.217464566 | < 0.001 | 3283 | HSD3B1 |
| 0.21736148 | < 0.001 | 158158 | RASEF |
| 0.217288673 | < 0.001 | 116224 | FAM122A |
| 0.217239648 | < 0.001 | 1113 | CHGA |
| 0.217234448 | < 0.001 | 1394 | CRHR1 |
| 0.217177615 | < 0.001 | 57121 | LPAR5 |
| 0.217104703 | < 0.001 | 56262 | LRRC8A |
| 0.217089206 | < 0.001 | 81031 | SLC2A10 |
| 0.217042297 | < 0.001 | 373856 | USP41 |
| 0.217036635 | < 0.001 | 392188 | USP17L8 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.279279262 | 0.099145517 | 0.141 | 1 | 441452 | FAM75C1 |
| 0.279021889 | 0.099467099 | 0.11 | 1 | 107 | ADCY1 |
| 0.278764457 | 0.099789605 | 0.14 | 1 | 9391 | CIAO1 |
| 0.278764457 | 0.099789605 | 0.112 | 1 | 79147 | FKRP |
| 0.278764457 | 0.099789605 | 0.139 | 1 | 353143 | LCE3B |
| 0.278507084 | 0.100112788 | 0.136 | 1 | 6132 | RPL8 |
| 0.278507084 | 0.100112788 | 0.137 | 1 | 6588 | SLN |
| 0.278507084 | 0.100112788 | 0.136 | 1 | 8364 | HIST1H4C |
| 0.278507084 | 0.100112788 | 0.134 | 1 | 283385 | MORN3 |
| 0.278249651 | 0.100436792 | 0.127 | 1 | 23300 | ATMIN |
| 0.277992278 | 0.100761592 | 0.13 | 1 | 5770 | PTPN1 |
| 0.277992278 | 0.100761592 | 0.12 | 1 | 7067 | THRA |
| 0.277992278 | 0.100761592 | 0.124 | 1 | 80014 | WWC2 |
| 0.277992278 | 0.100761592 | 0.128 | 1 | 89970 | RSPRY1 |
| 0.277992278 | 0.100761592 | 0.12 | 1 | 119467 | CLRN3 |
| 0.277992278 | 0.100761592 | 0.137 | 1 | 128414 | NKAIN4 |
| 0.277992278 | 0.100761592 | 0.13 | 1 | 390407 | EIF4A1P6 |
| 0.277734876 | 0.101087317 | 0.106 | 1 | 10641 | TUSC4 |
| 0.277477473 | 0.101413734 | 0.132 | 1 | 10683 | DLL3 |
| 0.277477473 | 0.101413734 | 0.123 | 1 | 65094 | JMJD4 |
| 0.277477473 | 0.101413734 | 0.136 | 1 | 163720 | CYP4Z2P |
| 0.27722007 | 0.101740964 | 0.136 | 1 | 1855 | DVL1 |
| 0.27722007 | 0.101740964 | 0.138 | 1 | 8775 | NAPA |
| 0.27722007 | 0.101740964 | 0.123 | 1 | 89780 | WNT3A |
| 0.276962668 | 0.102069005 | 0.135 | 1 | 6636 | SNRPF |
| 0.276962668 | 0.102069005 | 0.142 | 1 | 10573 | MRPL28 |
| 0.276962668 | 0.102069005 | 0.13 | 1 | 79656 | BEND5 |
| 0.276705265 | 0.102398008 | 0.121 | 1 | 5440 | AC025647.1 |
| 0.276705265 | 0.102398008 | 0.145 | 1 | 10737 | RFPL3S |
| 0.276705265 | 0.102398008 | 0.135 | 1 | 23479 | ISCU |
| 0.276705265 | 0.102398008 | 0.127 | 1 | 51194 | IPO11 |
| 0.276705265 | 0.102398008 | 0.131 | 1 | 51555 | PEX5L |
| 0.276705265 | 0.102398008 | 0.14 | 1 | 126321 | C19orf28 |
| 0.276705265 | 0.102398008 | 0.136 | 1 | 100129201 | LOC100129201 |
| 0.276447892 | 0.102727637 | 0.131 | 1 | 9898 | UBAP2L |
| 0.276447892 | 0.102727637 | 0.135 | 1 | 54737 | MPHOSPH8 |
| 0.276447892 | 0.102727637 | 0.136 | 1 | 55571 | C2orf29 |
| 0.27619046 | 0.103058122 | 0.12 | 1 | 7070 | THY1 |
| 0.27619046 | 0.103058122 | 0.119 | 1 | 7087 | ICAM5 |
| 0.27619046 | 0.103058122 | 0.123 | 1 | 9890 | RP4-788L13.1 |
| 0.27619046 | 0.103058122 | 0.112 | 1 | 284802 | FRG1B |
| 0.275933087 | 0.10338942 | 0.123 | 1 | 1551 | CYP3A7 |
| 0.275933087 | 0.10338942 | 0.13 | 1 | 123591 | C15orf27 |
| 0.275933087 | 0.10338942 | 0.125 | 1 | 345462 | ZNF879 |
| 0.275675654 | 0.103721537 | 0.115 | 1 | 57088 | PLSCR4 |
| 0.275675654 | 0.103721537 | 0.118 | 1 | 84193 | SETD3 |
| 0.275675654 | 0.103721537 | 0.122 | 1 | 339778 | C2orf70 |
| 0.275418282 | 0.104054615 | 0.136 | 1 | 10238 | DCAF7 |
| 0.275418282 | 0.104054615 | 0.125 | 1 | 64061 | TSPYL2 |
| 0.275418282 | 0.104054615 | 0.126 | 1 | 150962 | PUS10 |
| 0.275160879 | 0.104388334 | 0.123 | 1 | 641455 | AL589182.2 |
| 0.274903476 | 0.104722902 | 0.128 | 1 | 5346 | PLIN |
| 0.274903476 | 0.104722902 | 0.131 | 1 | 7064 | THOP1 |
| 0.274903476 | 0.104722902 | 0.14 | 1 | 140685 | ZBTB46 |
| 0.274646074 | 0.105058305 | 0.148 | 1 | 7136 | TNNI2 |
| 0.274646074 | 0.105058305 | 0.125 | 1 | 57103 | C12orf5 |
| 0.274646074 | 0.105058305 | 0.142 | 1 | 80034 | CSRNP3 |
| 0.274388671 | 0.105394669 | 0.148 | 1 | 6276 | S100A5 |
| 0.274388671 | 0.105394669 | 0.121 | 1 | 6311 | ATXN2 |
| 0.274388671 | 0.105394669 | 0.144 | 1 | 10529 | NEBL |
| 0.274388671 | 0.105394669 | 0.13 | 1 | 10949 | HNRNPA0 |
| 0.274388671 | 0.105394669 | 0.134 | 1 | 23732 | FRRS1L |
| 0.274131268 | 0.105731703 | 0.139 | 1 | 6778 | STAT6 |
| 0.274131268 | 0.105731703 | 0.13 | 1 | 51289 | RXFP3 |
| 0.274131268 | 0.105731703 | 0.146 | 1 | 440956 | IQCF6 |
| 0.273873895 | 0.106069535 | 0.127 | 1 | 9127 | P2RX6 |
| 0.273873895 | 0.106069535 | 0.133 | 1 | 9678 | PHF14 |
| 0.273873895 | 0.106069535 | 0.124 | 1 | 10154 | PLXNC1 |
| 0.273873895 | 0.106069535 | 0.117 | 1 | 57794 | SF4 |
| 0.273873895 | 0.106069535 | 0.141 | 1 | 93426 | SYCE1 |
| 0.273616463 | 0.106408231 | 0.133 | 1 | 3833 | KIFC1 |
| 0.273616463 | 0.106408231 | 0.155 | 1 | 390748 | AC092384.2 |
| 0.27335909 | 0.106747895 | 0.123 | 1 | 6449 | SGTA |
| 0.27335909 | 0.106747895 | 0.161 | 1 | 7077 | TIMP2 |
| 0.27335909 | 0.106747895 | 0.116 | 1 | 26121 | PRPF31 |
| 0.273101658 | 0.107088245 | 0.139 | 1 | 5212 | VIT |
| 0.273101658 | 0.107088245 | 0.134 | 1 | 10885 | WDR3 |
| 0.273101658 | 0.107088245 | 0.134 | 1 | 22797 | TFEC |
| 0.273101658 | 0.107088245 | 0.109 | 1 | 154743 | C7orf60 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.217026979 | < 0.001 | 64714 | PDIA2 |
| 0.21699281 | < 0.001 | 85474 | LBX2 |
| 0.216910526 | < 0.001 | 5718 | PSMD12 |
| 0.216869473 | < 0.001 | 10565 | ARFGEF1 |
| 0.21685797 | < 0.001 | 80169 | CTC1 |
| 0.216802984 | < 0.001 | 1133 | CHRM5 |
| 0.216793701 | < 0.001 | 348654 | GEN1 |
| 0.216746986 | < 0.001 | 10791 | VAMP5 |
| 0.216742069 | < 0.001 | 63036 | CELA2A |
| 0.216713652 | < 0.001 | 8092 | ALX1 |
| 0.216677338 | < 0.001 | 1977 | EIF4E |
| 0.216572866 | < 0.001 | 10480 | EIF3M |
| 0.216570541 | < 0.001 | 55204 | GOLPH3L |
| 0.216534138 | < 0.001 | 728045 | PPBPP1 |
| 0.216516957 | < 0.001 | 7587 | ZNF37A |
| 0.216431901 | < 0.001 | 642587 | MIR205HG |
| 0.2162835 | < 0.001 | 11153 | FICD |
| 0.216274202 | < 0.001 | 23560 | GTPBP4 |
| 0.216266587 | < 0.001 | 2820 | GPD2 |
| 0.216243565 | < 0.001 | 170685 | NUDT10 |
| 0.216222674 | < 0.001 | 998 | CDC42 |
| 0.216168523 | < 0.001 | 27147 | DENND2A |
| 0.216131747 | < 0.001 | 51072 | MEMO1 |
| 0.216112614 | < 0.001 | 23641 | LDOC1 |
| 0.216105849 | < 0.001 | 5955 | RCN2 |
| 0.216070369 | < 0.001 | 375298 | CERKL |
| 0.216065913 | < 0.001 | 339745 | SPOPL |
| 0.216062471 | < 0.001 | 51499 | TRIAP1 |
| 0.216026261 | < 0.001 | 1102 | RCBTB2 |
| 0.215993941 | < 0.001 | 11137 | PWP1 |
| 0.215990961 | < 0.001 | 162466 | PHOSPHO1 |
| 0.215955302 | < 0.001 | 57523 | KIAA1305 |
| 0.215952337 | < 0.001 | 22924 | MAPRE3 |
| 0.215928003 | < 0.001 | 9826 | ARHGEF11 |
| 0.215920478 | < 0.001 | 84962 | JUB |
| 0.215851203 | < 0.001 | 466 | ATF1 |
| 0.215801433 | < 0.001 | 140890 | SFRS12 |
| 0.215800032 | < 0.001 | 375196 | LOC375196 |
| 0.215799198 | < 0.001 | 23142 | DCUN1D4 |
| 0.215779692 | < 0.001 | 81492 | AC011530.1 |
| 0.215672061 | < 0.001 | 388021 | TMEM179 |
| 0.215615794 | < 0.001 | 9242 | MSC |
| 0.215543717 | < 0.001 | 84248 | FYTTD1 |
| 0.215467021 | < 0.001 | 57657 | HCN3 |
| 0.215453267 | < 0.001 | 83592 | AKR1CL2 |
| 0.215443522 | < 0.001 | 2257 | FGF12 |
| 0.215433583 | < 0.001 | 126868 | C1orf161 |
| 0.215387523 | < 0.001 | 4713 | NDUFB7 |
| 0.215343416 | < 0.001 | 55909 | BIN3 |
| 0.215333387 | < 0.001 | 64506 | CPEB1 |
| 0.215263262 | < 0.001 | 169166 | SNX31 |
| 0.215261042 | < 0.001 | 200931 | Osta |
| 0.215226486 | < 0.001 | 11130 | ZWINT |
| 0.215206623 | < 0.001 | 924 | CD7 |
| 0.215181261 | < 0.001 | 399844 | FLJ45445 |
| 0.215172917 | < 0.001 | 8841 | HDAC3 |
| 0.215168074 | < 0.001 | 83873 | GPR61 |
| 0.215129361 | < 0.001 | 23400 | ATP13A2 |
| 0.21505478 | < 0.001 | 79707 | NOL9 |
| 0.214952171 | < 0.001 | 6613 | SUMO2 |
| 0.214916408 | < 0.001 | 337879 | KRTAP8-1 |
| 0.21486868 | < 0.001 | 4771 | NF2 |
| 0.214813143 | < 0.001 | 6541 | SLC7A1 |
| 0.214807302 | < 0.001 | 118881 | COMTD1 |
| 0.214770421 | < 0.001 | 2885 | GRB2 |
| 0.214732453 | < 0.001 | 4259 | MGST3 |
| 0.214727983 | < 0.001 | 7803 | PTP4A1 |
| 0.214710712 | < 0.001 | 129852 | C2orf73 |
| 0.214710072 | < 0.001 | 970 | CD70 |
| 0.21468769 | < 0.001 | 158866 | ZDHHC15 |
| 0.214657784 | < 0.001 | 5459 | POU4F3 |
| 0.214632794 | < 0.001 | 5002 | SLC22A18 |
| 0.214631498 | < 0.001 | 283897 | C16orf54 |
| 0.214574948 | < 0.001 | 64220 | STRA6 |
| 0.214519322 | < 0.001 | 204801 | NLRP11 |
| 0.214514762 | < 0.001 | 864 | RUNX3 |
| 0.214476973 | < 0.001 | 388536 | ZNF790 |
| 0.214442983 | < 0.001 | 6455 | SH3GL1 |
| 0.214412525 | < 0.001 | 15 | AANAT |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.272844285 | 0.10742943 | 0.131 | 1 | 4490 | MT1B |
| 0.272844285 | 0.10742943 | 0.138 | 1 | 283455 | KSR2 |
| 0.272586882 | 0.107771397 | 0.157 | 1 | 2280 | FKBP1A |
| 0.272586882 | 0.107771397 | 0.129 | 1 | 9125 | RQCD1 |
| 0.27232945 | 0.108114235 | 0.147 | 1 | 5360 | PLTP |
| 0.27232945 | 0.108114235 | 0.128 | 1 | 7332 | UBE2L3 |
| 0.27232945 | 0.108114235 | 0.121 | 1 | 54207 | KCNK10 |
| 0.27232945 | 0.108114235 | 0.129 | 1 | 54888 | NSUN2 |
| 0.27232945 | 0.108114235 | 0.132 | 1 | 57095 | C1orf128 |
| 0.27232945 | 0.108114235 | 0.132 | 1 | 254359 | ZDHHC24 |
| 0.27232945 | 0.108114235 | 0.145 | 1 | 400673 | VMAC |
| 0.27232945 | 0.108114235 | 0.13 | 1 | 552891 | DNAJC25-GNG10 |
| 0.272072077 | 0.108458057 | 0.141 | 1 | 9242 | MSC |
| 0.272072077 | 0.108458057 | 0.129 | 1 | 23025 | UNC13A |
| 0.271814644 | 0.108802564 | 0.142 | 1 | 4184 | SMCP |
| 0.271814644 | 0.108802564 | 0.15 | 1 | 8808 | IL1RL2 |
| 0.271814644 | 0.108802564 | 0.141 | 1 | 11169 | WDHD1 |
| 0.271814644 | 0.108802564 | 0.123 | 1 | 25929 | GEMIN5 |
| 0.271814644 | 0.108802564 | 0.115 | 1 | 58538 | MPP4 |
| 0.271814644 | 0.108802564 | 0.131 | 1 | 100130967 | C6orf99 |
| 0.271557271 | 0.109147906 | 0.153 | 1 | 5524 | PPP2R4 |
| 0.271557271 | 0.109147906 | 0.14 | 1 | 7704 | ZBTB16 |
| 0.271557271 | 0.109147906 | 0.137 | 1 | 27315 | PGAP2 |
| 0.271557271 | 0.109147906 | 0.142 | 1 | 29982 | NRBF2 |
| 0.271557271 | 0.109147906 | 0.131 | 1 | 56138 | PCDHA11 |
| 0.271557271 | 0.109147906 | 0.155 | 1 | 256329 | C11orf35 |
| 0.271299869 | 0.109494053 | 0.15 | 1 | 388753 | C1orf31 |
| 0.271042466 | 0.10984122 | 0.146 | 1 | 7514 | XPO1 |
| 0.271042466 | 0.10984122 | 0.14 | 1 | 9077 | DIRAS3 |
| 0.271042466 | 0.10984122 | 0.14 | 1 | 143630 | UBQLNL |
| 0.270785064 | 0.11018908 | 0.129 | 1 | 9993 | DGCR2 |
| 0.270785064 | 0.11018908 | 0.147 | 1 | 23080 | AVL9 |
| 0.270785064 | 0.11018908 | 0.129 | 1 | 84272 | YIPF4 |
| 0.270785064 | 0.11018908 | 0.12 | 1 | 345557 | PLCXD3 |
| 0.270527661 | 0.110537775 | 0.143 | 1 | 1186 | CLCN7 |
| 0.270527661 | 0.110537775 | 0.142 | 1 | 6817 | SULT1A1 |
| 0.270527661 | 0.110537775 | 0.16 | 1 | 6923 | TCEB2 |
| 0.270527661 | 0.110537775 | 0.139 | 1 | 59353 | TMEM35 |
| 0.270527661 | 0.110537775 | 0.133 | 1 | 81854 | MGC3771 |
| 0.270527661 | 0.110537775 | 0.152 | 1 | 137868 | SGCZ |
| 0.270270258 | 0.110887319 | 0.121 | 1 | 9467 | SH3BP5 |
| 0.270270258 | 0.110887319 | 0.155 | 1 | 124872 | B4GALNT2 |
| 0.270012885 | 0.111237653 | 0.146 | 1 | 4709 | NDUFB3 |
| 0.269755453 | 0.111589029 | 0.133 | 1 | 318 | NUDT2 |
| 0.269755453 | 0.111589029 | 0.152 | 1 | 2257 | FGF12 |
| 0.269755453 | 0.111589029 | 0.145 | 1 | 5210 | PFKFB4 |
| 0.269755453 | 0.111589029 | 0.126 | 1 | 8851 | CDK5R1 |
| 0.269755453 | 0.111589029 | 0.135 | 1 | 10472 | ZNF238 |
| 0.269755453 | 0.111589029 | 0.15 | 1 | 23160 | WDR43 |
| 0.26949808 | 0.111941099 | 0.151 | 1 | 726 | CAPN5 |
| 0.26949808 | 0.111941099 | 0.146 | 1 | 4705 | NDUFA10 |
| 0.26949808 | 0.111941099 | 0.149 | 1 | 54977 | SLC25A38 |
| 0.26949808 | 0.111941099 | 0.147 | 1 | 286256 | LCN12 |
| 0.269240648 | 0.112294003 | 0.159 | 1 | 526 | ATP6V1B2 |
| 0.269240648 | 0.112294003 | 0.133 | 1 | 5296 | PIK3R2 |
| 0.269240648 | 0.112294003 | 0.151 | 1 | 92906 | HNRPLL |
| 0.268983275 | 0.112647764 | 0.112 | 1 | 8867 | SYNJ1 |
| 0.268983275 | 0.112647764 | 0.138 | 1 | 10236 | HNRNPR |
| 0.268983275 | 0.112647764 | 0.136 | 1 | 91133 | L3MBTL4 |
| 0.268983275 | 0.112647764 | 0.166 | 1 | 128553 | TSHZ2 |
| 0.268983275 | 0.112647764 | 0.132 | 1 | 376267 | RAB15 |
| 0.268725872 | 0.113002494 | 0.146 | 1 | 144402 | CPNE8 |
| 0.268725872 | 0.113002494 | 0.129 | 1 | 196446 | C12orf28 |
| 0.268725872 | 0.113002494 | 0.165 | 1 | 389812 | LCN15 |
| 0.268725872 | 0.113002494 | 0.131 | 1 | 440792 | LOC440792 |
| 0.268725872 | 0.113002494 | 0.131 | 1 | 474148 | TTTY3B |
| 0.268468469 | 0.113357946 | 0.128 | 1 | 3914 | LAMB3 |
| 0.268468469 | 0.113357946 | 0.117 | 1 | 57470 | LRRC47 |
| 0.268468469 | 0.113357946 | 0.143 | 1 | 112936 | VPS26B |
| 0.268468469 | 0.113357946 | 0.152 | 1 | 146771 | TCAM1 |
| 0.268211067 | 0.113714248 | 0.15 | 1 | 222008 | VSTM2A |
| 0.267953664 | 0.114071406 | 0.145 | 1 | 5209 | PFKFB3 |
| 0.267953664 | 0.114071406 | 0.152 | 1 | 54937 | SOHLH2 |
| 0.267953664 | 0.114071406 | 0.16 | 1 | 219938 | SPATA19 |
| 0.267953664 | 0.114071406 | 0.151 | 1 | 340533 | KIAA2022 |
| 0.267696261 | 0.114429578 | 0.157 | 1 | 3778 | KCNMA1 |
| 0.267696261 | 0.114429578 | 0.144 | 1 | 84861 | KLHL22 |
| 0.267696261 | 0.114429578 | 0.135 | 1 | 118812 | MORN4 |
| 0.267438889 | 0.114788406 | 0.161 | 1 | 2583 | B4GALNT1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.214365527 | < 0.001 | 714 | C1QC |
| 0.214329779 | < 0.001 | 8778 | SIGLEC5 |
| 0.214323089 | < 0.001 | 6865 | TACR2 |
| 0.214298025 | < 0.001 | 11019 | LIAS |
| 0.214296818 | < 0.001 | 6633 | SNRPD2 |
| 0.21429421 | < 0.001 | 8662 | EIF3B |
| 0.214285016 | < 0.001 | 57139 | RGL3 |
| 0.214188442 | < 0.001 | 138802 | OR13C8 |
| 0.214144513 | < 0.001 | 85458 | DIXDC1 |
| 0.214101985 | < 0.001 | 10567 | RABAC1 |
| 0.214078665 | < 0.001 | 7320 | UBE2B |
| 0.21407263 | < 0.001 | 55186 | SLC25A36 |
| 0.21398747 | < 0.001 | 10522 | DEAF1 |
| 0.213949218 | < 0.001 | 1496 | CTNNA2 |
| 0.213899434 | < 0.001 | 124637 | CYB5D1 |
| 0.213889599 | < 0.001 | 1995 | ELAVL3 |
| 0.213855043 | < 0.001 | 9636 | ISG15 |
| 0.213834807 | < 0.001 | 147463 | ANKRD29 |
| 0.213744074 | < 0.001 | 64430 | C14orf135 |
| 0.21372503 | < 0.001 | 85352 | KIAA1644 |
| 0.213701442 | < 0.001 | 55625 | ZDHHC7 |
| 0.213583782 | < 0.001 | 728012 | RP11-14I4.3 |
| 0.213519529 | < 0.001 | 54927 | CHCHD3 |
| 0.213423222 | < 0.001 | 100129434 | AC007743.1 |
| 0.213411063 | < 0.001 | 22848 | AAK1 |
| 0.213403806 | < 0.001 | 387836 | CLEC2A |
| 0.213367403 | < 0.001 | 25820 | ARIH1 |
| 0.213363975 | < 0.001 | 79188 | TMEM43 |
| 0.213363051 | < 0.001 | 91289 | LMF2 |
| 0.213329419 | < 0.001 | 10801 | SEPTIN9 |
| 0.213326827 | < 0.001 | 51225 | ABI3 |
| 0.213312805 | < 0.001 | 5467 | PPARD |
| 0.213302121 | < 0.001 | 84443 | FRMPD3 |
| 0.213293672 | < 0.001 | 222826 | C6orf146 |
| 0.213178426 | < 0.001 | 400935 | IL17REL |
| 0.213177398 | < 0.001 | 26031 | OSBPL3 |
| 0.213117048 | < 0.001 | 5591 | PRKDC |
| 0.213100329 | < 0.001 | 100129792 | CCDC152 |
| 0.213095874 | < 0.001 | 55630 | AF205589.2 |
| 0.212965399 | < 0.001 | 138255 | C9orf135 |
| 0.212946907 | < 0.001 | 79094 | CHAC1 |
| 0.212813184 | < 0.001 | 390003 | GUCY2GP |
| 0.21280019 | < 0.001 | 285782 | CAGE1 |
| 0.21278505 | < 0.001 | 8496 | PPFIBP1 |
| 0.212765828 | < 0.001 | 116843 | C6orf192 |
| 0.212753758 | < 0.001 | 51185 | CRBN |
| 0.212746128 | < 0.001 | 23271 | CAMSAP1L1 |
| 0.212676957 | < 0.001 | 57415 | C3orf14 |
| 0.212346718 | < 0.001 | 4953 | ODC1 |
| 0.212331399 | < 0.001 | 221143 | N6AMT2 |
| 0.212330937 | < 0.001 | 9146 | HGS |
| 0.212176874 | < 0.001 | 345757 | FAM174A |
| 0.212170273 | < 0.001 | 127829 | ARL8A |
| 0.212039515 | < 0.001 | 122553 | TRAPPC6B |
| 0.21201992 | < 0.001 | 10999 | SLC27A4 |
| 0.211984724 | < 0.001 | 389434 | IYD |
| 0.211871803 | < 0.001 | 25803 | SPDEF |
| 0.21185945 | < 0.001 | 10863 | ADAM28 |
| 0.211708635 | < 0.001 | 25943 | C20orf194 |
| 0.211674735 | < 0.001 | 90632 | LINC00473 |
| 0.211612523 | < 0.001 | 2998 | GYS2 |
| 0.211592093 | < 0.001 | 92906 | HNRPLL |
| 0.211578622 | < 0.001 | 80161 | ASMTL-AS1 |
| 0.211532012 | < 0.001 | 159090 | FAM122B |
| 0.211456507 | < 0.001 | 219 | ALDH1B1 |
| 0.211430132 | < 0.001 | 4978 | AP000843.1 |
| 0.211320728 | < 0.001 | 157376 | FER1L6-AS2 |
| 0.211313218 | < 0.001 | 388552 | BLOC1S3 |
| 0.211256281 | < 0.001 | 9562 | MINPP1 |
| 0.21124728 | < 0.001 | 2636 | GBX1 |
| 0.211193323 | < 0.001 | 11007 | CCDC85B |
| 0.211190537 | < 0.001 | 83723 | FAM57B |
| 0.211086527 | < 0.001 | 623 | BDKRB1 |
| 0.211052164 | < 0.001 | 8318 | CDC45L |
| 0.211039171 | < 0.001 | 823 | CAPN1 |
| 0.210981965 | < 0.001 | 10096 | ACTR3 |
| 0.210884169 | < 0.001 | 63933 | CCDC90A |
| 0.210831419 | < 0.001 | 134121 | C5orf49 |
| 0.210794747 | < 0.001 | 1642 | DDB1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.267438889 | 0.114788406 | 0.158 | 1 | 3297 | HSF1 |
| 0.267438889 | 0.114788406 | 0.145 | 1 | 646936 | LOC646936 |
| 0.267438889 | 0.114788406 | 0.144 | 1 | 100290481 | CYAT1 |
| 0.267181456 | 0.115148112 | 0.152 | 1 | 5803 | PTPRZ1 |
| 0.267181456 | 0.115148112 | 0.157 | 1 | 83871 | RAB34 |
| 0.266924083 | 0.115508683 | 0.144 | 1 | 79699 | ZYG11B |
| 0.266666651 | 0.115870111 | 0.144 | 1 | 2173 | FABP7 |
| 0.266666651 | 0.115870111 | 0.146 | 1 | 4085 | MAD2L1 |
| 0.266666651 | 0.115870111 | 0.146 | 1 | 5007 | OSBP |
| 0.266666651 | 0.115870111 | 0.123 | 1 | 23386 | NUDCD3 |
| 0.266666651 | 0.115870111 | 0.148 | 1 | 29760 | BLNK |
| 0.266666651 | 0.115870111 | 0.133 | 1 | 64175 | LEPRE1 |
| 0.266409278 | 0.116232559 | 0.147 | 1 | 5657 | PRTN3 |
| 0.266409278 | 0.116232559 | 0.138 | 1 | 6628 | SNRPB |
| 0.266409278 | 0.116232559 | 0.163 | 1 | 23627 | PRND |
| 0.266409278 | 0.116232559 | 0.135 | 1 | 94097 | SFXN5 |
| 0.266409278 | 0.116232559 | 0.164 | 1 | 116983 | ACAP3 |
| 0.266409278 | 0.116232559 | 0.13 | 1 | 124773 | C17orf64 |
| 0.266151875 | 0.116595671 | 0.158 | 1 | 1102 | RCBTB2 |
| 0.266151875 | 0.116595671 | 0.15 | 1 | 2660 | MSTN |
| 0.266151875 | 0.116595671 | 0.156 | 1 | 8538 | BARX2 |
| 0.266151875 | 0.116595671 | 0.138 | 1 | 59335 | PRDM12 |
| 0.265894473 | 0.116959676 | 0.152 | 1 | 3200 | HOXA3 |
| 0.265894473 | 0.116959676 | 0.132 | 1 | 85465 | AC010896.1 |
| 0.265894473 | 0.116959676 | 0.164 | 1 | 245812 | CNPY4 |
| 0.26563707 | 0.117324546 | 0.126 | 1 | 5686 | PSMA5 |
| 0.26563707 | 0.117324546 | 0.128 | 1 | 10079 | ATP9A |
| 0.265379637 | 0.117690429 | 0.163 | 1 | 2258 | FGF13 |
| 0.265379637 | 0.117690429 | 0.162 | 1 | 6580 | SLC22A1 |
| 0.265379637 | 0.117690429 | 0.148 | 1 | 56999 | ADAMTS9 |
| 0.265122265 | 0.118057035 | 0.149 | 1 | 5223 | PGAM1 |
| 0.265122265 | 0.118057035 | 0.148 | 1 | 155054 | ZNF425 |
| 0.265122265 | 0.118057035 | 0.164 | 1 | 170626 | XAGE3 |
| 0.265122265 | 0.118057035 | 0.164 | 1 | 100129583 | FAM47E |
| 0.264864862 | 0.118424445 | 0.14 | 1 | 4130 | MAP1A |
| 0.264864862 | 0.118424445 | 0.154 | 1 | 10075 | HUWE1 |
| 0.264864862 | 0.118424445 | 0.138 | 1 | 51094 | ADIPOR1 |
| 0.264864862 | 0.118424445 | 0.159 | 1 | 375444 | C5orf34 |
| 0.264607459 | 0.118792765 | 0.155 | 1 | 817 | CAMK2D |
| 0.264607459 | 0.118792765 | 0.154 | 1 | 9931 | HELZ |
| 0.264607459 | 0.118792765 | 0.149 | 1 | 10626 | TRIM16 |
| 0.264607459 | 0.118792765 | 0.164 | 1 | 50614 | GALNT9 |
| 0.264350057 | 0.11916212 | 0.128 | 1 | 3681 | ITGAD |
| 0.264350057 | 0.11916212 | 0.168 | 1 | 55800 | SCN3B |
| 0.264092654 | 0.119532183 | 0.121 | 1 | 9973 | CCS |
| 0.264092654 | 0.119532183 | 0.14 | 1 | 114786 | XKR4 |
| 0.264092654 | 0.119532183 | 0.147 | 1 | 440072 | LINC00167 |
| 0.264092654 | 0.119532183 | 0.154 | 1 | 100131827 | ZNF717 |
| 0.263835251 | 0.119903065 | 0.149 | 1 | 3725 | JUN |
| 0.263835251 | 0.119903065 | 0.164 | 1 | 4943 | TBC1D25 |
| 0.263835251 | 0.119903065 | 0.137 | 1 | 10300 | KATNB1 |
| 0.263835251 | 0.119903065 | 0.166 | 1 | 53349 | ZFYVE1 |
| 0.263577878 | 0.120274864 | 0.169 | 1 | 2591 | GALNT3 |
| 0.263577878 | 0.120274864 | 0.161 | 1 | 23616 | SH3BP1 |
| 0.263320446 | 0.12064749 | 0.149 | 1 | 23587 | C17orf81 |
| 0.263320446 | 0.12064749 | 0.144 | 1 | 23654 | PLXNB2 |
| 0.263320446 | 0.12064749 | 0.18 | 1 | 26517 | TIMM13 |
| 0.263320446 | 0.12064749 | 0.148 | 1 | 162989 | DEDD2 |
| 0.263320446 | 0.12064749 | 0.174 | 1 | 256536 | TCERG1L |
| 0.263063073 | 0.121021233 | 0.155 | 1 | 10746 | MAP3K2 |
| 0.263063073 | 0.121021233 | 0.151 | 1 | 55178 | RNMTL1 |
| 0.263063073 | 0.121021233 | 0.129 | 1 | 652968 | GATSL3 |
| 0.262805641 | 0.121395603 | 0.159 | 1 | 83394 | PITPNM3 |
| 0.262805641 | 0.121395603 | 0.146 | 1 | 280636 | C11orf31 |
| 0.262805641 | 0.121395603 | 0.147 | 1 | 401565 | FAM166A |
| 0.262548268 | 0.121770896 | 0.151 | 1 | 9913 | SUPT7L |
| 0.262290865 | 0.122147053 | 0.158 | 1 | 7411 | VBP1 |
| 0.262290865 | 0.122147053 | 0.167 | 1 | 80059 | LRRTM4 |
| 0.262290865 | 0.122147053 | 0.169 | 1 | 729627 | AC130416.2 |
| 0.262033463 | 0.122524261 | 0.148 | 1 | 1832 | DSP |
| 0.262033463 | 0.122524261 | 0.193 | 1 | 4482 | MSRA |
| 0.262033463 | 0.122524261 | 0.165 | 1 | 146556 | C16orf89 |
| 0.262033463 | 0.122524261 | 0.162 | 1 | 404672 | GTF2H5 |
| 0.26177606 | 0.122902177 | 0.151 | 1 | 2023 | ENO1 |
| 0.26177606 | 0.122902177 | 0.147 | 1 | 9853 | RUSC2 |
| 0.26177606 | 0.122902177 | 0.158 | 1 | 343477 | HSP90B3P |
| 0.26177606 | 0.122902177 | 0.168 | 1 | 652276 | AC141586.5 |
| 0.261261255 | 0.123660602 | 0.166 | 1 | 4857 | NOVA1 |
| 0.261261255 | 0.123660602 | 0.156 | 1 | 26231 | LRRC29 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.2107784 | < 0.001 | 287 | ANK2 |
| 0.210715532 | < 0.001 | 9685 | CLINT1 |
| 0.210661113 | < 0.001 | 81614 | NIPA2 |
| 0.210654229 | < 0.001 | 91752 | ZNF804A |
| 0.210617185 | < 0.001 | 54914 | KIAA1797 |
| 0.210606962 | < 0.001 | 9024 | BRSK2 |
| 0.210594714 | < 0.001 | 5705 | PSMC5 |
| 0.210554212 | < 0.001 | 346525 | OR2A12 |
| 0.210481882 | < 0.001 | 6750 | SST |
| 0.210384652 | < 0.001 | 400410 | ST20 |
| 0.210368395 | < 0.001 | 25974 | MMACHC |
| 0.210341841 | < 0.001 | 8737 | RIPK1 |
| 0.21027182 | < 0.001 | 57190 | SEPN1 |
| 0.210267916 | < 0.001 | 3004 | GZMM |
| 0.210257053 | < 0.001 | 1443 | CSH2 |
| 0.210157499 | < 0.001 | 5935 | RBM3 |
| 0.210106879 | < 0.001 | 651746 | ANKRD33B |
| 0.210103348 | < 0.001 | 2331 | FMOD |
| 0.21005933 | < 0.001 | 5306 | PITPNA |
| 0.210030824 | < 0.001 | 7485 | WRB |
| 0.210027292 | < 0.001 | 136371 | ASB10 |
| 0.210004181 | < 0.001 | 81537 | SGPP1 |
| 0.209925607 | < 0.001 | 84616 | KRTAP4-4 |
| 0.209888652 | < 0.001 | 389383 | C6orf126 |
| 0.209854573 | < 0.001 | 81557 | MAGED4B |
| 0.209802285 | < 0.001 | 79786 | KLHL36 |
| 0.209782496 | < 0.001 | 5581 | PRKCE |
| 0.209782228 | < 0.001 | 8927 | BSN |
| 0.209745914 | < 0.001 | 6449 | SGTA |
| 0.209732726 | < 0.001 | 65061 | PFTK2 |
| 0.209720939 | < 0.001 | 152926 | PPM1K |
| 0.209644139 | < 0.001 | 161835 | FSIP1 |
| 0.209601045 | < 0.001 | 27133 | KCNH5 |
| 0.20950985 | < 0.001 | 55800 | SCN3B |
| 0.209504455 | < 0.001 | 89846 | FGD3 |
| 0.209452271 | < 0.001 | 3419 | IDH3A |
| 0.209434628 | < 0.001 | 284912 | LOC284912 |
| 0.209421247 | < 0.001 | 9138 | ARHGEF1 |
| 0.209384486 | < 0.001 | 116412 | ZNF837 |
| 0.209381878 | < 0.001 | 64600 | PLA2G2F |
| 0.209330156 | < 0.001 | 388165 | UBE2Q2P1 |
| 0.209330067 | < 0.001 | 84569 | LYZL1 |
| 0.209248245 | < 0.001 | 51340 | CRNKL1 |
| 0.209185928 | < 0.001 | 91464 | ISX |
| 0.209156215 | < 0.001 | 904 | CCNT1 |
| 0.209129289 | < 0.001 | 115509 | ZNF689 |
| 0.209129095 | < 0.001 | 8915 | BCL10 |
| 0.209122226 | < 0.001 | 28316 | CDH20 |
| 0.209047377 | < 0.001 | 3586 | IL10 |
| 0.209017292 | < 0.001 | 64595 | TTTY15 |
| 0.209014416 | < 0.001 | 221264 | AKD1 |
| 0.208989426 | < 0.001 | 63827 | BCAN |
| 0.20898442 | < 0.001 | 85021 | REPS1 |
| 0.208941132 | < 0.001 | 65267 | WNK3 |
| 0.208883554 | < 0.001 | 30062 | RAX |
| 0.208875105 | < 0.001 | 100101267 | POM121C |
| 0.208849758 | < 0.001 | 8924 | HERC2 |
| 0.208845302 | < 0.001 | 114800 | CCDC85A |
| 0.208781406 | < 0.001 | 646903 | LOC646903 |
| 0.208765343 | < 0.001 | 57592 | ZNF687 |
| 0.208717793 | < 0.001 | 2049 | EPHB3 |
| 0.208716959 | < 0.001 | 23613 | ZMYND8 |
| 0.208683521 | < 0.001 | 3059 | HCLS1 |
| 0.20864889 | < 0.001 | 27075 | TSPAN13 |
| 0.208641186 | < 0.001 | 7520 | XRCC5 |
| 0.208625302 | < 0.001 | 9046 | DOK2 |
| 0.208611369 | < 0.001 | 642946 | FLVCR1-AS1 |
| 0.208433807 | < 0.001 | 124402 | FAM100A |
| 0.208421826 | < 0.001 | 9110 | MTMR4 |
| 0.208310112 | < 0.001 | 441481 | GPX1P1 |
| 0.208299428 | < 0.001 | 643853 | TMPPE |
| 0.208274171 | < 0.001 | 327 | APEH |
| 0.20826897 | < 0.001 | 54769 | DIRAS2 |
| 0.208266377 | < 0.001 | 390077 | OR52N2 |
| 0.208201826 | < 0.001 | 150147 | C21orf128 |
| 0.208169609 | < 0.001 | 83446 | CCDC70 |
| 0.20814082 | < 0.001 | 64180 | DPEP3 |
| 0.208137751 | < 0.001 | 10629 | TAF6L |
| 0.208122984 | < 0.001 | 285596 | FAM153A |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.261261255 | 0.123660602 | 0.168 | 1 | 341568 | OR8S1 |
| 0.261261255 | 0.123660602 | 0.145 | 1 | 100128588 | LOC100128588 |
| 0.261003882 | 0.124041326 | 0.154 | 1 | 128 | ADH5 |
| 0.261003882 | 0.124041326 | 0.173 | 1 | 1960 | EGR3 |
| 0.261003882 | 0.124041326 | 0.161 | 1 | 9244 | CRLF1 |
| 0.261003882 | 0.124041326 | 0.152 | 1 | 285848 | PNPLA1 |
| 0.260746449 | 0.124422774 | 0.159 | 1 | 211 | ALAS1 |
| 0.260746449 | 0.124422774 | 0.159 | 1 | 6832 | SUPV3L1 |
| 0.260746449 | 0.124422774 | 0.159 | 1 | 7088 | TLE1 |
| 0.260746449 | 0.124422774 | 0.152 | 1 | 8241 | RBM10 |
| 0.260746449 | 0.124422774 | 0.165 | 1 | 54991 | C1orf159 |
| 0.260746449 | 0.124422774 | 0.168 | 1 | 127602 | DNAH14 |
| 0.260746449 | 0.124422774 | 0.164 | 1 | 285987 | DLX6-AS1 |
| 0.260746449 | 0.124422774 | 0.176 | 1 | 353332 | KRTAP12-1 |
| 0.260489076 | 0.124805048 | 0.126 | 1 | 834 | CASP1 |
| 0.260489076 | 0.124805048 | 0.172 | 1 | 8991 | SELENBP1 |
| 0.260489076 | 0.124805048 | 0.162 | 1 | 253980 | KCTD13 |
| 0.260231644 | 0.125188261 | 0.145 | 1 | 226 | ALDOA |
| 0.260231644 | 0.125188261 | 0.171 | 1 | 1282 | COL4A1 |
| 0.260231644 | 0.125188261 | 0.13 | 1 | 55902 | ACSS2 |
| 0.260231644 | 0.125188261 | 0.154 | 1 | 388272 | C16orf87 |
| 0.259974271 | 0.125572339 | 0.153 | 1 | 160428 | ALDH1L2 |
| 0.259974271 | 0.125572339 | 0.171 | 1 | 389857 | CENPVL1 |
| 0.259716868 | 0.125957489 | 0.176 | 1 | 23768 | FLRT2 |
| 0.259459466 | 0.12634331 | 0.174 | 1 | 7511 | XPNPEP1 |
| 0.259459466 | 0.12634331 | 0.154 | 1 | 55345 | C4orf21 |
| 0.259459466 | 0.12634331 | 0.17 | 1 | 55785 | FGD6 |
| 0.259459466 | 0.12634331 | 0.157 | 1 | 220972 | MARCHF8 |
| 0.259459466 | 0.12634331 | 0.159 | 1 | 387758 | FIBIN |
| 0.259202063 | 0.12673007 | 0.152 | 1 | 5709 | PSMD3 |
| 0.25894466 | 0.127117708 | 0.162 | 1 | 25890 | ABI3BP |
| 0.25894466 | 0.127117708 | 0.162 | 1 | 51761 | ATP8A2 |
| 0.25894466 | 0.127117708 | 0.164 | 1 | 55198 | APPL2 |
| 0.258687258 | 0.12750642 | 0.135 | 1 | 84179 | MFSD7 |
| 0.258172452 | 0.128286108 | 0.155 | 1 | 100289274 | DNAJC3-AS1 |
| 0.25791505 | 0.128677323 | 0.163 | 1 | 685 | BTC |
| 0.257657647 | 0.129069611 | 0.155 | 1 | 10966 | RAB40B |
| 0.257657647 | 0.129069611 | 0.162 | 1 | 56203 | LMOD3 |
| 0.257657647 | 0.129069611 | 0.151 | 1 | 154467 | C6orf129 |
| 0.257400244 | 0.129462615 | 0.151 | 1 | 57210 | SLC45A4 |
| 0.256885439 | 0.130251259 | 0.157 | 1 | 1974 | EIF4A2 |
| 0.256885439 | 0.130251259 | 0.178 | 1 | 2295 | FOXF2 |
| 0.256885439 | 0.130251259 | 0.172 | 1 | 10591 | C6orf108 |
| 0.256885439 | 0.130251259 | 0.162 | 1 | 83733 | SLC25A18 |
| 0.256885439 | 0.130251259 | 0.175 | 1 | 84722 | PSRC1 |
| 0.256628066 | 0.130646944 | 0.153 | 1 | 5655 | KLK10 |
| 0.256628066 | 0.130646944 | 0.153 | 1 | 54492 | NEURL1B |
| 0.256628066 | 0.130646944 | 0.163 | 1 | 57876 | MUC3B |
| 0.256628066 | 0.130646944 | 0.166 | 1 | 58504 | ARHGAP22 |
| 0.256628066 | 0.130646944 | 0.182 | 1 | 83943 | IMMP2L |
| 0.256628066 | 0.130646944 | 0.165 | 1 | 286234 | C9orf79 |
| 0.256628066 | 0.130646944 | 0.181 | 1 | 439953 | LOC439953 |
| 0.256370664 | 0.131043717 | 0.159 | 1 | 4946 | OAZ1 |
| 0.256370664 | 0.131043717 | 0.182 | 1 | 5100 | PCDH8 |
| 0.256370664 | 0.131043717 | 0.162 | 1 | 440699 | LRRC52 |
| 0.256113261 | 0.131441176 | 0.159 | 1 | 330 | BIRC3 |
| 0.256113261 | 0.131441176 | 0.157 | 1 | 1415 | CRYBB2 |
| 0.256113261 | 0.131441176 | 0.164 | 1 | 114112 | TXNRD3 |
| 0.256113261 | 0.131441176 | 0.176 | 1 | 347733 | TUBB2B |
| 0.255855858 | 0.131839573 | 0.194 | 1 | 1641 | DCX |
| 0.255855858 | 0.131839573 | 0.153 | 1 | 9652 | TTC37 |
| 0.255598456 | 0.132238865 | 0.175 | 1 | 57547 | ZNF624 |
| 0.255598456 | 0.132238865 | 0.152 | 1 | 388015 | RTL1 |
| 0.255341053 | 0.132639259 | 0.157 | 1 | 10775 | POP4 |
| 0.255341053 | 0.132639259 | 0.139 | 1 | 27293 | SMPDL3B |
| 0.255341053 | 0.132639259 | 0.176 | 1 | 84243 | ZDHHC18 |
| 0.255341053 | 0.132639259 | 0.16 | 1 | 144423 | GLT1D1 |
| 0.25508365 | 0.133040369 | 0.171 | 1 | 1010 | CDH12 |
| 0.25508365 | 0.133040369 | 0.176 | 1 | 7621 | ZNF70 |
| 0.25508365 | 0.133040369 | 0.175 | 1 | 22941 | SHANK2 |
| 0.25508365 | 0.133040369 | 0.176 | 1 | 55218 | EXD2 |
| 0.254826248 | 0.133442342 | 0.178 | 1 | 9751 | SNPH |
| 0.254568845 | 0.13384527 | 0.172 | 1 | 22999 | RIMS1 |
| 0.254311442 | 0.13424927 | 0.183 | 1 | 57528 | KCTD16 |
| 0.254311442 | 0.13424927 | 0.166 | 1 | 493861 | EID3 |
| 0.25405404 | 0.134654015 | 0.173 | 1 | 1337 | COX6A1 |
| 0.25405404 | 0.134654015 | 0.16 | 1 | 4185 | ADAM11 |
| 0.25405404 | 0.134654015 | 0.182 | 1 | 51411 | BIN2 |
| 0.25405404 | 0.134654015 | 0.173 | 1 | 153657 | TTC23L |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.208064571 | < 0.001 | 726 | CAPN5 |
| 0.208042011 | < 0.001 | 55257 | C20orf20 |
| 0.208037928 | < 0.001 | 100132062 | LOC100132062 |
| 0.20798777 | < 0.001 | 3237 | HOXD11 |
| 0.20796214 | < 0.001 | 285905 | INTS4L1 |
| 0.207910419 | < 0.001 | 11170 | FAM107A |
| 0.207905129 | < 0.001 | 8362 | HIST1H4K |
| 0.207848102 | < 0.001 | 126259 | TMIGD2 |
| 0.207779944 | < 0.001 | 2194 | FASN |
| 0.207730904 | < 0.001 | 9145 | SYNGR1 |
| 0.207689583 | < 0.001 | 414318 | C9orf106 |
| 0.207676217 | < 0.001 | 286097 | EFHA2 |
| 0.207653552 | < 0.001 | 117156 | SCGB3A2 |
| 0.207642123 | < 0.001 | 140710 | C20orf117 |
| 0.207628012 | < 0.001 | 127391 | TMCO2 |
| 0.207578793 | < 0.001 | 58484 | NLRC4 |
| 0.207527712 | < 0.001 | 2731 | GLDC |
| 0.207488716 | < 0.001 | 3775 | KCNK1 |
| 0.20740588 | < 0.001 | 116442 | RAB39B |
| 0.20738247 | < 0.001 | 56994 | CHPT1 |
| 0.207365945 | < 0.001 | 242 | ALOX12B |
| 0.207326204 | < 0.001 | 2171 | FABP5 |
| 0.207316443 | < 0.001 | 259307 | IL4I1 |
| 0.207094222 | < 0.001 | 51550 | AL137229.4 |
| 0.206985012 | < 0.001 | 23759 | PPIL2 |
| 0.206967175 | < 0.001 | 11311 | VPS45 |
| 0.206960857 | < 0.001 | 79042 | TSEN34 |
| 0.206846356 | < 0.001 | 131450 | CD200R1 |
| 0.206767514 | < 0.001 | 5205 | ATP8B1 |
| 0.206586063 | < 0.001 | 51744 | CD244 |
| 0.206443131 | < 0.001 | 57613 | KIAA1467 |
| 0.206435427 | < 0.001 | 84970 | C1orf94 |
| 0.206321761 | < 0.001 | 79890 | RIN3 |
| 0.206314147 | < 0.001 | 533 | ATP6V0B |
| 0.206308946 | < 0.001 | 219537 | SMTNL1 |
| 0.206253037 | < 0.001 | 2821 | GPI |
| 0.206232056 | < 0.001 | 90485 | ZNF835 |
| 0.206224903 | < 0.001 | 79444 | BIRC7 |
| 0.2062172 | < 0.001 | 64837 | KLC2 |
| 0.206206694 | < 0.001 | 6677 | SPAM1 |
| 0.206182092 | < 0.001 | 100130733 | LRRC70 |
| 0.206133246 | < 0.001 | 1122 | CHML |
| 0.206107616 | < 0.001 | 22797 | TFEC |
| 0.206098139 | < 0.001 | 441554 | DUSPP |
| 0.206078544 | < 0.001 | 223082 | ZNRF2 |
| 0.206064701 | < 0.001 | 387778 | SPDYC |
| 0.206044376 | < 0.001 | 390594 | AC013553.2 |
| 0.206037864 | < 0.001 | 6502 | SKP2 |
| 0.206020966 | < 0.001 | 7003 | TEAD1 |
| 0.206010282 | < 0.001 | 7763 | ZFAND5 |
| 0.205982059 | < 0.001 | 4888 | NPY6R |
| 0.20596227 | < 0.001 | 9782 | MATR3 |
| 0.205933213 | < 0.001 | 84321 | THOC3 |
| 0.205903396 | < 0.001 | 55154 | MSTO1 |
| 0.205883801 | < 0.001 | 58495 | OVOL2 |
| 0.205867827 | < 0.001 | 7419 | VDAC3 |
| 0.205781564 | < 0.001 | 219957 | OR9Q2 |
| 0.20577459 | < 0.001 | 25902 | MTHFD1L |
| 0.205758899 | < 0.001 | 10368 | CACNG3 |
| 0.205746919 | < 0.001 | 399670 | RPL13AP17 |
| 0.205737635 | < 0.001 | 54760 | PCSK4 |
| 0.205666035 | < 0.001 | 22931 | RAB18 |
| 0.205610588 | < 0.001 | 57198 | ATP8B2 |
| 0.205572888 | < 0.001 | 54413 | NLGN3 |
| 0.205562666 | < 0.001 | 55236 | UBA6 |
| 0.205533698 | < 0.001 | 11173 | ADAMTS7 |
| 0.205441013 | < 0.001 | 1734 | DIO2 |
| 0.205426902 | < 0.001 | 4924 | NUCB1 |
| 0.20534119 | < 0.001 | 339977 | LRRC66 |
| 0.205323637 | < 0.001 | 79574 | EPS8L3 |
| 0.205308691 | < 0.001 | 388564 | TMEM238 |
| 0.205261976 | < 0.001 | 84324 | SARNP |
| 0.205228359 | < 0.001 | 10347 | ABCA7 |
| 0.205227703 | < 0.001 | 92597 | MOBKL1A |
| 0.205194652 | < 0.001 | 26049 | FAM169A |
| 0.205184057 | < 0.001 | 6019 | RLN2 |
| 0.205156296 | < 0.001 | 3046 | HBE1 |
| 0.205137908 | < 0.001 | 158160 | HSD17B7P2 |
| 0.205124989 | < 0.001 | 9734 | HDAC9 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.253796637 | 0.13505967 | 0.153 | 1 | 5885 | RAD21 |
| 0.253796637 | 0.13505967 | 0.175 | 1 | 10371 | SEMA3A |
| 0.253796637 | 0.13505967 | 0.146 | 1 | 201164 | PLD6 |
| 0.253539234 | 0.135466188 | 0.165 | 1 | 2935 | GSPT1 |
| 0.253539234 | 0.135466188 | 0.157 | 1 | 27152 | INTU |
| 0.253281832 | 0.13587366 | 0.176 | 1 | 23220 | DTX4 |
| 0.253281832 | 0.13587366 | 0.162 | 1 | 26054 | SENP6 |
| 0.253281832 | 0.13587366 | 0.149 | 1 | 728361 | OVOL3 |
| 0.252767056 | 0.13669154 | 0.182 | 1 | 576 | BAI2 |
| 0.252767056 | 0.13669154 | 0.157 | 1 | 283149 | BCL9L |
| 0.252509654 | 0.137101769 | 0.186 | 1 | 6326 | SCN2A |
| 0.252509654 | 0.137101769 | 0.171 | 1 | 8534 | CHST1 |
| 0.252252251 | 0.137512848 | 0.167 | 1 | 127 | ADH4 |
| 0.252252251 | 0.137512848 | 0.194 | 1 | 5013 | OTX1 |
| 0.252252251 | 0.137512848 | 0.176 | 1 | 132864 | CPEB2 |
| 0.252252251 | 0.137512848 | 0.18 | 1 | 144195 | SLC2A14 |
| 0.252252251 | 0.137512848 | 0.177 | 1 | 401913 | LOC401913 |
| 0.251994848 | 0.137925088 | 0.185 | 1 | 440503 | AC011498.2 |
| 0.251737446 | 0.138338059 | 0.174 | 1 | 51655 | RASD1 |
| 0.251737446 | 0.138338059 | 0.168 | 1 | 159686 | CCDC147 |
| 0.251480043 | 0.138751969 | 0.192 | 1 | 5716 | PSMD10 |
| 0.251480043 | 0.138751969 | 0.2 | 1 | 25886 | WDR51A |
| 0.251480043 | 0.138751969 | 0.176 | 1 | 78994 | PRR14 |
| 0.251480043 | 0.138751969 | 0.175 | 1 | 83879 | CDCA7 |
| 0.25122264 | 0.139166772 | 0.178 | 1 | 84660 | CCDC62 |
| 0.25122264 | 0.139166772 | 0.181 | 1 | 134548 | ANKRD43 |
| 0.25122264 | 0.139166772 | 0.182 | 1 | 157680 | VPS13B |
| 0.250965238 | 0.139582649 | 0.185 | 1 | 1427 | CRYGS |
| 0.250965238 | 0.139582649 | 0.188 | 1 | 23530 | NNT |
| 0.250965238 | 0.139582649 | 0.177 | 1 | 26071 | FAM127B |
| 0.250965238 | 0.139582649 | 0.162 | 1 | 79815 | NIPAL2 |
| 0.250965238 | 0.139582649 | 0.172 | 1 | 79849 | PDZD3 |
| 0.250707835 | 0.1399993 | 0.204 | 1 | 784 | CACNB3 |
| 0.250707835 | 0.1399993 | 0.177 | 1 | 51087 | YBX2 |
| 0.250707835 | 0.1399993 | 0.165 | 1 | 78986 | DUSP26 |
| 0.250450462 | 0.140416875 | 0.188 | 1 | 3476 | IGBP1 |
| 0.250450462 | 0.140416875 | 0.171 | 1 | 8831 | SYNGAP1 |
| 0.250450462 | 0.140416875 | 0.172 | 1 | 552900 | BOLA2 |
| 0.250193059 | 0.140835389 | 0.171 | 1 | 5720 | PSME1 |
| 0.250193059 | 0.140835389 | 0.177 | 1 | 11249 | NXPH2 |
| 0.250193059 | 0.140835389 | 0.167 | 1 | 54857 | GDPD2 |
| 0.249935657 | 0.141254812 | 0.172 | 1 | 2079 | ERH |
| 0.249935657 | 0.141254812 | 0.19 | 1 | 4191 | MDH2 |
| 0.249935657 | 0.141254812 | 0.175 | 1 | 6294 | SAFB |
| 0.249935657 | 0.141254812 | 0.18 | 1 | 27183 | VPS4A |
| 0.249678254 | 0.141675323 | 0.2 | 1 | 5075 | PAX1 |
| 0.249678254 | 0.141675323 | 0.171 | 1 | 23515 | MORC3 |
| 0.249678254 | 0.141675323 | 0.177 | 1 | 157313 | CDCA2 |
| 0.249420851 | 0.142096594 | 0.193 | 1 | 6017 | RLBP1 |
| 0.249420851 | 0.142096594 | 0.159 | 1 | 7038 | TG |
| 0.249420851 | 0.142096594 | 0.166 | 1 | 8581 | LY6D |
| 0.249163449 | 0.142518818 | 0.171 | 1 | 10640 | EXOC5 |
| 0.249163449 | 0.142518818 | 0.183 | 1 | 55148 | UBR7 |
| 0.249163449 | 0.142518818 | 0.168 | 1 | 93655 | ST7-OT3 |
| 0.249163449 | 0.142518818 | 0.179 | 1 | 122664 | TPPP2 |
| 0.249163449 | 0.142518818 | 0.181 | 1 | 729952 | HMGB3P6 |
| 0.248906046 | 0.142941967 | 0.179 | 1 | 5955 | RCN2 |
| 0.248906046 | 0.142941967 | 0.173 | 1 | 54897 | CASZ1 |
| 0.248648658 | 0.143366188 | 0.194 | 1 | 6866 | TAC3 |
| 0.248648658 | 0.143366188 | 0.16 | 1 | 59286 | UBL5 |
| 0.248648658 | 0.143366188 | 0.153 | 1 | 161582 | DYX1C1-CCPG1 |
| 0.248391256 | 0.143791184 | 0.174 | 1 | 39 | ACAT2 |
| 0.248391256 | 0.143791184 | 0.17 | 1 | 4869 | NPM1 |
| 0.248391256 | 0.143791184 | 0.179 | 1 | 374864 | C18orf34 |
| 0.248391256 | 0.143791184 | 0.194 | 1 | 401944 | LDLRAD2 |
| 0.248391256 | 0.143791184 | 0.182 | 1 | 441525 | SPANXN4 |
| 0.248133838 | 0.144217119 | 0.185 | 1 | 6683 | SPAST |
| 0.248133838 | 0.144217119 | 0.19 | 1 | 285074 | AC125232.1 |
| 0.247876436 | 0.144643992 | 0.173 | 1 | 1364 | CLDN4 |
| 0.247876436 | 0.144643992 | 0.19 | 1 | 80224 | NUBPL |
| 0.247876436 | 0.144643992 | 0.17 | 1 | 337880 | KRTAP11-1 |
| 0.247876436 | 0.144643992 | 0.176 | 1 | 643037 | LOC643037 |
| 0.247619033 | 0.145071805 | 0.168 | 1 | 3512 | IGJ |
| 0.247619033 | 0.145071805 | 0.174 | 1 | 6498 | SKIL |
| 0.247619033 | 0.145071805 | 0.183 | 1 | 9296 | ATP6V1F |
| 0.247619033 | 0.145071805 | 0.18 | 1 | 53833 | IL20RB |
| 0.247619033 | 0.145071805 | 0.17 | 1 | 84789 | MGC2889 |
| 0.247361645 | 0.14550069 | 0.161 | 1 | 648740 | ACTG1P4 |
| 0.247104242 | 0.145930365 | 0.165 | 1 | 25758 | C11orf41 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.20508191 | < 0.001 | 10771 | ZMYND11 |
| 0.20506835 | < 0.001 | 84930 | MASTL |
| 0.205053031 | < 0.001 | 54457 | TAF7L |
| 0.205017835 | < 0.001 | 200159 | C1orf100 |
| 0.204916134 | < 0.001 | 5516 | PPP2CB |
| 0.204914287 | < 0.001 | 54853 | WDR55 |
| 0.204883724 | < 0.001 | 5546 | PRCC |
| 0.20486182 | < 0.001 | 79924 | ADM2 |
| 0.204829589 | < 0.001 | 9556 | C14orf2 |
| 0.204778507 | < 0.001 | 375346 | TMEM110 |
| 0.204761893 | < 0.001 | 54928 | IMPAD1 |
| 0.204742104 | < 0.001 | 118427 | OLFM3 |
| 0.204734862 | < 0.001 | 92154 | MTSS1L |
| 0.204681009 | < 0.001 | 167826 | OLIG3 |
| 0.204653054 | < 0.001 | 57648 | KIAA1522 |
| 0.204593152 | < 0.001 | 57167 | SALL4 |
| 0.204522759 | < 0.001 | 51668 | HSPB11 |
| 0.204495832 | < 0.001 | 3628 | INPP1 |
| 0.20446676 | < 0.001 | 23647 | ARFIP2 |
| 0.204386339 | < 0.001 | 206338 | AC034236.3 |
| 0.204378068 | < 0.001 | 993 | CDC25A |
| 0.20437111 | < 0.001 | 10436 | EMG1 |
| 0.20417887 | < 0.001 | 342510 | CD300E |
| 0.204064369 | < 0.001 | 83850 | ESYT3 |
| 0.204054341 | < 0.001 | 692312 | PPAN-P2RY11 |
| 0.203989238 | < 0.001 | 2561 | GABRB2 |
| 0.20398432 | < 0.001 | 26470 | SEZ6L2 |
| 0.203840852 | < 0.001 | 63910 | SLC17A9 |
| 0.203829512 | < 0.001 | 11336 | EXOC3 |
| 0.203816056 | < 0.001 | 2746 | GLUD1 |
| 0.203813821 | < 0.001 | 9320 | TRIP12 |
| 0.20377937 | < 0.001 | 340980 | OR52B6 |
| 0.203762934 | < 0.001 | 11101 | ATE1 |
| 0.203734145 | < 0.001 | 3094 | HINT1 |
| 0.20372355 | < 0.001 | 337985 | KRTAP20-3 |
| 0.203717604 | < 0.001 | 401546 | C9orf152 |
| 0.203698114 | < 0.001 | 10384 | BTN3A3 |
| 0.203691706 | < 0.001 | 29850 | TRPM5 |
| 0.203689188 | < 0.001 | 2005 | ELK4 |
| 0.203688264 | < 0.001 | 5270 | SERPINE2 |
| 0.203657061 | < 0.001 | 9637 | FEZ2 |
| 0.203618333 | < 0.001 | 78992 | YIPF2 |
| 0.203613043 | < 0.001 | 85446 | ZFHX2 |
| 0.203611091 | < 0.001 | 28996 | HIPK2 |
| 0.203555554 | < 0.001 | 10164 | CHST4 |
| 0.203510523 | < 0.001 | 127707 | KLHDC7A |
| 0.203488976 | < 0.001 | 51449 | PCYOX1 |
| 0.203462601 | < 0.001 | 5774 | PTPN3 |
| 0.203451738 | < 0.001 | 79896 | THNSL1 |
| 0.203425646 | < 0.001 | 23659 | PLA2G15 |
| 0.203423038 | < 0.001 | 149466 | C1ORF210 |
| 0.203418672 | < 0.001 | 1435 | CSF1 |
| 0.203396484 | < 0.001 | 27339 | PRPF19 |
| 0.203334451 | < 0.001 | 402665 | IGLON5 |
| 0.203312531 | < 0.001 | 27145 | FILIP1 |
| 0.203293771 | < 0.001 | 4107 | MAGEA8 |
| 0.203275383 | < 0.001 | 388611 | CD164L2 |
| 0.203257084 | < 0.001 | 10241 | CALCOCO2 |
| 0.20325467 | < 0.001 | 92960 | PEX11G |
| 0.203129113 | < 0.001 | 64241 | ABCG8 |
| 0.20309402 | < 0.001 | 8987 | STBD1 |
| 0.203012764 | < 0.001 | 53349 | ZFYVE1 |
| 0.202811882 | < 0.001 | 55 | ACPP |
| 0.202791646 | < 0.001 | 5435 | POLR2F |
| 0.202756628 | < 0.001 | 55534 | MAML3 |
| 0.20275645 | < 0.001 | 25852 | ARMC8 |
| 0.202750131 | < 0.001 | 22846 | VASH1 |
| 0.202700168 | < 0.001 | 22899 | ARHGEF15 |
| 0.202685133 | < 0.001 | 84981 | MIR22HG |
| 0.202642038 | < 0.001 | 124976 | SPNS2 |
| 0.202621147 | < 0.001 | 527 | ATP6V0C |
| 0.202417955 | < 0.001 | 84064 | HDHD2 |
| 0.202377364 | < 0.001 | 8573 | CASK |
| 0.202329546 | < 0.001 | 338398 | TAS2R60 |
| 0.202268347 | < 0.001 | 25948 | KBTBD2 |
| 0.202263325 | < 0.001 | 64582 | GPR135 |
| 0.20225516 | < 0.001 | 114823 | LENG8 |
| 0.202168792 | < 0.001 | 79147 | FKRP |
| 0.202158943 | < 0.001 | 9774 | BCLAF1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.247104242 | 0.145930365 | 0.175 | 1 | 284111 | SLC13A5 |
| 0.24684684 | 0.146360993 | 0.183 | 1 | 5580 | PRKCD |
| 0.24684684 | 0.146360993 | 0.189 | 1 | 8362 | HIST1H4K |
| 0.24684684 | 0.146360993 | 0.18 | 1 | 116135 | LRRC3B |
| 0.246589437 | 0.146792531 | 0.186 | 1 | 51072 | MEMO1 |
| 0.246589437 | 0.146792531 | 0.178 | 1 | 112950 | MED8 |
| 0.246589437 | 0.146792531 | 0.173 | 1 | 388552 | BLOC1S3 |
| 0.246332034 | 0.147225231 | 0.23 | 1 | 7431 | VIM |
| 0.246332034 | 0.147225231 | 0.158 | 1 | 57533 | TBC1D14 |
| 0.246332034 | 0.147225231 | 0.18 | 1 | 136319 | MTPN |
| 0.246074647 | 0.147658616 | 0.187 | 1 | 1642 | DDB1 |
| 0.245817244 | 0.148092985 | 0.191 | 1 | 55365 | TMEM176A |
| 0.245817244 | 0.148092985 | 0.186 | 1 | 158038 | LINGO2 |
| 0.245559841 | 0.148528308 | 0.175 | 1 | 3892 | KRT86 |
| 0.245559841 | 0.148528308 | 0.173 | 1 | 6018 | RLF |
| 0.245559841 | 0.148528308 | 0.195 | 1 | 7178 | TPT1 |
| 0.245559841 | 0.148528308 | 0.203 | 1 | 8022 | LHX3 |
| 0.245559841 | 0.148528308 | 0.195 | 1 | 8861 | LDB1 |
| 0.245559841 | 0.148528308 | 0.183 | 1 | 23332 | CLASP1 |
| 0.245559841 | 0.148528308 | 0.185 | 1 | 90634 | N4BP2L1 |
| 0.245559841 | 0.148528308 | 0.193 | 1 | 219956 | OR9Q1 |
| 0.245302439 | 0.148964763 | 0.19 | 1 | 6288 | SAA1 |
| 0.245302439 | 0.148964763 | 0.202 | 1 | 7416 | VDAC1 |
| 0.245302439 | 0.148964763 | 0.208 | 1 | 8536 | CAMK1 |
| 0.245302439 | 0.148964763 | 0.177 | 1 | 9715 | FAM131B |
| 0.245045036 | 0.149401963 | 0.196 | 1 | 7026 | NR2F2 |
| 0.245045036 | 0.149401963 | 0.162 | 1 | 8336 | HIST1H2AM |
| 0.244787648 | 0.149840072 | 0.194 | 1 | 4751 | NEK2 |
| 0.244787648 | 0.149840072 | 0.197 | 1 | 11040 | PIM2 |
| 0.244787648 | 0.149840072 | 0.182 | 1 | 22928 | SEPHS2 |
| 0.244787648 | 0.149840072 | 0.191 | 1 | 28981 | IFT81 |
| 0.244787648 | 0.149840072 | 0.167 | 1 | 221409 | SPATS1 |
| 0.244787648 | 0.149840072 | 0.195 | 1 | 285456 | AC084209.1 |
| 0.244787648 | 0.149840072 | 0.185 | 1 | 595101 | LOC595101 |
| 0.244530246 | 0.150279179 | 0.179 | 1 | 9158 | FIBP |
| 0.244530246 | 0.150279179 | 0.202 | 1 | 120863 | DEPDC4 |
| 0.244272843 | 0.150719211 | 0.184 | 1 | 328 | APEX1 |
| 0.244272843 | 0.150719211 | 0.192 | 1 | 1557 | CYP2C19 |
| 0.244272843 | 0.150719211 | 0.216 | 1 | 9095 | TBX19 |
| 0.244272843 | 0.150719211 | 0.193 | 1 | 445577 | C9orf129 |
| 0.24401544 | 0.151160404 | 0.168 | 1 | 8289 | ARID1A |
| 0.24401544 | 0.151160404 | 0.151 | 1 | 121278 | TPH2 |
| 0.24401544 | 0.151160404 | 0.193 | 1 | 283130 | SLC25A45 |
| 0.243758038 | 0.151602343 | 0.182 | 1 | 768 | CA9 |
| 0.243758038 | 0.151602343 | 0.206 | 1 | 5982 | RFC2 |
| 0.243758038 | 0.151602343 | 0.205 | 1 | 116225 | ZMYND19 |
| 0.24350065 | 0.15204519 | 0.199 | 1 | 10785 | WDR4 |
| 0.24350065 | 0.15204519 | 0.165 | 1 | 27177 | IL1F8 |
| 0.24350065 | 0.15204519 | 0.196 | 1 | 57282 | SLC4A10 |
| 0.24350065 | 0.15204519 | 0.199 | 1 | 146760 | RTN4RL1 |
| 0.243243247 | 0.152489036 | 0.184 | 1 | 7695 | ZNF136 |
| 0.243243247 | 0.152489036 | 0.18 | 1 | 9217 | VAPB |
| 0.243243247 | 0.152489036 | 0.2 | 1 | 9915 | ARNT2 |
| 0.243243247 | 0.152489036 | 0.187 | 1 | 56965 | PARP6 |
| 0.243243247 | 0.152489036 | 0.2 | 1 | 121536 | AEBP2 |
| 0.243243247 | 0.152489036 | 0.182 | 1 | 147199 | SCGB1C1 |
| 0.243243247 | 0.152489036 | 0.189 | 1 | 284615 | ANKRD34A |
| 0.242985845 | 0.15293403 | 0.184 | 1 | 2562 | GABRB3 |
| 0.242985845 | 0.15293403 | 0.18 | 1 | 222642 | BZRPL1 |
| 0.242728442 | 0.153379768 | 0.199 | 1 | 269 | AMHR2 |
| 0.242728442 | 0.153379768 | 0.177 | 1 | 8497 | PPFIA4 |
| 0.242728442 | 0.153379768 | 0.194 | 1 | 25858 | C11orf20 |
| 0.242728442 | 0.153379768 | 0.219 | 1 | 29881 | NPC1L1 |
| 0.242728442 | 0.153379768 | 0.211 | 1 | 29998 | GLTSCR1 |
| 0.242728442 | 0.153379768 | 0.18 | 1 | 54898 | ELOVL2 |
| 0.242471039 | 0.153826475 | 0.21 | 1 | 23594 | ORC6L |
| 0.242471039 | 0.153826475 | 0.169 | 1 | 55146 | ZDHHC4 |
| 0.242471039 | 0.153826475 | 0.2 | 1 | 90639 | COX19 |
| 0.242213652 | 0.154274076 | 0.199 | 1 | 156 | ADRBK1 |
| 0.242213652 | 0.154274076 | 0.187 | 1 | 3488 | IGFBP5 |
| 0.242213652 | 0.154274076 | 0.185 | 1 | 9779 | TBC1D5 |
| 0.242213652 | 0.154274076 | 0.192 | 1 | 23324 | MAN2B2 |
| 0.242213652 | 0.154274076 | 0.189 | 1 | 54921 | CHTF8 |
| 0.242213652 | 0.154274076 | 0.193 | 1 | 84501 | SPIRE2 |
| 0.242213652 | 0.154274076 | 0.172 | 1 | 554226 | NCRNA00164 |
| 0.241956249 | 0.154722884 | 0.185 | 1 | 388394 | RPRML |
| 0.241956249 | 0.154722884 | 0.184 | 1 | 729583 | C6orf100 |
| 0.241698846 | 0.155172467 | 0.212 | 1 | 5594 | MAPK1 |
| 0.241698846 | 0.155172467 | 0.183 | 1 | 6722 | SRF |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.202144459 | < 0.001 | 55530 | SVOP |
| 0.20212701 | < 0.001 | 90639 | COX19 |
| 0.202099234 | < 0.001 | 2118 | ETV4 |
| 0.202090412 | < 0.001 | 8460 | TPST1 |
| 0.202061161 | < 0.001 | 23350 | SR140 |
| 0.202012777 | < 0.001 | 3501 | IGHG2 |
| 0.201940715 | < 0.001 | 2623 | GATA1 |
| 0.201919824 | < 0.001 | 115704 | EVI5L |
| 0.201890931 | < 0.001 | 402055 | SRRD |
| 0.20178099 | < 0.001 | 65055 | REEP1 |
| 0.201737702 | < 0.001 | 3875 | KRT18P19 |
| 0.201717377 | < 0.001 | 645367 | GGT8P |
| 0.201589495 | < 0.001 | 51241 | COX16 |
| 0.20152244 | < 0.001 | 8976 | WASL |
| 0.201452047 | < 0.001 | 360132 | FKBP9L |
| 0.201437384 | < 0.001 | 127 | ADH4 |
| 0.201418057 | < 0.001 | 5780 | PTPN9 |
| 0.201416954 | < 0.001 | 168620 | BHLHA15 |
| 0.201363921 | < 0.001 | 8812 | CCNK |
| 0.201356858 | < 0.001 | 9061 | PAPSS1 |
| 0.201301605 | < 0.001 | 3608 | ILF2 |
| 0.201275796 | < 0.001 | 27043 | PELP1 |
| 0.201217845 | < 0.001 | 8997 | KALRN |
| 0.201164722 | < 0.001 | 129080 | EMID1 |
| 0.201124787 | < 0.001 | 114 | ADCY8 |
| 0.201117456 | < 0.001 | 148870 | CCDC27 |
| 0.201115042 | < 0.001 | 6595 | SMARCA2 |
| 0.201033041 | < 0.001 | 91782 | CHMP7 |
| 0.201020882 | < 0.001 | 1553 | CYP2A13 |
| 0.201017439 | < 0.001 | 23230 | VPS13A |
| 0.200956151 | < 0.001 | 97 | ACYP1 |
| 0.200812668 | < 0.001 | 55249 | YY1AP1 |
| 0.200806633 | < 0.001 | 286151 | FBXO43 |
| 0.200626478 | < 0.001 | 9002 | F2RL3 |
| 0.200613752 | < 0.001 | 140881 | DEFB129 |
| 0.20055905 | < 0.001 | 79759 | ZNF668 |
| 0.200556636 | < 0.001 | 1427 | CRYGS |
| 0.200523853 | < 0.001 | 254863 | C17orf61 |
| 0.200510859 | < 0.001 | 9583 | ENTPD4 |
| 0.20043312 | < 0.001 | 404550 | C16orf74 |
| 0.200290203 | < 0.001 | 91703 | ACY3 |
| 0.200283155 | < 0.001 | 149951 | COMMD7 |
| 0.200250551 | < 0.001 | 10462 | CLEC10A |
| 0.200250268 | < 0.001 | 80789 | INTS5 |
| 0.200226218 | < 0.001 | 10128 | LRPPRC |
| 0.200139955 | < 0.001 | 11140 | CDC37 |
| 0.20002155 | < 0.001 | 64064 | OXCT2 |
| 0.199932113 | < 0.001 | 10979 | PLEKHC1 |
| 0.199906856 | < 0.001 | 55754 | TMEM30A |
| 0.199906573 | < 0.001 | 64109 | CRLF2 |
| 0.199900448 | < 0.001 | 2747 | GLUD2 |
| 0.199897662 | < 0.001 | 399697 | CTXN2 |
| 0.199892282 | < 0.001 | 4794 | NFKBIE |
| 0.199856058 | < 0.001 | 2893 | GRIA4 |
| 0.199855313 | < 0.001 | 439953 | LOC439953 |
| 0.199834138 | < 0.001 | 3641 | INSL4 |
| 0.199799687 | < 0.001 | 6477 | SIAH1 |
| 0.199776664 | < 0.001 | 81602 | CDADC1 |
| 0.199760586 | < 0.001 | 27242 | TNFRSF21 |
| 0.199752882 | < 0.001 | 51255 | RNF181 |
| 0.199690476 | < 0.001 | 10149 | GPR64 |
| 0.199690193 | < 0.001 | 83901 | KRTAP9-8 |
| 0.199668005 | < 0.001 | 6704 | SPRR2E |
| 0.199614882 | < 0.001 | 54165 | DCUN1D1 |
| 0.19955954 | < 0.001 | 10099 | TSPAN3 |
| 0.199547559 | < 0.001 | 81552 | VOPP1 |
| 0.19954069 | < 0.001 | 10486 | CAP2 |
| 0.199496672 | < 0.001 | 54549 | SDK2 |
| 0.199493691 | < 0.001 | 58498 | MYL7 |
| 0.19948478 | < 0.001 | 147710 | AC138472.2 |
| 0.19947587 | < 0.001 | 145741 | FAM148A |
| 0.199443176 | < 0.001 | 89801 | PPP1R3F |
| 0.199433237 | < 0.001 | 27130 | INVS |
| 0.19941847 | < 0.001 | 79935 | CNTD2 |
| 0.199374646 | < 0.001 | 7135 | TNNI1 |
| 0.199331924 | < 0.001 | 8760 | CDS2 |
| 0.199275464 | < 0.001 | 2931 | GSK3A |
| 0.199195966 | < 0.001 | 339105 | AC135050.2 |
| 0.199194103 | < 0.001 | 387820 | LOC387820 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.241698846 | 0.155172467 | 0.18 | 1 | 51759 | C9orf78 |
| 0.241698846 | 0.155172467 | 0.201 | 1 | 285331 | CCDC66 |
| 0.241441444 | 0.155622989 | 0.193 | 1 | 3359 | HTR3A |
| 0.241441444 | 0.155622989 | 0.206 | 1 | 10000 | AKT3 |
| 0.241441444 | 0.155622989 | 0.178 | 1 | 23001 | WDFY3 |
| 0.241441444 | 0.155622989 | 0.215 | 1 | 50508 | NOX3 |
| 0.241441444 | 0.155622989 | 0.209 | 1 | 51172 | NAGPA |
| 0.241441444 | 0.155622989 | 0.195 | 1 | 54716 | SLC6A20 |
| 0.241441444 | 0.155622989 | 0.2 | 1 | 57563 | KLHL8 |
| 0.241441444 | 0.155622989 | 0.2 | 1 | 131831 | C3orf44 |
| 0.241441444 | 0.155622989 | 0.187 | 1 | 146713 | AC021534.2 |
| 0.241184026 | 0.156074479 | 0.183 | 1 | 23639 | LRRC6 |
| 0.241184026 | 0.156074479 | 0.172 | 1 | 54665 | RSBN1 |
| 0.240926623 | 0.156526864 | 0.181 | 1 | 7879 | RAB7A |
| 0.240669236 | 0.156980455 | 0.189 | 1 | 6347 | CCL2 |
| 0.240669236 | 0.156980455 | 0.205 | 1 | 10476 | ATP5H |
| 0.240669236 | 0.156980455 | 0.199 | 1 | 29979 | UBQLN1 |
| 0.240669236 | 0.156980455 | 0.204 | 1 | 55175 | KLHL11 |
| 0.240411833 | 0.157434836 | 0.161 | 1 | 8812 | CCNK |
| 0.240411833 | 0.157434836 | 0.164 | 1 | 56245 | C21orf62 |
| 0.240411833 | 0.157434836 | 0.178 | 1 | 137682 | C8orf38 |
| 0.240411833 | 0.157434836 | 0.182 | 1 | 401777 | LOC401777 |
| 0.240411833 | 0.157434836 | 0.213 | 1 | 494118 | SPANXN1 |
| 0.24015443 | 0.157890156 | 0.191 | 1 | 844 | CASQ1 |
| 0.24015443 | 0.157890156 | 0.203 | 1 | 1428 | CRYM |
| 0.24015443 | 0.157890156 | 0.175 | 1 | 11078 | TRIOBP |
| 0.24015443 | 0.157890156 | 0.203 | 1 | 51026 | GOLT1B |
| 0.239897028 | 0.158346385 | 0.177 | 1 | 7172 | TPMT |
| 0.239897028 | 0.158346385 | 0.23 | 1 | 51594 | NBAS |
| 0.239639625 | 0.15880385 | 0.172 | 1 | 4644 | MYO5A |
| 0.239382237 | 0.159262061 | 0.179 | 1 | 92558 | CCDC64 |
| 0.239124835 | 0.159721226 | 0.177 | 1 | 84896 | ATAD1 |
| 0.239124835 | 0.159721226 | 0.199 | 1 | 116986 | AGAP2 |
| 0.239124835 | 0.159721226 | 0.188 | 1 | 151871 | DPPA2 |
| 0.239124835 | 0.159721226 | 0.175 | 1 | 285237 | C3orf38 |
| 0.239124835 | 0.159721226 | 0.185 | 1 | 388327 | C17orf100 |
| 0.238867432 | 0.160181388 | 0.195 | 1 | 54732 | TMED9 |
| 0.238867432 | 0.160181388 | 0.214 | 1 | 60528 | ELAC2 |
| 0.238610029 | 0.160642698 | 0.182 | 1 | 10608 | MXD4 |
| 0.238610029 | 0.160642698 | 0.181 | 1 | 10725 | NFAT5 |
| 0.238610029 | 0.160642698 | 0.211 | 1 | 64359 | NXN |
| 0.238610029 | 0.160642698 | 0.193 | 1 | 84856 | RP11-178A10.1 |
| 0.238610029 | 0.160642698 | 0.199 | 1 | 166336 | PRICKLE2 |
| 0.238352627 | 0.161104769 | 0.186 | 1 | 284067 | C17orf105 |
| 0.238095239 | 0.161567792 | 0.219 | 1 | 1131 | CHRM3 |
| 0.238095239 | 0.161567792 | 0.206 | 1 | 132720 | C4orf32 |
| 0.237837836 | 0.162031814 | 0.209 | 1 | 344382 | LOC344382 |
| 0.237580433 | 0.162496805 | 0.213 | 1 | 752 | FMNL1 |
| 0.237580433 | 0.162496805 | 0.206 | 1 | 4495 | MT1G |
| 0.237580433 | 0.162496805 | 0.174 | 1 | 10718 | NRG3 |
| 0.237580433 | 0.162496805 | 0.209 | 1 | 23057 | NMNAT2 |
| 0.237580433 | 0.162496805 | 0.197 | 1 | 100128139 | LOC100128139 |
| 0.237323031 | 0.162962988 | 0.218 | 1 | 5468 | PPARG |
| 0.237323031 | 0.162962988 | 0.219 | 1 | 124930 | ANKRD13B |
| 0.237323031 | 0.162962988 | 0.184 | 1 | 151195 | CCNYL1 |
| 0.237065628 | 0.163429871 | 0.193 | 1 | 57405 | SPC25 |
| 0.237065628 | 0.163429871 | 0.191 | 1 | 121256 | TMEM132D |
| 0.23680824 | 0.163897797 | 0.188 | 1 | 5036 | PA2G4 |
| 0.23680824 | 0.163897797 | 0.199 | 1 | 8908 | GYG2 |
| 0.23680824 | 0.163897797 | 0.207 | 1 | 84930 | MASTL |
| 0.23680824 | 0.163897797 | 0.198 | 1 | 440292 | LOC440292 |
| 0.236550838 | 0.164366677 | 0.202 | 1 | 5413 | SEPTIN5 |
| 0.236550838 | 0.164366677 | 0.202 | 1 | 283897 | C16orf54 |
| 0.236293435 | 0.164836764 | 0.169 | 1 | 1717 | DHCR7 |
| 0.236293435 | 0.164836764 | 0.209 | 1 | 2266 | FGG |
| 0.236293435 | 0.164836764 | 0.214 | 1 | 10447 | FAM3C |
| 0.236293435 | 0.164836764 | 0.193 | 1 | 84451 | MAP3K19 |
| 0.236036032 | 0.165307596 | 0.201 | 1 | 23521 | RPL13A |
| 0.236036032 | 0.165307596 | 0.214 | 1 | 91695 | RRP7B |
| 0.23577863 | 0.165779367 | 0.197 | 1 | 1310 | COL19A1 |
| 0.23577863 | 0.165779367 | 0.201 | 1 | 6423 | SFRP2 |
| 0.23577863 | 0.165779367 | 0.214 | 1 | 56548 | CHST7 |
| 0.23577863 | 0.165779367 | 0.176 | 1 | 89846 | FGD3 |
| 0.235521242 | 0.166252166 | 0.217 | 1 | 4683 | NBN |
| 0.235521242 | 0.166252166 | 0.19 | 1 | 9185 | REPS2 |
| 0.235521242 | 0.166252166 | 0.179 | 1 | 10602 | CDC42EP3 |
| 0.235521242 | 0.166252166 | 0.192 | 1 | 64405 | CDH22 |
| 0.235521242 | 0.166252166 | 0.162 | 1 | 138162 | C9orf116 |
| 0.235263839 | 0.166726142 | 0.177 | 1 | 10558 | SPTLC1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.19913727 | < 0.001 | 81928 | CABLES2 |
| 0.199127987 | < 0.001 | 752 | FMNL1 |
| 0.19911629 | < 0.001 | 283849 | EXOC3L |
| 0.199099392 | < 0.001 | 143678 | AC068385.1 |
| 0.198953956 | < 0.001 | 1894 | ECT2 |
| 0.198892474 | < 0.001 | 150290 | DUSP18 |
| 0.198857188 | < 0.001 | 79986 | ZNF702P |
| 0.198853016 | < 0.001 | 23587 | C17orf81 |
| 0.198787168 | < 0.001 | 100131801 | PET100 |
| 0.198718444 | < 0.001 | 25771 | TBC1D22A |
| 0.198717713 | < 0.001 | 29800 | ZDHHC1 |
| 0.198701546 | < 0.001 | 145864 | HAPLN3 |
| 0.198699325 | < 0.001 | 8366 | HIST1H4B |
| 0.198687717 | < 0.001 | 55218 | EXD2 |
| 0.198648423 | < 0.001 | 317781 | DDX51 |
| 0.198624656 | < 0.001 | 7283 | TUBG1 |
| 0.198584542 | < 0.001 | 400073 | C12orf76 |
| 0.198552221 | < 0.001 | 79625 | C4orf31 |
| 0.198473558 | < 0.001 | 284085 | KRT18P55 |
| 0.198382095 | < 0.001 | 1487 | CTBP1 |
| 0.198258668 | < 0.001 | 9543 | IGDCC3 |
| 0.198196828 | < 0.001 | 2678 | GGT1 |
| 0.198187158 | < 0.001 | 219952 | OR6Q1 |
| 0.198152333 | < 0.001 | 144097 | C11orf84 |
| 0.198109627 | < 0.001 | 6289 | SAA2 |
| 0.198053524 | < 0.001 | 5881 | RAC3 |
| 0.197930202 | < 0.001 | 23275 | POFUT2 |
| 0.197870672 | < 0.001 | 4282 | MIF |
| 0.197828799 | < 0.001 | 6462 | SHBG |
| 0.197826385 | < 0.001 | 54972 | TMEM132A |
| 0.197823778 | < 0.001 | 894 | CCND2 |
| 0.197773725 | < 0.001 | 341640 | FREM2 |
| 0.19775933 | < 0.001 | 123876 | ACSM2A |
| 0.197740197 | < 0.001 | 7461 | CLIP2 |
| 0.197595417 | < 0.001 | 80781 | COL18A1 |
| 0.197582975 | < 0.001 | 25806 | VAX2 |
| 0.197570711 | < 0.001 | 51156 | SERPINA10 |
| 0.19756636 | < 0.001 | 9462 | RASAL2 |
| 0.197456494 | < 0.001 | 340529 | PABPC1L2A |
| 0.197436616 | < 0.001 | 10075 | HUWE1 |
| 0.197389722 | < 0.001 | 9389 | SLC22A14 |
| 0.197298244 | < 0.001 | 238 | ALK |
| 0.197268814 | < 0.001 | 57448 | BIRC6 |
| 0.19724077 | < 0.001 | 1893 | ECM1 |
| 0.197231665 | < 0.001 | 57698 | KIAA1598 |
| 0.197229251 | < 0.001 | 55334 | SLC39A9 |
| 0.197167963 | < 0.001 | 81578 | COL21A1 |
| 0.197154954 | < 0.001 | 23624 | CBLC |
| 0.197142228 | < 0.001 | 8508 | NIPSNAP1 |
| 0.197112337 | < 0.001 | 126308 | MOBKL2A |
| 0.197104067 | < 0.001 | 3801 | KIFC3 |
| 0.197006091 | < 0.001 | 1981 | EIF4G1 |
| 0.196991146 | < 0.001 | 55554 | KLK15 |
| 0.196961328 | < 0.001 | 92170 | MTG1 |
| 0.1969136 | < 0.001 | 84467 | FBN3 |
| 0.196886763 | < 0.001 | 26263 | FBXO22 |
| 0.196771786 | < 0.001 | 162515 | SLC16A11 |
| 0.196737707 | < 0.001 | 5892 | RAD51L3 |
| 0.196682915 | < 0.001 | 114036 | LINC00310 |
| 0.19664754 | < 0.001 | 9628 | RGS6 |
| 0.196498111 | < 0.001 | 646019 | CBY3 |
| 0.196488366 | < 0.001 | 55194 | FAM176B |
| 0.196472585 | < 0.001 | 54602 | NDFIP2 |
| 0.196301803 | < 0.001 | 3992 | FADS1 |
| 0.196251839 | < 0.001 | 51807 | TUBA8 |
| 0.196225554 | < 0.001 | 79677 | SMC6 |
| 0.196176335 | < 0.001 | 125988 | C19orf70 |
| 0.196145326 | < 0.001 | 222234 | FAM185A |
| 0.196096465 | < 0.001 | 339366 | ADAMTSL5 |
| 0.196094707 | < 0.001 | 100128771 | EIF4BP3 |
| 0.196010113 | < 0.001 | 9135 | RABEP1 |
| 0.195995435 | < 0.001 | 333926 | PPM1J |
| 0.195850566 | < 0.001 | 1591 | CYP24A1 |
| 0.195811182 | < 0.001 | 1993 | ELAVL2 |
| 0.195759743 | < 0.001 | 9231 | DLG5 |
| 0.195713684 | < 0.001 | 200373 | AC069154.2 |
| 0.195686281 | < 0.001 | 55843 | ARHGAP15 |
| 0.195674673 | < 0.001 | 26011 | ODZ4 |
| 0.195657864 | < 0.001 | 57498 | KIDINS220 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.235263839 | 0.166726142 | 0.211 | 1 | 25847 | ANAPC13 |
| 0.235263839 | 0.166726142 | 0.222 | 1 | 63875 | MRPL17 |
| 0.235263839 | 0.166726142 | 0.187 | 1 | 79800 | ALS2CR8 |
| 0.235263839 | 0.166726142 | 0.173 | 1 | 79810 | PTCD2 |
| 0.235006437 | 0.167200893 | 0.19 | 1 | 29099 | COMMD9 |
| 0.235006437 | 0.167200893 | 0.232 | 1 | 164633 | CABP7 |
| 0.235006437 | 0.167200893 | 0.181 | 1 | 201965 | RWDD4A |
| 0.234749034 | 0.167676628 | 0.214 | 1 | 5682 | PSMA1 |
| 0.234749034 | 0.167676628 | 0.214 | 1 | 6450 | SH3BGR |
| 0.234749034 | 0.167676628 | 0.202 | 1 | 6782 | HSPA13 |
| 0.234749034 | 0.167676628 | 0.191 | 1 | 266697 | POM121L4P |
| 0.234749034 | 0.167676628 | 0.212 | 1 | 266812 | NAP1L5 |
| 0.234749034 | 0.167676628 | 0.194 | 1 | 400624 | FLJ45079 |
| 0.234491631 | 0.168153301 | 0.196 | 1 | 6453 | ITSN1 |
| 0.234491631 | 0.168153301 | 0.21 | 1 | 9862 | MED24 |
| 0.234491631 | 0.168153301 | 0.198 | 1 | 89849 | ATG16L2 |
| 0.234491631 | 0.168153301 | 0.202 | 1 | 201895 | C4orf34 |
| 0.234234229 | 0.168630987 | 0.215 | 1 | 3848 | KRT1 |
| 0.234234229 | 0.168630987 | 0.213 | 1 | 5792 | PTPRF |
| 0.234234229 | 0.168630987 | 0.215 | 1 | 8999 | CDKL2 |
| 0.234234229 | 0.168630987 | 0.212 | 1 | 25950 | RWDD3 |
| 0.234234229 | 0.168630987 | 0.224 | 1 | 26037 | SIPA1L1 |
| 0.233976826 | 0.169109881 | 0.199 | 1 | 6150 | MRPL23 |
| 0.233976826 | 0.169109881 | 0.216 | 1 | 6300 | MAPK12 |
| 0.233976826 | 0.169109881 | 0.209 | 1 | 79850 | FAM57A |
| 0.233976826 | 0.169109881 | 0.217 | 1 | 117854 | TRIM6 |
| 0.233976826 | 0.169109881 | 0.178 | 1 | 155185 | AMZ1 |
| 0.233976826 | 0.169109881 | 0.183 | 1 | 219539 | YPEL4 |
| 0.233719423 | 0.169589564 | 0.212 | 1 | 3656 | IRAK2 |
| 0.233719423 | 0.169589564 | 0.19 | 1 | 6358 | CCL14 |
| 0.233719423 | 0.169589564 | 0.243 | 1 | 23042 | PDXDC1 |
| 0.233719423 | 0.169589564 | 0.193 | 1 | 57574 | MARCHF4 |
| 0.233719423 | 0.169589564 | 0.209 | 1 | 89874 | SLC25A21 |
| 0.233719423 | 0.169589564 | 0.213 | 1 | 115399 | LRRC56 |
| 0.233719423 | 0.169589564 | 0.196 | 1 | 142913 | CFL1P1 |
| 0.233719423 | 0.169589564 | 0.19 | 1 | 389831 | LOC389831 |
| 0.233462021 | 0.170070201 | 0.202 | 1 | 56967 | C14orf132 |
| 0.233462021 | 0.170070201 | 0.229 | 1 | 389792 | IER5L |
| 0.233204618 | 0.170551792 | 0.215 | 1 | 79748 | LMAN1L |
| 0.233204618 | 0.170551792 | 0.181 | 1 | 80024 | SLC24A6 |
| 0.23294723 | 0.171034634 | 0.227 | 1 | 51428 | DDX41 |
| 0.23294723 | 0.171034634 | 0.222 | 1 | 81543 | LRRC3 |
| 0.232689828 | 0.171518236 | 0.198 | 1 | 56884 | FSTL5 |
| 0.232432425 | 0.172002837 | 0.219 | 1 | 23196 | FAM120A |
| 0.232432425 | 0.172002837 | 0.177 | 1 | 132989 | C4orf36 |
| 0.232175022 | 0.172488391 | 0.196 | 1 | 83640 | FAM103A1 |
| 0.232175022 | 0.172488391 | 0.18 | 1 | 100130331 | RP11-193H5.1 |
| 0.23191762 | 0.172975168 | 0.205 | 1 | 26098 | C10orf137 |
| 0.23191762 | 0.172975168 | 0.21 | 1 | 56145 | PCDHA3 |
| 0.23191762 | 0.172975168 | 0.19 | 1 | 93474 | ZNF670 |
| 0.23191762 | 0.172975168 | 0.207 | 1 | 284085 | KRT18P55 |
| 0.23191762 | 0.172975168 | 0.206 | 1 | 348021 | LINC00442 |
| 0.231660232 | 0.173462734 | 0.201 | 1 | 59339 | PLEKHA2 |
| 0.231660232 | 0.173462734 | 0.23 | 1 | 83401 | ELOVL3 |
| 0.231402829 | 0.173951298 | 0.202 | 1 | 6543 | SLC8A2 |
| 0.231402829 | 0.173951298 | 0.195 | 1 | 503542 | SPRN |
| 0.231145427 | 0.174440831 | 0.199 | 1 | 6128 | RPL6P10 |
| 0.231145427 | 0.174440831 | 0.218 | 1 | 221150 | C13orf3 |
| 0.230888024 | 0.174931362 | 0.22 | 1 | 10135 | PBEF1 |
| 0.230888024 | 0.174931362 | 0.177 | 1 | 11253 | MAN1B1 |
| 0.230888024 | 0.174931362 | 0.22 | 1 | 28227 | PPP2R3B |
| 0.230888024 | 0.174931362 | 0.19 | 1 | 79441 | HAUS3 |
| 0.230630621 | 0.175423086 | 0.186 | 1 | 84866 | TMEM25 |
| 0.230630621 | 0.175423086 | 0.211 | 1 | 359710 | C20orf185 |
| 0.230630621 | 0.175423086 | 0.216 | 1 | 645832 | SEBOX |
| 0.230373234 | 0.175915629 | 0.223 | 1 | 2056 | EPO |
| 0.230373234 | 0.175915629 | 0.198 | 1 | 10180 | RBM6 |
| 0.230373234 | 0.175915629 | 0.208 | 1 | 57410 | SCYL1 |
| 0.230373234 | 0.175915629 | 0.208 | 1 | 84057 | MND1 |
| 0.230373234 | 0.175915629 | 0.224 | 1 | 728294 | D2HGDH |
| 0.230115831 | 0.176409125 | 0.202 | 1 | 11041 | AP001107.1 |
| 0.230115831 | 0.176409125 | 0.202 | 1 | 23174 | ZCCHC14 |
| 0.230115831 | 0.176409125 | 0.227 | 1 | 29083 | GTPBP8 |
| 0.230115831 | 0.176409125 | 0.184 | 1 | 57663 | USP29 |
| 0.230115831 | 0.176409125 | 0.216 | 1 | 79645 | EFCAB1 |
| 0.229858428 | 0.176903665 | 0.214 | 1 | 3183 | HNRNPC |
| 0.229858428 | 0.176903665 | 0.204 | 1 | 3889 | KRT83 |
| 0.229601026 | 0.177399367 | 0.22 | 1 | 6780 | STAU1 |
| 0.229601026 | 0.177399367 | 0.226 | 1 | 8717 | TRADD |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.19564496 | < 0.001 | 56916 | SMARCAD1 |
| 0.195638642 | < 0.001 | 8407 | TAGLN2 |
| 0.195527017 | < 0.001 | 391191 | OR2AK2 |
| 0.195519209 | < 0.001 | 84075 | FSCB |
| 0.195489496 | < 0.001 | 166012 | CHST13 |
| 0.195460707 | < 0.001 | 116085 | SLC22A12 |
| 0.195427746 | < 0.001 | 58510 | PRODH2 |
| 0.19540517 | < 0.001 | 84519 | ACRBP |
| 0.195364773 | < 0.001 | 165082 | GPR113 |
| 0.195314452 | < 0.001 | 1762 | DMWD |
| 0.195307672 | < 0.001 | 6915 | TBXA2R |
| 0.19527182 | < 0.001 | 22926 | ATF6 |
| 0.195233837 | < 0.001 | 57546 | PDP2 |
| 0.195142463 | < 0.001 | 23011 | RAB21 |
| 0.195136234 | < 0.001 | 65012 | SLC26A10 |
| 0.195116356 | < 0.001 | 23208 | SYT11 |
| 0.195064455 | < 0.001 | 55133 | SRBD1 |
| 0.19501923 | < 0.001 | 8600 | TNFSF11 |
| 0.195004553 | < 0.001 | 4583 | MUC2 |
| 0.194955155 | < 0.001 | 55239 | OGFOD1 |
| 0.194913551 | < 0.001 | 199974 | CYP4Z1 |
| 0.194865346 | < 0.001 | 55157 | DARS2 |
| 0.194743231 | < 0.001 | 162968 | ZNF497 |
| 0.194723815 | < 0.001 | 401498 | TMEM215 |
| 0.194685832 | < 0.001 | 7163 | TPD52 |
| 0.194511801 | < 0.001 | 5869 | RAB5B |
| 0.194493786 | < 0.001 | 5104 | SERPINA5 |
| 0.194483206 | < 0.001 | 55135 | WRAP53 |
| 0.194476143 | < 0.001 | 222865 | TMEM130 |
| 0.194454044 | < 0.001 | 8677 | STX10 |
| 0.19443436 | < 0.001 | 11005 | SPINK5 |
| 0.194402412 | < 0.001 | 65266 | WNK4 |
| 0.194397852 | < 0.001 | 79803 | HPS6 |
| 0.194332764 | < 0.001 | 2917 | GRM7 |
| 0.194245934 | < 0.001 | 58477 | SRPRB |
| 0.194240734 | < 0.001 | 253314 | EIF4E1B |
| 0.194207951 | < 0.001 | 205428 | C3orf58 |
| 0.194036976 | < 0.001 | 203245 | NAIF1 |
| 0.194033548 | < 0.001 | 401335 | C7orf65 |
| 0.194014594 | < 0.001 | 2596 | GAP43 |
| 0.193996117 | < 0.001 | 128372 | OR6N1 |
| 0.193978295 | < 0.001 | 114788 | CSMD3 |
| 0.19397597 | < 0.001 | 8843 | HCAR3 |
| 0.193913013 | < 0.001 | 11147 | HHLA3 |
| 0.193895087 | < 0.001 | 56890 | MDM1 |
| 0.193771482 | < 0.001 | 51634 | RBMX2 |
| 0.193733782 | < 0.001 | 114804 | RNF157 |
| 0.193610907 | < 0.001 | 23072 | HECW1 |
| 0.193603769 | < 0.001 | 89970 | RSPRY1 |
| 0.193575248 | < 0.001 | 55259 | CASC1 |
| 0.193560109 | < 0.001 | 23484 | LEPROTL1 |
| 0.193552494 | < 0.001 | 8848 | TSC22D1 |
| 0.193491116 | < 0.001 | 79760 | GEMIN7 |
| 0.193462238 | < 0.001 | 56901 | NDUFA4L2 |
| 0.193397596 | < 0.001 | 9184 | BUB3 |
| 0.193397135 | < 0.001 | 8668 | EIF3I |
| 0.193311051 | < 0.001 | 5652 | PRSS8 |
| 0.193251237 | < 0.001 | 197131 | UBR1 |
| 0.193247527 | < 0.001 | 23186 | RCOR1 |
| 0.193243355 | < 0.001 | 64926 | RASAL3 |
| 0.193154469 | < 0.001 | 85313 | PPIL4 |
| 0.193149835 | < 0.001 | 221687 | RNF182 |
| 0.193117335 | < 0.001 | 2970 | GTF2IP1 |
| 0.193092346 | < 0.001 | 123264 | AC013553.1 |
| 0.193089291 | < 0.001 | 727851 | RGPD8 |
| 0.193001062 | < 0.001 | 6745 | SSR1 |
| 0.192976549 | < 0.001 | 57654 | KIAA1530 |
| 0.192921937 | < 0.001 | 55237 | C14orf115 |
| 0.192848951 | < 0.001 | 79746 | ECHDC3 |
| 0.192744106 | < 0.001 | 389199 | LOC389199 |
| 0.192680299 | < 0.001 | 55295 | KLHL26 |
| 0.19267714 | < 0.001 | 8540 | AGPS |
| 0.192637026 | < 0.001 | 146779 | AC008026.2 |
| 0.192604154 | < 0.001 | 284358 | MAMSTR |
| 0.192570075 | < 0.001 | 8468 | FKBP6 |
| 0.192559302 | < 0.001 | 10367 | CBARA1 |
| 0.192527637 | < 0.001 | 64710 | NUCKS1 |
| 0.192525119 | < 0.001 | 619208 | C6orf225 |
| 0.192358807 | < 0.001 | 11219 | TREX2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.229601026 | 0.177399367 | 0.217 | 1 | 54764 | ZRANB1 |
| 0.229601026 | 0.177399367 | 0.219 | 1 | 219738 | C10orf35 |
| 0.229343623 | 0.177895904 | 0.204 | 1 | 535 | ATP6V0A1 |
| 0.229343623 | 0.177895904 | 0.234 | 1 | 9818 | NUPL1 |
| 0.229343623 | 0.177895904 | 0.199 | 1 | 146909 | KIF18B |
| 0.229343623 | 0.177895904 | 0.215 | 1 | 349149 | GJC3 |
| 0.228828833 | 0.178891912 | 0.221 | 1 | 5581 | PRKCE |
| 0.228828833 | 0.178891912 | 0.205 | 1 | 10471 | PFDN6 |
| 0.228828833 | 0.178891912 | 0.201 | 1 | 255783 | PRR24 |
| 0.22857143 | 0.179391682 | 0.202 | 1 | 92675 | DTD1 |
| 0.228314027 | 0.179892153 | 0.224 | 1 | 8559 | PRPF18 |
| 0.228314027 | 0.179892153 | 0.21 | 1 | 56704 | JPH1 |
| 0.228056625 | 0.180393681 | 0.231 | 1 | 1555 | CYP2B7P1 |
| 0.228056625 | 0.180393681 | 0.207 | 1 | 7803 | PTP4A1 |
| 0.228056625 | 0.180393681 | 0.217 | 1 | 286205 | SCAI |
| 0.227799237 | 0.180896163 | 0.209 | 1 | 122740 | OR4K14 |
| 0.227541834 | 0.181399688 | 0.188 | 1 | 214 | ALCAM |
| 0.227541834 | 0.181399688 | 0.208 | 1 | 9389 | SLC22A14 |
| 0.227541834 | 0.181399688 | 0.226 | 1 | 22866 | CNKSR2 |
| 0.227541834 | 0.181399688 | 0.204 | 1 | 282974 | STK32C |
| 0.227284417 | 0.18190445 | 0.217 | 1 | 79829 | NAT11 |
| 0.227284417 | 0.18190445 | 0.232 | 1 | 151313 | FAHD2B |
| 0.227027014 | 0.182409972 | 0.236 | 1 | 6742 | SSBP1 |
| 0.227027014 | 0.182409972 | 0.218 | 1 | 51364 | ZMYND10 |
| 0.227027014 | 0.182409972 | 0.216 | 1 | 90161 | HS6ST2 |
| 0.227027014 | 0.182409972 | 0.21 | 1 | 440279 | UNC13C |
| 0.227027014 | 0.182409972 | 0.235 | 1 | 729595 | HMGB3P22 |
| 0.226769611 | 0.182916492 | 0.223 | 1 | 1510 | CTSE |
| 0.226769611 | 0.182916492 | 0.205 | 1 | 2114 | ETS2 |
| 0.226769611 | 0.182916492 | 0.241 | 1 | 5205 | ATP8B1 |
| 0.226769611 | 0.182916492 | 0.217 | 1 | 7090 | TLE3 |
| 0.226769611 | 0.182916492 | 0.243 | 1 | 7257 | TSNAX |
| 0.226769611 | 0.182916492 | 0.215 | 1 | 9063 | PIAS2 |
| 0.226769611 | 0.182916492 | 0.22 | 1 | 56853 | BRUNOL4 |
| 0.226769611 | 0.182916492 | 0.233 | 1 | 60509 | AGBL5 |
| 0.226769611 | 0.182916492 | 0.187 | 1 | 283219 | KCTD21 |
| 0.226769611 | 0.182916492 | 0.221 | 1 | 100131360 | LOC100131360 |
| 0.226512223 | 0.183424041 | 0.212 | 1 | 7108 | TM7SF2 |
| 0.226512223 | 0.183424041 | 0.207 | 1 | 11279 | KLF8 |
| 0.226254821 | 0.183932826 | 0.227 | 1 | 9140 | ATG12 |
| 0.226254821 | 0.183932826 | 0.237 | 1 | 128240 | APOA1BP |
| 0.225997418 | 0.184442386 | 0.253 | 1 | 677 | ZFP36L1 |
| 0.225997418 | 0.184442386 | 0.232 | 1 | 8404 | SPARCL1 |
| 0.225997418 | 0.184442386 | 0.214 | 1 | 9352 | TXNL1 |
| 0.225997418 | 0.184442386 | 0.231 | 1 | 11158 | RABL2B |
| 0.225997418 | 0.184442386 | 0.208 | 1 | 23262 | HISPPD1 |
| 0.225997418 | 0.184442386 | 0.194 | 1 | 90843 | TCEAL8 |
| 0.225740016 | 0.184952945 | 0.208 | 1 | 2537 | IFI6 |
| 0.225740016 | 0.184952945 | 0.229 | 1 | 6415 | SEPW1 |
| 0.225740016 | 0.184952945 | 0.222 | 1 | 9256 | BZRAP1 |
| 0.225740016 | 0.184952945 | 0.215 | 1 | 93408 | MYL10 |
| 0.225482613 | 0.185464486 | 0.22 | 1 | 1795 | DOCK3 |
| 0.225482613 | 0.185464486 | 0.209 | 1 | 2081 | ERN1 |
| 0.225482613 | 0.185464486 | 0.224 | 1 | 6196 | RPS6KA2 |
| 0.225482613 | 0.185464486 | 0.211 | 1 | 63905 | MANBAL |
| 0.225482613 | 0.185464486 | 0.219 | 1 | 84248 | FYTTD1 |
| 0.225225225 | 0.185977086 | 0.227 | 1 | 5671 | PSG3 |
| 0.225225225 | 0.185977086 | 0.224 | 1 | 23028 | KDM1 |
| 0.224967822 | 0.186490923 | 0.219 | 1 | 3654 | IRAK1 |
| 0.224967822 | 0.186490923 | 0.215 | 1 | 8841 | HDAC3 |
| 0.224967822 | 0.186490923 | 0.219 | 1 | 10928 | RALBP1 |
| 0.224967822 | 0.186490923 | 0.222 | 1 | 23568 | ARL2BP |
| 0.224967822 | 0.186490923 | 0.218 | 1 | 56926 | NCLN |
| 0.224967822 | 0.186490923 | 0.199 | 1 | 89890 | KBTBD6 |
| 0.22471042 | 0.187005535 | 0.222 | 1 | 8266 | UBL4A |
| 0.22471042 | 0.187005535 | 0.225 | 1 | 338645 | LUZP2 |
| 0.22471042 | 0.187005535 | 0.213 | 1 | 100131390 | SP9 |
| 0.224453017 | 0.1875211 | 0.205 | 1 | 23592 | LEMD3 |
| 0.224453017 | 0.1875211 | 0.246 | 1 | 50487 | PLA2G3 |
| 0.224453017 | 0.1875211 | 0.212 | 1 | 85478 | CCDC65 |
| 0.224453017 | 0.1875211 | 0.21 | 1 | 199953 | TMEM201 |
| 0.224195614 | 0.188037768 | 0.207 | 1 | 26245 | OR2M4 |
| 0.224195614 | 0.188037768 | 0.247 | 1 | 58527 | C6orf115 |
| 0.224195614 | 0.188037768 | 0.242 | 1 | 160418 | TMTC3 |
| 0.223938227 | 0.188555643 | 0.231 | 1 | 8562 | DENR |
| 0.223938227 | 0.188555643 | 0.234 | 1 | 84439 | HHIPL1 |
| 0.223680824 | 0.189074323 | 0.224 | 1 | 6953 | TCP10 |
| 0.223680824 | 0.189074323 | 0.216 | 1 | 100287482 | RP11-305M3.3 |
| 0.223423421 | 0.189594015 | 0.245 | 1 | 10950 | BTG3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.192262501 | < 0.001 | 54458 | PRR13 |
| 0.192099154 | < 0.001 | 54866 | PPP1R14D |
| 0.191978425 | < 0.001 | 134083 | OR2Y1 |
| 0.191969141 | < 0.001 | 8001 | GLRA3 |
| 0.191955209 | < 0.001 | 728470 | LOC728470 |
| 0.191949069 | < 0.001 | 84964 | ALKBH6 |
| 0.191877201 | < 0.001 | 51559 | NT5DC3 |
| 0.19182454 | < 0.001 | 10607 | TBL3 |
| 0.191785067 | < 0.001 | 10107 | TRIM10 |
| 0.191765845 | < 0.001 | 100133204 | C9orf147 |
| 0.191744402 | < 0.001 | 283152 | CCDC153 |
| 0.191661283 | < 0.001 | 149371 | EXOC8 |
| 0.191620231 | < 0.001 | 376267 | RAB15 |
| 0.191584677 | < 0.001 | 122706 | PSMB11 |
| 0.191579103 | < 0.001 | 5716 | PSMD10 |
| 0.191575482 | < 0.001 | 22864 | R3HDM2 |
| 0.191459954 | < 0.001 | 494118 | SPANXN1 |
| 0.191397175 | < 0.001 | 1455 | CSNK1G2 |
| 0.191326231 | < 0.001 | 51138 | COPS4 |
| 0.19128406 | < 0.001 | 7780 | SLC30A2 |
| 0.191215992 | < 0.001 | 1659 | DHX8 |
| 0.191211998 | < 0.001 | 100131785 | LOC100131785 |
| 0.191203639 | < 0.001 | 51762 | RAB8B |
| 0.191167429 | < 0.001 | 4994 | OR3A1 |
| 0.19115442 | < 0.001 | 1948 | EFNB2 |
| 0.191110313 | < 0.001 | 51496 | CTDSPL2 |
| 0.19106406 | < 0.001 | 90865 | IL33 |
| 0.19106397 | < 0.001 | 2745 | GLRX |
| 0.191041499 | < 0.001 | 79948 | AC006273.1 |
| 0.191040292 | < 0.001 | 5537 | PPP6C |
| 0.191015959 | < 0.001 | 642757 | FLJ32756 |
| 0.190991446 | < 0.001 | 9820 | CUL7 |
| 0.190963671 | < 0.001 | 9391 | CIAO1 |
| 0.190893754 | < 0.001 | 84167 | C19orf44 |
| 0.190892071 | < 0.001 | 100128927 | ZBTB42 |
| 0.190861061 | < 0.001 | 91039 | DPP9 |
| 0.19085066 | < 0.001 | 54438 | GFOD1 |
| 0.190625742 | < 0.001 | 23251 | KIAA1024 |
| 0.190575585 | < 0.001 | 6294 | SAFB |
| 0.190573364 | < 0.001 | 10286 | BCAS2 |
| 0.190448642 | < 0.001 | 51316 | PLAC8 |
| 0.190446138 | < 0.001 | 29948 | OSGIN1 |
| 0.190423474 | < 0.001 | 23416 | KCNH3 |
| 0.190418452 | < 0.001 | 4600 | MX2 |
| 0.190286398 | < 0.001 | 1038 | CDR1 |
| 0.190254644 | < 0.001 | 81300 | OR4P4 |
| 0.19023867 | < 0.001 | 79999 | AC007952.2 |
| 0.190229565 | < 0.001 | 25833 | POU2F3 |
| 0.190164745 | < 0.001 | 2307 | FOXS1 |
| 0.19015649 | < 0.001 | 10900 | RUNDC3A |
| 0.190115437 | < 0.001 | 1161 | ERCC8 |
| 0.190077737 | < 0.001 | 3064 | HTT |
| 0.19007653 | < 0.001 | 23287 | AGTPBP1 |
| 0.19000484 | < 0.001 | 5706 | PSMC6 |
| 0.189956263 | < 0.001 | 10050 | SLC17A4 |
| 0.189872041 | < 0.001 | 734 | OSGIN2 |
| 0.189827919 | < 0.001 | 55163 | PNPO |
| 0.189779535 | < 0.001 | 3817 | KLK2 |
| 0.189778611 | < 0.001 | 90673 | PPP1R3E |
| 0.189763561 | < 0.001 | 286343 | LURAP1L |
| 0.189711198 | < 0.001 | 23517 | SKIV2L2 |
| 0.189625204 | < 0.001 | 7112 | TMPO |
| 0.189604118 | < 0.001 | 116068 | AC027323.1 |
| 0.189590007 | < 0.001 | 388692 | LOC388692 |
| 0.189559639 | < 0.001 | 128653 | C20ORF141 |
| 0.189489618 | < 0.001 | 865 | CBFB |
| 0.189481348 | < 0.001 | 284383 | OR2Z1 |
| 0.189379096 | < 0.001 | 9033 | PKD2L1 |
| 0.189372972 | < 0.001 | 2395 | FXN |
| 0.189368144 | < 0.001 | 54850 | FBXL12 |
| 0.189361453 | < 0.001 | 284349 | ZNF283 |
| 0.18935357 | < 0.001 | 282973 | JAKMIP3 |
| 0.189286694 | < 0.001 | 1945 | EFNA4 |
| 0.189281493 | < 0.001 | 54831 | BEST2 |
| 0.189227358 | < 0.001 | 5020 | OXT |
| 0.189174145 | < 0.001 | 345651 | ACTBL2 |
| 0.189162359 | < 0.001 | 140701 | C20orf135 |
| 0.189153343 | < 0.001 | 134510 | UBLCP1 |
| 0.18914713 | < 0.001 | 63877 | FAM204A |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.223423421 | 0.189594015 | 0.22 | 1 | 23255 | KIAA0802 |
| 0.223423421 | 0.189594015 | 0.232 | 1 | 26260 | FBXO25 |
| 0.223423421 | 0.189594015 | 0.23 | 1 | 55791 | C1orf103 |
| 0.223423421 | 0.189594015 | 0.24 | 1 | 158046 | NXNL2 |
| 0.223423421 | 0.189594015 | 0.22 | 1 | 378708 | APITD1 |
| 0.223166019 | 0.190114662 | 0.224 | 1 | 2998 | GYS2 |
| 0.223166019 | 0.190114662 | 0.225 | 1 | 4801 | NFYB |
| 0.223166019 | 0.190114662 | 0.223 | 1 | 10446 | LRRN2 |
| 0.223166019 | 0.190114662 | 0.225 | 1 | 64064 | OXCT2 |
| 0.222908616 | 0.19063662 | 0.223 | 1 | 525 | ATP6V1B1 |
| 0.222908616 | 0.19063662 | 0.237 | 1 | 2117 | ETV3 |
| 0.222908616 | 0.19063662 | 0.222 | 1 | 7750 | ZMYM2 |
| 0.222908616 | 0.19063662 | 0.235 | 1 | 9545 | RAB3D |
| 0.222908616 | 0.19063662 | 0.217 | 1 | 10956 | OS9 |
| 0.222908616 | 0.19063662 | 0.194 | 1 | 51637 | C14orf166 |
| 0.222651228 | 0.191159353 | 0.215 | 1 | 5372 | PMM1 |
| 0.222651228 | 0.191159353 | 0.217 | 1 | 10402 | ST3GAL6 |
| 0.222651228 | 0.191159353 | 0.237 | 1 | 25920 | COBRA1 |
| 0.222651228 | 0.191159353 | 0.226 | 1 | 55765 | C1orf106 |
| 0.222651228 | 0.191159353 | 0.22 | 1 | 84966 | IGSF21 |
| 0.222651228 | 0.191159353 | 0.194 | 1 | 130612 | TMEM198 |
| 0.222651228 | 0.191159353 | 0.222 | 1 | 197131 | UBR1 |
| 0.222393826 | 0.191683114 | 0.236 | 1 | 2547 | XRCC6 |
| 0.222393826 | 0.191683114 | 0.201 | 1 | 54503 | ZDHHC13 |
| 0.222393826 | 0.191683114 | 0.22 | 1 | 79587 | CARS2 |
| 0.222393826 | 0.191683114 | 0.196 | 1 | 79857 | AC024940.3 |
| 0.222393826 | 0.191683114 | 0.224 | 1 | 344595 | RP11-446H18.3 |
| 0.222393826 | 0.191683114 | 0.233 | 1 | 401262 | CRIP3 |
| 0.222136423 | 0.192207888 | 0.232 | 1 | 7710 | ZNF154 |
| 0.222136423 | 0.192207888 | 0.249 | 1 | 9419 | CRIPT |
| 0.222136423 | 0.192207888 | 0.225 | 1 | 57154 | SMURF1 |
| 0.22187902 | 0.192733631 | 0.241 | 1 | 605 | BCL7A |
| 0.22187902 | 0.192733631 | 0.242 | 1 | 5950 | RBP4 |
| 0.22187902 | 0.192733631 | 0.245 | 1 | 10713 | USP39 |
| 0.22187902 | 0.192733631 | 0.215 | 1 | 27128 | CYTH4 |
| 0.221621618 | 0.193260685 | 0.244 | 1 | 8462 | KLF11 |
| 0.221621618 | 0.193260685 | 0.239 | 1 | 55843 | ARHGAP15 |
| 0.221621618 | 0.193260685 | 0.221 | 1 | 56924 | PAK6 |
| 0.22136423 | 0.193788514 | 0.206 | 1 | 411 | ARSB |
| 0.22136423 | 0.193788514 | 0.213 | 1 | 3608 | ILF2 |
| 0.22136423 | 0.193788514 | 0.222 | 1 | 92105 | INTS4 |
| 0.22136423 | 0.193788514 | 0.223 | 1 | 283459 | GATC |
| 0.221106827 | 0.194317386 | 0.251 | 1 | 6361 | CCL17 |
| 0.221106827 | 0.194317386 | 0.226 | 1 | 6689 | SPIB |
| 0.221106827 | 0.194317386 | 0.234 | 1 | 29888 | STRN4 |
| 0.221106827 | 0.194317386 | 0.252 | 1 | 54894 | RNF43 |
| 0.221106827 | 0.194317386 | 0.239 | 1 | 55611 | OTUB1 |
| 0.221106827 | 0.194317386 | 0.232 | 1 | 57466 | SFRS15 |
| 0.220849425 | 0.194847226 | 0.244 | 1 | 2688 | GH1 |
| 0.220849425 | 0.194847226 | 0.237 | 1 | 4627 | MYH9 |
| 0.220849425 | 0.194847226 | 0.264 | 1 | 5318 | PKP2 |
| 0.220849425 | 0.194847226 | 0.218 | 1 | 7040 | TGFB1 |
| 0.220849425 | 0.194847226 | 0.207 | 1 | 9462 | RASAL2 |
| 0.220849425 | 0.194847226 | 0.243 | 1 | 10576 | CCT2 |
| 0.220849425 | 0.194847226 | 0.249 | 1 | 374946 | C1orf187 |
| 0.220592022 | 0.195378348 | 0.248 | 1 | 405 | ARNT |
| 0.220592022 | 0.195378348 | 0.241 | 1 | 1609 | DGKQ |
| 0.220592022 | 0.195378348 | 0.242 | 1 | 4363 | ABCC1 |
| 0.220592022 | 0.195378348 | 0.241 | 1 | 6574 | SLC20A1 |
| 0.220592022 | 0.195378348 | 0.225 | 1 | 51634 | RBMX2 |
| 0.220592022 | 0.195378348 | 0.259 | 1 | 54102 | CLIC6 |
| 0.220592022 | 0.195378348 | 0.26 | 1 | 340562 | SATL1 |
| 0.220334619 | 0.195910275 | 0.218 | 1 | 4927 | NUP88 |
| 0.220334619 | 0.195910275 | 0.231 | 1 | 79674 | VEPH1 |
| 0.220334619 | 0.195910275 | 0.223 | 1 | 89796 | NAV1 |
| 0.220334619 | 0.195910275 | 0.246 | 1 | 143872 | AP000872.1 |
| 0.220334619 | 0.195910275 | 0.216 | 1 | 146325 | C16orf11 |
| 0.220334619 | 0.195910275 | 0.228 | 1 | 340719 | NANOS1 |
| 0.220077217 | 0.19644323 | 0.252 | 1 | 2771 | GNAI2 |
| 0.220077217 | 0.19644323 | 0.232 | 1 | 202781 | LOC202781 |
| 0.220077217 | 0.19644323 | 0.252 | 1 | 339240 | LOC339240 |
| 0.220077217 | 0.19644323 | 0.218 | 1 | 340152 | ZC3H12D |
| 0.220077217 | 0.19644323 | 0.236 | 1 | 100131289 | LOC100131289 |
| 0.219819814 | 0.196977213 | 0.225 | 1 | 6821 | SUOX |
| 0.219819814 | 0.196977213 | 0.201 | 1 | 11222 | MRPL3 |
| 0.219819814 | 0.196977213 | 0.222 | 1 | 53831 | GPR84 |
| 0.219819814 | 0.196977213 | 0.242 | 1 | 64577 | ALDH8A1 |
| 0.219819814 | 0.196977213 | 0.234 | 1 | 66004 | LYNX1 |
| 0.219819814 | 0.196977213 | 0.233 | 1 | 399818 | METTL10 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.189144239 | < 0.001 | 149281 | METTL11B |
| 0.18914257 | < 0.001 | 493861 | EID3 |
| 0.18912892 | < 0.001 | 1548 | CYP2A6 |
| 0.189093262 | < 0.001 | 114132 | SIGLEC11 |
| 0.189074963 | < 0.001 | 84056 | KATNAL1 |
| 0.189004108 | < 0.001 | 219293 | ATAD3C |
| 0.188984707 | < 0.001 | 9354 | UBE4A |
| 0.188940778 | < 0.001 | 131583 | FAM43A |
| 0.188933805 | < 0.001 | 541565 | C8orf58 |
| 0.188912079 | < 0.001 | 139425 | WDR42B |
| 0.188848287 | < 0.001 | 7566 | ZNF18 |
| 0.188830629 | < 0.001 | 11142 | PKIG |
| 0.188824326 | < 0.001 | 55803 | ADAP2 |
| 0.188802689 | < 0.001 | 754 | PTTG1IP |
| 0.188788667 | < 0.001 | 2971 | GTF3A |
| 0.188774452 | < 0.001 | 4660 | PPP1R12B |
| 0.188629672 | < 0.001 | 6785 | ELOVL4 |
| 0.188612863 | < 0.001 | 132112 | RTP1 |
| 0.1885629 | < 0.001 | 1778 | DYNC1H1 |
| 0.18854025 | < 0.001 | 196074 | METT5D1 |
| 0.18853569 | < 0.001 | 11335 | CBX3 |
| 0.188516662 | < 0.001 | 128077 | LIX1L |
| 0.188467711 | < 0.001 | 91319 | DERL3 |
| 0.188423693 | < 0.001 | 58488 | PCTP |
| 0.18838878 | < 0.001 | 340485 | ACER2 |
| 0.188358501 | < 0.001 | 79917 | MAGIX |
| 0.188357949 | < 0.001 | 5592 | PRKG1 |
| 0.188346997 | < 0.001 | 80230 | RUFY1 |
| 0.188344672 | < 0.001 | 57568 | SIPA1L2 |
| 0.188343465 | < 0.001 | 164284 | APCDD1L |
| 0.18833454 | < 0.001 | 205 | AK3L1 |
| 0.188275665 | < 0.001 | 348303 | AC011500.2 |
| 0.188257098 | < 0.001 | 389692 | MAFA |
| 0.188166082 | < 0.001 | 5140 | PDE3B |
| 0.188061148 | < 0.001 | 5862 | RAB2A |
| 0.188011006 | < 0.001 | 54518 | APBB1IP |
| 0.187999114 | < 0.001 | 23118 | MAP3K7IP2 |
| 0.187970042 | < 0.001 | 6839 | SUV39H1 |
| 0.187886462 | < 0.001 | 4598 | MVK |
| 0.187875226 | < 0.001 | 4990 | SIX6 |
| 0.187871695 | < 0.001 | 79412 | KREMEN2 |
| 0.187851265 | < 0.001 | 80124 | VCPIP1 |
| 0.187781245 | < 0.001 | 393046 | OR2A5 |
| 0.187757298 | < 0.001 | 2891 | GRIA2 |
| 0.187732399 | < 0.001 | 599 | BCL2L2 |
| 0.187703058 | < 0.001 | 388662 | SLC6A17 |
| 0.187695533 | < 0.001 | 55891 | LENEP |
| 0.18765077 | < 0.001 | 11026 | LILRA3 |
| 0.187640101 | < 0.001 | 4607 | MYBPC3 |
| 0.18759793 | < 0.001 | 221336 | BEND6 |
| 0.187571377 | < 0.001 | 56970 | ATXN7L3 |
| 0.187488347 | < 0.001 | 219527 | LRRC55 |
| 0.187422976 | < 0.001 | 60385 | TSKS |
| 0.187410995 | < 0.001 | 5261 | PHKG2 |
| 0.187339947 | < 0.001 | 3948 | LDHC |
| 0.187328622 | < 0.001 | 144110 | TMEM86A |
| 0.187272996 | < 0.001 | 26286 | ARFGAP3 |
| 0.187208548 | < 0.001 | 503834 | DPRXP4 |
| 0.187144473 | < 0.001 | 6780 | STAU1 |
| 0.187054113 | < 0.001 | 8911 | CACNA1I |
| 0.187039629 | < 0.001 | 54995 | OXSM |
| 0.186979443 | < 0.001 | 8174 | MADCAM1 |
| 0.186962172 | < 0.001 | 115650 | TNFRSF13C |
| 0.186916858 | < 0.001 | 284366 | KLK9 |
| 0.186912403 | < 0.001 | 131408 | FAM131A |
| 0.186902374 | < 0.001 | 84969 | C20orf100 |
| 0.18689847 | < 0.001 | 1746 | DLX2 |
| 0.186885282 | < 0.001 | 80003 | PCNXL2 |
| 0.18688342 | < 0.001 | 57710 | KIAA1614 |
| 0.186871067 | < 0.001 | 728327 | LOC728327 |
| 0.186808765 | < 0.001 | 5101 | PCDH9 |
| 0.186793715 | < 0.001 | 5801 | PTPRR |
| 0.18662934 | < 0.001 | 148213 | ZNF681 |
| 0.18659842 | < 0.001 | 375133 | PI1KAP2 |
| 0.186544746 | < 0.001 | 4007 | PRICKLE3 |
| 0.186534524 | < 0.001 | 10500 | SEMA6C |
| 0.186378971 | < 0.001 | 1606 | DGKA |
| 0.186340615 | < 0.001 | 3868 | KRT16 |
| 0.186313868 | < 0.001 | 9939 | RBM8A |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.219562411 | 0.197512463 | 0.247 | 1 | 6903 | TBCC |
| 0.219562411 | 0.197512463 | 0.238 | 1 | 55057 | AIM1L |
| 0.219562411 | 0.197512463 | 0.227 | 1 | 60385 | TSKS |
| 0.219562411 | 0.197512463 | 0.219 | 1 | 100268168 | AC008429.1 |
| 0.219305009 | 0.198048443 | 0.243 | 1 | 366 | AQP9 |
| 0.219305009 | 0.198048443 | 0.243 | 1 | 10498 | CARM1 |
| 0.219305009 | 0.198048443 | 0.255 | 1 | 24142 | NAT6 |
| 0.219305009 | 0.198048443 | 0.228 | 1 | 57143 | ADCK1 |
| 0.219305009 | 0.198048443 | 0.229 | 1 | 63922 | CHTF18 |
| 0.219305009 | 0.198048443 | 0.259 | 1 | 63950 | DMRTA2 |
| 0.219305009 | 0.198048443 | 0.221 | 1 | 89953 | KLC4 |
| 0.219047606 | 0.198585495 | 0.25 | 1 | 8635 | RNASET2 |
| 0.219047606 | 0.198585495 | 0.216 | 1 | 10527 | IPO7 |
| 0.219047606 | 0.198585495 | 0.226 | 1 | 11154 | AP4S1 |
| 0.219047606 | 0.198585495 | 0.246 | 1 | 83863 | TTTY5 |
| 0.219047606 | 0.198585495 | 0.216 | 1 | 90485 | ZNF835 |
| 0.218790218 | 0.199123591 | 0.231 | 1 | 54760 | PCSK4 |
| 0.218532816 | 0.199662685 | 0.241 | 1 | 8318 | CDC45L |
| 0.218532816 | 0.199662685 | 0.245 | 1 | 9097 | USP14 |
| 0.218532816 | 0.199662685 | 0.24 | 1 | 10262 | SF3B4 |
| 0.218532816 | 0.199662685 | 0.232 | 1 | 283284 | IGSF22 |
| 0.218532816 | 0.199662685 | 0.236 | 1 | 441168 | FAM26F |
| 0.218532816 | 0.199662685 | 0.23 | 1 | 728673 | LOC728673 |
| 0.218275413 | 0.200203106 | 0.238 | 1 | 1789 | DNMT3B |
| 0.218275413 | 0.200203106 | 0.243 | 1 | 2947 | GSTM3 |
| 0.218275413 | 0.200203106 | 0.256 | 1 | 4736 | RPL10A |
| 0.218275413 | 0.200203106 | 0.225 | 1 | 10152 | ABI2 |
| 0.218275413 | 0.200203106 | 0.256 | 1 | 51621 | KLF13 |
| 0.218275413 | 0.200203106 | 0.223 | 1 | 81618 | ITM2C |
| 0.218275413 | 0.200203106 | 0.24 | 1 | 474382 | H2AFB1 |
| 0.21801801 | 0.200744227 | 0.208 | 1 | 10463 | SLC30A9 |
| 0.21801801 | 0.200744227 | 0.237 | 1 | 56624 | ASAH2 |
| 0.21801801 | 0.200744227 | 0.251 | 1 | 57553 | MICAL3 |
| 0.21801801 | 0.200744227 | 0.236 | 1 | 157574 | FBXO16 |
| 0.217760608 | 0.20128642 | 0.239 | 1 | 2273 | FHL1 |
| 0.217760608 | 0.20128642 | 0.266 | 1 | 4294 | MAP3K10 |
| 0.217760608 | 0.20128642 | 0.246 | 1 | 55280 | CWF19L1 |
| 0.217760608 | 0.20128642 | 0.244 | 1 | 80173 | IFT74 |
| 0.21750322 | 0.201829627 | 0.252 | 1 | 1046 | CDX4 |
| 0.21750322 | 0.201829627 | 0.272 | 1 | 23109 | DDN |
| 0.21750322 | 0.201829627 | 0.257 | 1 | 57118 | CAMK1D |
| 0.21750322 | 0.201829627 | 0.236 | 1 | 81027 | TUBB1 |
| 0.217245817 | 0.202374175 | 0.25 | 1 | 2849 | GPR26 |
| 0.217245817 | 0.202374175 | 0.243 | 1 | 54850 | FBXL12 |
| 0.217245817 | 0.202374175 | 0.234 | 1 | 130888 | FBXO36 |
| 0.216988415 | 0.202919468 | 0.271 | 1 | 9905 | SGSM2 |
| 0.216988415 | 0.202919468 | 0.224 | 1 | 84070 | FAM186B |
| 0.216988415 | 0.202919468 | 0.238 | 1 | 148898 | C1ORF213 |
| 0.216731012 | 0.203465775 | 0.244 | 1 | 5616 | PRKY |
| 0.216731012 | 0.203465775 | 0.238 | 1 | 58531 | PRM3 |
| 0.216731012 | 0.203465775 | 0.25 | 1 | 728327 | LOC728327 |
| 0.216473609 | 0.204013109 | 0.222 | 1 | 5028 | P2RY1 |
| 0.216473609 | 0.204013109 | 0.249 | 1 | 7041 | TGFB1I1 |
| 0.216473609 | 0.204013109 | 0.246 | 1 | 10612 | TRIM3 |
| 0.216473609 | 0.204013109 | 0.226 | 1 | 79869 | CPSF7 |
| 0.216216221 | 0.2045618 | 0.251 | 1 | 9702 | CEP57 |
| 0.216216221 | 0.2045618 | 0.25 | 1 | 57213 | C13orf1 |
| 0.216216221 | 0.2045618 | 0.228 | 1 | 84706 | GPT2 |
| 0.216216221 | 0.2045618 | 0.272 | 1 | 348094 | ANKDD1A |
| 0.215958819 | 0.205111206 | 0.243 | 1 | 2874 | GPS2 |
| 0.215958819 | 0.205111206 | 0.255 | 1 | 5019 | OXCT1 |
| 0.215958819 | 0.205111206 | 0.241 | 1 | 29934 | SNX12 |
| 0.215958819 | 0.205111206 | 0.247 | 1 | 92691 | TMEM169 |
| 0.215958819 | 0.205111206 | 0.227 | 1 | 342898 | SYCN |
| 0.215958819 | 0.205111206 | 0.224 | 1 | 645323 | LINC00461 |
| 0.215701416 | 0.205661684 | 0.26 | 1 | 9045 | RPL14 |
| 0.215701416 | 0.205661684 | 0.239 | 1 | 11194 | ABCB8 |
| 0.215444013 | 0.206213161 | 0.232 | 1 | 815 | CAMK2A |
| 0.215186611 | 0.206765696 | 0.259 | 1 | 607 | BCL9 |
| 0.215186611 | 0.206765696 | 0.234 | 1 | 9133 | CCNB2 |
| 0.215186611 | 0.206765696 | 0.255 | 1 | 22846 | VASH1 |
| 0.214929223 | 0.207319558 | 0.253 | 1 | 119 | ADD2 |
| 0.214929223 | 0.207319558 | 0.234 | 1 | 8506 | CNTNAP1 |
| 0.214929223 | 0.207319558 | 0.253 | 1 | 219981 | OR5A2 |
| 0.214929223 | 0.207319558 | 0.255 | 1 | 392255 | GDF6 |
| 0.21467182 | 0.207874149 | 0.245 | 1 | 4726 | NDUFS6 |
| 0.21467182 | 0.207874149 | 0.24 | 1 | 9562 | MINPP1 |
| 0.21467182 | 0.207874149 | 0.239 | 1 | 10613 | ERLIN1 |
| 0.21467182 | 0.207874149 | 0.266 | 1 | 119369 | NUDT9P1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.186237261 | < 0.001 | 5049 | PAFAH1B2 |
| 0.186084211 | < 0.001 | 390110 | ACCSL |
| 0.186074838 | < 0.001 | 9760 | TOX |
| 0.186064258 | < 0.001 | 1050 | CEBPA |
| 0.186055422 | < 0.001 | 139886 | SPIN4 |
| 0.18605338 | < 0.001 | 782 | CACNB1 |
| 0.186028212 | < 0.001 | 6519 | SLC3A1 |
| 0.186004356 | < 0.001 | 389842 | LOC389842 |
| 0.185939342 | < 0.001 | 22829 | NLGN4Y |
| 0.185930714 | < 0.001 | 2527 | FUT5 |
| 0.185850099 | < 0.001 | 343171 | OR2W3 |
| 0.185828924 | < 0.001 | 79667 | AC021860.1 |
| 0.185736626 | < 0.001 | 10602 | CDC42EP3 |
| 0.185732812 | < 0.001 | 55220 | KLHDC8A |
| 0.185715348 | < 0.001 | 28991 | COMMD5 |
| 0.185686558 | < 0.001 | 6652 | SORD |
| 0.185644776 | < 0.001 | 1240 | CMKLR1 |
| 0.185617104 | < 0.001 | 54986 | ULK4 |
| 0.185571045 | < 0.001 | 63826 | SRR |
| 0.185535386 | < 0.001 | 92749 | C2orf39 |
| 0.185533151 | < 0.001 | 6319 | SCD |
| 0.185515881 | < 0.001 | 136227 | EMID2 |
| 0.185507894 | < 0.001 | 56244 | BTNL2 |
| 0.185487837 | < 0.001 | 197257 | LDHD |
| 0.185414463 | < 0.001 | 5050 | PAFAH1B3 |
| 0.185358003 | < 0.001 | 3560 | IL2RB |
| 0.185251951 | < 0.001 | 81615 | TMEM163 |
| 0.185199484 | < 0.001 | 10446 | LRRN2 |
| 0.185182855 | < 0.001 | 1213 | CLTC |
| 0.184991375 | < 0.001 | 151531 | UPP2 |
| 0.184889406 | < 0.001 | 64168 | NECAB1 |
| 0.184859216 | < 0.001 | 27285 | TEKT2 |
| 0.184855416 | < 0.001 | 55723 | ASF1B |
| 0.184796169 | < 0.001 | 7292 | TNFSF4 |
| 0.184756324 | < 0.001 | 200172 | SLFNL1 |
| 0.184676647 | < 0.001 | 6583 | SLC22A4 |
| 0.184657246 | < 0.001 | 10390 | CEPT1 |
| 0.184646741 | < 0.001 | 27042 | C1orf107 |
| 0.184576452 | < 0.001 | 10069 | RWDD2B |
| 0.184555277 | < 0.001 | 84911 | ZNF382 |
| 0.184509948 | < 0.001 | 182 | JAG1 |
| 0.184501231 | < 0.001 | 10539 | GLRX3 |
| 0.184497595 | < 0.001 | 84547 | PGBD1 |
| 0.184496209 | < 0.001 | 449520 | GGNBP1 |
| 0.184483394 | < 0.001 | 10112 | KIF20A |
| 0.184410498 | < 0.001 | 339168 | TMEM95 |
| 0.184366018 | < 0.001 | 51195 | RAPGEFL1 |
| 0.184307322 | < 0.001 | 56103 | PCDHGB2 |
| 0.184283733 | < 0.001 | 83463 | MXD3 |
| 0.18427676 | < 0.001 | 130162 | C2orf63 |
| 0.184225038 | < 0.001 | 750 | C16orf3 |
| 0.18411611 | < 0.001 | 91409 | CCDC74B |
| 0.184072003 | < 0.001 | 84552 | PARD6G |
| 0.184025928 | < 0.001 | 9287 | TAAR2 |
| 0.184018314 | < 0.001 | 51028 | VPS36 |
| 0.183990091 | < 0.001 | 7032 | TFF2 |
| 0.183908001 | < 0.001 | 8996 | NOL3 |
| 0.18388468 | < 0.001 | 29100 | TMEM208 |
| 0.183859155 | < 0.001 | 5309 | PITX3 |
| 0.183774829 | < 0.001 | 83643 | CCDC3 |
| 0.183736652 | < 0.001 | 7391 | USF1 |
| 0.183713347 | < 0.001 | 7182 | NR2C2 |
| 0.183555946 | < 0.001 | 4482 | MSRA |
| 0.183548793 | < 0.001 | 6239 | RREB1 |
| 0.183505148 | < 0.001 | 51514 | DTL |
| 0.183451191 | < 0.001 | 22948 | CCT5 |
| 0.183332965 | < 0.001 | 4063 | LY9 |
| 0.183318108 | < 0.001 | 340156 | MYLK4 |
| 0.183285058 | < 0.001 | 440915 | POTEKP |
| 0.183273539 | < 0.001 | 30012 | TLX3 |
| 0.183234721 | < 0.001 | 26040 | SETBP1 |
| 0.183216423 | < 0.001 | 1580 | CYP4B1 |
| 0.183200911 | < 0.001 | 29068 | ZBTB44 |
| 0.183199614 | < 0.001 | 513 | ATP5D |
| 0.183181778 | < 0.001 | 3675 | ITGA3 |
| 0.183158472 | < 0.001 | 1269 | CNR2 |
| 0.183134049 | < 0.001 | 655 | BMP7 |
| 0.183035523 | < 0.001 | 5777 | PTPN6 |
| 0.182994202 | < 0.001 | 25941 | C18orf10 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.214414418 | 0.208429813 | 0.27 | 1 | 115703 | SNX26 |
| 0.214157015 | 0.208986476 | 0.245 | 1 | 28956 | ROBLD3 |
| 0.214157015 | 0.208986476 | 0.236 | 1 | 54521 | WDR44 |
| 0.214157015 | 0.208986476 | 0.248 | 1 | 54531 | MIER2 |
| 0.214157015 | 0.208986476 | 0.233 | 1 | 56994 | CHPT1 |
| 0.214157015 | 0.208986476 | 0.266 | 1 | 85442 | KNDC1 |
| 0.213899612 | 0.209544495 | 0.246 | 1 | 6947 | TCN1 |
| 0.213899612 | 0.209544495 | 0.241 | 1 | 26953 | RANBP6 |
| 0.213899612 | 0.209544495 | 0.265 | 1 | 55650 | PIGV |
| 0.213899612 | 0.209544495 | 0.246 | 1 | 284613 | CYB561D1 |
| 0.213642225 | 0.210103244 | 0.263 | 1 | 1990 | CELA1 |
| 0.213642225 | 0.210103244 | 0.225 | 1 | 3621 | ING1 |
| 0.213642225 | 0.210103244 | 0.262 | 1 | 6286 | S100P |
| 0.213642225 | 0.210103244 | 0.255 | 1 | 64432 | MRPS25 |
| 0.213384822 | 0.210663065 | 0.227 | 1 | 5371 | PML |
| 0.213384822 | 0.210663065 | 0.244 | 1 | 6351 | CCL4 |
| 0.213384822 | 0.210663065 | 0.265 | 1 | 8672 | EIF4G3 |
| 0.213384822 | 0.210663065 | 0.264 | 1 | 80003 | PCNXL2 |
| 0.213384822 | 0.210663065 | 0.234 | 1 | 285696 | AC091878.1 |
| 0.213384822 | 0.210663065 | 0.233 | 1 | 286016 | TPI1P2 |
| 0.213127404 | 0.211223945 | 0.253 | 1 | 2903 | GRIN2A |
| 0.213127404 | 0.211223945 | 0.234 | 1 | 9015 | TAF1A |
| 0.213127404 | 0.211223945 | 0.248 | 1 | 222826 | C6orf146 |
| 0.213127404 | 0.211223945 | 0.224 | 1 | 348825 | TPRXL |
| 0.212870002 | 0.211786076 | 0.252 | 1 | 1325 | CORT |
| 0.212870002 | 0.211786076 | 0.253 | 1 | 220382 | FAM181B |
| 0.212612599 | 0.212348998 | 0.246 | 1 | 1072 | CFL1 |
| 0.212612599 | 0.212348998 | 0.265 | 1 | 4602 | MYB |
| 0.212612599 | 0.212348998 | 0.249 | 1 | 11193 | WBP4 |
| 0.212612599 | 0.212348998 | 0.262 | 1 | 54965 | PIGX |
| 0.212355196 | 0.212913007 | 0.243 | 1 | 1144 | CHRND |
| 0.212355196 | 0.212913007 | 0.248 | 1 | 2857 | GPR34 |
| 0.212355196 | 0.212913007 | 0.257 | 1 | 6687 | SPG7 |
| 0.212355196 | 0.212913007 | 0.266 | 1 | 8079 | MLF2 |
| 0.212355196 | 0.212913007 | 0.251 | 1 | 54542 | RC3H2 |
| 0.212355196 | 0.212913007 | 0.249 | 1 | 55236 | UBA6 |
| 0.212097809 | 0.213478044 | 0.255 | 1 | 384 | ARG2 |
| 0.212097809 | 0.213478044 | 0.247 | 1 | 8823 | FGF16 |
| 0.212097809 | 0.213478044 | 0.229 | 1 | 51552 | RAB14 |
| 0.212097809 | 0.213478044 | 0.224 | 1 | 780776 | FAM18A |
| 0.211840406 | 0.214044139 | 0.262 | 1 | 1207 | CLNS1A |
| 0.211840406 | 0.214044139 | 0.249 | 1 | 51025 | AC009171.1 |
| 0.211840406 | 0.214044139 | 0.245 | 1 | 51123 | ZNF706 |
| 0.211840406 | 0.214044139 | 0.231 | 1 | 136227 | EMID2 |
| 0.211583003 | 0.214611501 | 0.239 | 1 | 722 | C4BPA |
| 0.211583003 | 0.214611501 | 0.247 | 1 | 5879 | RAC1 |
| 0.211583003 | 0.214611501 | 0.241 | 1 | 10022 | INSL5 |
| 0.211583003 | 0.214611501 | 0.224 | 1 | 25778 | DSTYK |
| 0.211583003 | 0.214611501 | 0.247 | 1 | 202051 | AC135457.3 |
| 0.211325601 | 0.215179637 | 0.285 | 1 | 59336 | PRDM13 |
| 0.211068198 | 0.215748876 | 0.232 | 1 | 714 | C1QC |
| 0.211068198 | 0.215748876 | 0.249 | 1 | 4776 | NFATC4 |
| 0.211068198 | 0.215748876 | 0.239 | 1 | 51130 | ASB3 |
| 0.211068198 | 0.215748876 | 0.252 | 1 | 219927 | MRPL21 |
| 0.21081081 | 0.216319159 | 0.238 | 1 | 22853 | LMTK2 |
| 0.21081081 | 0.216319159 | 0.26 | 1 | 51149 | C5orf45 |
| 0.21081081 | 0.216319159 | 0.273 | 1 | 124540 | MSI2 |
| 0.210553408 | 0.216890693 | 0.245 | 1 | 8558 | CDK10 |
| 0.210553408 | 0.216890693 | 0.261 | 1 | 26284 | ERAL1 |
| 0.210553408 | 0.216890693 | 0.26 | 1 | 55422 | ZNF331 |
| 0.210553408 | 0.216890693 | 0.261 | 1 | 57705 | WDFY4 |
| 0.210296005 | 0.217463046 | 0.265 | 1 | 6346 | CCL1 |
| 0.210296005 | 0.217463046 | 0.233 | 1 | 55234 | SMU1 |
| 0.210296005 | 0.217463046 | 0.266 | 1 | 58484 | NLRC4 |
| 0.210038602 | 0.218036473 | 0.261 | 1 | 4817 | NIT1 |
| 0.210038602 | 0.218036473 | 0.271 | 1 | 8574 | AKR7A2 |
| 0.210038602 | 0.218036473 | 0.235 | 1 | 9910 | RABGAP1L |
| 0.210038602 | 0.218036473 | 0.252 | 1 | 10225 | CD96 |
| 0.2097812 | 0.218610942 | 0.265 | 1 | 9727 | RAB11FIP3 |
| 0.2097812 | 0.218610942 | 0.258 | 1 | 9949 | AMMECR1 |
| 0.209523812 | 0.219186708 | 0.245 | 1 | 83483 | PLVAP |
| 0.209523812 | 0.219186708 | 0.245 | 1 | 84298 | LLPH |
| 0.209266409 | 0.219763219 | 0.248 | 1 | 285958 | C7orf40 |
| 0.209266409 | 0.219763219 | 0.263 | 1 | 286097 | EFHA2 |
| 0.209266409 | 0.219763219 | 0.261 | 1 | 401399 | RP11-155G14.1 |
| 0.209009007 | 0.220340848 | 0.263 | 1 | 4779 | NFE2L1 |
| 0.209009007 | 0.220340848 | 0.266 | 1 | 5936 | RBM4 |
| 0.209009007 | 0.220340848 | 0.249 | 1 | 10490 | VTI1B |
| 0.209009007 | 0.220340848 | 0.242 | 1 | 81875 | ISG20L2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.182964563 | < 0.001 | 337882 | KRTAP19-1 |
| 0.182883129 | < 0.001 | 130589 | GALM |
| 0.18283911 | < 0.001 | 9205 | ZMYM5 |
| 0.182835758 | < 0.001 | 9230 | RAB11B |
| 0.18278116 | < 0.001 | 23508 | TTC9 |
| 0.182768166 | < 0.001 | 26284 | ERAL1 |
| 0.182742342 | < 0.001 | 116154 | PHACTR3 |
| 0.182737142 | < 0.001 | 645212 | LOC645212 |
| 0.182725444 | < 0.001 | 79184 | BRCC3 |
| 0.182710215 | < 0.001 | 121981 | PPIAP26 |
| 0.182706967 | < 0.001 | 4921 | DDR2 |
| 0.182624489 | < 0.001 | 10006 | ABI1 |
| 0.182560697 | < 0.001 | 341277 | OVCH2 |
| 0.182496995 | < 0.001 | 91298 | C12orf29 |
| 0.182496533 | < 0.001 | 389874 | ZCCHC13 |
| 0.182478786 | < 0.001 | 57590 | WDFY1 |
| 0.182435602 | < 0.001 | 5087 | PBX1 |
| 0.182421207 | < 0.001 | 55057 | AIM1L |
| 0.18235305 | < 0.001 | 5979 | RET |
| 0.182287484 | < 0.001 | 946 | SIGLEC6 |
| 0.182273373 | < 0.001 | 54978 | C2orf18 |
| 0.182225913 | < 0.001 | 7258 | TSPY1 |
| 0.182217643 | < 0.001 | 6665 | SOX15 |
| 0.182169259 | < 0.001 | 4689 | NCF4 |
| 0.182146981 | < 0.001 | 4783 | NFIL3 |
| 0.182145864 | < 0.001 | 129831 | RBM45 |
| 0.182041943 | < 0.001 | 2559 | GABRA6 |
| 0.182039529 | < 0.001 | 65985 | AACS |
| 0.182038695 | < 0.001 | 23531 | MMD |
| 0.181965142 | < 0.001 | 23366 | KIAA0895 |
| 0.181906268 | < 0.001 | 83896 | KRTAP3-1 |
| 0.181898847 | < 0.001 | 6717 | SRI |
| 0.181869954 | < 0.001 | 7571 | ZNF23 |
| 0.181801423 | < 0.001 | 79778 | MICALL2 |
| 0.181755915 | < 0.001 | 285097 | FLJ38379 |
| 0.181724444 | < 0.001 | 55734 | ZFP64 |
| 0.181667417 | < 0.001 | 3215 | HOXB5 |
| 0.181481034 | < 0.001 | 390199 | OR4D9 |
| 0.181456894 | < 0.001 | 285501 | AC021850.1 |
| 0.181366816 | < 0.001 | 5457 | POU4F1 |
| 0.181366071 | < 0.001 | 80343 | SEL1L2 |
| 0.181360409 | < 0.001 | 27340 | UTP20 |
| 0.181346387 | < 0.001 | 23160 | WDR43 |
| 0.181344062 | < 0.001 | 10345 | TRDN |
| 0.181337193 | < 0.001 | 429 | ASCL1 |
| 0.181299761 | < 0.001 | 7097 | TLR2 |
| 0.181287691 | < 0.001 | 9935 | MAFB |
| 0.181219429 | < 0.001 | 1142 | CHRNB3 |
| 0.181205779 | < 0.001 | 123970 | C16orf78 |
| 0.181203276 | < 0.001 | 219479 | OR5R1 |
| 0.181184977 | < 0.001 | 80333 | KCNIP4 |
| 0.181138918 | < 0.001 | 51371 | POMP |
| 0.181136683 | < 0.001 | 3887 | KRT81 |
| 0.181125179 | < 0.001 | 170961 | ANKRD24 |
| 0.18112053 | < 0.001 | 124359 | CDYL2 |
| 0.181056455 | < 0.001 | 6123 | RPL3L |
| 0.18097055 | < 0.001 | 55752 | SEPTIN11 |
| 0.180942506 | < 0.001 | 440712 | C1orf186 |
| 0.180881679 | < 0.001 | 220832 | FABP5P3 |
| 0.180822611 | < 0.001 | 284756 | C20orf197 |
| 0.180799767 | < 0.001 | 4316 | MMP7 |
| 0.180774599 | < 0.001 | 112755 | STX1B |
| 0.180651471 | < 0.001 | 136051 | ZNF786 |
| 0.180644125 | < 0.001 | 957 | ENTPD5 |
| 0.180573463 | < 0.001 | 26219 | OR1J4 |
| 0.180490896 | < 0.001 | 8881 | CDC16 |
| 0.180418462 | < 0.001 | 650 | BMP2 |
| 0.180415586 | < 0.001 | 7264 | TSTA3 |
| 0.180397108 | < 0.001 | 353 | APRT |
| 0.180353463 | < 0.001 | 386683 | KRTAP12-3 |
| 0.180350676 | < 0.001 | 8798 | DYRK4 |
| 0.180347517 | < 0.001 | 83593 | RASSF5 |
| 0.180292264 | < 0.001 | 26515 | FXC1 |
| 0.180256322 | < 0.001 | 222967 | RSPH10B |
| 0.180242762 | < 0.001 | 29092 | LINC00339 |
| 0.180222243 | < 0.001 | 10945 | KDELR1 |
| 0.180139124 | < 0.001 | 9890 | RP4-788L13.1 |
| 0.180093616 | < 0.001 | 728294 | D2HGDH |
| 0.18009083 | < 0.001 | 23013 | SPEN |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.209009007 | 0.220340848 | 0.253 | 1 | 114770 | PGLYRP2 |
| 0.209009007 | 0.220340848 | 0.255 | 1 | 116369 | SLC26A8 |
| 0.209009007 | 0.220340848 | 0.278 | 1 | 200726 | LOC200726 |
| 0.209009007 | 0.220340848 | 0.246 | 1 | 401145 | FAM190A |
| 0.208751604 | 0.22091952 | 0.263 | 1 | 26189 | OR1A2 |
| 0.208751604 | 0.22091952 | 0.238 | 1 | 55534 | MAML3 |
| 0.208751604 | 0.22091952 | 0.251 | 1 | 80108 | ZFP2 |
| 0.208494201 | 0.221499234 | 0.29 | 1 | 23276 | KLHL18 |
| 0.208236814 | 0.222080275 | 0.273 | 1 | 11153 | FICD |
| 0.208236814 | 0.222080275 | 0.25 | 1 | 51773 | RSF1 |
| 0.207722008 | 0.22324492 | 0.278 | 1 | 4696 | NDUFA3 |
| 0.207722008 | 0.22324492 | 0.245 | 1 | 8539 | API5L1 |
| 0.207722008 | 0.22324492 | 0.258 | 1 | 56731 | SLC2A4RG |
| 0.207722008 | 0.22324492 | 0.266 | 1 | 65108 | MARCKSL1 |
| 0.207722008 | 0.22324492 | 0.254 | 1 | 345778 | MTX3 |
| 0.207464606 | 0.223828852 | 0.258 | 1 | 9752 | PCDHA9 |
| 0.207464606 | 0.223828852 | 0.272 | 1 | 53919 | SLCO1C1 |
| 0.207464606 | 0.223828852 | 0.272 | 1 | 100128327 | BET3L |
| 0.207207203 | 0.22441411 | 0.273 | 1 | 1741 | DLG3 |
| 0.207207203 | 0.22441411 | 0.272 | 1 | 55805 | LRP2BP |
| 0.207207203 | 0.22441411 | 0.266 | 1 | 375287 | RBM43 |
| 0.206949815 | 0.225000173 | 0.24 | 1 | 29968 | PSAT1 |
| 0.206949815 | 0.225000173 | 0.245 | 1 | 54881 | TEX10 |
| 0.206692412 | 0.225587204 | 0.248 | 1 | 10589 | DRAP1 |
| 0.206692412 | 0.225587204 | 0.27 | 1 | 23101 | MCF2L2 |
| 0.206692412 | 0.225587204 | 0.255 | 1 | 81892 | C14orf156 |
| 0.206692412 | 0.225587204 | 0.281 | 1 | 84878 | ZBTB45 |
| 0.206692412 | 0.225587204 | 0.268 | 1 | 337979 | KRTAP22-1 |
| 0.20643501 | 0.226175368 | 0.273 | 1 | 51196 | PLCE1 |
| 0.20643501 | 0.226175368 | 0.29 | 1 | 643668 | PSMC1P9 |
| 0.206177592 | 0.226764575 | 0.253 | 1 | 7916 | BAT2 |
| 0.206177592 | 0.226764575 | 0.271 | 1 | 8509 | NDST2 |
| 0.206177592 | 0.226764575 | 0.277 | 1 | 51067 | YARS2 |
| 0.206177592 | 0.226764575 | 0.282 | 1 | 389895 | LOC389895 |
| 0.20592019 | 0.227355123 | 0.239 | 1 | 6598 | SMARCB1 |
| 0.20592019 | 0.227355123 | 0.248 | 1 | 9972 | NUP153 |
| 0.20592019 | 0.227355123 | 0.263 | 1 | 22856 | CHSY1 |
| 0.20592019 | 0.227355123 | 0.284 | 1 | 100093630 | SNHG8 |
| 0.205662802 | 0.227946445 | 0.293 | 1 | 342933 | ZSCAN5B |
| 0.205405399 | 0.228538767 | 0.256 | 1 | 4345 | CD200 |
| 0.205405399 | 0.228538767 | 0.241 | 1 | 6146 | RPL22 |
| 0.205405399 | 0.228538767 | 0.27 | 1 | 51118 | UTP11L |
| 0.205405399 | 0.228538767 | 0.252 | 1 | 79065 | ATG9A |
| 0.205405399 | 0.228538767 | 0.293 | 1 | 84935 | C13orf33 |
| 0.205405399 | 0.228538767 | 0.273 | 1 | 643161 | FAM25A |
| 0.205147997 | 0.229132235 | 0.27 | 1 | 51504 | TRMT112 |
| 0.204890594 | 0.229727 | 0.304 | 1 | 22904 | SBNO2 |
| 0.204890594 | 0.229727 | 0.28 | 1 | 56156 | TEX13B |
| 0.204890594 | 0.229727 | 0.257 | 1 | 57113 | TRPC7 |
| 0.204890594 | 0.229727 | 0.271 | 1 | 121793 | C13orf16 |
| 0.204633191 | 0.23032257 | 0.248 | 1 | 3680 | ITGA9 |
| 0.204633191 | 0.23032257 | 0.258 | 1 | 6602 | SMARCD1 |
| 0.204633191 | 0.23032257 | 0.273 | 1 | 51015 | ISOC1 |
| 0.204633191 | 0.23032257 | 0.305 | 1 | 89832 | CHRFAM7A |
| 0.204633191 | 0.23032257 | 0.273 | 1 | 170463 | SSBP4 |
| 0.204375803 | 0.230919167 | 0.284 | 1 | 196 | AHR |
| 0.204375803 | 0.230919167 | 0.29 | 1 | 6868 | ADAM17 |
| 0.204375803 | 0.230919167 | 0.266 | 1 | 11051 | NUDT21 |
| 0.204375803 | 0.230919167 | 0.283 | 1 | 23216 | TBC1D1 |
| 0.204375803 | 0.230919167 | 0.268 | 1 | 284382 | ACTL9 |
| 0.204375803 | 0.230919167 | 0.286 | 1 | 100131755 | ARMCX4 |
| 0.204118401 | 0.231516823 | 0.268 | 1 | 55666 | NPLOC4 |
| 0.204118401 | 0.231516823 | 0.28 | 1 | 388743 | CAPN8 |
| 0.204118401 | 0.231516823 | 0.291 | 1 | 392392 | OR1K1 |
| 0.203860998 | 0.232115835 | 0.256 | 1 | 4306 | NR3C2 |
| 0.203860998 | 0.232115835 | 0.28 | 1 | 26986 | PABPCP5 |
| 0.203860998 | 0.232115835 | 0.277 | 1 | 50626 | CYHR1 |
| 0.203603595 | 0.232715636 | 0.3 | 1 | 5576 | PRKAR2A |
| 0.203603595 | 0.232715636 | 0.272 | 1 | 9588 | PRDX6 |
| 0.203603595 | 0.232715636 | 0.296 | 1 | 51728 | POLR3K |
| 0.203603595 | 0.232715636 | 0.28 | 1 | 196403 | DTX3 |
| 0.203603595 | 0.232715636 | 0.242 | 1 | 642585 | VDAC1P1 |
| 0.203346193 | 0.233316481 | 0.266 | 1 | 6184 | RPN1 |
| 0.203346193 | 0.233316481 | 0.258 | 1 | 51619 | UBE2D4 |
| 0.203346193 | 0.233316481 | 0.255 | 1 | 55647 | RAB20 |
| 0.203346193 | 0.233316481 | 0.277 | 1 | 221662 | RBM24 |
| 0.203088805 | 0.233918414 | 0.271 | 1 | 3073 | HEXA |
| 0.203088805 | 0.233918414 | 0.278 | 1 | 10621 | POLR3F |
| 0.203088805 | 0.233918414 | 0.28 | 1 | 92749 | C2orf39 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.18005006 | < 0.001 | 56947 | MFF |
| 0.179994717 | < 0.001 | 159091 | FAM122C |
| 0.179971308 | < 0.001 | 64386 | MMP25 |
| 0.179913461 | < 0.001 | 29785 | CYP2S1 |
| 0.179904178 | < 0.001 | 56971 | CEACAM19 |
| 0.179899707 | < 0.001 | 63905 | MANBAL |
| 0.179805174 | < 0.001 | 23363 | OBSL1 |
| 0.179734141 | < 0.001 | 6347 | CCL2 |
| 0.179649726 | < 0.001 | 4004 | LMO1 |
| 0.179520071 | < 0.001 | 440087 | C12orf69 |
| 0.179505691 | < 0.001 | 554251 | FBXO48 |
| 0.179453313 | < 0.001 | 51154 | MRTO4 |
| 0.179375201 | < 0.001 | 6733 | SRPK2 |
| 0.17933704 | < 0.001 | 285016 | FAM150B |
| 0.179319113 | < 0.001 | 8790 | FPGT |
| 0.179303333 | < 0.001 | 55005 | RMND1 |
| 0.179170161 | < 0.001 | 10642 | IGF2BP1 |
| 0.179130226 | < 0.001 | 6430 | SFRS5 |
| 0.179046363 | < 0.001 | 401067 | IQCF3 |
| 0.179034665 | < 0.001 | 282679 | AQP11 |
| 0.179023892 | < 0.001 | 10641 | TUSC4 |
| 0.178969666 | < 0.001 | 55768 | NGLY1 |
| 0.178954333 | < 0.001 | 5593 | PRKG2 |
| 0.178945616 | < 0.001 | 29895 | MYLPF |
| 0.178914413 | < 0.001 | 5475 | PPEF1 |
| 0.178896949 | < 0.001 | 5957 | RCVRN |
| 0.178796366 | < 0.001 | 128 | ADH5 |
| 0.17879191 | < 0.001 | 150372 | NFAM1 |
| 0.178763315 | < 0.001 | 442444 | FAM47C |
| 0.178744376 | < 0.001 | 83648 | FAM167A |
| 0.178738058 | < 0.001 | 114131 | UCN3 |
| 0.178718463 | < 0.001 | 10592 | SMC2 |
| 0.178713262 | < 0.001 | 7095 | SEC62 |
| 0.178691626 | < 0.001 | 256297 | PTF1A |
| 0.178664044 | < 0.001 | 84285 | EIF1AD |
| 0.178598017 | < 0.001 | 55605 | KIF21A |
| 0.178555474 | < 0.001 | 11273 | ATXN2L |
| 0.178528458 | < 0.001 | 388228 | SBK1 |
| 0.178505704 | < 0.001 | 1185 | CLCN6 |
| 0.178477377 | < 0.001 | 83444 | INO80B |
| 0.178431869 | < 0.001 | 440498 | AC090360.1 |
| 0.178423613 | < 0.001 | 151174 | AC016757.1 |
| 0.178410426 | < 0.001 | 27314 | RAB30 |
| 0.178401783 | < 0.001 | 6634 | SNRPD3 |
| 0.178379133 | < 0.001 | 10570 | DPYSL4 |
| 0.178352565 | < 0.001 | 566 | AZU1 |
| 0.178338364 | < 0.001 | 4841 | NONO |
| 0.178322479 | < 0.001 | 96459 | FNIP1 |
| 0.178274378 | < 0.001 | 83856 | FSD1L |
| 0.178272799 | < 0.001 | 6464 | SHC1 |
| 0.178262487 | < 0.001 | 84206 | MEX3B |
| 0.178247631 | < 0.001 | 80256 | KIAA1539 |
| 0.178142875 | < 0.001 | 414260 | C10orf136 |
| 0.178124204 | < 0.001 | 221468 | TMEM217 |
| 0.178059489 | < 0.001 | 56143 | PCDHA5 |
| 0.178014994 | < 0.001 | 390916 | NUDT19 |
| 0.177999213 | < 0.001 | 51076 | CUTC |
| 0.177938014 | < 0.001 | 3183 | HNRNPC |
| 0.177909136 | < 0.001 | 5148 | PDE6G |
| 0.177891865 | < 0.001 | 57576 | KIF17 |
| 0.177834287 | < 0.001 | 677 | ZFP36L1 |
| 0.177769095 | < 0.001 | 22800 | RRAS2 |
| 0.177766487 | < 0.001 | 5711 | PSMD5 |
| 0.177739099 | < 0.001 | 509 | ATP5C1 |
| 0.1777208 | < 0.001 | 23141 | ANKLE2 |
| 0.17768839 | < 0.001 | 7905 | REEP5 |
| 0.177682996 | < 0.001 | 285190 | RGPD4 |
| 0.177640289 | < 0.001 | 388199 | AL023882.1 |
| 0.177633882 | < 0.001 | 6891 | TAP2 |
| 0.177624583 | < 0.001 | 94234 | FOXQ1 |
| 0.177461982 | < 0.001 | 6656 | SOX1 |
| 0.177452505 | < 0.001 | 11116 | FGFR1OP |
| 0.177415088 | < 0.001 | 65987 | KCTD14 |
| 0.177402824 | < 0.001 | 9957 | HS3ST1 |
| 0.177391216 | < 0.001 | 79727 | LIN28 |
| 0.177380532 | < 0.001 | 187 | APLNR |
| 0.177378684 | < 0.001 | 6898 | TAT |
| 0.177336708 | < 0.001 | 54806 | AHI1 |
| 0.177324906 | < 0.001 | 153579 | BTNL9 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.203088805 | 0.233918414 | 0.277 | 1 | 154796 | AMOT |
| 0.203088805 | 0.233918414 | 0.264 | 1 | 160622 | GRASP |
| 0.202831402 | 0.234521344 | 0.279 | 1 | 10477 | UBE2E3 |
| 0.202831402 | 0.234521344 | 0.251 | 1 | 51281 | ANKMY1 |
| 0.202574 | 0.235125706 | 0.276 | 1 | 10564 | ARFGEF2 |
| 0.202574 | 0.235125706 | 0.252 | 1 | 23517 | SKIV2L2 |
| 0.202574 | 0.235125706 | 0.276 | 1 | 23588 | KLHDC2 |
| 0.202574 | 0.235125706 | 0.277 | 1 | 54103 | PION |
| 0.202574 | 0.235125706 | 0.296 | 1 | 219771 | CCNY |
| 0.202316597 | 0.235730797 | 0.267 | 1 | 5023 | P2RX1 |
| 0.202316597 | 0.235730797 | 0.268 | 1 | 146845 | WDR16 |
| 0.202316597 | 0.235730797 | 0.291 | 1 | 440356 | AC120114.2 |
| 0.202059194 | 0.236336991 | 0.252 | 1 | 55801 | IL26 |
| 0.202059194 | 0.236336991 | 0.255 | 1 | 147710 | AC138472.2 |
| 0.201801807 | 0.236944243 | 0.287 | 1 | 3358 | HTR2C |
| 0.201801807 | 0.236944243 | 0.271 | 1 | 4651 | MYO10 |
| 0.201801807 | 0.236944243 | 0.286 | 1 | 57579 | FAM135A |
| 0.201544404 | 0.237552807 | 0.284 | 1 | 1356 | CP |
| 0.201544404 | 0.237552807 | 0.256 | 1 | 3868 | KRT16 |
| 0.201544404 | 0.237552807 | 0.263 | 1 | 23082 | PPRC1 |
| 0.201544404 | 0.237552807 | 0.266 | 1 | 57596 | BEGAIN |
| 0.201287001 | 0.238162175 | 0.283 | 1 | 5154 | PDGFA |
| 0.201287001 | 0.238162175 | 0.279 | 1 | 9079 | LDB2 |
| 0.201287001 | 0.238162175 | 0.295 | 1 | 9703 | KIAA0100 |
| 0.201029599 | 0.238772601 | 0.291 | 1 | 10293 | TRAIP |
| 0.201029599 | 0.238772601 | 0.307 | 1 | 169981 | SPIN3 |
| 0.200772196 | 0.239384115 | 0.278 | 1 | 4645 | MYO5B |
| 0.200772196 | 0.239384115 | 0.274 | 1 | 6334 | SCN8A |
| 0.200772196 | 0.239384115 | 0.26 | 1 | 9263 | STK17A |
| 0.200772196 | 0.239384115 | 0.292 | 1 | 9343 | EFTUD2 |
| 0.200772196 | 0.239384115 | 0.293 | 1 | 9941 | EXOG |
| 0.200772196 | 0.239384115 | 0.265 | 1 | 84750 | FUT10 |
| 0.200772196 | 0.239384115 | 0.31 | 1 | 167681 | PRSS23 |
| 0.200772196 | 0.239384115 | 0.28 | 1 | 200420 | ALMS1P |
| 0.200514808 | 0.23999697 | 0.306 | 1 | 2782 | GNB1 |
| 0.200514808 | 0.23999697 | 0.31 | 1 | 6447 | SCG5 |
| 0.200514808 | 0.23999697 | 0.288 | 1 | 9611 | NCOR1 |
| 0.200514808 | 0.23999697 | 0.266 | 1 | 81691 | AC004381.2 |
| 0.200257406 | 0.24061057 | 0.298 | 1 | 2182 | ACSL4 |
| 0.200257406 | 0.24061057 | 0.312 | 1 | 7556 | ZNF10 |
| 0.200257406 | 0.24061057 | 0.291 | 1 | 10487 | CAP1 |
| 0.200257406 | 0.24061057 | 0.269 | 1 | 25797 | QPCT |
| 0.200257406 | 0.24061057 | 0.28 | 1 | 59338 | PLEKHA1 |
| 0.200257406 | 0.24061057 | 0.292 | 1 | 219968 | OR5B21 |
| 0.200000003 | 0.241225272 | 0.295 | 1 | 2495 | FTHL16 |
| 0.200000003 | 0.241225272 | 0.273 | 1 | 8774 | NAPG |
| 0.200000003 | 0.241225272 | 0.286 | 1 | 23165 | NUP205 |
| 0.200000003 | 0.241225272 | 0.287 | 1 | 60492 | CCDC90B |
| 0.1997426 | 0.241841048 | 0.272 | 1 | 6640 | SNTA1 |
| 0.1997426 | 0.241841048 | 0.282 | 1 | 125150 | ZSWIM7 |
| 0.1997426 | 0.241841048 | 0.296 | 1 | 442249 | LOC442249 |
| 0.199485198 | 0.242457896 | 0.293 | 1 | 64919 | BCL11B |
| 0.199227795 | 0.243076101 | 0.258 | 1 | 10250 | SRRM1 |
| 0.198970392 | 0.243695021 | 0.287 | 1 | 4285 | MIPEP |
| 0.198970392 | 0.243695021 | 0.281 | 1 | 9320 | TRIP12 |
| 0.198970392 | 0.243695021 | 0.284 | 1 | 23209 | MLC1 |
| 0.198970392 | 0.243695021 | 0.291 | 1 | 55998 | NXF5 |
| 0.198970392 | 0.243695021 | 0.284 | 1 | 57538 | ALPK3 |
| 0.198970392 | 0.243695021 | 0.291 | 1 | 317751 | MESTIT1 |
| 0.198970392 | 0.243695021 | 0.303 | 1 | 100506049 | AC005014.1 |
| 0.19871299 | 0.244315073 | 0.236 | 1 | 58487 | CREBZF |
| 0.198455587 | 0.244936213 | 0.286 | 1 | 56255 | TMX4 |
| 0.198198184 | 0.245558679 | 0.291 | 1 | 1652 | DDT |
| 0.198198184 | 0.245558679 | 0.276 | 1 | 6749 | SSRP1 |
| 0.198198184 | 0.245558679 | 0.294 | 1 | 8790 | FPGT |
| 0.198198184 | 0.245558679 | 0.267 | 1 | 9945 | GFPT2 |
| 0.198198184 | 0.245558679 | 0.288 | 1 | 90809 | TMEM55B |
| 0.198198184 | 0.245558679 | 0.283 | 1 | 387923 | SERP2 |
| 0.198198184 | 0.245558679 | 0.276 | 1 | 728833 | FAM72D |
| 0.197940797 | 0.24618195 | 0.254 | 1 | 84148 | MYST1 |
| 0.197683394 | 0.246806219 | 0.301 | 1 | 3631 | INPP4A |
| 0.197683394 | 0.246806219 | 0.277 | 1 | 57799 | RAB40C |
| 0.197683394 | 0.246806219 | 0.29 | 1 | 80757 | TMEM121 |
| 0.197683394 | 0.246806219 | 0.277 | 1 | 100129566 | LOC100129566 |
| 0.197425991 | 0.247431636 | 0.281 | 1 | 1479 | CSTF3 |
| 0.197425991 | 0.247431636 | 0.268 | 1 | 51105 | PHF20L1 |
| 0.197168589 | 0.248058408 | 0.292 | 1 | 1961 | EGR4 |
| 0.197168589 | 0.248058408 | 0.305 | 1 | 8671 | SLC4A4 |
| 0.197168589 | 0.248058408 | 0.262 | 1 | 10609 | AC130686.2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.177314416 | < 0.001 | 3484 | IGFBP1 |
| 0.177295566 | < 0.001 | 286183 | NKAIN3 |
| 0.17724672 | < 0.001 | 85406 | DNAJC14 |
| 0.177216068 | < 0.001 | 90161 | HS6ST2 |
| 0.177212909 | < 0.001 | 201243 | C17orf74 |
| 0.17715849 | < 0.001 | 29124 | LGALS13 |
| 0.177126557 | < 0.001 | 115273 | RAB42 |
| 0.177084953 | < 0.001 | 10740 | RFPL1-AS1 |
| 0.177054018 | < 0.001 | 54808 | DYM |
| 0.176978335 | < 0.001 | 100652929 | AC105337.1 |
| 0.176924661 | < 0.001 | 79748 | LMAN1L |
| 0.176896617 | < 0.001 | 2251 | FGF6 |
| 0.176889002 | < 0.001 | 389873 | SEPHS1P4 |
| 0.176845074 | < 0.001 | 54737 | MPHOSPH8 |
| 0.176773652 | < 0.001 | 388015 | RTL1 |
| 0.176755831 | < 0.001 | 5604 | MAP2K1 |
| 0.176715612 | < 0.001 | 64781 | CERK |
| 0.176702052 | < 0.001 | 391109 | OR10K1 |
| 0.176686645 | < 0.001 | 347365 | ITIH5L |
| 0.176664636 | < 0.001 | 84181 | CHD6 |
| 0.176626191 | < 0.001 | 64699 | TMPRSS3 |
| 0.176482618 | < 0.001 | 481 | ATP1B1 |
| 0.17644529 | < 0.001 | 57733 | GBA3 |
| 0.17642644 | < 0.001 | 131076 | CCDC58 |
| 0.176362634 | < 0.001 | 728431 | RP11-422J8.1 |
| 0.176353633 | < 0.001 | 9793 | CKAP5 |
| 0.17624405 | < 0.001 | 57758 | SCUBE2 |
| 0.176109478 | < 0.001 | 27124 | INPP5J |
| 0.17610772 | < 0.001 | 127665 | ZNF648 |
| 0.176071599 | < 0.001 | 442038 | SULT1C3 |
| 0.176061198 | < 0.001 | 5651 | PRSS7 |
| 0.176026002 | < 0.001 | 26112 | CCDC69 |
| 0.175875455 | < 0.001 | 119467 | CLRN3 |
| 0.175862268 | < 0.001 | 2707 | GJB3 |
| 0.175861344 | < 0.001 | 4627 | MYH9 |
| 0.175849825 | < 0.001 | 100132911 | DPH3P1 |
| 0.175830513 | < 0.001 | 440956 | IQCF6 |
| 0.175808504 | < 0.001 | 730051 | ZNF814 |
| 0.175807759 | < 0.001 | 7429 | VIL1 |
| 0.17577675 | < 0.001 | 4901 | NRL |
| 0.175768659 | < 0.001 | 5770 | PTPN1 |
| 0.17576021 | < 0.001 | 286467 | RP11-453F18__B.1 |
| 0.175750643 | < 0.001 | 140739 | UBE2F |
| 0.175736532 | < 0.001 | 23039 | XPO7 |
| 0.175682768 | < 0.001 | 100131434 | LOC100131434 |
| 0.17567496 | < 0.001 | 3375 | IAPP |
| 0.1756576 | < 0.001 | 26279 | PLA2G2D |
| 0.175580516 | < 0.001 | 84968 | PNMA6A |
| 0.175539836 | < 0.001 | 2560 | GABRB1 |
| 0.175524607 | < 0.001 | 84905 | ZNF341 |
| 0.175508738 | < 0.001 | 84247 | LDOC1L |
| 0.175431743 | < 0.001 | 54540 | AC145098.2 |
| 0.175363585 | < 0.001 | 101 | ADAM8 |
| 0.175313711 | < 0.001 | 23065 | KIAA0090 |
| 0.175307497 | < 0.001 | 144124 | OR10A5 |
| 0.175304338 | < 0.001 | 10590 | SCGN |
| 0.175272107 | < 0.001 | 151613 | TTC14 |
| 0.175259382 | < 0.001 | 9355 | LHX2 |
| 0.175240532 | < 0.001 | 114294 | LACTB |
| 0.175237745 | < 0.001 | 222171 | PRR15 |
| 0.175233841 | < 0.001 | 197358 | NLRC3 |
| 0.175218895 | < 0.001 | 389762 | FAM75D3 |
| 0.175157785 | < 0.001 | 286333 | LINC00256A |
| 0.175133094 | < 0.001 | 51308 | REEP2 |
| 0.175101519 | < 0.001 | 79102 | RNF26 |
| 0.175094828 | < 0.001 | 5723 | PSPH |
| 0.175087392 | < 0.001 | 84960 | KIAA1984 |
| 0.175036132 | < 0.001 | 163720 | CYP4Z2P |
| 0.175024256 | < 0.001 | 79622 | SNRNP25 |
| 0.174951077 | < 0.001 | 10987 | COPS5 |
| 0.174928412 | < 0.001 | 8471 | IRS4 |
| 0.174890622 | < 0.001 | 54536 | EXOC6 |
| 0.174870923 | < 0.001 | 121599 | SPIC |
| 0.174870923 | < 0.001 | 390326 | OR6C76 |
| 0.174756795 | < 0.001 | 829 | CAPZA1 |
| 0.174671724 | < 0.001 | 8712 | PAGE1 |
| 0.174656779 | < 0.001 | 133690 | CAPSL |
| 0.174628362 | < 0.001 | 7005 | TEAD3 |
| 0.174577743 | < 0.001 | 389856 | USP27X |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.197168589 | 0.248058408 | 0.273 | 1 | 83862 | TMEM120A |
| 0.197168589 | 0.248058408 | 0.311 | 1 | 84084 | RAB6C |
| 0.197168589 | 0.248058408 | 0.285 | 1 | 202151 | RANBP3L |
| 0.196911186 | 0.248685941 | 0.271 | 1 | 10440 | TIMM17A |
| 0.196653798 | 0.249314591 | 0.33 | 1 | 2071 | ERCC3 |
| 0.196653798 | 0.249314591 | 0.304 | 1 | 2865 | AC002511.1 |
| 0.196653798 | 0.249314591 | 0.275 | 1 | 55773 | TBC1D23 |
| 0.196396396 | 0.24994421 | 0.249 | 1 | 22827 | PUF60 |
| 0.196396396 | 0.24994421 | 0.3 | 1 | 644578 | LARP1BP1 |
| 0.196138993 | 0.250574976 | 0.265 | 1 | 10539 | GLRX3 |
| 0.196138993 | 0.250574976 | 0.298 | 1 | 25902 | MTHFD1L |
| 0.196138993 | 0.250574976 | 0.292 | 1 | 54504 | CPVL |
| 0.196138993 | 0.250574976 | 0.273 | 1 | 204801 | NLRP11 |
| 0.19588159 | 0.251207113 | 0.276 | 1 | 2161 | F12 |
| 0.19588159 | 0.251207113 | 0.287 | 1 | 10765 | KDM5B |
| 0.195624188 | 0.251840025 | 0.301 | 1 | 57016 | AKR1B10 |
| 0.195624188 | 0.251840025 | 0.31 | 1 | 57484 | RNF150 |
| 0.195624188 | 0.251840025 | 0.274 | 1 | 401115 | C4orf48 |
| 0.1953668 | 0.25247401 | 0.292 | 1 | 28951 | TRIB2 |
| 0.1953668 | 0.25247401 | 0.294 | 1 | 55012 | PPP2R3C |
| 0.195109397 | 0.253109038 | 0.288 | 1 | 3615 | IMPDH2 |
| 0.195109397 | 0.253109038 | 0.294 | 1 | 5534 | PPP3R1 |
| 0.195109397 | 0.253109038 | 0.289 | 1 | 374928 | ZNF773 |
| 0.195109397 | 0.253109038 | 0.273 | 1 | 375519 | GJB7 |
| 0.195109397 | 0.253109038 | 0.298 | 1 | 728492 | SERF1B |
| 0.194851995 | 0.253745437 | 0.295 | 1 | 1020 | CDK5 |
| 0.194851995 | 0.253745437 | 0.298 | 1 | 23242 | COBL |
| 0.194851995 | 0.253745437 | 0.289 | 1 | 642929 | LOC642929 |
| 0.194594592 | 0.25438267 | 0.3 | 1 | 3062 | HCRTR2 |
| 0.194594592 | 0.25438267 | 0.309 | 1 | 3939 | LDHA |
| 0.194594592 | 0.25438267 | 0.295 | 1 | 50485 | SMARCAL1 |
| 0.194337189 | 0.255020976 | 0.299 | 1 | 3354 | HTR1E |
| 0.194337189 | 0.255020976 | 0.283 | 1 | 118813 | ZFYVE27 |
| 0.194337189 | 0.255020976 | 0.298 | 1 | 127003 | C1orf194 |
| 0.194337189 | 0.255020976 | 0.288 | 1 | 645455 | CEP170L |
| 0.194079801 | 0.255660295 | 0.289 | 1 | 2281 | FKBP1B |
| 0.194079801 | 0.255660295 | 0.306 | 1 | 5303 | PIN4 |
| 0.194079801 | 0.255660295 | 0.313 | 1 | 6059 | ABCE1 |
| 0.194079801 | 0.255660295 | 0.323 | 1 | 140838 | NANP |
| 0.193822399 | 0.256300986 | 0.309 | 1 | 3508 | IGHMBP2 |
| 0.193822399 | 0.256300986 | 0.282 | 1 | 120775 | OR2D3 |
| 0.193822399 | 0.256300986 | 0.299 | 1 | 147179 | WIPF2 |
| 0.193564996 | 0.256942511 | 0.264 | 1 | 2010 | EMD |
| 0.193564996 | 0.256942511 | 0.295 | 1 | 3575 | IL7R |
| 0.193564996 | 0.256942511 | 0.285 | 1 | 10726 | NUDC |
| 0.193564996 | 0.256942511 | 0.29 | 1 | 127829 | ARL8A |
| 0.193564996 | 0.256942511 | 0.287 | 1 | 128178 | EDARADD |
| 0.193307593 | 0.257585108 | 0.319 | 1 | 901 | CCNG2 |
| 0.193307593 | 0.257585108 | 0.299 | 1 | 50853 | VILL |
| 0.193307593 | 0.257585108 | 0.293 | 1 | 221322 | C6orf170 |
| 0.192792803 | 0.258873492 | 0.33 | 1 | 2271 | FH |
| 0.192792803 | 0.258873492 | 0.322 | 1 | 4084 | MXD1 |
| 0.192792803 | 0.258873492 | 0.3 | 1 | 9914 | ATP2C2 |
| 0.192792803 | 0.258873492 | 0.295 | 1 | 23481 | PES1 |
| 0.192792803 | 0.258873492 | 0.294 | 1 | 65250 | C5orf42 |
| 0.192792803 | 0.258873492 | 0.316 | 1 | 100505741 | SPATA1 |
| 0.1925354 | 0.259519547 | 0.31 | 1 | 3670 | ISL1 |
| 0.192277983 | 0.260166466 | 0.291 | 1 | 1890 | TYMP |
| 0.192277983 | 0.260166466 | 0.275 | 1 | 6158 | RPL28 |
| 0.192277983 | 0.260166466 | 0.305 | 1 | 84128 | WDR75 |
| 0.192277983 | 0.260166466 | 0.284 | 1 | 119774 | OR52K2 |
| 0.192277983 | 0.260166466 | 0.293 | 1 | 344657 | LRRIQ4 |
| 0.192277983 | 0.260166466 | 0.279 | 1 | 100286979 | ANAPC1P1 |
| 0.19202058 | 0.260814458 | 0.297 | 1 | 5199 | CFP |
| 0.19202058 | 0.260814458 | 0.298 | 1 | 25796 | PGLS |
| 0.19202058 | 0.260814458 | 0.309 | 1 | 27316 | RBMX |
| 0.19202058 | 0.260814458 | 0.3 | 1 | 51085 | MLXIPL |
| 0.19202058 | 0.260814458 | 0.295 | 1 | 94033 | FTMT |
| 0.19202058 | 0.260814458 | 0.319 | 1 | 132884 | EVC2 |
| 0.191763178 | 0.261463493 | 0.316 | 1 | 5568 | PRKACG |
| 0.191763178 | 0.261463493 | 0.314 | 1 | 8907 | AP1M1 |
| 0.191763178 | 0.261463493 | 0.335 | 1 | 10924 | SMPDL3A |
| 0.191763178 | 0.261463493 | 0.289 | 1 | 51517 | NCKIPSD |
| 0.191763178 | 0.261463493 | 0.295 | 1 | 55737 | VPS35 |
| 0.191763178 | 0.261463493 | 0.308 | 1 | 149345 | SHISA4 |
| 0.19150579 | 0.262113869 | 0.298 | 1 | 245 | ALOX12P2 |
| 0.19150579 | 0.262113869 | 0.309 | 1 | 126068 | ZNF441 |
| 0.191248387 | 0.26276508 | 0.317 | 1 | 84262 | PSMG3 |
| 0.191248387 | 0.26276508 | 0.292 | 1 | 284307 | ZIK1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.174574316 | < 0.001 | 29034 | CPS1-IT1 |
| 0.17449677 | < 0.001 | 2555 | GABRA2 |
| 0.174485996 | < 0.001 | 6586 | SLIT3 |
| 0.174445137 | < 0.001 | 163126 | EID2 |
| 0.174435481 | < 0.001 | 6157 | RPL27A |
| 0.174365461 | < 0.001 | 9887 | SMG7 |
| 0.174362674 | < 0.001 | 27345 | KCNMB4 |
| 0.174353018 | < 0.001 | 654466 | KGFLP2 |
| 0.174351528 | < 0.001 | 11252 | PACSIN2 |
| 0.174322188 | < 0.001 | 283989 | TSEN54 |
| 0.174294323 | < 0.001 | 120787 | OR52W1 |
| 0.174292654 | < 0.001 | 6615 | SNAI1 |
| 0.174201831 | < 0.001 | 81606 | LBH |
| 0.174149632 | < 0.001 | 22908 | SACM1L |
| 0.174086019 | < 0.001 | 27185 | DISC1 |
| 0.174073771 | < 0.001 | 84239 | ATP13A4 |
| 0.174055845 | < 0.001 | 100290481 | CYAT1 |
| 0.174012572 | < 0.001 | 5075 | PAX1 |
| 0.173948124 | < 0.001 | 23543 | RBM9 |
| 0.173938096 | < 0.001 | 26224 | FBXL3 |
| 0.173905402 | < 0.001 | 3199 | HOXA2 |
| 0.173869178 | < 0.001 | 55664 | CDC37L1 |
| 0.173826098 | < 0.001 | 26492 | OR8G2 |
| 0.173759595 | < 0.001 | 140771 | AL135932.1 |
| 0.17374827 | < 0.001 | 2150 | F2RL1 |
| 0.17373769 | < 0.001 | 100128511 | RP11-565H13.2 |
| 0.17368196 | < 0.001 | 55823 | VPS11 |
| 0.173600614 | < 0.001 | 23023 | TMCC1 |
| 0.173592165 | < 0.001 | 116039 | OSR2 |
| 0.173551217 | < 0.001 | 4100 | MAGEA1 |
| 0.173538759 | < 0.001 | 50640 | PNPLA8 |
| 0.173503295 | < 0.001 | 8777 | MPDZ |
| 0.173490658 | < 0.001 | 145407 | C14orf37 |
| 0.173393056 | < 0.001 | 22887 | FOXJ3 |
| 0.173371971 | < 0.001 | 148753 | FAM163A |
| 0.173098773 | < 0.001 | 55201 | MAP1S |
| 0.173060685 | < 0.001 | 5912 | RAP2B |
| 0.172973394 | < 0.001 | 57538 | ALPK3 |
| 0.172919348 | < 0.001 | 9262 | STK17B |
| 0.172884986 | < 0.001 | 2892 | GRIA3 |
| 0.172850728 | < 0.001 | 284390 | ZNF763 |
| 0.172844127 | < 0.001 | 386679 | KRTAP10-2 |
| 0.172829643 | < 0.001 | 664 | BNIP3 |
| 0.172821462 | < 0.001 | 22859 | LPHN1 |
| 0.172761381 | < 0.001 | 57452 | GALNTL1 |
| 0.172761008 | < 0.001 | 285600 | C5orf36 |
| 0.172748655 | < 0.001 | 26579 | MYEOV |
| 0.172744483 | < 0.001 | 140576 | S100A16 |
| 0.172741696 | < 0.001 | 51778 | MYOZ2 |
| 0.172707796 | < 0.001 | 9852 | EPM2AIP1 |
| 0.172695175 | < 0.001 | 7288 | TULP2 |
| 0.172650039 | < 0.001 | 50861 | STMN3 |
| 0.172613174 | < 0.001 | 5828 | PXMP3 |
| 0.172462076 | < 0.001 | 400668 | PRSSL1 |
| 0.172451392 | < 0.001 | 3460 | IFNGR2 |
| 0.17243357 | < 0.001 | 51248 | PDZD11 |
| 0.172357231 | < 0.001 | 5965 | RECQL |
| 0.172329277 | < 0.001 | 11044 | POLS |
| 0.172307551 | < 0.001 | 5989 | RFX1 |
| 0.172215328 | < 0.001 | 29058 | C20orf30 |
| 0.172124788 | < 0.001 | 392376 | OR13C2 |
| 0.172103986 | < 0.001 | 353116 | RILPL1 |
| 0.172086626 | < 0.001 | 55735 | DNAJC11 |
| 0.172074914 | < 0.001 | 151254 | ALS2CR11 |
| 0.17202951 | < 0.001 | 125950 | RAVER1 |
| 0.171920851 | < 0.001 | 84065 | TMEM222 |
| 0.171896055 | < 0.001 | 1805 | DPT |
| 0.171861976 | < 0.001 | 80775 | TMEM177 |
| 0.17181462 | < 0.001 | 9318 | COPS2 |
| 0.171801984 | < 0.001 | 121355 | GTSF1 |
| 0.171708196 | < 0.001 | 57479 | PRR12 |
| 0.171702623 | < 0.001 | 390431 | OR4K2 |
| 0.171602502 | < 0.001 | 10440 | TIMM17A |
| 0.171592295 | < 0.001 | 148930 | KNCN |
| 0.171579942 | < 0.001 | 57630 | SH3RF1 |
| 0.171573535 | < 0.001 | 645104 | CLRN2 |
| 0.171570003 | < 0.001 | 10298 | PAK4 |
| 0.17156592 | < 0.001 | 150368 | FAM109B |
| 0.171492651 | < 0.001 | 9649 | RALGPS1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.190990984 | 0.263417393 | 0.301 | 1 | 158358 | KIAA2026 |
| 0.190990984 | 0.263417393 | 0.294 | 1 | 440043 | PGAM1P8 |
| 0.190733582 | 0.264070719 | 0.298 | 1 | 9406 | ZRANB2 |
| 0.190733582 | 0.264070719 | 0.305 | 1 | 10016 | PDCD6 |
| 0.190733582 | 0.264070719 | 0.287 | 1 | 10190 | TXNDC9 |
| 0.190733582 | 0.264070719 | 0.303 | 1 | 25975 | EGFL6 |
| 0.190733582 | 0.264070719 | 0.299 | 1 | 170393 | C10orf91 |
| 0.190733582 | 0.264070719 | 0.272 | 1 | 389668 | XKR9 |
| 0.190476179 | 0.264725506 | 0.286 | 1 | 23397 | NCAPH |
| 0.190476179 | 0.264725506 | 0.301 | 1 | 93611 | FBXO44 |
| 0.190218791 | 0.265380949 | 0.303 | 1 | 8504 | PEX3 |
| 0.190218791 | 0.265380949 | 0.321 | 1 | 79758 | DHRS12 |
| 0.189961389 | 0.266037583 | 0.307 | 1 | 7476 | WNT7A |
| 0.189961389 | 0.266037583 | 0.315 | 1 | 23229 | ARHGEF9 |
| 0.189961389 | 0.266037583 | 0.293 | 1 | 221477 | C6orf89 |
| 0.189961389 | 0.266037583 | 0.288 | 1 | 342357 | ZKSCAN2 |
| 0.189703986 | 0.266695231 | 0.321 | 1 | 3852 | KRT5 |
| 0.189703986 | 0.266695231 | 0.301 | 1 | 9349 | RPL23 |
| 0.189703986 | 0.266695231 | 0.299 | 1 | 55092 | TMEM51 |
| 0.189446583 | 0.267354012 | 0.316 | 1 | 3841 | KPNA5 |
| 0.189189181 | 0.268014163 | 0.324 | 1 | 400 | ARL1 |
| 0.189189181 | 0.268014163 | 0.32 | 1 | 51350 | KRT76 |
| 0.188931793 | 0.268675059 | 0.321 | 1 | 658 | BMPR1B |
| 0.18867439 | 0.269337058 | 0.315 | 1 | 79144 | PPDPF |
| 0.18867439 | 0.269337058 | 0.321 | 1 | 84254 | CAMKK1 |
| 0.18867439 | 0.269337058 | 0.35 | 1 | 84944 | MAEL |
| 0.188159585 | 0.270664603 | 0.322 | 1 | 10436 | EMG1 |
| 0.188159585 | 0.270664603 | 0.331 | 1 | 22998 | LIMCH1 |
| 0.187902182 | 0.27132988 | 0.312 | 1 | 466 | ATF1 |
| 0.187902182 | 0.27132988 | 0.31 | 1 | 3745 | KCNB1 |
| 0.187902182 | 0.27132988 | 0.318 | 1 | 10018 | BCL2L11 |
| 0.187902182 | 0.27132988 | 0.294 | 1 | 80094 | FLJ14107 |
| 0.187902182 | 0.27132988 | 0.318 | 1 | 440278 | CATSPER2P1 |
| 0.187644795 | 0.27199617 | 0.299 | 1 | 1154 | CISH |
| 0.187644795 | 0.27199617 | 0.339 | 1 | 1211 | CLTA |
| 0.187644795 | 0.27199617 | 0.308 | 1 | 6499 | SKIV2L |
| 0.187387392 | 0.272663563 | 0.31 | 1 | 874 | CBR3 |
| 0.187387392 | 0.272663563 | 0.31 | 1 | 9984 | THOC1 |
| 0.186872587 | 0.274001956 | 0.309 | 1 | 90627 | STARD13 |
| 0.186872587 | 0.274001956 | 0.287 | 1 | 117177 | RAB3IP |
| 0.186872587 | 0.274001956 | 0.295 | 1 | 118429 | ANTXR2 |
| 0.186872587 | 0.274001956 | 0.315 | 1 | 220064 | ORAOV1 |
| 0.186615184 | 0.274672627 | 0.279 | 1 | 545 | ATR |
| 0.186615184 | 0.274672627 | 0.335 | 1 | 51481 | VCX3A |
| 0.186615184 | 0.274672627 | 0.339 | 1 | 54478 | FAM64A |
| 0.186615184 | 0.274672627 | 0.303 | 1 | 347365 | ITIH5L |
| 0.186357796 | 0.275344312 | 0.323 | 1 | 6259 | RYK |
| 0.186357796 | 0.275344312 | 0.3 | 1 | 6754 | SSTR4 |
| 0.186357796 | 0.275344312 | 0.329 | 1 | 6794 | STK11 |
| 0.186357796 | 0.275344312 | 0.337 | 1 | 8703 | B4GALT3 |
| 0.186357796 | 0.275344312 | 0.328 | 1 | 9146 | HGS |
| 0.186357796 | 0.275344312 | 0.324 | 1 | 23333 | DPY19L1 |
| 0.186357796 | 0.275344312 | 0.307 | 1 | 56131 | PCDHB4 |
| 0.186357796 | 0.275344312 | 0.362 | 1 | 57451 | ODZ2 |
| 0.186357796 | 0.275344312 | 0.279 | 1 | 163404 | PPAPR5 |
| 0.186357796 | 0.275344312 | 0.325 | 1 | 219770 | GJD4 |
| 0.186100394 | 0.276017159 | 0.301 | 1 | 51347 | TAOK3 |
| 0.186100394 | 0.276017159 | 0.319 | 1 | 56260 | C8orf44 |
| 0.186100394 | 0.276017159 | 0.327 | 1 | 338917 | VSX2 |
| 0.186100394 | 0.276017159 | 0.311 | 1 | 100129482 | ZNF37BP |
| 0.185842991 | 0.276691377 | 0.305 | 1 | 8314 | BAP1 |
| 0.185842991 | 0.276691377 | 0.323 | 1 | 11190 | CEP250 |
| 0.185842991 | 0.276691377 | 0.318 | 1 | 55083 | KIF26B |
| 0.185842991 | 0.276691377 | 0.314 | 1 | 146754 | DNAH2 |
| 0.185842991 | 0.276691377 | 0.324 | 1 | 728716 | LOC728716 |
| 0.185585588 | 0.2773664 | 0.318 | 1 | 10172 | ZNF256 |
| 0.185585588 | 0.2773664 | 0.312 | 1 | 79667 | AC021860.1 |
| 0.185328171 | 0.278042465 | 0.303 | 1 | 7311 | RPS27AP11 |
| 0.185328171 | 0.278042465 | 0.313 | 1 | 91689 | C22orf32 |
| 0.185328171 | 0.278042465 | 0.324 | 1 | 404281 | YY2 |
| 0.185070768 | 0.278719574 | 0.315 | 1 | 4358 | MPV17 |
| 0.185070768 | 0.278719574 | 0.308 | 1 | 57494 | AC092490.2 |
| 0.185070768 | 0.278719574 | 0.301 | 1 | 342538 | NACA2 |
| 0.18481338 | 0.279398113 | 0.282 | 1 | 1476 | CSTB |
| 0.18481338 | 0.279398113 | 0.302 | 1 | 29101 | SSU72 |
| 0.18481338 | 0.279398113 | 0.323 | 1 | 54995 | OXSM |
| 0.18481338 | 0.279398113 | 0.288 | 1 | 56478 | EIF4ENIF1 |
| 0.18481338 | 0.279398113 | 0.332 | 1 | 138649 | ANKRD19P |
| 0.18481338 | 0.279398113 | 0.314 | 1 | 284306 | ZNF547 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.171454296 | < 0.001 | 10874 | NMU |
| 0.171435446 | < 0.001 | 93408 | MYL10 |
| 0.171352148 | < 0.001 | 23355 | VPS8 |
| 0.171262249 | < 0.001 | 200728 | TMEM17 |
| 0.171152115 | < 0.001 | 10865 | ARID5A |
| 0.171133623 | < 0.001 | 116969 | ART5 |
| 0.171113849 | < 0.001 | 100131390 | SP9 |
| 0.171076328 | < 0.001 | 645431 | LOC645431 |
| 0.171072155 | < 0.001 | 56926 | NCLN |
| 0.171049774 | < 0.001 | 256714 | MAP7D2 |
| 0.171037421 | < 0.001 | 340508 | RP11-520B13.4 |
| 0.171008542 | < 0.001 | 6118 | RPA2 |
| 0.17097047 | < 0.001 | 6184 | RPN1 |
| 0.17095533 | < 0.001 | 644422 | LOC644422 |
| 0.170891717 | < 0.001 | 8556 | CDC14A |
| 0.17084454 | < 0.001 | 8087 | FXR1 |
| 0.170841381 | < 0.001 | 2554 | GABRA1 |
| 0.170807391 | < 0.001 | 81569 | ACTL8 |
| 0.170732543 | < 0.001 | 51305 | KCNK9 |
| 0.170584321 | < 0.001 | 7818 | DAP3 |
| 0.170505762 | < 0.001 | 6768 | ST14 |
| 0.170468807 | < 0.001 | 373 | TRIM23 |
| 0.170417175 | < 0.001 | 114784 | CSMD2 |
| 0.170397207 | < 0.001 | 51390 | AIG1 |
| 0.170388564 | < 0.001 | 92521 | CYTSB |
| 0.170327082 | < 0.001 | 80024 | SLC24A6 |
| 0.170318261 | < 0.001 | 400793 | C1orf226 |
| 0.170244068 | < 0.001 | 442862 | PRY |
| 0.170189276 | < 0.001 | 9289 | GPR56 |
| 0.170180917 | < 0.001 | 5514 | PPP1R10 |
| 0.170167729 | < 0.001 | 114880 | OSBPL6 |
| 0.170105144 | < 0.001 | 9152 | SLC6A5 |
| 0.170102999 | < 0.001 | 81470 | OR2G2 |
| 0.170091957 | < 0.001 | 100130776 | RP11-571M6.6 |
| 0.170082659 | < 0.001 | 114769 | CARD16 |
| 0.169997692 | < 0.001 | 148223 | C19orf25 |
| 0.169902503 | < 0.001 | 940 | CD28 |
| 0.169893399 | < 0.001 | 80146 | UXS1 |
| 0.169881523 | < 0.001 | 43847 | KLK14 |
| 0.169811308 | < 0.001 | 6366 | CCL21 |
| 0.169747606 | < 0.001 | 56134 | PCDHAC2 |
| 0.169736281 | < 0.001 | 125206 | SLC5A10 |
| 0.169638395 | < 0.001 | 728739 | LOC728739 |
| 0.169605896 | < 0.001 | 442721 | LMOD2 |
| 0.169508845 | < 0.001 | 4734 | NEDD4 |
| 0.16950132 | < 0.001 | 65117 | RSRC2 |
| 0.169475883 | < 0.001 | 79843 | FAM124B |
| 0.169448018 | < 0.001 | 23301 | EHBP1 |
| 0.169444114 | < 0.001 | 8326 | FZD9 |
| 0.169436589 | < 0.001 | 644684 | LOC644684 |
| 0.169332489 | < 0.001 | 339221 | ENPP7 |
| 0.169329807 | < 0.001 | 100128998 | C20orf181 |
| 0.169320971 | < 0.001 | 55777 | MBD5 |
| 0.169277325 | < 0.001 | 390424 | ATP5G1P5 |
| 0.169276595 | < 0.001 | 51018 | RRP15 |
| 0.169268236 | < 0.001 | 116372 | LYPD1 |
| 0.16919969 | < 0.001 | 340390 | KIAA1875 |
| 0.169128373 | < 0.001 | 22888 | UBOX5 |
| 0.169041082 | < 0.001 | 54898 | ELOVL2 |
| 0.169001892 | < 0.001 | 120775 | OR2D3 |
| 0.168997332 | < 0.001 | 27123 | DKK2 |
| 0.168994188 | < 0.001 | 51504 | TRMT112 |
| 0.168957129 | < 0.001 | 64318 | NOC3L |
| 0.168909207 | < 0.001 | 23586 | DDX58 |
| 0.168861389 | < 0.001 | 53635 | PTOV1 |
| 0.168851361 | < 0.001 | 440026 | TMEM41B |
| 0.16884847 | < 0.001 | 113835 | ZNF257 |
| 0.16882284 | < 0.001 | 1207 | CLNS1A |
| 0.168707415 | < 0.001 | 5550 | PREP |
| 0.168665528 | < 0.001 | 29798 | C2orf27A |
| 0.168643236 | < 0.001 | 100130522 | PARD6G-AS1 |
| 0.168611482 | < 0.001 | 79623 | GALNT14 |
| 0.168551862 | < 0.001 | 8428 | STK24 |
| 0.168551207 | < 0.001 | 23440 | OTP |
| 0.168545455 | < 0.001 | 9369 | NRXN3 |
| 0.168464571 | < 0.001 | 388531 | RGS9BP |
| 0.168449342 | < 0.001 | 390598 | SKOR1 |
| 0.168445989 | < 0.001 | 84640 | USP38 |
| 0.168439403 | < 0.001 | 5342 | PLGLB2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.18481338 | 0.279398113 | 0.314 | 1 | 552889 | ATXN7L3B |
| 0.18481338 | 0.279398113 | 0.299 | 1 | 648771 | LOC648771 |
| 0.184555978 | 0.280077457 | 0.311 | 1 | 10579 | TACC2 |
| 0.184555978 | 0.280077457 | 0.304 | 1 | 57381 | RHOJ |
| 0.184555978 | 0.280077457 | 0.334 | 1 | 337972 | KRTAP19-5 |
| 0.184555978 | 0.280077457 | 0.337 | 1 | 100128239 | AP000911.1 |
| 0.184298575 | 0.280757874 | 0.32 | 1 | 4302 | MLLT6 |
| 0.184298575 | 0.280757874 | 0.342 | 1 | 7264 | TSTA3 |
| 0.184298575 | 0.280757874 | 0.319 | 1 | 7366 | AC147055.1 |
| 0.184298575 | 0.280757874 | 0.325 | 1 | 8540 | AGPS |
| 0.184298575 | 0.280757874 | 0.35 | 1 | 9227 | LRAT |
| 0.184298575 | 0.280757874 | 0.326 | 1 | 51371 | POMP |
| 0.184298575 | 0.280757874 | 0.315 | 1 | 79187 | FSD1 |
| 0.184298575 | 0.280757874 | 0.331 | 1 | 126695 | C1orf172 |
| 0.184041172 | 0.281439394 | 0.338 | 1 | 2066 | ERBB4 |
| 0.184041172 | 0.281439394 | 0.339 | 1 | 6006 | RHCE |
| 0.18378377 | 0.282121897 | 0.319 | 1 | 6907 | TBL1X |
| 0.18378377 | 0.282121897 | 0.309 | 1 | 27036 | SIGLEC7 |
| 0.183526382 | 0.28280586 | 0.324 | 1 | 3638 | INSIG1 |
| 0.183526382 | 0.28280586 | 0.332 | 1 | 54072 | LINC00158 |
| 0.183526382 | 0.28280586 | 0.287 | 1 | 55628 | ZNF407 |
| 0.183526382 | 0.28280586 | 0.344 | 1 | 90121 | TSR2 |
| 0.183268979 | 0.283490628 | 0.321 | 1 | 2752 | GLUL |
| 0.183268979 | 0.283490628 | 0.329 | 1 | 166348 | KLHDC6 |
| 0.183268979 | 0.283490628 | 0.339 | 1 | 285180 | RUFY4 |
| 0.183011577 | 0.284176469 | 0.333 | 1 | 3785 | KCNQ2 |
| 0.183011577 | 0.284176469 | 0.319 | 1 | 7260 | TSSC1 |
| 0.183011577 | 0.284176469 | 0.285 | 1 | 57110 | HRASLS |
| 0.182754174 | 0.284863412 | 0.332 | 1 | 8027 | STAM |
| 0.182754174 | 0.284863412 | 0.322 | 1 | 60526 | C2orf43 |
| 0.182754174 | 0.284863412 | 0.344 | 1 | 63973 | NEUROG2 |
| 0.182754174 | 0.284863412 | 0.305 | 1 | 84316 | LSMD1 |
| 0.182754174 | 0.284863412 | 0.324 | 1 | 123722 | FSD2 |
| 0.182754174 | 0.284863412 | 0.308 | 1 | 346329 | LOC346329 |
| 0.182496771 | 0.285551667 | 0.298 | 1 | 9925 | ZBTB5 |
| 0.182496771 | 0.285551667 | 0.332 | 1 | 23263 | MCF2L |
| 0.182239383 | 0.286240727 | 0.32 | 1 | 2205 | FCER1A |
| 0.182239383 | 0.286240727 | 0.332 | 1 | 6671 | SP4 |
| 0.182239383 | 0.286240727 | 0.315 | 1 | 10401 | PIAS3 |
| 0.182239383 | 0.286240727 | 0.337 | 1 | 22977 | AKR7A3 |
| 0.182239383 | 0.286240727 | 0.337 | 1 | 55317 | C20orf29 |
| 0.182239383 | 0.286240727 | 0.337 | 1 | 387104 | AL096711.2 |
| 0.181981981 | 0.286930919 | 0.341 | 1 | 5514 | PPP1R10 |
| 0.181981981 | 0.286930919 | 0.342 | 1 | 8470 | SORBS2 |
| 0.181981981 | 0.286930919 | 0.34 | 1 | 9742 | IFT140 |
| 0.181981981 | 0.286930919 | 0.315 | 1 | 55131 | RBM28 |
| 0.181981981 | 0.286930919 | 0.31 | 1 | 285193 | DUSP28 |
| 0.181981981 | 0.286930919 | 0.341 | 1 | 392390 | OR1L6 |
| 0.181724578 | 0.287622213 | 0.335 | 1 | 10252 | SPRY1 |
| 0.181724578 | 0.287622213 | 0.313 | 1 | 10393 | ANAPC10 |
| 0.181724578 | 0.287622213 | 0.327 | 1 | 142891 | SAMD8 |
| 0.181724578 | 0.287622213 | 0.337 | 1 | 150771 | ITPRIPL1 |
| 0.181467175 | 0.288314849 | 0.348 | 1 | 1200 | TPP1 |
| 0.181467175 | 0.288314849 | 0.335 | 1 | 23409 | SIRT4 |
| 0.181467175 | 0.288314849 | 0.346 | 1 | 29100 | TMEM208 |
| 0.181467175 | 0.288314849 | 0.33 | 1 | 80119 | PIF1 |
| 0.181467175 | 0.288314849 | 0.328 | 1 | 548593 | GIYD2 |
| 0.181209773 | 0.28900823 | 0.334 | 1 | 4218 | RAB8A |
| 0.181209773 | 0.28900823 | 0.33 | 1 | 8530 | CST7 |
| 0.181209773 | 0.28900823 | 0.342 | 1 | 10114 | HIPK3 |
| 0.180952385 | 0.289702773 | 0.354 | 1 | 5445 | PON2 |
| 0.180952385 | 0.289702773 | 0.304 | 1 | 5920 | RARRES3 |
| 0.180952385 | 0.289702773 | 0.357 | 1 | 146849 | CCDC42 |
| 0.180952385 | 0.289702773 | 0.346 | 1 | 326625 | MMAB |
| 0.180694982 | 0.290398359 | 0.361 | 1 | 2918 | GRM8 |
| 0.18043758 | 0.291094989 | 0.343 | 1 | 10316 | NMUR1 |
| 0.18043758 | 0.291094989 | 0.343 | 1 | 55286 | C4orf19 |
| 0.18043758 | 0.291094989 | 0.327 | 1 | 91869 | RFT1 |
| 0.18043758 | 0.291094989 | 0.333 | 1 | 124944 | C17ORF49 |
| 0.180180177 | 0.291793138 | 0.318 | 1 | 5292 | PIM1 |
| 0.179922774 | 0.292491913 | 0.319 | 1 | 4898 | NRD1 |
| 0.179922774 | 0.292491913 | 0.316 | 1 | 7109 | TRAPPC10 |
| 0.179665387 | 0.29319188 | 0.33 | 1 | 1901 | S1PR1 |
| 0.179665387 | 0.29319188 | 0.341 | 1 | 56904 | SH3GLB2 |
| 0.179407984 | 0.29389286 | 0.339 | 1 | 6227 | RPS21 |
| 0.179407984 | 0.29389286 | 0.329 | 1 | 9675 | KIAA0406 |
| 0.179407984 | 0.29389286 | 0.348 | 1 | 55573 | CDV3 |
| 0.179407984 | 0.29389286 | 0.358 | 1 | 80230 | RUFY1 |
| 0.179150581 | 0.294595361 | 0.327 | 1 | 7528 | YY1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.168434575 | < 0.001 | 11040 | PIM2 |
| 0.168353125 | < 0.001 | 84465 | MEGF11 |
| 0.168352008 | < 0.001 | 341152 | OR2AT4 |
| 0.168320253 | < 0.001 | 2515 | ADAM2 |
| 0.168267414 | < 0.001 | 29071 | C1GALT1C1 |
| 0.168234721 | < 0.001 | 56984 | PSMG2 |
| 0.168188751 | < 0.001 | 59284 | CACNG7 |
| 0.168166101 | < 0.001 | 55068 | ENOX1 |
| 0.168038219 | < 0.001 | 285962 | RP5-894A10.1 |
| 0.167972475 | < 0.001 | 377 | ARF3 |
| 0.167943403 | < 0.001 | 5551 | PRF1 |
| 0.167940244 | < 0.001 | 339229 | C17orf90 |
| 0.167920843 | < 0.001 | 7549 | ZNF2 |
| 0.167899206 | < 0.001 | 334 | APLP2 |
| 0.167885825 | < 0.001 | 390892 | OR7A10 |
| 0.167872176 | < 0.001 | 540 | ATP7B |
| 0.167816922 | < 0.001 | 81551 | STMN4 |
| 0.167814046 | < 0.001 | 388512 | CLEC17A |
| 0.167812929 | < 0.001 | 10724 | MGEA5 |
| 0.167794347 | < 0.001 | 10266 | RAMP2 |
| 0.167769372 | < 0.001 | 29991 | OBP2A |
| 0.167727023 | < 0.001 | 51385 | ZNF589 |
| 0.167692766 | < 0.001 | 51533 | PHF7 |
| 0.167668059 | < 0.001 | 2210 | FCGR1B |
| 0.167623013 | < 0.001 | 1877 | E4F1 |
| 0.167578995 | < 0.001 | 388336 | AC007510.1 |
| 0.167563021 | < 0.001 | 256691 | MAMDC2 |
| 0.167491615 | < 0.001 | 5411 | PNN |
| 0.167439878 | < 0.001 | 284618 | RUSC1-AS1 |
| 0.167437658 | < 0.001 | 2583 | B4GALNT1 |
| 0.167435527 | < 0.001 | 10555 | AGPAT2 |
| 0.167389736 | < 0.001 | 5382 | PMS2P4 |
| 0.167307451 | < 0.001 | 154467 | C6orf129 |
| 0.167283595 | < 0.001 | 3305 | HSPA1L |
| 0.167273566 | < 0.001 | 90557 | CCDC74A |
| 0.167242825 | < 0.001 | 23157 | SEPTIN6 |
| 0.16717419 | < 0.001 | 8776 | MTMR1 |
| 0.167151079 | < 0.001 | 6767 | ST13 |
| 0.167092934 | < 0.001 | 653635 | WASH5P |
| 0.167008981 | < 0.001 | 53354 | PANK1 |
| 0.166971475 | < 0.001 | 1442 | CSH1 |
| 0.166965529 | < 0.001 | 3073 | HEXA |
| 0.166934133 | < 0.001 | 9755 | TBKBP1 |
| 0.166930705 | < 0.001 | 85294 | KRTAP2-4 |
| 0.166887894 | < 0.001 | 56254 | RNF20 |
| 0.166875452 | < 0.001 | 64718 | C16orf28 |
| 0.166875258 | < 0.001 | 28968 | SLC6A16 |
| 0.166861236 | < 0.001 | 9797 | TATDN2 |
| 0.166784063 | < 0.001 | 64405 | CDH22 |
| 0.166773662 | < 0.001 | 548596 | CKMT1A |
| 0.166709125 | < 0.001 | 100130691 | AC074286.1 |
| 0.166704014 | < 0.001 | 9728 | SECISBP2L |
| 0.166636407 | < 0.001 | 6473 | SHOX |
| 0.166626289 | < 0.001 | 23197 | FAF2 |
| 0.166623592 | < 0.001 | 126133 | ALDH16A1 |
| 0.166618019 | < 0.001 | 57631 | LRCH2 |
| 0.166548833 | < 0.001 | 341346 | C12orf70 |
| 0.166543454 | < 0.001 | 55030 | FBXO34 |
| 0.166487262 | < 0.001 | 347853 | TBX10 |
| 0.166452348 | < 0.001 | 10457 | GPNMB |
| 0.166450396 | < 0.001 | 139596 | UPRT |
| 0.166441202 | < 0.001 | 51510 | CHMP5 |
| 0.166333482 | < 0.001 | 53343 | NUDT9 |
| 0.166305989 | < 0.001 | 4733 | DRG1 |
| 0.166305155 | < 0.001 | 349149 | GJC3 |
| 0.166269302 | < 0.001 | 23529 | CLCF1 |
| 0.166253433 | < 0.001 | 127544 | RNF19B |
| 0.166153789 | < 0.001 | 286204 | CRB2 |
| 0.166130841 | < 0.001 | 60493 | FASTKD5 |
| 0.166128621 | < 0.001 | 22980 | TCF25 |
| 0.166119695 | < 0.001 | 54469 | ZFAND6 |
| 0.166091844 | < 0.001 | 645974 | PABPC1L2B |
| 0.166052192 | < 0.001 | 202181 | LOC202181 |
| 0.166044295 | < 0.001 | 641 | BLM |
| 0.165981427 | < 0.001 | 284123 | FAM27L |
| 0.165796161 | < 0.001 | 390616 | ANKRD34C |
| 0.165747955 | < 0.001 | 100287049 | RP11-574F21.2 |
| 0.165734679 | < 0.001 | 81847 | RNF146 |
| 0.165729672 | < 0.001 | 27328 | PCDH11X |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.179150581 | 0.294595361 | 0.361 | 1 | 645121 | CCNI2 |
| 0.178893179 | 0.295298487 | 0.32 | 1 | 171568 | POLR3H |
| 0.178893179 | 0.295298487 | 0.342 | 1 | 474381 | H2AFB2 |
| 0.178635776 | 0.296002775 | 0.315 | 1 | 3184 | HNRNPD |
| 0.178635776 | 0.296002775 | 0.341 | 1 | 7915 | ALDH5A1 |
| 0.178635776 | 0.296002775 | 0.325 | 1 | 55425 | KIAA1704 |
| 0.178635776 | 0.296002775 | 0.334 | 1 | 166379 | BBS12 |
| 0.178378388 | 0.296708167 | 0.323 | 1 | 2125 | EVPL |
| 0.178378388 | 0.296708167 | 0.342 | 1 | 7409 | VAV1 |
| 0.178378388 | 0.296708167 | 0.349 | 1 | 51611 | DPH5 |
| 0.178120971 | 0.297414929 | 0.34 | 1 | 27164 | SALL3 |
| 0.178120971 | 0.297414929 | 0.334 | 1 | 64778 | FNDC3B |
| 0.178120971 | 0.297414929 | 0.313 | 1 | 113263 | GLCCI1 |
| 0.178120971 | 0.297414929 | 0.335 | 1 | 256586 | LYSMD2 |
| 0.178120971 | 0.297414929 | 0.344 | 1 | 266977 | GPR110 |
| 0.177863568 | 0.298122495 | 0.366 | 1 | 5173 | PDYN |
| 0.177863568 | 0.298122495 | 0.336 | 1 | 7391 | USF1 |
| 0.177863568 | 0.298122495 | 0.339 | 1 | 7571 | ZNF23 |
| 0.177863568 | 0.298122495 | 0.346 | 1 | 10149 | GPR64 |
| 0.177863568 | 0.298122495 | 0.321 | 1 | 23389 | MED13L |
| 0.177863568 | 0.298122495 | 0.355 | 1 | 27077 | B9D1 |
| 0.177863568 | 0.298122495 | 0.343 | 1 | 125476 | INO80C |
| 0.177606165 | 0.298831046 | 0.325 | 1 | 56886 | UGCGL1 |
| 0.177606165 | 0.298831046 | 0.34 | 1 | 85290 | KRTAP4-3 |
| 0.177348763 | 0.299540758 | 0.331 | 1 | 9683 | N4BP1 |
| 0.177348763 | 0.299540758 | 0.339 | 1 | 23243 | ANKRD28 |
| 0.177348763 | 0.299540758 | 0.34 | 1 | 57338 | JPH3 |
| 0.177348763 | 0.299540758 | 0.33 | 1 | 79077 | DCTPP1 |
| 0.177091375 | 0.300251573 | 0.344 | 1 | 22986 | SORCS3 |
| 0.177091375 | 0.300251573 | 0.322 | 1 | 124454 | EARS2 |
| 0.177091375 | 0.300251573 | 0.347 | 1 | 136288 | C7orf57 |
| 0.176833972 | 0.300963819 | 0.332 | 1 | 1362 | CPD |
| 0.176833972 | 0.300963819 | 0.306 | 1 | 2121 | EVC |
| 0.176833972 | 0.300963819 | 0.334 | 1 | 10953 | TOMM34 |
| 0.176833972 | 0.300963819 | 0.357 | 1 | 84131 | CEP78 |
| 0.17657657 | 0.30167675 | 0.363 | 1 | 10426 | TUBGCP3 |
| 0.17657657 | 0.30167675 | 0.328 | 1 | 27165 | GLS2 |
| 0.176319167 | 0.302390754 | 0.329 | 1 | 26012 | NELF |
| 0.176319167 | 0.302390754 | 0.341 | 1 | 54758 | KLHDC4 |
| 0.176061764 | 0.303105891 | 0.33 | 1 | 8728 | ADAM19 |
| 0.176061764 | 0.303105891 | 0.356 | 1 | 55970 | GNG12 |
| 0.176061764 | 0.303105891 | 0.353 | 1 | 79050 | NOC4L |
| 0.176061764 | 0.303105891 | 0.373 | 1 | 126326 | GIPC3 |
| 0.176061764 | 0.303105891 | 0.366 | 1 | 285033 | LOC285033 |
| 0.175804377 | 0.303822488 | 0.353 | 1 | 770 | CA11 |
| 0.175804377 | 0.303822488 | 0.361 | 1 | 51559 | NT5DC3 |
| 0.175804377 | 0.303822488 | 0.343 | 1 | 54534 | MRPL50 |
| 0.175804377 | 0.303822488 | 0.357 | 1 | 55069 | C7orf42 |
| 0.175804377 | 0.303822488 | 0.329 | 1 | 79747 | C6orf103 |
| 0.175804377 | 0.303822488 | 0.355 | 1 | 121457 | AC013283.1 |
| 0.175546974 | 0.30453977 | 0.345 | 1 | 1385 | CREB1 |
| 0.175546974 | 0.30453977 | 0.334 | 1 | 4121 | MAN1A1 |
| 0.175546974 | 0.30453977 | 0.327 | 1 | 54432 | YIPF1 |
| 0.175546974 | 0.30453977 | 0.345 | 1 | 151531 | UPP2 |
| 0.175546974 | 0.30453977 | 0.353 | 1 | 401993 | OR2T5 |
| 0.175289571 | 0.305258185 | 0.36 | 1 | 1844 | DUSP2 |
| 0.175289571 | 0.305258185 | 0.328 | 1 | 3428 | IFI16 |
| 0.175289571 | 0.305258185 | 0.343 | 1 | 26519 | TIMM10 |
| 0.175289571 | 0.305258185 | 0.32 | 1 | 90271 | LINC00263 |
| 0.174774766 | 0.306698561 | 0.347 | 1 | 3645 | INSRR |
| 0.174774766 | 0.306698561 | 0.378 | 1 | 6531 | SLC6A3 |
| 0.174774766 | 0.306698561 | 0.352 | 1 | 23413 | FREQ |
| 0.174774766 | 0.306698561 | 0.335 | 1 | 54902 | TTC19 |
| 0.174774766 | 0.306698561 | 0.34 | 1 | 55283 | MCOLN3 |
| 0.174774766 | 0.306698561 | 0.351 | 1 | 286499 | FAM133A |
| 0.174517378 | 0.307420194 | 0.352 | 1 | 26272 | FBXO4 |
| 0.174517378 | 0.307420194 | 0.363 | 1 | 56850 | GRIPAP1 |
| 0.174259976 | 0.30814293 | 0.352 | 1 | 1291 | COL6A1 |
| 0.174259976 | 0.30814293 | 0.367 | 1 | 1951 | CELSR3 |
| 0.174259976 | 0.30814293 | 0.341 | 1 | 6874 | TAF4 |
| 0.174259976 | 0.30814293 | 0.359 | 1 | 85865 | GTPBP10 |
| 0.174259976 | 0.30814293 | 0.338 | 1 | 90701 | SEC11C |
| 0.174259976 | 0.30814293 | 0.371 | 1 | 256471 | MFSD8 |
| 0.174259976 | 0.30814293 | 0.346 | 1 | 390424 | ATP5G1P5 |
| 0.174002573 | 0.308866799 | 0.351 | 1 | 7976 | FZD3 |
| 0.174002573 | 0.308866799 | 0.34 | 1 | 9942 | XYLB |
| 0.17374517 | 0.309591651 | 0.348 | 1 | 10499 | NCOA2 |
| 0.17374517 | 0.309591651 | 0.334 | 1 | 23095 | KIF1B |
| 0.17374517 | 0.309591651 | 0.356 | 1 | 84418 | CYSTM1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.165727243 | < 0.001 | 51164 | DCTN4 |
| 0.165724739 | < 0.001 | 2017 | CTTN |
| 0.165654257 | < 0.001 | 83259 | PCDH11Y |
| 0.165645719 | < 0.001 | 11120 | BTN2A1 |
| 0.165593341 | < 0.001 | 56910 | STARD7 |
| 0.165592685 | < 0.001 | 5468 | PPARG |
| 0.165579587 | < 0.001 | 2274 | FHL2 |
| 0.165563434 | < 0.001 | 56413 | LTB4R2 |
| 0.165548116 | < 0.001 | 55615 | PRR5 |
| 0.165537894 | < 0.001 | 163175 | LGI4 |
| 0.165473908 | < 0.001 | 284086 | NEK8 |
| 0.165430829 | < 0.001 | 219982 | OR5A1 |
| 0.16535458 | < 0.001 | 84975 | MFSD5 |
| 0.165319666 | < 0.001 | 10788 | IQGAP2 |
| 0.165285021 | < 0.001 | 11041 | AP001107.1 |
| 0.16522865 | < 0.001 | 442117 | GALNTL6 |
| 0.165182769 | < 0.001 | 26130 | GAPVD1 |
| 0.165172562 | < 0.001 | 64328 | XPO4 |
| 0.165172189 | < 0.001 | 152302 | CIDECP |
| 0.165163651 | < 0.001 | 6758 | SSX5 |
| 0.165157422 | < 0.001 | 23562 | CLDN14 |
| 0.165139034 | < 0.001 | 116285 | ACSM1 |
| 0.165131792 | < 0.001 | 163404 | PPAPR5 |
| 0.165113226 | < 0.001 | 6372 | CXCL6 |
| 0.165030196 | < 0.001 | 8498 | RANBP3 |
| 0.16500847 | < 0.001 | 119695 | OR52R1 |
| 0.164984509 | < 0.001 | 138050 | HGSNAT |
| 0.164981723 | < 0.001 | 23568 | ARL2BP |
| 0.164953962 | < 0.001 | 55966 | AJAP1 |
| 0.164951265 | < 0.001 | 57669 | EPB41L5 |
| 0.164897591 | < 0.001 | 80122 | YSK4 |
| 0.164895356 | < 0.001 | 5357 | PLS1 |
| 0.164883003 | < 0.001 | 7564 | ZNF16 |
| 0.16487585 | < 0.001 | 163154 | PRR22 |
| 0.164853841 | < 0.001 | 3972 | LHB |
| 0.164845675 | < 0.001 | 2647 | BLOC1S1 |
| 0.164801285 | < 0.001 | 4677 | NARS |
| 0.164701641 | < 0.001 | 1141 | CHRNB2 |
| 0.164675817 | < 0.001 | 390151 | OR8H2 |
| 0.164672852 | < 0.001 | 56062 | KLHL4 |
| 0.164653167 | < 0.001 | 150864 | FAM117B |
| 0.164577663 | < 0.001 | 23263 | MCF2L |
| 0.164574414 | < 0.001 | 27112 | FAM155B |
| 0.164568841 | < 0.001 | 220429 | CTAGE10P |
| 0.164424524 | < 0.001 | 124935 | SLC43A2 |
| 0.164385527 | < 0.001 | 728361 | OVOL3 |
| 0.164371595 | < 0.001 | 150465 | TTL |
| 0.164304271 | < 0.001 | 10661 | KLF1 |
| 0.164267674 | < 0.001 | 337966 | KRTAP6-1 |
| 0.164252162 | < 0.001 | 3906 | LALBA |
| 0.164126977 | < 0.001 | 767846 | PFN1P2 |
| 0.164116398 | < 0.001 | 651 | BMP3 |
| 0.164110914 | < 0.001 | 9749 | PHACTR2 |
| 0.164076284 | < 0.001 | 64067 | NPAS3 |
| 0.164065689 | < 0.001 | 79018 | C17orf39 |
| 0.164039403 | < 0.001 | 57127 | RHBG |
| 0.163970038 | < 0.001 | 2735 | GLI1 |
| 0.16392082 | < 0.001 | 55856 | ACOT13 |
| 0.163871139 | < 0.001 | 340543 | TCEAL5 |
| 0.16380623 | < 0.001 | 56891 | LGALS14 |
| 0.163766667 | < 0.001 | 10894 | LYVE1 |
| 0.163508311 | < 0.001 | 6580 | SLC22A1 |
| 0.163480639 | < 0.001 | 27132 | CPNE7 |
| 0.163467169 | < 0.001 | 200081 | TXLNA |
| 0.16344367 | < 0.001 | 1134 | CHRNA1 |
| 0.163431227 | < 0.001 | 199800 | C19orf76 |
| 0.163390189 | < 0.001 | 5595 | MAPK3 |
| 0.163387403 | < 0.001 | 9955 | HS3ST3A1 |
| 0.163352847 | < 0.001 | 867 | CBL |
| 0.163346902 | < 0.001 | 165829 | GPR156 |
| 0.163282081 | < 0.001 | 90139 | TSPAN18 |
| 0.163271964 | < 0.001 | 221710 | C6ORF228 |
| 0.163270757 | < 0.001 | 116985 | ARAP1 |
| 0.163241789 | < 0.001 | 4192 | MDK |
| 0.163234919 | < 0.001 | 51378 | ANGPT4 |
| 0.163234636 | < 0.001 | 10022 | INSL5 |
| 0.163214207 | < 0.001 | 312 | ANXA13 |
| 0.16317603 | < 0.001 | 390212 | GPR152 |
| 0.16305846 | < 0.001 | 5005 | ORM2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.17374517 | 0.309591651 | 0.349 | 1 | 390598 | SKOR1 |
| 0.173487768 | 0.310318023 | 0.372 | 1 | 2961 | GTF2E2 |
| 0.173487768 | 0.310318023 | 0.335 | 1 | 7167 | TPI1 |
| 0.173487768 | 0.310318023 | 0.334 | 1 | 22955 | SCMH1 |
| 0.173487768 | 0.310318023 | 0.349 | 1 | 53339 | BTBD1 |
| 0.173487768 | 0.310318023 | 0.376 | 1 | 146434 | ZNF597 |
| 0.17323038 | 0.311045051 | 0.34 | 1 | 48 | ACO1 |
| 0.17323038 | 0.311045051 | 0.364 | 1 | 4795 | NFKBIL1 |
| 0.17323038 | 0.311045051 | 0.342 | 1 | 54828 | BCAS3 |
| 0.172972977 | 0.311773241 | 0.368 | 1 | 5522 | PPP2R2C |
| 0.172972977 | 0.311773241 | 0.369 | 1 | 10137 | RBM12 |
| 0.172972977 | 0.311773241 | 0.359 | 1 | 55833 | UBAP2 |
| 0.172715575 | 0.312502503 | 0.349 | 1 | 27286 | SRPX2 |
| 0.172715575 | 0.312502503 | 0.345 | 1 | 57611 | ISLR2 |
| 0.172458172 | 0.313233137 | 0.353 | 1 | 3760 | KCNJ3 |
| 0.172458172 | 0.313233137 | 0.337 | 1 | 8825 | LIN7A |
| 0.172458172 | 0.313233137 | 0.349 | 1 | 10776 | ARPP19 |
| 0.172200769 | 0.313964546 | 0.373 | 1 | 3992 | FADS1 |
| 0.172200769 | 0.313964546 | 0.352 | 1 | 7549 | ZNF2 |
| 0.172200769 | 0.313964546 | 0.349 | 1 | 9354 | UBE4A |
| 0.172200769 | 0.313964546 | 0.355 | 1 | 64789 | DEM1 |
| 0.172200769 | 0.313964546 | 0.374 | 1 | 80216 | ALPK1 |
| 0.172200769 | 0.313964546 | 0.38 | 1 | 266675 | BEST4 |
| 0.171943381 | 0.314697087 | 0.332 | 1 | 3796 | KIF2A |
| 0.171943381 | 0.314697087 | 0.349 | 1 | 4524 | MTHFR |
| 0.171943381 | 0.314697087 | 0.365 | 1 | 27230 | SERP1 |
| 0.171943381 | 0.314697087 | 0.348 | 1 | 140739 | UBE2F |
| 0.171685979 | 0.315430701 | 0.361 | 1 | 55068 | ENOX1 |
| 0.171685979 | 0.315430701 | 0.359 | 1 | 146227 | AC132186.2 |
| 0.171685979 | 0.315430701 | 0.366 | 1 | 392264 | LOC392264 |
| 0.171428576 | 0.316165745 | 0.366 | 1 | 26258 | PLDN |
| 0.171171159 | 0.316901445 | 0.372 | 1 | 1478 | CSTF2 |
| 0.171171159 | 0.316901445 | 0.343 | 1 | 2983 | GUCY1B3 |
| 0.171171159 | 0.316901445 | 0.369 | 1 | 7296 | TXNRD1 |
| 0.171171159 | 0.316901445 | 0.328 | 1 | 10552 | ARPC1A |
| 0.171171159 | 0.316901445 | 0.359 | 1 | 254263 | CNIH2 |
| 0.171171159 | 0.316901445 | 0.342 | 1 | 337971 | KRTAP19-4 |
| 0.170913756 | 0.317638278 | 0.351 | 1 | 10367 | CBARA1 |
| 0.170913756 | 0.317638278 | 0.354 | 1 | 26224 | FBXL3 |
| 0.170913756 | 0.317638278 | 0.359 | 1 | 80774 | LIMD2 |
| 0.170656368 | 0.318376243 | 0.386 | 1 | 547 | KIF1A |
| 0.170656368 | 0.318376243 | 0.377 | 1 | 2739 | GLO1 |
| 0.170656368 | 0.318376243 | 0.358 | 1 | 7347 | UCHL3 |
| 0.170656368 | 0.318376243 | 0.366 | 1 | 51523 | CXXC5 |
| 0.170656368 | 0.318376243 | 0.342 | 1 | 340595 | ZCCHC16 |
| 0.170398965 | 0.319115281 | 0.35 | 1 | 7975 | MAFK |
| 0.170398965 | 0.319115281 | 0.339 | 1 | 81545 | FBXO38 |
| 0.170398965 | 0.319115281 | 0.364 | 1 | 124739 | USP43 |
| 0.170398965 | 0.319115281 | 0.368 | 1 | 128866 | CHMP4B |
| 0.170398965 | 0.319115281 | 0.343 | 1 | 100129503 | PP13 |
| 0.170141563 | 0.31985572 | 0.379 | 1 | 92092 | ZC3HAV1L |
| 0.169626758 | 0.32133913 | 0.359 | 1 | 599 | BCL2L2 |
| 0.169626758 | 0.32133913 | 0.349 | 1 | 1408 | CRY2 |
| 0.169626758 | 0.32133913 | 0.36 | 1 | 79868 | ALG13 |
| 0.16936937 | 0.32208252 | 0.359 | 1 | 10952 | SEC61B |
| 0.16936937 | 0.32208252 | 0.355 | 1 | 54663 | WDR74 |
| 0.169111967 | 0.322827309 | 0.368 | 1 | 3069 | HDLBP |
| 0.169111967 | 0.322827309 | 0.389 | 1 | 8564 | KMO |
| 0.169111967 | 0.322827309 | 0.343 | 1 | 9451 | EIF2AK3 |
| 0.169111967 | 0.322827309 | 0.358 | 1 | 10459 | MAD2L2 |
| 0.169111967 | 0.322827309 | 0.394 | 1 | 23784 | POTEH |
| 0.169111967 | 0.322827309 | 0.346 | 1 | 55585 | UBE2Q1 |
| 0.169111967 | 0.322827309 | 0.359 | 1 | 150786 | WTH3DI |
| 0.168854564 | 0.323572785 | 0.352 | 1 | 5699 | PSMB10 |
| 0.168854564 | 0.323572785 | 0.369 | 1 | 11266 | DUSP12 |
| 0.168854564 | 0.323572785 | 0.365 | 1 | 80762 | NDFIP1 |
| 0.168854564 | 0.323572785 | 0.357 | 1 | 94009 | SERHL |
| 0.168597162 | 0.324319422 | 0.358 | 1 | 2119 | ETV5 |
| 0.168597162 | 0.324319422 | 0.364 | 1 | 2944 | GSTM1 |
| 0.168597162 | 0.324319422 | 0.357 | 1 | 3009 | HIST1H1B |
| 0.168339759 | 0.325067103 | 0.382 | 1 | 9353 | SLIT2 |
| 0.168082371 | 0.325816214 | 0.353 | 1 | 419 | ART3 |
| 0.168082371 | 0.325816214 | 0.37 | 1 | 9969 | MED13 |
| 0.168082371 | 0.325816214 | 0.36 | 1 | 10769 | PLK2 |
| 0.168082371 | 0.325816214 | 0.381 | 1 | 54865 | GPATCH4 |
| 0.168082371 | 0.325816214 | 0.38 | 1 | 285905 | INTS4L1 |
| 0.167824969 | 0.3265661 | 0.372 | 1 | 9534 | ZNF254 |
| 0.167824969 | 0.3265661 | 0.358 | 1 | 11224 | RPL35 |
| 0.167824969 | 0.3265661 | 0.368 | 1 | 23016 | EXOSC7 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.16305846 | < 0.001 | 29888 | STRN4 |
| 0.163048998 | < 0.001 | 130612 | TMEM198 |
| 0.162877664 | < 0.001 | 147804 | CTD-2224J9.2 |
| 0.162859172 | < 0.001 | 11272 | PRR4 |
| 0.162825286 | < 0.001 | 11251 | GPR44 |
| 0.162824258 | < 0.001 | 201283 | AMZ2P1 |
| 0.16279909 | < 0.001 | 5081 | PAX7 |
| 0.162793517 | < 0.001 | 151009 | LOC151009 |
| 0.162755534 | < 0.001 | 10287 | RGS19 |
| 0.162696287 | < 0.001 | 8539 | API5L1 |
| 0.162651435 | < 0.001 | 185 | AGTR1 |
| 0.162632674 | < 0.001 | 64343 | AZI2 |
| 0.162622273 | < 0.001 | 117196 | MRGPRX4 |
| 0.162579283 | < 0.001 | 81566 | CSRNP2 |
| 0.162568688 | < 0.001 | 1159 | CKMT1B |
| 0.162565067 | < 0.001 | 8534 | CHST1 |
| 0.162546217 | < 0.001 | 201292 | TRIM65 |
| 0.162525788 | < 0.001 | 56005 | C19orf10 |
| 0.162520871 | < 0.001 | 55082 | ARGLU1 |
| 0.162494957 | < 0.001 | 3118 | HLA-DQA2 |
| 0.162434414 | < 0.001 | 349136 | WDR86 |
| 0.162433013 | < 0.001 | 147694 | ZNF548 |
| 0.16238983 | < 0.001 | 29960 | FTSJ2 |
| 0.162362993 | < 0.001 | 55291 | SAPS3 |
| 0.162284523 | < 0.001 | 284361 | C19orf63 |
| 0.162243292 | < 0.001 | 23032 | USP33 |
| 0.162214965 | < 0.001 | 90826 | PRMT10 |
| 0.162195563 | < 0.001 | 8497 | PPFIA4 |
| 0.16214931 | < 0.001 | 388555 | IGFL3 |
| 0.162145033 | < 0.001 | 891 | CCNB1 |
| 0.162139282 | < 0.001 | 83755 | KRTAP4-12 |
| 0.162078366 | < 0.001 | 286 | ANK1 |
| 0.162072599 | < 0.001 | 9768 | KIAA0101 |
| 0.162068695 | < 0.001 | 340371 | NRBP2 |
| 0.162056074 | < 0.001 | 5370 | PMCHL2 |
| 0.162041962 | < 0.001 | 1849 | DUSP7 |
| 0.161967665 | < 0.001 | 23408 | SIRT5 |
| 0.161902651 | < 0.001 | 27091 | CACNG5 |
| 0.161894396 | < 0.001 | 25994 | HIGD1A |
| 0.161865324 | < 0.001 | 401563 | C9orf139 |
| 0.161784813 | < 0.001 | 65999 | LRRC61 |
| 0.161776826 | < 0.001 | 59335 | PRDM12 |
| 0.161741346 | < 0.001 | 2888 | GRB14 |
| 0.161644682 | < 0.001 | 79780 | CCDC82 |
| 0.161631495 | < 0.001 | 221914 | GPC2 |
| 0.161572799 | < 0.001 | 6476 | SI |
| 0.161568344 | < 0.001 | 63947 | DMRTC1B |
| 0.161546975 | < 0.001 | 131616 | TMEM42 |
| 0.161451057 | < 0.001 | 79833 | GEMIN6 |
| 0.161412969 | < 0.001 | 375035 | SFT2D2 |
| 0.161407769 | < 0.001 | 283345 | RPL13P5 |
| 0.161407307 | < 0.001 | 4284 | MIP |
| 0.161387622 | < 0.001 | 27257 | LSM1 |
| 0.161354557 | < 0.001 | 148534 | TMEM56 |
| 0.161325127 | < 0.001 | 164714 | TTLL8 |
| 0.161317691 | < 0.001 | 10886 | NPFFR2 |
| 0.161316201 | < 0.001 | 5440 | AC025647.1 |
| 0.16131556 | < 0.001 | 26330 | GAPDHS |
| 0.161252692 | < 0.001 | 150383 | C22orf40 |
| 0.161243305 | < 0.001 | 9343 | EFTUD2 |
| 0.161144689 | < 0.001 | 100049587 | SIGLEC14 |
| 0.161117017 | < 0.001 | 84460 | ZMAT1 |
| 0.160971209 | < 0.001 | 8467 | SMARCA5 |
| 0.160969719 | < 0.001 | 27143 | KIAA1274 |
| 0.160895243 | < 0.001 | 23348 | DOCK9 |
| 0.160886616 | < 0.001 | 643418 | LIPN |
| 0.160869151 | < 0.001 | 55284 | UBE2W |
| 0.160863578 | < 0.001 | 51495 | PTPLAD1 |
| 0.16086182 | < 0.001 | 57010 | CABP4 |
| 0.160840452 | < 0.001 | 133015 | PACRGL |
| 0.160826519 | < 0.001 | 10499 | NCOA2 |
| 0.160819933 | < 0.001 | 53344 | CHIC1 |
| 0.160800621 | < 0.001 | 4801 | NFYB |
| 0.160770521 | < 0.001 | 63923 | TNN |
| 0.160768211 | < 0.001 | 10162 | U47924.1 |
| 0.160753161 | < 0.001 | 9653 | HS2ST1 |
| 0.160720468 | < 0.001 | 30009 | TBX21 |
| 0.160701156 | < 0.001 | 51149 | C5orf45 |
| 0.160661504 | < 0.001 | 29958 | DMGDH |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.167824969 | 0.3265661 | 0.361 | 1 | 23620 | NTSR2 |
| 0.167824969 | 0.3265661 | 0.353 | 1 | 51069 | MRPL2 |
| 0.167824969 | 0.3265661 | 0.353 | 1 | 59307 | SIGIRR |
| 0.167824969 | 0.3265661 | 0.356 | 1 | 79596 | RNF219 |
| 0.167824969 | 0.3265661 | 0.365 | 1 | 80336 | PABPC1L |
| 0.167824969 | 0.3265661 | 0.365 | 1 | 154288 | C6orf221 |
| 0.167824969 | 0.3265661 | 0.381 | 1 | 283871 | PGP |
| 0.167824969 | 0.3265661 | 0.405 | 1 | 285989 | ZNF789 |
| 0.167824969 | 0.3265661 | 0.39 | 1 | 100652929 | AC105337.1 |
| 0.167567566 | 0.327316999 | 0.381 | 1 | 182 | JAG1 |
| 0.167567566 | 0.327316999 | 0.379 | 1 | 4666 | NACA |
| 0.167567566 | 0.327316999 | 0.372 | 1 | 5058 | PAK1 |
| 0.167567566 | 0.327316999 | 0.341 | 1 | 8444 | DYRK3 |
| 0.167567566 | 0.327316999 | 0.343 | 1 | 10863 | ADAM28 |
| 0.167567566 | 0.327316999 | 0.375 | 1 | 55288 | RHOT1 |
| 0.167567566 | 0.327316999 | 0.368 | 1 | 374819 | LRRC37A3 |
| 0.167310163 | 0.328069061 | 0.371 | 1 | 83876 | MRO |
| 0.167310163 | 0.328069061 | 0.356 | 1 | 256130 | TMEM196 |
| 0.167052761 | 0.328822136 | 0.378 | 1 | 2651 | GCNT2 |
| 0.167052761 | 0.328822136 | 0.354 | 1 | 2681 | GGTA1 |
| 0.167052761 | 0.328822136 | 0.381 | 1 | 5358 | PLS3 |
| 0.167052761 | 0.328822136 | 0.341 | 1 | 8744 | TNFSF9 |
| 0.167052761 | 0.328822136 | 0.367 | 1 | 56910 | STARD7 |
| 0.167052761 | 0.328822136 | 0.357 | 1 | 201626 | PDE12 |
| 0.167052761 | 0.328822136 | 0.373 | 1 | 219743 | TYSND1 |
| 0.166795373 | 0.329576671 | 0.411 | 1 | 3270 | HRC |
| 0.166795373 | 0.329576671 | 0.372 | 1 | 9156 | EXO1 |
| 0.166795373 | 0.329576671 | 0.363 | 1 | 9371 | KIF3B |
| 0.166795373 | 0.329576671 | 0.403 | 1 | 10125 | RASGRP1 |
| 0.166795373 | 0.329576671 | 0.372 | 1 | 10134 | BCAP31 |
| 0.166795373 | 0.329576671 | 0.372 | 1 | 23152 | CIC |
| 0.166795373 | 0.329576671 | 0.365 | 1 | 57142 | RTN4 |
| 0.166795373 | 0.329576671 | 0.37 | 1 | 79925 | SPEF2 |
| 0.166795373 | 0.329576671 | 0.36 | 1 | 84665 | MYPN |
| 0.166795373 | 0.329576671 | 0.351 | 1 | 222950 | C7orf51 |
| 0.16653797 | 0.330331951 | 0.365 | 1 | 4976 | OPA1 |
| 0.16653797 | 0.330331951 | 0.369 | 1 | 5475 | PPEF1 |
| 0.16653797 | 0.330331951 | 0.378 | 1 | 23054 | NCOA6 |
| 0.16653797 | 0.330331951 | 0.406 | 1 | 23523 | CABIN1 |
| 0.166280568 | 0.331088305 | 0.418 | 1 | 7531 | YWHAE |
| 0.166280568 | 0.331088305 | 0.382 | 1 | 9447 | AIM2 |
| 0.166280568 | 0.331088305 | 0.375 | 1 | 84251 | SGIP1 |
| 0.166023165 | 0.331845701 | 0.376 | 1 | 10971 | YWHAQ |
| 0.166023165 | 0.331845701 | 0.347 | 1 | 51060 | TXNDC12 |
| 0.166023165 | 0.331845701 | 0.365 | 1 | 53840 | TRIM34 |
| 0.166023165 | 0.331845701 | 0.412 | 1 | 404217 | CTXN1 |
| 0.165765762 | 0.332604587 | 0.374 | 1 | 25875 | LETMD1 |
| 0.165765762 | 0.332604587 | 0.391 | 1 | 27034 | ACAD8 |
| 0.165765762 | 0.332604587 | 0.388 | 1 | 51652 | VPS24 |
| 0.165765762 | 0.332604587 | 0.38 | 1 | 55048 | VPS37C |
| 0.165765762 | 0.332604587 | 0.382 | 1 | 64333 | ARHGAP9 |
| 0.165250972 | 0.334124833 | 0.375 | 1 | 3756 | KCNH1 |
| 0.165250972 | 0.334124833 | 0.377 | 1 | 29094 | AC008074.2 |
| 0.165250972 | 0.334124833 | 0.356 | 1 | 55322 | C5orf22 |
| 0.165250972 | 0.334124833 | 0.368 | 1 | 59067 | IL21 |
| 0.164993569 | 0.33488664 | 0.387 | 1 | 339803 | AC016747.3 |
| 0.164993569 | 0.33488664 | 0.398 | 1 | 375323 | LHFPL4 |
| 0.164993569 | 0.33488664 | 0.36 | 1 | 375686 | SPATC1 |
| 0.164736167 | 0.335649818 | 0.363 | 1 | 4990 | SIX6 |
| 0.164736167 | 0.335649818 | 0.38 | 1 | 23625 | FAM89B |
| 0.164736167 | 0.335649818 | 0.386 | 1 | 27005 | USP21 |
| 0.164736167 | 0.335649818 | 0.395 | 1 | 51503 | CWC15 |
| 0.164736167 | 0.335649818 | 0.382 | 1 | 80007 | C10orf88 |
| 0.164736167 | 0.335649818 | 0.349 | 1 | 254956 | MORN5 |
| 0.164736167 | 0.335649818 | 0.377 | 1 | 728409 | C21orf54 |
| 0.164478764 | 0.336413711 | 0.393 | 1 | 5502 | PPP1R1A |
| 0.164478764 | 0.336413711 | 0.369 | 1 | 6209 | RPS15P5 |
| 0.164478764 | 0.336413711 | 0.383 | 1 | 23434 | C3orf27 |
| 0.164478764 | 0.336413711 | 0.361 | 1 | 28964 | GIT1 |
| 0.164478764 | 0.336413711 | 0.382 | 1 | 57623 | ZFAT |
| 0.164221361 | 0.337178737 | 0.372 | 1 | 10970 | CKAP4 |
| 0.164221361 | 0.337178737 | 0.371 | 1 | 317662 | FAM149B1 |
| 0.163963959 | 0.337944806 | 0.361 | 1 | 2155 | F7 |
| 0.163963959 | 0.337944806 | 0.378 | 1 | 54436 | SH3TC1 |
| 0.163963959 | 0.337944806 | 0.364 | 1 | 56986 | DTWD1 |
| 0.163963959 | 0.337944806 | 0.351 | 1 | 60673 | C12orf44 |
| 0.163963959 | 0.337944806 | 0.353 | 1 | 84967 | LSM10 |
| 0.163963959 | 0.337944806 | 0.371 | 1 | 220323 | OAF |
| 0.163963959 | 0.337944806 | 0.391 | 1 | 284406 | ZFP82 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.160639778 | < 0.001 | 7730 | ZNF177 |
| 0.160627797 | < 0.001 | 25893 | TRIM58 |
| 0.160599098 | < 0.001 | 118472 | ZNF511 |
| 0.160597801 | < 0.001 | 11070 | TMEM115 |
| 0.160573557 | < 0.001 | 8650 | NUMB |
| 0.160514772 | < 0.001 | 4832 | NME3 |
| 0.160468996 | < 0.001 | 64409 | WBSCR17 |
| 0.160432309 | < 0.001 | 10675 | CSPG5 |
| 0.160427019 | < 0.001 | 1131 | CHRM3 |
| 0.160338148 | < 0.001 | 9498 | SLC4A8 |
| 0.160280377 | < 0.001 | 643311 | CT47B1 |
| 0.16027379 | < 0.001 | 57534 | MIB1 |
| 0.160231069 | < 0.001 | 161725 | OTUD7A |
| 0.160229579 | < 0.001 | 84818 | IL17RC |
| 0.160227448 | < 0.001 | 92595 | ZNF764 |
| 0.160163283 | < 0.001 | 1611 | DAP |
| 0.160144791 | < 0.001 | 6744 | SSFA2 |
| 0.160102084 | < 0.001 | 2935 | GSPT1 |
| 0.160076171 | < 0.001 | 23464 | GCAT |
| 0.160074502 | < 0.001 | 56673 | C11orf16 |
| 0.160048872 | < 0.001 | 137902 | PXDNL |
| 0.159993336 | < 0.001 | 1017 | CDK2 |
| 0.159981638 | < 0.001 | 155051 | CRYGN |
| 0.159926847 | < 0.001 | 9497 | SLC4A7 |
| 0.159886912 | < 0.001 | 448835 | LCE6A |
| 0.159845948 | < 0.001 | 9501 | RPH3AL |
| 0.159827754 | < 0.001 | 149076 | ZNF362 |
| 0.159823388 | < 0.001 | 162394 | SLFN5 |
| 0.159820512 | < 0.001 | 146850 | PIK3R6 |
| 0.15976581 | < 0.001 | 5901 | RAN |
| 0.159709722 | < 0.001 | 22879 | MON1B |
| 0.159642488 | < 0.001 | 28232 | SLCO3A1 |
| 0.159621596 | < 0.001 | 4692 | NDN |
| 0.159610912 | < 0.001 | 3676 | ITGA4 |
| 0.159555197 | < 0.001 | 550643 | LOC550643 |
| 0.159486845 | < 0.001 | 733 | C8G |
| 0.159446999 | < 0.001 | 29802 | VPREB3 |
| 0.159428895 | < 0.001 | 7336 | UBE2V2 |
| 0.159216508 | < 0.001 | 570 | BAAT |
| 0.159199983 | < 0.001 | 389813 | AL355987.1 |
| 0.159137666 | < 0.001 | 441795 | HMGB3P27 |
| 0.159105167 | < 0.001 | 401250 | MCCD1 |
| 0.15902622 | < 0.001 | 57460 | PPM1H |
| 0.158982769 | < 0.001 | 80072 | HEXA-AS1 |
| 0.15892899 | < 0.001 | 29125 | C11orf21 |
| 0.158919245 | < 0.001 | 9094 | UNC119 |
| 0.158859909 | < 0.001 | 51281 | ANKMY1 |
| 0.158830836 | < 0.001 | 84364 | ARFGAP2 |
| 0.158776328 | < 0.001 | 8411 | EEA1 |
| 0.158685967 | < 0.001 | 3713 | IVL |
| 0.158676863 | < 0.001 | 9464 | HAND2 |
| 0.1586698 | < 0.001 | 4858 | NOVA2 |
| 0.158664048 | < 0.001 | 731789 | RP13-16H11.1 |
| 0.158663675 | < 0.001 | 27301 | APEX2 |
| 0.158651143 | < 0.001 | 716 | C1S |
| 0.158636838 | < 0.001 | 9200 | PTPLA |
| 0.158616692 | < 0.001 | 90355 | C5orf30 |
| 0.158609077 | < 0.001 | 283687 | AC015871.2 |
| 0.158564687 | < 0.001 | 5832 | ALDH18A1 |
| 0.158504784 | < 0.001 | 6009 | RHEB |
| 0.158497825 | < 0.001 | 22809 | ATF5 |
| 0.158483148 | < 0.001 | 84318 | CCDC77 |
| 0.158447295 | < 0.001 | 5641 | LGMN |
| 0.158416659 | < 0.001 | 83874 | TBC1D10A |
| 0.158400863 | < 0.001 | 55365 | TMEM176A |
| 0.15837802 | < 0.001 | 64101 | LRRC4 |
| 0.15837431 | < 0.001 | 65996 | AC016629.3 |
| 0.158363625 | < 0.001 | 8050 | PDHX |
| 0.158355922 | < 0.001 | 387755 | INSC |
| 0.158327416 | < 0.001 | 28977 | MRPL42 |
| 0.158264443 | < 0.001 | 445815 | PALM2-AKAP2 |
| 0.158256546 | < 0.001 | 57048 | PLSCR3 |
| 0.158254042 | < 0.001 | 100134713 | RP4-726N20.2 |
| 0.1582378 | < 0.001 | 10742 | RAI2 |
| 0.1582077 | < 0.001 | 6672 | SP100 |
| 0.158186898 | < 0.001 | 26517 | TIMM13 |
| 0.158176228 | < 0.001 | 399473 | SPRED3 |
| 0.158174187 | < 0.001 | 9203 | ZMYM3 |
| 0.158165827 | < 0.001 | 90957 | DHX57 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.163706556 | 0.338711947 | 0.42 | 1 | 1592 | CYP26A1 |
| 0.163706556 | 0.338711947 | 0.37 | 1 | 3202 | HOXA5 |
| 0.163706556 | 0.338711947 | 0.368 | 1 | 5507 | PPP1R3C |
| 0.163706556 | 0.338711947 | 0.398 | 1 | 22903 | BTBD3 |
| 0.163706556 | 0.338711947 | 0.388 | 1 | 54583 | EGLN1 |
| 0.163706556 | 0.338711947 | 0.393 | 1 | 144406 | WDR66 |
| 0.163449153 | 0.339480609 | 0.388 | 1 | 2262 | GPC5 |
| 0.163449153 | 0.339480609 | 0.378 | 1 | 55553 | SOX6 |
| 0.163449153 | 0.339480609 | 0.361 | 1 | 342945 | ZSCAN22 |
| 0.163191751 | 0.340249896 | 0.384 | 1 | 10329 | TMEM5 |
| 0.163191751 | 0.340249896 | 0.394 | 1 | 27111 | SDCBP2 |
| 0.163191751 | 0.340249896 | 0.377 | 1 | 57223 | SMEK2 |
| 0.163191751 | 0.340249896 | 0.338 | 1 | 161725 | OTUD7A |
| 0.162934363 | 0.341020256 | 0.372 | 1 | 4862 | NPAS2 |
| 0.162934363 | 0.341020256 | 0.367 | 1 | 6643 | SNX2 |
| 0.162934363 | 0.341020256 | 0.383 | 1 | 7008 | TEF |
| 0.162934363 | 0.341020256 | 0.393 | 1 | 7159 | TP53BP2 |
| 0.162934363 | 0.341020256 | 0.378 | 1 | 7699 | ZNF140 |
| 0.162934363 | 0.341020256 | 0.399 | 1 | 22990 | PCNX |
| 0.162934363 | 0.341020256 | 0.366 | 1 | 83481 | EPPK1 |
| 0.162934363 | 0.341020256 | 0.364 | 1 | 441543 | TTTY6B |
| 0.162934363 | 0.341020256 | 0.38 | 1 | 728927 | RP11-468B6.3 |
| 0.16267696 | 0.341791719 | 0.371 | 1 | 2636 | GBX1 |
| 0.162419558 | 0.342564672 | 0.351 | 1 | 25981 | DNAH1 |
| 0.162419558 | 0.342564672 | 0.428 | 1 | 64750 | SMURF2 |
| 0.162419558 | 0.342564672 | 0.372 | 1 | 84330 | ZNF414 |
| 0.162162155 | 0.343338281 | 0.386 | 1 | 23096 | IQSEC2 |
| 0.162162155 | 0.343338281 | 0.376 | 1 | 54784 | ALKBH4 |
| 0.162162155 | 0.343338281 | 0.374 | 1 | 126526 | C19orf47 |
| 0.162162155 | 0.343338281 | 0.376 | 1 | 146225 | CMTM2 |
| 0.161904752 | 0.344112962 | 0.376 | 1 | 2299 | FOXI1 |
| 0.161904752 | 0.344112962 | 0.399 | 1 | 4668 | NAGA |
| 0.161904752 | 0.344112962 | 0.368 | 1 | 51562 | MBIP |
| 0.161904752 | 0.344112962 | 0.364 | 1 | 55163 | PNPO |
| 0.161647364 | 0.344888806 | 0.4 | 1 | 1261 | CNGA3 |
| 0.161647364 | 0.344888806 | 0.415 | 1 | 6191 | RPS4X |
| 0.161647364 | 0.344888806 | 0.369 | 1 | 55276 | PGM2 |
| 0.161647364 | 0.344888806 | 0.384 | 1 | 57642 | COL20A1 |
| 0.161647364 | 0.344888806 | 0.373 | 1 | 118425 | RP11-610O8.1 |
| 0.161647364 | 0.344888806 | 0.375 | 1 | 140890 | SFRS12 |
| 0.161389962 | 0.345665634 | 0.409 | 1 | 1774 | DNASE1L1 |
| 0.161389962 | 0.345665634 | 0.384 | 1 | 9057 | SLC7A6 |
| 0.161389962 | 0.345665634 | 0.363 | 1 | 29942 | PURG |
| 0.161132559 | 0.346443951 | 0.396 | 1 | 4173 | MCM4 |
| 0.160875157 | 0.347223014 | 0.398 | 1 | 158 | ADSL |
| 0.160875157 | 0.347223014 | 0.405 | 1 | 779 | CACNA1S |
| 0.160875157 | 0.347223014 | 0.37 | 1 | 3984 | LIMK1 |
| 0.160875157 | 0.347223014 | 0.375 | 1 | 5777 | PTPN6 |
| 0.160875157 | 0.347223014 | 0.385 | 1 | 6401 | SELE |
| 0.160875157 | 0.347223014 | 0.395 | 1 | 10988 | METAP2 |
| 0.160875157 | 0.347223014 | 0.372 | 1 | 54851 | ANKRD49 |
| 0.160875157 | 0.347223014 | 0.399 | 1 | 79080 | CCDC86 |
| 0.160875157 | 0.347223014 | 0.402 | 1 | 79145 | CHCHD7 |
| 0.160875157 | 0.347223014 | 0.373 | 1 | 145389 | SLC38A6 |
| 0.160875157 | 0.347223014 | 0.404 | 1 | 163259 | DENND2C |
| 0.160875157 | 0.347223014 | 0.384 | 1 | 167410 | LIX1 |
| 0.160617754 | 0.348003089 | 0.405 | 1 | 3706 | ITPKA |
| 0.160617754 | 0.348003089 | 0.371 | 1 | 51032 | CELA2B |
| 0.160617754 | 0.348003089 | 0.371 | 1 | 119710 | C11orf74 |
| 0.160617754 | 0.348003089 | 0.377 | 1 | 150737 | TTC30B |
| 0.160360366 | 0.348784268 | 0.373 | 1 | 3783 | KCNN4 |
| 0.160360366 | 0.348784268 | 0.374 | 1 | 5189 | PEX1 |
| 0.160360366 | 0.348784268 | 0.371 | 1 | 7322 | UBE2D2 |
| 0.160360366 | 0.348784268 | 0.385 | 1 | 79036 | C19orf50 |
| 0.160360366 | 0.348784268 | 0.382 | 1 | 79893 | GGNBP2 |
| 0.160360366 | 0.348784268 | 0.372 | 1 | 347741 | OTOP3 |
| 0.160102963 | 0.349566877 | 0.379 | 1 | 136 | ADORA2B |
| 0.160102963 | 0.349566877 | 0.391 | 1 | 1444 | CSHL1 |
| 0.160102963 | 0.349566877 | 0.387 | 1 | 4706 | NDUFAB1 |
| 0.160102963 | 0.349566877 | 0.37 | 1 | 79573 | TTC13 |
| 0.160102963 | 0.349566877 | 0.376 | 1 | 400966 | RGPD1 |
| 0.159845561 | 0.350350201 | 0.355 | 1 | 147686 | ZNF418 |
| 0.159845561 | 0.350350201 | 0.385 | 1 | 285501 | AC021850.1 |
| 0.159588158 | 0.351134628 | 0.383 | 1 | 5481 | PPID |
| 0.159330755 | 0.351920068 | 0.384 | 1 | 31 | ACACA |
| 0.159330755 | 0.351920068 | 0.373 | 1 | 673 | BRAF |
| 0.159330755 | 0.351920068 | 0.396 | 1 | 7168 | TPM1 |
| 0.159330755 | 0.351920068 | 0.393 | 1 | 64780 | MICAL1 |
| 0.159330755 | 0.351920068 | 0.384 | 1 | 135138 | PACRG |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.158129603 | < 0.001 | 3161 | HMMR |
| 0.158088923 | < 0.001 | 11247 | NXPH4 |
| 0.158080101 | < 0.001 | 4976 | OPA1 |
| 0.158046395 | < 0.001 | 79639 | TMEM53 |
| 0.15800488 | < 0.001 | 27286 | SRPX2 |
| 0.157999679 | < 0.001 | 473 | RERE |
| 0.157981202 | < 0.001 | 8766 | RAB11A |
| 0.157974884 | < 0.001 | 7556 | ZNF10 |
| 0.157941923 | < 0.001 | 6492 | SIM1 |
| 0.157912388 | < 0.001 | 160364 | CLEC12A |
| 0.157810986 | < 0.001 | 83933 | HDAC10 |
| 0.15778777 | < 0.001 | 165679 | SPTSSB |
| 0.15777272 | < 0.001 | 27434 | POLM |
| 0.157771334 | < 0.001 | 1384 | CRAT |
| 0.157748669 | < 0.001 | 91 | ACVR1B |
| 0.157511577 | < 0.001 | 8862 | APLN |
| 0.157455206 | < 0.001 | 5539 | PPY |
| 0.157451779 | < 0.001 | 2671 | GFER |
| 0.15737915 | < 0.001 | 64112 | MOAP1 |
| 0.157347202 | < 0.001 | 135927 | C7orf34 |
| 0.157342374 | < 0.001 | 1673 | DEFB4 |
| 0.157321677 | < 0.001 | 79168 | LILRA6 |
| 0.157318607 | < 0.001 | 219541 | MED19 |
| 0.15731591 | < 0.001 | 6795 | AURKC |
| 0.15730755 | < 0.001 | 7874 | USP7 |
| 0.157274127 | < 0.001 | 84948 | TIGD5 |
| 0.157215983 | < 0.001 | 59341 | TRPV4 |
| 0.15720661 | < 0.001 | 353137 | LCE1F |
| 0.157159254 | < 0.001 | 81689 | ISCA1 |
| 0.1571365 | < 0.001 | 286753 | TUSC5 |
| 0.157115966 | < 0.001 | 6251 | RSU1 |
| 0.157115787 | < 0.001 | 84058 | WDR54 |
| 0.157075763 | < 0.001 | 339906 | RP11-427P5.1 |
| 0.15701437 | < 0.001 | 9150 | CTDP1 |
| 0.157012701 | < 0.001 | 51294 | PCDH12 |
| 0.156893373 | < 0.001 | 27330 | RPS6KA6 |
| 0.156842485 | < 0.001 | 114990 | VASN |
| 0.156840622 | < 0.001 | 266 | AMELY |
| 0.156804129 | < 0.001 | 10618 | TGOLN2 |
| 0.156788245 | < 0.001 | 2217 | FCGRT |
| 0.156781837 | < 0.001 | 165100 | C2orf57 |
| 0.156761691 | < 0.001 | 2046 | EPHA8 |
| 0.156759828 | < 0.001 | 4543 | MTNR1A |
| 0.156755283 | < 0.001 | 51375 | SNX7 |
| 0.156510577 | < 0.001 | 25929 | GEMIN5 |
| 0.15650101 | < 0.001 | 389705 | LOC389705 |
| 0.156455606 | < 0.001 | 10248 | POP7 |
| 0.156419471 | < 0.001 | 9805 | SCRN1 |
| 0.156405553 | < 0.001 | 3837 | KPNB1 |
| 0.156273961 | 2.8026E-45 | 7704 | ZBTB16 |
| 0.156248137 | 2.8026E-45 | 55629 | PNRC2 |
| 0.156185642 | 2.8026E-45 | 126382 | NR2C2AP |
| 0.156154439 | 2.8026E-45 | 27090 | ST6GALNAC4 |
| 0.156153232 | 2.8026E-45 | 29993 | PACSIN1 |
| 0.156142458 | 2.8026E-45 | 65003 | MRPL11 |
| 0.156128615 | 2.8026E-45 | 339318 | ZNF181 |
| 0.156120628 | 2.8026E-45 | 401533 | LOC401533 |
| 0.156014308 | 2.8026E-45 | 22974 | TPX2 |
| 0.156007245 | 2.8026E-45 | 161635 | CSNK1A1P1 |
| 0.156004459 | 2.8026E-45 | 23434 | C3orf27 |
| 0.155905843 | 2.8026E-45 | 203069 | R3HCC1 |
| 0.15587537 | 5.60519E-45 | 80332 | ADAM33 |
| 0.155865803 | 5.60519E-45 | 83932 | C1orf124 |
| 0.155811384 | 5.60519E-45 | 1123 | CHN1 |
| 0.155792266 | 5.60519E-45 | 441061 | MARCHF11 |
| 0.155657604 | 5.60519E-45 | 79101 | TAF1D |
| 0.155633926 | 5.60519E-45 | 55704 | CCDC88A |
| 0.155632347 | 5.60519E-45 | 25917 | THUMPD3 |
| 0.155507818 | 5.60519E-45 | 9422 | ZNF264 |
| 0.155502424 | 5.60519E-45 | 51088 | KLHL5 |
| 0.155492112 | 5.60519E-45 | 2806 | GOT2 |
| 0.155468434 | 5.60519E-45 | 43849 | KLK12 |
| 0.155450702 | 5.60519E-45 | 155368 | WBSCR27 |
| 0.155436307 | 5.60519E-45 | 8844 | KSR1 |
| 0.155403897 | 5.60519E-45 | 9701 | SAPS2 |
| 0.155326635 | 5.60519E-45 | 51275 | C12ORF47 |
| 0.155308247 | 5.60519E-45 | 219749 | ZNF25 |
| 0.15529339 | 5.60519E-45 | 57325 | CSRP2BP |
| 0.155277416 | 8.40779E-45 | 127262 | TPRG1L |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.159330755 | 0.351920068 | 0.385 | 1 | 401431 | RP4-751H13.1 |
| 0.159073368 | 0.352707028 | 0.386 | 1 | 8909 | AC004241.1 |
| 0.159073368 | 0.352707028 | 0.415 | 1 | 9889 | ZBED4 |
| 0.159073368 | 0.352707028 | 0.398 | 1 | 10170 | DHRS9 |
| 0.159073368 | 0.352707028 | 0.378 | 1 | 55929 | DMAP1 |
| 0.159073368 | 0.352707028 | 0.427 | 1 | 57695 | USP37 |
| 0.159073368 | 0.352707028 | 0.414 | 1 | 57862 | ZNF410 |
| 0.159073368 | 0.352707028 | 0.381 | 1 | 220213 | OTUD1 |
| 0.158815965 | 0.353494585 | 0.382 | 1 | 6281 | S100A10 |
| 0.158815965 | 0.353494585 | 0.374 | 1 | 7582 | ZNF33B |
| 0.158815965 | 0.353494585 | 0.42 | 1 | 55197 | RPRD1A |
| 0.158815965 | 0.353494585 | 0.398 | 1 | 64409 | WBSCR17 |
| 0.158558562 | 0.354283333 | 0.357 | 1 | 513 | ATP5D |
| 0.158558562 | 0.354283333 | 0.411 | 1 | 3633 | INPP5B |
| 0.158558562 | 0.354283333 | 0.384 | 1 | 4836 | NMT1 |
| 0.158558562 | 0.354283333 | 0.381 | 1 | 5149 | PDE6H |
| 0.158558562 | 0.354283333 | 0.42 | 1 | 8792 | TNFRSF11A |
| 0.158558562 | 0.354283333 | 0.381 | 1 | 11146 | GLMN |
| 0.158558562 | 0.354283333 | 0.386 | 1 | 23461 | ABCA5 |
| 0.158558562 | 0.354283333 | 0.393 | 1 | 114794 | LRRC62 |
| 0.15830116 | 0.355073154 | 0.423 | 1 | 11160 | ERLIN2 |
| 0.15830116 | 0.355073154 | 0.392 | 1 | 646934 | LOC646934 |
| 0.158043757 | 0.355863959 | 0.383 | 1 | 57156 | TMEM63C |
| 0.158043757 | 0.355863959 | 0.375 | 1 | 201161 | CENPV |
| 0.157786369 | 0.356656253 | 0.41 | 1 | 2719 | GPC3 |
| 0.157786369 | 0.356656253 | 0.402 | 1 | 56647 | BCCIP |
| 0.157786369 | 0.356656253 | 0.394 | 1 | 147727 | LOC147727 |
| 0.157786369 | 0.356656253 | 0.419 | 1 | 389903 | CSAG3 |
| 0.157786369 | 0.356656253 | 0.397 | 1 | 729873 | TBC1D3E |
| 0.157528967 | 0.357449234 | 0.402 | 1 | 7203 | CCT3 |
| 0.157528967 | 0.357449234 | 0.428 | 1 | 29967 | LRP12 |
| 0.157528967 | 0.357449234 | 0.406 | 1 | 55001 | TTC22 |
| 0.157528967 | 0.357449234 | 0.409 | 1 | 130271 | PLEKHH2 |
| 0.157271549 | 0.358243316 | 0.385 | 1 | 9711 | KIAA0226 |
| 0.157271549 | 0.358243316 | 0.388 | 1 | 26747 | NUFIP1 |
| 0.157271549 | 0.358243316 | 0.384 | 1 | 51386 | EIF3L |
| 0.157271549 | 0.358243316 | 0.409 | 1 | 374491 | TPTE2P6 |
| 0.157014146 | 0.359038472 | 0.424 | 1 | 30001 | ERO1L |
| 0.157014146 | 0.359038472 | 0.403 | 1 | 55735 | DNAJC11 |
| 0.157014146 | 0.359038472 | 0.367 | 1 | 84265 | POLR3GL |
| 0.156756744 | 0.359834999 | 0.393 | 1 | 4048 | LTA4H |
| 0.156499341 | 0.36063233 | 0.405 | 1 | 10519 | CIB1 |
| 0.156499341 | 0.36063233 | 0.388 | 1 | 10869 | USP19 |
| 0.156499341 | 0.36063233 | 0.387 | 1 | 22934 | RPIA |
| 0.156499341 | 0.36063233 | 0.413 | 1 | 55728 | N4BP2 |
| 0.156499341 | 0.36063233 | 0.383 | 1 | 284612 | SYPL2 |
| 0.156499341 | 0.36063233 | 0.396 | 1 | 100130733 | LRRC70 |
| 0.156241953 | 0.361430645 | 0.377 | 1 | 1359 | CPA3 |
| 0.156241953 | 0.361430645 | 0.436 | 1 | 2938 | GSTA1 |
| 0.156241953 | 0.361430645 | 0.379 | 1 | 54413 | NLGN3 |
| 0.156241953 | 0.361430645 | 0.408 | 1 | 56270 | WDR45L |
| 0.156241953 | 0.361430645 | 0.395 | 1 | 152789 | JAKMIP1 |
| 0.155984551 | 0.362230092 | 0.39 | 1 | 2261 | FGFR3 |
| 0.155984551 | 0.362230092 | 0.389 | 1 | 4353 | MPO |
| 0.155984551 | 0.362230092 | 0.404 | 1 | 9340 | GLP2R |
| 0.155727148 | 0.36303091 | 0.43 | 1 | 57348 | TTYH1 |
| 0.155727148 | 0.36303091 | 0.398 | 1 | 126133 | ALDH16A1 |
| 0.155727148 | 0.36303091 | 0.418 | 1 | 494470 | RNF165 |
| 0.155727148 | 0.36303091 | 0.419 | 1 | 643394 | SPINK9 |
| 0.155469745 | 0.363832504 | 0.376 | 1 | 247 | ALOX15B |
| 0.155469745 | 0.363832504 | 0.426 | 1 | 1846 | DUSP4 |
| 0.155469745 | 0.363832504 | 0.387 | 1 | 4154 | MBNL1 |
| 0.155469745 | 0.363832504 | 0.399 | 1 | 8621 | CDC2L5 |
| 0.155469745 | 0.363832504 | 0.414 | 1 | 85378 | TUBGCP6 |
| 0.155212343 | 0.36463517 | 0.424 | 1 | 11122 | PTPRT |
| 0.155212343 | 0.36463517 | 0.392 | 1 | 55827 | IQWD1 |
| 0.155212343 | 0.36463517 | 0.409 | 1 | 55974 | RAG1AP1 |
| 0.155212343 | 0.36463517 | 0.359 | 1 | 112464 | PRKCDBP |
| 0.154954955 | 0.365438849 | 0.402 | 1 | 2197 | FAU |
| 0.154954955 | 0.365438849 | 0.393 | 1 | 2824 | GPM6B |
| 0.154954955 | 0.365438849 | 0.408 | 1 | 7380 | UPK3A |
| 0.154954955 | 0.365438849 | 0.395 | 1 | 23118 | MAP3K7IP2 |
| 0.154954955 | 0.365438849 | 0.407 | 1 | 79839 | CCDC102B |
| 0.154954955 | 0.365438849 | 0.386 | 1 | 84687 | PPP1R9B |
| 0.154697552 | 0.366243631 | 0.393 | 1 | 91 | ACVR1B |
| 0.154697552 | 0.366243631 | 0.442 | 1 | 7343 | UBTF |
| 0.154697552 | 0.366243631 | 0.428 | 1 | 23510 | KCTD2 |
| 0.154697552 | 0.366243631 | 0.418 | 1 | 27287 | VENTX |
| 0.154697552 | 0.366243631 | 0.394 | 1 | 80039 | FAM106A |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.15527685 | 8.40779E-45 | 80317 | ZKSCAN3 |
| 0.155260608 | 8.40779E-45 | 149069 | DCDC2B |
| 0.155232087 | 8.40779E-45 | 11317 | RBPJL |
| 0.155206084 | 8.40779E-45 | 79568 | C2orf47 |
| 0.155196249 | 8.40779E-45 | 118932 | ANKRD22 |
| 0.155161053 | 1.12104E-44 | 387601 | SLC22A25 |
| 0.155151114 | 1.12104E-44 | 585 | BBS4 |
| 0.155137271 | 1.12104E-44 | 113278 | C20orf54 |
| 0.155126691 | 1.12104E-44 | 23426 | GRIP1 |
| 0.155078024 | 1.12104E-44 | 84832 | ANKRD36BL1 |
| 0.15501228 | 1.12104E-44 | 311 | ANXA11 |
| 0.154997885 | 1.12104E-44 | 63914 | C6orf164 |
| 0.154957578 | 1.12104E-44 | 58191 | CXCL16 |
| 0.154897779 | 1.12104E-44 | 266722 | HS6ST3 |
| 0.154853567 | 1.4013E-44 | 221303 | FAM162B |
| 0.154837593 | 1.4013E-44 | 6489 | ST8SIA1 |
| 0.154769897 | 1.68156E-44 | 51177 | PLEKHO1 |
| 0.154763311 | 1.68156E-44 | 114042 | LINC00334 |
| 0.154758483 | 1.68156E-44 | 151449 | GDF7 |
| 0.154632822 | 1.68156E-44 | 255349 | TMEM211 |
| 0.154567078 | 1.96182E-44 | 91750 | LIN52 |
| 0.154500499 | 2.24208E-44 | 54460 | MRPS21 |
| 0.154480904 | 2.24208E-44 | 6006 | RHCE |
| 0.154471979 | 2.24208E-44 | 4585 | MUC4 |
| 0.154405221 | 2.24208E-44 | 4803 | NGF |
| 0.154402614 | 2.24208E-44 | 259217 | HSPA12A |
| 0.15436621 | 2.52234E-44 | 51109 | RDH11 |
| 0.154334262 | 2.8026E-44 | 2054 | STX2 |
| 0.154304728 | 2.8026E-44 | 10691 | GMEB1 |
| 0.154281512 | 2.8026E-44 | 11182 | SLC2A6 |
| 0.154252082 | 2.8026E-44 | 392390 | OR1L6 |
| 0.154230252 | 3.08286E-44 | 81622 | UNC93B3 |
| 0.154206112 | 3.08286E-44 | 25942 | SIN3A |
| 0.154198676 | 3.36312E-44 | 9604 | RNF14 |
| 0.154191345 | 3.36312E-44 | 547 | KIF1A |
| 0.154163212 | 3.36312E-44 | 387712 | C10orf134 |
| 0.154146492 | 3.36312E-44 | 54867 | TMEM214 |
| 0.154090211 | 3.64338E-44 | 55635 | DEPDC1 |
| 0.153915063 | 4.48416E-44 | 5620 | PRM2 |
| 0.153883487 | 4.76441E-44 | 22905 | EPN2 |
| 0.153869569 | 4.76441E-44 | 23200 | ATP11B |
| 0.153861761 | 5.04467E-44 | 285679 | AC136604.1 |
| 0.153824612 | 5.04467E-44 | 574029 | DUSP5P |
| 0.15374364 | 5.60519E-44 | 147664 | ERVV-1 |
| 0.153727472 | 5.60519E-44 | 164832 | LONRF2 |
| 0.15369758 | 6.16571E-44 | 255809 | C19orf38 |
| 0.153567001 | 7.28675E-44 | 4644 | MYO5A |
| 0.153469399 | 7.84727E-44 | 83940 | TATDN1 |
| 0.153405607 | 8.68805E-44 | 7041 | TGFB1I1 |
| 0.153361961 | 9.24857E-44 | 348158 | ACSM2 |
| 0.153301969 | 1.00893E-43 | 28951 | TRIB2 |
| 0.153293788 | 1.00893E-43 | 256933 | NPB |
| 0.15328005 | 1.00893E-43 | 147929 | ZNF565 |
| 0.153277636 | 1.00893E-43 | 3953 | LEPR |
| 0.153160632 | 1.17709E-43 | 170589 | GPHA2 |
| 0.153074354 | 1.34525E-43 | 6843 | VAMP1 |
| 0.152929947 | 1.59748E-43 | 56979 | PRDM9 |
| 0.152922139 | 1.62551E-43 | 9950 | GOLGA5 |
| 0.152884439 | 1.68156E-43 | 10081 | PDCD7 |
| 0.152876824 | 1.70958E-43 | 410 | ARSA |
| 0.152843669 | 1.79366E-43 | 5569 | PKIA |
| 0.152828813 | 1.82169E-43 | 100128496 | C20orf78 |
| 0.152761489 | 1.96182E-43 | 47 | ACLY |
| 0.152758241 | 1.98984E-43 | 81608 | FIP1L1 |
| 0.152754799 | 1.98984E-43 | 65977 | PLEKHA3 |
| 0.152666211 | 2.24208E-43 | 4712 | NDUFB6 |
| 0.152649209 | 2.29813E-43 | 85014 | TMEM141 |
| 0.152643725 | 2.29813E-43 | 126075 | AC024575.3 |
| 0.152640671 | 2.29813E-43 | 171568 | POLR3H |
| 0.152555227 | 2.57839E-43 | 359 | AQP2 |
| 0.152547434 | 2.57839E-43 | 5820 | PVT1 |
| 0.15247713 | 2.85865E-43 | 90655 | TGIF2LY |
| 0.152452156 | 2.9147E-43 | 8459 | TPST2 |
| 0.152371258 | 3.25101E-43 | 170679 | PSORS1C1 |
| 0.152366802 | 3.25101E-43 | 4045 | LSAMP |
| 0.152359843 | 3.30706E-43 | 56131 | PCDHB4 |
| 0.152279228 | 3.64338E-43 | 5346 | PLIN |
| 0.152275607 | 3.6714E-43 | 374569 | ASPG |
| 0.152266413 | 3.69943E-43 | 387 | RHOA |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.154697552 | 0.366243631 | 0.421 | 1 | 285172 | FAM126B |
| 0.15444015 | 0.367049783 | 0.386 | 1 | 3983 | ABLIM1 |
| 0.15444015 | 0.367049783 | 0.413 | 1 | 6594 | SMARCA1 |
| 0.15444015 | 0.367049783 | 0.407 | 1 | 10800 | CYSLTR1 |
| 0.15444015 | 0.367049783 | 0.413 | 1 | 23398 | PPWD1 |
| 0.15444015 | 0.367049783 | 0.401 | 1 | 56995 | TULP4 |
| 0.15444015 | 0.367049783 | 0.407 | 1 | 60686 | C14orf93 |
| 0.15444015 | 0.367049783 | 0.44 | 1 | 79847 | TMEM180 |
| 0.154182747 | 0.367856711 | 0.422 | 1 | 10495 | ENOX2 |
| 0.154182747 | 0.367856711 | 0.414 | 1 | 23144 | ZC3H3 |
| 0.154182747 | 0.367856711 | 0.428 | 1 | 50649 | ARHGEF4 |
| 0.154182747 | 0.367856711 | 0.425 | 1 | 56001 | NXF2 |
| 0.154182747 | 0.367856711 | 0.42 | 1 | 81533 | ITFG1 |
| 0.153925344 | 0.368664712 | 0.427 | 1 | 83873 | GPR61 |
| 0.153667957 | 0.369473726 | 0.383 | 1 | 1716 | DGUOK |
| 0.153667957 | 0.369473726 | 0.375 | 1 | 3552 | IL1A |
| 0.153667957 | 0.369473726 | 0.374 | 1 | 6860 | SYT4 |
| 0.153667957 | 0.369473726 | 0.395 | 1 | 10485 | C1orf61 |
| 0.153667957 | 0.369473726 | 0.404 | 1 | 23586 | DDX58 |
| 0.153667957 | 0.369473726 | 0.415 | 1 | 56931 | DUS3L |
| 0.153667957 | 0.369473726 | 0.415 | 1 | 80243 | PREX2 |
| 0.153667957 | 0.369473726 | 0.393 | 1 | 440153 | OR11H12 |
| 0.153667957 | 0.369473726 | 0.438 | 1 | 731275 | LOC731275 |
| 0.153410554 | 0.3702842 | 0.382 | 1 | 2987 | GUK1 |
| 0.153410554 | 0.3702842 | 0.403 | 1 | 26128 | KIAA1279 |
| 0.153410554 | 0.3702842 | 0.393 | 1 | 79843 | FAM124B |
| 0.153410554 | 0.3702842 | 0.412 | 1 | 84649 | DGAT2 |
| 0.153153151 | 0.371095359 | 0.405 | 1 | 4504 | MT3 |
| 0.153153151 | 0.371095359 | 0.402 | 1 | 10643 | IGF2BP3 |
| 0.153153151 | 0.371095359 | 0.409 | 1 | 57582 | KCNT1 |
| 0.153153151 | 0.371095359 | 0.434 | 1 | 84695 | LOXL3 |
| 0.153153151 | 0.371095359 | 0.419 | 1 | 90826 | PRMT10 |
| 0.152895749 | 0.371907622 | 0.4 | 1 | 1780 | DYNC1I1 |
| 0.152895749 | 0.371907622 | 0.411 | 1 | 4437 | MSH3 |
| 0.152895749 | 0.371907622 | 0.401 | 1 | 11197 | WIF1 |
| 0.152895749 | 0.371907622 | 0.405 | 1 | 64145 | ZFYVE20 |
| 0.152895749 | 0.371907622 | 0.404 | 1 | 91768 | CABLES1 |
| 0.152895749 | 0.371907622 | 0.433 | 1 | 222234 | FAM185A |
| 0.152895749 | 0.371907622 | 0.408 | 1 | 374786 | EFCAB5 |
| 0.152895749 | 0.371907622 | 0.395 | 1 | 100169750 | PRINS |
| 0.152638346 | 0.372720897 | 0.391 | 1 | 1595 | CYP51A1 |
| 0.152638346 | 0.372720897 | 0.406 | 1 | 7164 | TPD52L1 |
| 0.152638346 | 0.372720897 | 0.439 | 1 | 554251 | FBXO48 |
| 0.152380958 | 0.373535663 | 0.405 | 1 | 1052 | CEBPD |
| 0.152123556 | 0.374351114 | 0.423 | 1 | 1457 | CSNK2A1 |
| 0.152123556 | 0.374351114 | 0.397 | 1 | 3963 | LGALS7 |
| 0.152123556 | 0.374351114 | 0.414 | 1 | 9720 | CCDC144A |
| 0.152123556 | 0.374351114 | 0.414 | 1 | 10467 | ZNHIT1 |
| 0.152123556 | 0.374351114 | 0.413 | 1 | 51385 | ZNF589 |
| 0.152123556 | 0.374351114 | 0.399 | 1 | 286128 | ZFP41 |
| 0.151866153 | 0.375167578 | 0.415 | 1 | 7141 | TNP1 |
| 0.151866153 | 0.375167578 | 0.422 | 1 | 26019 | UPF2 |
| 0.151866153 | 0.375167578 | 0.442 | 1 | 81562 | LMAN2L |
| 0.151866153 | 0.375167578 | 0.396 | 1 | 100129034 | LOC100129034 |
| 0.15160875 | 0.375985116 | 0.424 | 1 | 4833 | NME4 |
| 0.15160875 | 0.375985116 | 0.421 | 1 | 6610 | SMPD2 |
| 0.15160875 | 0.375985116 | 0.426 | 1 | 51678 | MPP6 |
| 0.15160875 | 0.375985116 | 0.403 | 1 | 339896 | GADL1 |
| 0.151351348 | 0.376803726 | 0.42 | 1 | 4633 | MYL2 |
| 0.151351348 | 0.376803726 | 0.419 | 1 | 115286 | SLC25A26 |
| 0.151351348 | 0.376803726 | 0.398 | 1 | 151056 | PLB1 |
| 0.15109396 | 0.377623826 | 0.416 | 1 | 2743 | GLRB |
| 0.15109396 | 0.377623826 | 0.44 | 1 | 8128 | ST8SIA2 |
| 0.15109396 | 0.377623826 | 0.416 | 1 | 9404 | LPXN |
| 0.15109396 | 0.377623826 | 0.384 | 1 | 51507 | C20orf43 |
| 0.15109396 | 0.377623826 | 0.422 | 1 | 55366 | LGR4 |
| 0.15109396 | 0.377623826 | 0.418 | 1 | 84343 | HPS3 |
| 0.15109396 | 0.377623826 | 0.406 | 1 | 286467 | RP11-453F18__B.1 |
| 0.15109396 | 0.377623826 | 0.43 | 1 | 442038 | SULT1C3 |
| 0.150836557 | 0.378444523 | 0.4 | 1 | 2844 | GPR21 |
| 0.150836557 | 0.378444523 | 0.402 | 1 | 56849 | TCEAL7 |
| 0.150836557 | 0.378444523 | 0.425 | 1 | 143689 | PIWIL4 |
| 0.150836557 | 0.378444523 | 0.427 | 1 | 160065 | PATE1 |
| 0.150836557 | 0.378444523 | 0.398 | 1 | 340529 | PABPC1L2A |
| 0.150836557 | 0.378444523 | 0.414 | 1 | 344405 | NCRNA00117 |
| 0.150836557 | 0.378444523 | 0.401 | 1 | 353088 | ZNF429 |
| 0.150579154 | 0.379266351 | 0.421 | 1 | 55754 | TMEM30A |
| 0.150579154 | 0.379266351 | 0.409 | 1 | 57172 | CAMK1G |
| 0.150579154 | 0.379266351 | 0.411 | 1 | 340665 | CYP26C1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.152254254 | 3.75548E-43 | 29968 | PSAT1 |
| 0.152192965 | 4.06377E-43 | 2939 | GSTA2 |
| 0.152132511 | 4.40008E-43 | 267002 | PGBD2 |
| 0.152129248 | 4.4281E-43 | 23597 | ACOT9 |
| 0.152106881 | 4.54021E-43 | 151050 | C2orf67 |
| 0.152089417 | 4.65231E-43 | 85320 | ABCC11 |
| 0.152062759 | 4.82047E-43 | 9263 | STK17A |
| 0.151952997 | 5.52112E-43 | 388325 | SCIMP |
| 0.151877776 | 6.05361E-43 | 57647 | DHX37 |
| 0.151835427 | 6.38992E-43 | 64763 | ZNF574 |
| 0.1517355 | 7.25873E-43 | 9326 | ZNHIT3 |
| 0.151699096 | 7.59504E-43 | 374899 | ZNF829 |
| 0.151667252 | 7.90332E-43 | 9550 | ATP6V1G1 |
| 0.151631489 | 8.29569E-43 | 283171 | C11orf44 |
| 0.151626483 | 8.32371E-43 | 140832 | WFDC10A |
| 0.151583761 | 8.80015E-43 | 219409 | GSX1 |
| 0.151576057 | 8.85621E-43 | 2128 | EVX1 |
| 0.151548102 | 9.19252E-43 | 125931 | CEACAM20 |
| 0.151493862 | 9.86514E-43 | 25979 | DHRS7B |
| 0.151489779 | 9.89317E-43 | 53358 | SHC3 |
| 0.151458755 | 1.02855E-42 | 131377 | KBTBD5 |
| 0.1513111 | 1.23875E-42 | 50940 | PDE11A |
| 0.151255846 | 1.32843E-42 | 3981 | LIG4 |
| 0.151249349 | 1.33964E-42 | 10939 | AFG3L2 |
| 0.151182771 | 1.45735E-42 | 56889 | TM9SF3 |
| 0.151153415 | 1.5134E-42 | 55740 | ENAH |
| 0.151063889 | 1.69277E-42 | 29110 | TBK1 |
| 0.151059717 | 1.69837E-42 | 27121 | DKK4 |
| 0.151033536 | 1.75723E-42 | 399881 | HNRNPKP3 |
| 0.150990158 | 1.85532E-42 | 2877 | GPX2 |
| 0.150825977 | 2.28131E-42 | 27349 | MCAT |
| 0.150788262 | 2.39062E-42 | 284485 | C1orf230 |
| 0.150779441 | 2.41584E-42 | 153478 | PLEKHG4B |
| 0.15074648 | 2.51953E-42 | 54545 | MTMR12 |
| 0.150684252 | 2.72412E-42 | 337969 | KRTAP19-2 |
| 0.150520161 | 3.3463E-42 | 9582 | APOBEC3B |
| 0.150483206 | 3.50325E-42 | 1620 | DBC1 |
| 0.150482833 | 3.50605E-42 | 80714 | PBX4 |
| 0.150478557 | 3.52567E-42 | 2591 | GALNT3 |
| 0.150450423 | 3.64898E-42 | 196993 | AC068181.1 |
| 0.150423393 | 3.7779E-42 | 51052 | PRLH |
| 0.150381789 | 3.97969E-42 | 340811 | AKR1CL1 |
| 0.150380224 | 3.98529E-42 | 127579 | DCST2 |
| 0.150331274 | 4.23753E-42 | 27022 | FOXD3 |
| 0.150308892 | 4.35804E-42 | 283455 | KSR2 |
| 0.150206 | 4.95499E-42 | 84766 | EFCAB4B |
| 0.150195509 | 5.02225E-42 | 4640 | MYO1A |
| 0.150134772 | 5.41462E-42 | 100131816 | RP1-215K18.2 |
| 0.150111839 | 5.57437E-42 | 55814 | BDP1 |
| 0.150090382 | 5.72571E-42 | 54466 | SPIN2A |
| 0.150048688 | 6.03119E-42 | 10134 | BCAP31 |
| 0.150010511 | 6.32546E-42 | 53615 | MBD3 |
| 0.149899453 | 7.26433E-42 | 4134 | MAP4 |
| 0.149812713 | 8.0939E-42 | 9989 | PPP4R1 |
| 0.14980343 | 8.18919E-42 | 59350 | RXFP1 |
| 0.149764508 | 8.59556E-42 | 729739 | LOC729739 |
| 0.149733871 | 8.92907E-42 | 150353 | DNAJB7 |
| 0.149709821 | 9.20093E-42 | 4863 | NPAT |
| 0.149667844 | 9.69699E-42 | 51804 | SIX4 |
| 0.149611101 | 1.04032E-41 | 51637 | C14orf166 |
| 0.149536625 | 1.14122E-41 | 2074 | ERCC6 |
| 0.149536341 | 1.14178E-41 | 9914 | ATP2C2 |
| 0.149511456 | 1.17765E-41 | 388886 | C22orf36 |
| 0.149395838 | 1.35982E-41 | 90701 | SEC11C |
| 0.149394259 | 1.36234E-41 | 9856 | KIAA0319 |
| 0.149339557 | 1.45819E-41 | 26995 | TRUB2 |
| 0.149236858 | 1.65633E-41 | 131034 | CPNE4 |
| 0.149207592 | 1.71771E-41 | 351 | APP |
| 0.149132937 | 1.88447E-41 | 56344 | CABP5 |
| 0.149118632 | 1.9181E-41 | 79750 | ZNF385D |
| 0.149072483 | 2.03104E-41 | 138652 | PRSS47 |
| 0.149055675 | 2.07392E-41 | 51463 | GPR89B |
| 0.149040252 | 2.11372E-41 | 9253 | NUMBL |
| 0.148978874 | 2.28075E-41 | 347468 | OR13H1 |
| 0.148970053 | 2.30598E-41 | 5710 | PSMD4 |
| 0.148884326 | 2.5641E-41 | 25920 | COBRA1 |
| 0.148841977 | 2.70226E-41 | 84221 | C21orf56 |
| 0.14878571 | 2.89704E-41 | 10231 | RCAN2 |
| 0.148769364 | 2.95618E-41 | 132851 | SPATA4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.150579154 | 0.379266351 | 0.421 | 1 | 392196 | RP11-1236K1.8 |
| 0.150321737 | 0.380089194 | 0.454 | 1 | 2014 | EMP3 |
| 0.150321737 | 0.380089194 | 0.434 | 1 | 4259 | MGST3 |
| 0.150321737 | 0.380089194 | 0.398 | 1 | 51506 | UFC1 |
| 0.150321737 | 0.380089194 | 0.439 | 1 | 121599 | SPIC |
| 0.150064334 | 0.380913496 | 0.416 | 1 | 2011 | MARK2 |
| 0.150064334 | 0.380913496 | 0.444 | 1 | 8061 | FOSL1 |
| 0.150064334 | 0.380913496 | 0.428 | 1 | 8460 | TPST1 |
| 0.150064334 | 0.380913496 | 0.428 | 1 | 92979 | MARCHF9 |
| 0.150064334 | 0.380913496 | 0.432 | 1 | 400798 | RP5-990P15.1 |
| 0.150064334 | 0.380913496 | 0.432 | 1 | 644128 | RPL23AP53 |
| 0.149806947 | 0.381738514 | 0.44 | 1 | 2830 | GPR6 |
| 0.149806947 | 0.381738514 | 0.44 | 1 | 4605 | MYBL2 |
| 0.149806947 | 0.381738514 | 0.411 | 1 | 10714 | POLD3 |
| 0.149806947 | 0.381738514 | 0.423 | 1 | 27153 | ZNF777 |
| 0.149806947 | 0.381738514 | 0.408 | 1 | 55589 | BMP2K |
| 0.149806947 | 0.381738514 | 0.423 | 1 | 59348 | ZNF350 |
| 0.149806947 | 0.381738514 | 0.42 | 1 | 91851 | CHRDL1 |
| 0.149549544 | 0.382564515 | 0.4 | 1 | 2018 | EMX2 |
| 0.149292141 | 0.383391589 | 0.449 | 1 | 199 | AIF1 |
| 0.149292141 | 0.383391589 | 0.422 | 1 | 847 | CAT |
| 0.149292141 | 0.383391589 | 0.417 | 1 | 4968 | OGG1 |
| 0.149292141 | 0.383391589 | 0.406 | 1 | 5800 | PTPRO |
| 0.149292141 | 0.383391589 | 0.417 | 1 | 10256 | CNKSR1 |
| 0.149292141 | 0.383391589 | 0.435 | 1 | 10998 | SLC27A5 |
| 0.149292141 | 0.383391589 | 0.436 | 1 | 11075 | STMN2 |
| 0.149292141 | 0.383391589 | 0.402 | 1 | 30837 | SOCS7 |
| 0.149034739 | 0.384220213 | 0.435 | 1 | 3853 | KRT6A |
| 0.149034739 | 0.384220213 | 0.424 | 1 | 5349 | FXYD3 |
| 0.149034739 | 0.384220213 | 0.405 | 1 | 112770 | C1orf85 |
| 0.148777336 | 0.385049373 | 0.419 | 1 | 164 | AP1G1 |
| 0.148777336 | 0.385049373 | 0.428 | 1 | 267 | AMFR |
| 0.148777336 | 0.385049373 | 0.432 | 1 | 6249 | CLIP1 |
| 0.148777336 | 0.385049373 | 0.405 | 1 | 7818 | DAP3 |
| 0.148777336 | 0.385049373 | 0.437 | 1 | 8936 | WASF1 |
| 0.148777336 | 0.385049373 | 0.411 | 1 | 23543 | RBM9 |
| 0.148777336 | 0.385049373 | 0.438 | 1 | 51076 | CUTC |
| 0.148777336 | 0.385049373 | 0.404 | 1 | 55604 | LRRC16A |
| 0.148777336 | 0.385049373 | 0.424 | 1 | 645974 | PABPC1L2B |
| 0.148519948 | 0.385879636 | 0.444 | 1 | 64417 | C5orf28 |
| 0.148519948 | 0.385879636 | 0.443 | 1 | 126308 | MOBKL2A |
| 0.148262545 | 0.386711001 | 0.428 | 1 | 5308 | PITX2 |
| 0.148262545 | 0.386711001 | 0.436 | 1 | 7772 | ZNF229 |
| 0.148262545 | 0.386711001 | 0.416 | 1 | 10975 | UQCR11 |
| 0.148262545 | 0.386711001 | 0.453 | 1 | 51501 | C11orf73 |
| 0.148262545 | 0.386711001 | 0.455 | 1 | 122402 | TDRD9 |
| 0.148005143 | 0.38754335 | 0.434 | 1 | 1463 | NCAN |
| 0.148005143 | 0.38754335 | 0.428 | 1 | 54439 | RBM27 |
| 0.148005143 | 0.38754335 | 0.409 | 1 | 64777 | RMND5B |
| 0.148005143 | 0.38754335 | 0.399 | 1 | 340075 | ARSI |
| 0.14774774 | 0.38837716 | 0.425 | 1 | 1460 | CSNK2B |
| 0.14774774 | 0.38837716 | 0.421 | 1 | 2050 | EPHB4 |
| 0.14774774 | 0.38837716 | 0.44 | 1 | 29991 | OBP2A |
| 0.14774774 | 0.38837716 | 0.421 | 1 | 79611 | ACSS3 |
| 0.14774774 | 0.38837716 | 0.434 | 1 | 91703 | ACY3 |
| 0.147490337 | 0.389211655 | 0.409 | 1 | 6638 | SNRPN |
| 0.147490337 | 0.389211655 | 0.422 | 1 | 7390 | UROS |
| 0.147490337 | 0.389211655 | 0.422 | 1 | 79781 | IQCA1 |
| 0.147490337 | 0.389211655 | 0.456 | 1 | 150280 | HORMAD2 |
| 0.14723295 | 0.390047222 | 0.435 | 1 | 864 | RUNX3 |
| 0.14723295 | 0.390047222 | 0.379 | 1 | 1087 | CEACAM7 |
| 0.14723295 | 0.390047222 | 0.428 | 1 | 3081 | HGD |
| 0.14723295 | 0.390047222 | 0.44 | 1 | 8693 | GALNT4 |
| 0.14723295 | 0.390047222 | 0.439 | 1 | 54440 | SASH3 |
| 0.146975547 | 0.390883863 | 0.415 | 1 | 2783 | GNB2 |
| 0.146975547 | 0.390883863 | 0.426 | 1 | 5783 | PTPN13 |
| 0.146975547 | 0.390883863 | 0.429 | 1 | 10555 | AGPAT2 |
| 0.146975547 | 0.390883863 | 0.432 | 1 | 51647 | FAM96B |
| 0.146718144 | 0.391721845 | 0.438 | 1 | 4534 | MTM1 |
| 0.146718144 | 0.391721845 | 0.449 | 1 | 9265 | CYTH3 |
| 0.146718144 | 0.391721845 | 0.431 | 1 | 23608 | MKRN1 |
| 0.146718144 | 0.391721845 | 0.406 | 1 | 26279 | PLA2G2D |
| 0.146718144 | 0.391721845 | 0.429 | 1 | 53834 | FGFRL1 |
| 0.146718144 | 0.391721845 | 0.436 | 1 | 79368 | FCRL2 |
| 0.146718144 | 0.391721845 | 0.446 | 1 | 378807 | CATSPER4 |
| 0.146460742 | 0.392560571 | 0.448 | 1 | 5053 | PAH |
| 0.146460742 | 0.392560571 | 0.448 | 1 | 50613 | UBQLN3 |
| 0.146460742 | 0.392560571 | 0.445 | 1 | 51651 | PTRH2 |
| 0.146460742 | 0.392560571 | 0.455 | 1 | 494143 | CHAC2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.148750886 | 3.02456E-41 | 113746 | ODF3 |
| 0.148732215 | 3.09519E-41 | 23521 | RPL13A |
| 0.148701295 | 3.2157E-41 | 81025 | GJA9 |
| 0.148641765 | 3.46121E-41 | 51635 | DHRS7 |
| 0.148599237 | 3.64786E-41 | 841 | CASP8 |
| 0.148515001 | 4.04807E-41 | 79836 | LONRF3 |
| 0.148505807 | 4.09431E-41 | 149297 | FAM78B |
| 0.148463741 | 4.31264E-41 | 1896 | EDA |
| 0.148430958 | 4.4906E-41 | 375759 | C9orf50 |
| 0.148397535 | 4.67978E-41 | 10694 | CCT8 |
| 0.1483327 | 5.06934E-41 | 1238 | CCBP2 |
| 0.148305029 | 5.24534E-41 | 51286 | CEND1 |
| 0.14819099 | 6.03679E-41 | 146057 | TTBK2 |
| 0.148094878 | 6.79546E-41 | 29978 | UBQLN2 |
| 0.148084387 | 6.88374E-41 | 84188 | FAR1 |
| 0.148084104 | 6.88626E-41 | 138311 | FAM69B |
| 0.148068041 | 7.02387E-41 | 729196 | UNC93B5 |
| 0.148037851 | 7.28955E-41 | 58513 | EPS15L1 |
| 0.147948802 | 8.1337E-41 | 346653 | FAM71F2 |
| 0.147940069 | 8.22142E-41 | 2491 | CENPI |
| 0.147929668 | 8.32708E-41 | 10393 | ANAPC10 |
| 0.147910535 | 8.5255E-41 | 6571 | SLC18A2 |
| 0.147900969 | 8.62639E-41 | 54937 | SOHLH2 |
| 0.147893548 | 8.70543E-41 | 121340 | SP7 |
| 0.147867635 | 8.98737E-41 | 6150 | MRPL23 |
| 0.147813499 | 9.60562E-41 | 85476 | GFM1 |
| 0.147786841 | 9.9254E-41 | 55813 | UTP6 |
| 0.147753969 | 1.03343E-40 | 56998 | CTNNBIP1 |
| 0.147707716 | 1.09385E-40 | 372 | ARCN1 |
| 0.147694528 | 1.11168E-40 | 84085 | FBXO30 |
| 0.147661656 | 1.15747E-40 | 4234 | METTL1 |
| 0.147586346 | 1.26952E-40 | 4188 | MDFI |
| 0.147476479 | 1.45264E-40 | 146059 | CDAN1 |
| 0.14746654 | 1.47047E-40 | 342945 | ZSCAN22 |
| 0.147465155 | 1.47293E-40 | 199699 | DAND5 |
| 0.147441655 | 1.51598E-40 | 6273 | S100A2 |
| 0.14743042 | 1.537E-40 | 29094 | AC008074.2 |
| 0.147263169 | 1.8864E-40 | 401375 | GTF2IRD2P1 |
| 0.147251651 | 1.91319E-40 | 26973 | CHORDC1 |
| 0.147242084 | 1.93575E-40 | 78986 | DUSP26 |
| 0.147232622 | 1.95829E-40 | 54600 | UGT1A9 |
| 0.147231311 | 1.96143E-40 | 54101 | RIPK4 |
| 0.147163332 | 2.13154E-40 | 442425 | FOXB2 |
| 0.147145882 | 2.17751E-40 | 6877 | TAF5 |
| 0.147063315 | 2.4088E-40 | 152330 | CNTN4 |
| 0.147025898 | 2.5215E-40 | 55320 | C14orf106 |
| 0.146968976 | 2.7031E-40 | 100288713 | PMS2P10 |
| 0.146945566 | 2.78155E-40 | 839 | CASP6 |
| 0.146920308 | 2.86863E-40 | 9984 | THOC1 |
| 0.146911398 | 2.90007E-40 | 642597 | C18orf42 |
| 0.146888644 | 2.98174E-40 | 151246 | SGOL2 |
| 0.146775156 | 3.42466E-40 | 284013 | VMO1 |
| 0.146745622 | 3.55025E-40 | 552900 | BOLA2 |
| 0.14666456 | 3.91904E-40 | 7139 | TNNT2 |
| 0.146622956 | 4.1229E-40 | 79611 | ACSS3 |
| 0.146591097 | 4.28607E-40 | 317772 | HIST2H2AB |
| 0.146567702 | 4.41E-40 | 57502 | NLGN4X |
| 0.146560088 | 4.45103E-40 | 84376 | HOOK3 |
| 0.146531388 | 4.60938E-40 | 653140 | AC008073.2 |
| 0.146451518 | 5.08016E-40 | 91012 | LASS5 |
| 0.146448269 | 5.10022E-40 | 2703 | GJA8 |
| 0.146405652 | 5.37168E-40 | 7760 | ZNF213 |
| 0.146403328 | 5.38701E-40 | 84689 | MS4A14 |
| 0.146382794 | 5.52316E-40 | 643997 | LOC643997 |
| 0.146376759 | 5.56388E-40 | 8829 | NRP1 |
| 0.146350756 | 5.74263E-40 | 285966 | FAM115C |
| 0.146343604 | 5.79286E-40 | 60487 | TRMT11 |
| 0.146323457 | 5.93652E-40 | 1538 | CYLC1 |
| 0.146156296 | 7.27372E-40 | 11318 | GPR182 |
| 0.146126583 | 7.54089E-40 | 29113 | C6orf15 |
| 0.146126583 | 7.54089E-40 | 93185 | IGSF8 |
| 0.145981714 | 8.99051E-40 | 6607 | SMN2 |
| 0.145966113 | 9.16225E-40 | 2864 | FFAR1 |
| 0.145955518 | 9.28086E-40 | 643161 | FAM25A |
| 0.145922184 | 9.66363E-40 | 100130613 | CXorf64 |
| 0.14590463 | 9.87153E-40 | 6591 | SNAI2 |
| 0.145899996 | 9.92697E-40 | 7152 | TOP1P2 |
| 0.145897016 | 9.96284E-40 | 27173 | SLC39A1 |
| 0.145787522 | 1.13766E-39 | 338674 | OR5F1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.146460742 | 0.392560571 | 0.438 | 1 | 728175 | AC103540.1 |
| 0.146203339 | 0.393400311 | 0.474 | 1 | 65084 | TMEM135 |
| 0.146203339 | 0.393400311 | 0.431 | 1 | 147906 | DACT3 |
| 0.145945951 | 0.394241154 | 0.445 | 1 | 5515 | PPP2CA |
| 0.145945951 | 0.394241154 | 0.449 | 1 | 5864 | RAB3A |
| 0.145945951 | 0.394241154 | 0.409 | 1 | 6169 | RPL38 |
| 0.145945951 | 0.394241154 | 0.425 | 1 | 8987 | STBD1 |
| 0.145945951 | 0.394241154 | 0.398 | 1 | 9191 | DEDD |
| 0.145945951 | 0.394241154 | 0.439 | 1 | 64579 | NDST4 |
| 0.145945951 | 0.394241154 | 0.429 | 1 | 92806 | AC092143.3 |
| 0.145945951 | 0.394241154 | 0.429 | 1 | 255043 | TMEM86B |
| 0.145945951 | 0.394241154 | 0.399 | 1 | 283177 | LOC283177 |
| 0.145688549 | 0.395083398 | 0.422 | 1 | 10469 | TIMM44 |
| 0.145688549 | 0.395083398 | 0.42 | 1 | 10562 | OLFM4 |
| 0.145688549 | 0.395083398 | 0.463 | 1 | 10629 | TAF6L |
| 0.145688549 | 0.395083398 | 0.43 | 1 | 51808 | PHAX |
| 0.145688549 | 0.395083398 | 0.436 | 1 | 56606 | SLC2A9 |
| 0.145688549 | 0.395083398 | 0.462 | 1 | 387082 | SUMO4 |
| 0.145431146 | 0.395926267 | 0.45 | 1 | 1819 | DRG2 |
| 0.145431146 | 0.395926267 | 0.413 | 1 | 5321 | PLA2G4A |
| 0.145431146 | 0.395926267 | 0.447 | 1 | 56134 | PCDHAC2 |
| 0.145431146 | 0.395926267 | 0.46 | 1 | 119687 | OR51A7 |
| 0.145173743 | 0.396770269 | 0.457 | 1 | 3482 | IGF2R |
| 0.145173743 | 0.396770269 | 0.436 | 1 | 57608 | KIAA1462 |
| 0.145173743 | 0.396770269 | 0.415 | 1 | 63941 | NECAB3 |
| 0.145173743 | 0.396770269 | 0.417 | 1 | 83982 | IFI27L2 |
| 0.145173743 | 0.396770269 | 0.425 | 1 | 84376 | HOOK3 |
| 0.145173743 | 0.396770269 | 0.435 | 1 | 118432 | RPL29P2 |
| 0.145173743 | 0.396770269 | 0.455 | 1 | 339302 | CPLX4 |
| 0.144916341 | 0.397615254 | 0.442 | 1 | 1565 | CYP2D6 |
| 0.144916341 | 0.397615254 | 0.446 | 1 | 11336 | EXOC3 |
| 0.144658953 | 0.398461342 | 0.423 | 1 | 191 | AHCY |
| 0.144658953 | 0.398461342 | 0.461 | 1 | 1629 | DBT |
| 0.144658953 | 0.398461342 | 0.455 | 1 | 8578 | SCARF1 |
| 0.144658953 | 0.398461342 | 0.436 | 1 | 11037 | STON1 |
| 0.144658953 | 0.398461342 | 0.448 | 1 | 23072 | HECW1 |
| 0.144658953 | 0.398461342 | 0.455 | 1 | 51209 | RAB9B |
| 0.144658953 | 0.398461342 | 0.442 | 1 | 51657 | STYXL1 |
| 0.144658953 | 0.398461342 | 0.462 | 1 | 140775 | SMCR8 |
| 0.14440155 | 0.39930883 | 0.45 | 1 | 496 | ATP4B |
| 0.14440155 | 0.39930883 | 0.444 | 1 | 55204 | GOLPH3L |
| 0.14440155 | 0.39930883 | 0.466 | 1 | 729973 | LOC729973 |
| 0.144144148 | 0.400156945 | 0.454 | 1 | 5367 | PMCH |
| 0.144144148 | 0.400156945 | 0.402 | 1 | 5428 | POLG |
| 0.144144148 | 0.400156945 | 0.47 | 1 | 9834 | KIAA0125 |
| 0.144144148 | 0.400156945 | 0.432 | 1 | 9990 | SLC12A6 |
| 0.144144148 | 0.400156945 | 0.439 | 1 | 57418 | WDR18 |
| 0.143886745 | 0.401006162 | 0.433 | 1 | 4842 | NOS1 |
| 0.143886745 | 0.401006162 | 0.475 | 1 | 6301 | SARS |
| 0.143886745 | 0.401006162 | 0.435 | 1 | 10443 | N4BP2L2 |
| 0.143886745 | 0.401006162 | 0.446 | 1 | 55625 | ZDHHC7 |
| 0.143886745 | 0.401006162 | 0.44 | 1 | 57683 | ZDBF2 |
| 0.143886745 | 0.401006162 | 0.469 | 1 | 196410 | METTL7B |
| 0.143886745 | 0.401006162 | 0.447 | 1 | 343099 | CCDC18 |
| 0.143886745 | 0.401006162 | 0.448 | 1 | 401335 | C7orf65 |
| 0.143886745 | 0.401006162 | 0.473 | 1 | 100289410 | MCF2L-AS1 |
| 0.143629342 | 0.401856393 | 0.444 | 1 | 1429 | CRYZ |
| 0.143629342 | 0.401856393 | 0.435 | 1 | 6921 | TCEB1 |
| 0.143629342 | 0.401856393 | 0.416 | 1 | 30820 | KCNIP1 |
| 0.143629342 | 0.401856393 | 0.467 | 1 | 122509 | IFI27L1 |
| 0.14337194 | 0.402708083 | 0.442 | 1 | 3454 | IFNAR1 |
| 0.14337194 | 0.402708083 | 0.413 | 1 | 5270 | SERPINE2 |
| 0.14337194 | 0.402708083 | 0.427 | 1 | 6789 | STK4 |
| 0.14337194 | 0.402708083 | 0.428 | 1 | 27020 | NPTN |
| 0.143114537 | 0.40356046 | 0.397 | 1 | 8456 | FOXN1 |
| 0.143114537 | 0.40356046 | 0.455 | 1 | 30845 | EHD3 |
| 0.143114537 | 0.40356046 | 0.426 | 1 | 50511 | SYCP3 |
| 0.142857134 | 0.40441379 | 0.471 | 1 | 2962 | GTF2F1 |
| 0.142857134 | 0.40441379 | 0.443 | 1 | 23113 | CUL9 |
| 0.142857134 | 0.40441379 | 0.47 | 1 | 55103 | RALGPS2 |
| 0.142857134 | 0.40441379 | 0.429 | 1 | 80863 | PRRT1 |
| 0.142599732 | 0.405268222 | 0.465 | 1 | 1749 | DLX5 |
| 0.142599732 | 0.405268222 | 0.453 | 1 | 4043 | LRPAP1 |
| 0.142599732 | 0.405268222 | 0.479 | 1 | 6904 | TBCD |
| 0.142599732 | 0.405268222 | 0.466 | 1 | 63976 | PRDM16 |
| 0.142342329 | 0.406124055 | 0.439 | 1 | 23682 | RAB38 |
| 0.142342329 | 0.406124055 | 0.471 | 1 | 254122 | SNX32 |
| 0.142342329 | 0.406124055 | 0.445 | 1 | 285349 | ZNF660 |
| 0.142084941 | 0.406980574 | 0.463 | 1 | 3761 | KCNJ4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.145782977 | 1.14396E-39 | 5908 | RAP1B |
| 0.145760313 | 1.1758E-39 | 1346 | COX7A1 |
| 0.145746395 | 1.19578E-39 | 8755 | ADAM6 |
| 0.14571026 | 1.24927E-39 | 26103 | LRIT1 |
| 0.145691141 | 1.27851E-39 | 343472 | BARHL2 |
| 0.14566727 | 1.31598E-39 | 1137 | CHRNA4 |
| 0.145638287 | 1.36298E-39 | 7637 | ZNF84 |
| 0.145542085 | 1.53118E-39 | 3069 | HDLBP |
| 0.145516545 | 1.5792E-39 | 54516 | MTRF1L |
| 0.145514965 | 1.58222E-39 | 64319 | FBRS |
| 0.145444021 | 1.72387E-39 | 329 | BIRC2 |
| 0.14543584 | 1.74102E-39 | 84501 | SPIRE2 |
| 0.145341128 | 1.95207E-39 | 10786 | SLC17A3 |
| 0.145305276 | 2.0384E-39 | 386674 | KRTAP10-6 |
| 0.14530082 | 2.04939E-39 | 283537 | SLC46A3 |
| 0.145274073 | 2.11664E-39 | 254827 | NAALADL2 |
| 0.145270824 | 2.12493E-39 | 248 | ALPI |
| 0.145202011 | 2.30897E-39 | 130814 | PQLC3 |
| 0.145184636 | 2.35779E-39 | 100287932 | TIMM23 |
| 0.145181492 | 2.3668E-39 | 116115 | ZNF526 |
| 0.145131707 | 2.51324E-39 | 80036 | TRPM3 |
| 0.145128638 | 2.52256E-39 | 9700 | ESPL1 |
| 0.144996122 | 2.95937E-39 | 56158 | TEX12 |
| 0.144929171 | 3.20791E-39 | 390201 | OR10V1 |
| 0.144916162 | 3.25847E-39 | 3860 | KRT13 |
| 0.144858316 | 3.49342E-39 | 23030 | KDM4B |
| 0.144852281 | 3.51892E-39 | 7079 | TIMP4 |
| 0.144834071 | 3.59688E-39 | 7627 | ZNF75A |
| 0.144817725 | 3.66834E-39 | 124944 | C17ORF49 |
| 0.14473629 | 4.04577E-39 | 5616 | PRKY |
| 0.144648716 | 4.49484E-39 | 80724 | ACAD10 |
| 0.144552603 | 5.04492E-39 | 60560 | MAK10 |
| 0.144423977 | 5.88716E-39 | 8501 | SLC43A1 |
| 0.144416913 | 5.9372E-39 | 6229 | RPS24 |
| 0.144391283 | 6.12256E-39 | 57720 | GPR107 |
| 0.144375131 | 6.24232E-39 | 117285 | DEFB118 |
| 0.14434588 | 6.46531E-39 | 653513 | LOC653513 |
| 0.144326463 | 6.61752E-39 | 129285 | KLRAQ1 |
| 0.144282266 | 6.97749E-39 | 7087 | ICAM5 |
| 0.144221619 | 7.50337E-39 | 84270 | C9orf89 |
| 0.144119188 | 8.48268E-39 | 151871 | DPPA2 |
| 0.144103214 | 8.64645E-39 | 10294 | DNAJA2 |
| 0.14407517 | 8.94159E-39 | 9746 | CLSTN3 |
| 0.144051582 | 9.19751E-39 | 5144 | PDE4D |
| 0.144037932 | 9.34894E-39 | 23468 | CBX5 |
| 0.14402011 | 9.55039E-39 | 8805 | TRIM24 |
| 0.144013137 | 9.63036E-39 | 5347 | PLK1 |
| 0.143997729 | 9.80953E-39 | 3577 | IL8RA |
| 0.143957332 | 1.02951E-38 | 83452 | RAB33B |
| 0.143885165 | 1.12227E-38 | 79165 | LENG1 |
| 0.143850535 | 1.16967E-38 | 4289 | MKLN1 |
| 0.143800661 | 1.24148E-38 | 79075 | DSCC1 |
| 0.143748477 | 1.32129E-38 | 5420 | PODXL |
| 0.143748283 | 1.32161E-38 | 283093 | OR4C12 |
| 0.143722191 | 1.36343E-38 | 253868 | C20orf200 |
| 0.143693775 | 1.41045E-38 | 130576 | LYPD6B |
| 0.143678084 | 1.43711E-38 | 51764 | GNG13 |
| 0.143526435 | 1.722E-38 | 4943 | TBC1D25 |
| 0.143511295 | 1.7534E-38 | 648740 | ACTG1P4 |
| 0.143467546 | 1.84722E-38 | 1010 | CDH12 |
| 0.143458351 | 1.86755E-38 | 3434 | IFIT1 |
| 0.143408209 | 1.98253E-38 | 2972 | BRF1 |
| 0.14333865 | 2.15372E-38 | 65082 | VPS33A |
| 0.143329829 | 2.17642E-38 | 285641 | SLC36A3 |
| 0.143327236 | 2.18317E-38 | 85290 | KRTAP4-3 |
| 0.143315718 | 2.2133E-38 | 9050 | PSTPIP2 |
| 0.143301964 | 2.24982E-38 | 51621 | KLF13 |
| 0.143283591 | 2.29957E-38 | 92070 | CTBP1-AS1 |
| 0.143282279 | 2.30315E-38 | 56850 | GRIPAP1 |
| 0.143276438 | 2.3192E-38 | 26689 | AC005962.2 |
| 0.143258974 | 2.36792E-38 | 54902 | TTC19 |
| 0.143252015 | 2.38761E-38 | 23612 | PHLDA3 |
| 0.143230096 | 2.45068E-38 | 202051 | AC135457.3 |
| 0.143221825 | 2.47491E-38 | 286016 | TPI1P2 |
| 0.143211335 | 2.50598E-38 | 55655 | NLRP2 |
| 0.143196568 | 2.55038E-38 | 84517 | AC078802.1 |
| 0.143177345 | 2.60932E-38 | 3398 | ID2 |
| 0.143133789 | 2.74801E-38 | 3800 | KIF5C |
| 0.143119678 | 2.7945E-38 | 23090 | ZNF423 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.142084941 | 0.406980574 | 0.429 | 1 | 4500 | MT1L |
| 0.142084941 | 0.406980574 | 0.466 | 1 | 5127 | PCTK1 |
| 0.141827539 | 0.407838136 | 0.429 | 1 | 29079 | MED4 |
| 0.141827539 | 0.407838136 | 0.446 | 1 | 56681 | SAR1A |
| 0.141827539 | 0.407838136 | 0.443 | 1 | 80054 | LOC80054 |
| 0.141570136 | 0.408696711 | 0.425 | 1 | 6218 | RPS17 |
| 0.141570136 | 0.408696711 | 0.451 | 1 | 114783 | LMTK3 |
| 0.141312733 | 0.409556359 | 0.406 | 1 | 6155 | RPL27 |
| 0.141312733 | 0.409556359 | 0.471 | 1 | 10936 | GPR75 |
| 0.141312733 | 0.409556359 | 0.465 | 1 | 11171 | STRAP |
| 0.141312733 | 0.409556359 | 0.458 | 1 | 80776 | B9D2 |
| 0.141312733 | 0.409556359 | 0.443 | 1 | 285672 | SREK1IP1 |
| 0.141312733 | 0.409556359 | 0.436 | 1 | 376497 | SLC27A1 |
| 0.141312733 | 0.409556359 | 0.445 | 1 | 440087 | C12orf69 |
| 0.141055331 | 0.410417348 | 0.452 | 1 | 54952 | TRNAU1AP |
| 0.141055331 | 0.410417348 | 0.445 | 1 | 92292 | GLYATL1 |
| 0.140797943 | 0.411279082 | 0.436 | 1 | 10396 | ATP8A1 |
| 0.140797943 | 0.411279082 | 0.449 | 1 | 23005 | MAPKBP1 |
| 0.140797943 | 0.411279082 | 0.457 | 1 | 24141 | C20orf103 |
| 0.140797943 | 0.411279082 | 0.458 | 1 | 84929 | FIBCD1 |
| 0.140797943 | 0.411279082 | 0.43 | 1 | 285051 | C2orf61 |
| 0.140797943 | 0.411279082 | 0.428 | 1 | 644591 | PPIAL4G |
| 0.14054054 | 0.41214186 | 0.434 | 1 | 11144 | DMC1 |
| 0.14054054 | 0.41214186 | 0.479 | 1 | 341416 | OR6C2 |
| 0.14054054 | 0.41214186 | 0.443 | 1 | 349565 | NMNAT3 |
| 0.140283138 | 0.41300559 | 0.478 | 1 | 5724 | PTAFR |
| 0.140283138 | 0.41300559 | 0.44 | 1 | 23306 | TMEM194A |
| 0.140283138 | 0.41300559 | 0.485 | 1 | 27297 | CRCP |
| 0.140283138 | 0.41300559 | 0.435 | 1 | 56890 | MDM1 |
| 0.140283138 | 0.41300559 | 0.444 | 1 | 374378 | GALNTL4 |
| 0.140025735 | 0.413870811 | 0.46 | 1 | 8618 | CADPS |
| 0.140025735 | 0.413870811 | 0.452 | 1 | 10116 | FEM1B |
| 0.139768332 | 0.414736629 | 0.458 | 1 | 81793 | TLR10 |
| 0.139510944 | 0.415603518 | 0.441 | 1 | 4660 | PPP1R12B |
| 0.139510944 | 0.415603518 | 0.481 | 1 | 11283 | CYP4F8 |
| 0.139510944 | 0.415603518 | 0.464 | 1 | 79802 | HHIPL2 |
| 0.139510944 | 0.415603518 | 0.479 | 1 | 220032 | GDPD4 |
| 0.139510944 | 0.415603518 | 0.463 | 1 | 344892 | RTP2 |
| 0.139253542 | 0.416471422 | 0.476 | 1 | 3872 | KRT17 |
| 0.139253542 | 0.416471422 | 0.463 | 1 | 23067 | SETD1B |
| 0.139253542 | 0.416471422 | 0.428 | 1 | 60386 | SLC25A19 |
| 0.139253542 | 0.416471422 | 0.461 | 1 | 63923 | TNN |
| 0.139253542 | 0.416471422 | 0.466 | 1 | 91749 | KIAA1919 |
| 0.139253542 | 0.416471422 | 0.46 | 1 | 221692 | PHACTR1 |
| 0.139253542 | 0.416471422 | 0.474 | 1 | 286257 | C9orf142 |
| 0.139253542 | 0.416471422 | 0.474 | 1 | 389873 | SEPHS1P4 |
| 0.139253542 | 0.416471422 | 0.458 | 1 | 440738 | MAP1LC3C |
| 0.138996139 | 0.417340338 | 0.448 | 1 | 11015 | KDELR3 |
| 0.138996139 | 0.417340338 | 0.463 | 1 | 154091 | SLC2A12 |
| 0.138738737 | 0.418210804 | 0.438 | 1 | 639 | PRDM1 |
| 0.138738737 | 0.418210804 | 0.454 | 1 | 10383 | TUBB2C |
| 0.138738737 | 0.418210804 | 0.454 | 1 | 266811 | NPSA |
| 0.138738737 | 0.418210804 | 0.444 | 1 | 399959 | MIR100HG |
| 0.138481334 | 0.419081777 | 0.468 | 1 | 5546 | PRCC |
| 0.138481334 | 0.419081777 | 0.441 | 1 | 79982 | DNAJB14 |
| 0.138481334 | 0.419081777 | 0.449 | 1 | 168620 | BHLHA15 |
| 0.138223946 | 0.419953793 | 0.46 | 1 | 26999 | CYFIP2 |
| 0.138223946 | 0.419953793 | 0.412 | 1 | 347918 | EP400NL |
| 0.137966543 | 0.420826912 | 0.452 | 1 | 8864 | PER2 |
| 0.137966543 | 0.420826912 | 0.479 | 1 | 26168 | SENP3 |
| 0.137966543 | 0.420826912 | 0.464 | 1 | 80309 | SPHKAP |
| 0.137709141 | 0.421701401 | 0.447 | 1 | 4070 | TACSTD2 |
| 0.137709141 | 0.421701401 | 0.455 | 1 | 5383 | PMS2L5 |
| 0.137709141 | 0.421701401 | 0.46 | 1 | 22832 | KIAA1009 |
| 0.137709141 | 0.421701401 | 0.444 | 1 | 23049 | SMG1 |
| 0.137709141 | 0.421701401 | 0.431 | 1 | 55329 | MNS1 |
| 0.137709141 | 0.421701401 | 0.442 | 1 | 64395 | GMCL1 |
| 0.137709141 | 0.421701401 | 0.453 | 1 | 149095 | DCST1 |
| 0.137709141 | 0.421701401 | 0.462 | 1 | 221914 | GPC2 |
| 0.137709141 | 0.421701401 | 0.463 | 1 | 283008 | FAM22E |
| 0.137709141 | 0.421701401 | 0.459 | 1 | 643201 | RP11-844P9.2 |
| 0.137709141 | 0.421701401 | 0.479 | 1 | 100131176 | RP4-555L14.5 |
| 0.137451738 | 0.422576487 | 0.466 | 1 | 3835 | KIF22 |
| 0.137451738 | 0.422576487 | 0.467 | 1 | 3960 | LGALS4 |
| 0.137451738 | 0.422576487 | 0.483 | 1 | 9796 | AC105206.1 |
| 0.137451738 | 0.422576487 | 0.473 | 1 | 23345 | SYNE1 |
| 0.137451738 | 0.422576487 | 0.454 | 1 | 79581 | GPR172A |
| 0.137451738 | 0.422576487 | 0.484 | 1 | 91782 | CHMP7 |
| 0.137451738 | 0.422576487 | 0.436 | 1 | 100101267 | POM121C |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.143113732 | 2.81432E-38 | 55122 | AKIRIN2 |
| 0.143101931 | 2.85404E-38 | 81693 | AMN |
| 0.143077984 | 2.93646E-38 | 10509 | SEMA4B |
| 0.143016309 | 3.15962E-38 | 55173 | MRPS10 |
| 0.143010929 | 3.17985E-38 | 815 | CAMK2A |
| 0.14300926 | 3.1862E-38 | 4857 | NOVA1 |
| 0.142936826 | 3.47231E-38 | 6326 | SCN2A |
| 0.142873853 | 3.74174E-38 | 114876 | OSBPL1A |
| 0.14283514 | 3.91752E-38 | 2208 | FCER2 |
| 0.142796323 | 4.10215E-38 | 57722 | IGDCC4 |
| 0.142669737 | 4.76615E-38 | 3054 | HCFC1 |
| 0.142645776 | 4.90336E-38 | 7172 | TPMT |
| 0.142638355 | 4.94666E-38 | 23657 | SLC7A11 |
| 0.142625809 | 5.0207E-38 | 22870 | SAPS1 |
| 0.142579466 | 5.30395E-38 | 50846 | DHH |
| 0.142565921 | 5.38958E-38 | 10787 | NCKAP1 |
| 0.142546594 | 5.51432E-38 | 54345 | SOX18 |
| 0.142503783 | 5.80101E-38 | 148709 | RP11-480I12.7 |
| 0.142485872 | 5.92523E-38 | 57451 | ODZ2 |
| 0.142420486 | 6.40171E-38 | 137695 | TMEM68 |
| 0.142392814 | 6.61468E-38 | 388963 | C2orf81 |
| 0.142385855 | 6.66922E-38 | 617 | BCS1L |
| 0.142382592 | 6.69495E-38 | 128229 | C1orf182 |
| 0.142380282 | 6.71331E-38 | 7252 | TSHB |
| 0.142373875 | 6.76432E-38 | 79877 | DCAKD |
| 0.142340258 | 7.03849E-38 | 144699 | FBXL14 |
| 0.142230853 | 8.0097E-38 | 9063 | PIAS2 |
| 0.142215803 | 8.1533E-38 | 10864 | SLC22A7 |
| 0.142178565 | 8.51971E-38 | 151306 | GPBAR1 |
| 0.142122015 | 9.10778E-38 | 1032 | CDKN2D |
| 0.14210251 | 9.31986E-38 | 54753 | AC073343.8 |
| 0.142052367 | 9.88756E-38 | 2799 | GNS |
| 0.141995341 | 1.05754E-37 | 8945 | BTRC |
| 0.141994879 | 1.05813E-37 | 83442 | SH3BGRL3 |
| 0.141951978 | 1.113E-37 | 80305 | TRABD |
| 0.141943336 | 1.12441E-37 | 83899 | KRTAP9-2 |
| 0.141929418 | 1.14297E-37 | 2995 | GYPC |
| 0.141917616 | 1.159E-37 | 10928 | RALBP1 |
| 0.141904712 | 1.17676E-37 | 2350 | FOLR2 |
| 0.141846389 | 1.26044E-37 | 89837 | FAM7A3 |
| 0.14179568 | 1.33797E-37 | 728373 | AC116655.15 |
| 0.141761974 | 1.39214E-37 | 203228 | C9orf72 |
| 0.141741365 | 1.42631E-37 | 5884 | RAD17 |
| 0.141707927 | 1.48354E-37 | 90134 | KCNH7 |
| 0.141636416 | 1.61371E-37 | 4494 | MT1F |
| 0.141627312 | 1.63108E-37 | 274 | BIN1 |
| 0.141618311 | 1.64842E-37 | 284367 | SIGLECP3 |
| 0.141563892 | 1.75733E-37 | 119 | ADD2 |
| 0.141547084 | 1.7924E-37 | 5608 | MAP2K6 |
| 0.141542166 | 1.80275E-37 | 84140 | FAM161A |
| 0.141540393 | 1.80653E-37 | 8718 | TNFRSF25 |
| 0.141504645 | 1.88402E-37 | 26960 | NBEA |
| 0.141485795 | 1.92619E-37 | 5540 | PPYR1 |
| 0.141447157 | 2.01559E-37 | 126364 | LRRC25 |
| 0.141397655 | 2.13623E-37 | 2215 | FCGR3B |
| 0.141296342 | 2.4059E-37 | 219981 | OR5A2 |
| 0.141241744 | 2.56493E-37 | 3207 | HOXA11 |
| 0.141145721 | 2.8705E-37 | 100130274 | CCDC166 |
| 0.141123056 | 2.94777E-37 | 27000 | DNAJC2 |
| 0.141115159 | 2.97515E-37 | 55273 | TMEM100 |
| 0.140960351 | 3.56632E-37 | 10342 | TFG |
| 0.140923858 | 3.72185E-37 | 9240 | PNMA1 |
| 0.140841767 | 4.09679E-37 | 680 | BRS3 |
| 0.140819103 | 4.20684E-37 | 8728 | ADAM19 |
| 0.140730143 | 4.66767E-37 | 81872 | KRTAP2-3 |
| 0.140723452 | 4.7043E-37 | 6407 | SEMG2 |
| 0.140609235 | 5.37542E-37 | 93210 | PGAP3 |
| 0.140608862 | 5.3777E-37 | 79762 | C1orf115 |
| 0.140598923 | 5.44046E-37 | 9394 | HS6ST1 |
| 0.14059037 | 5.49503E-37 | 84814 | PPAPDC3 |
| 0.140503183 | 6.0833E-37 | 728262 | FAM157A |
| 0.140478656 | 6.25984E-37 | 4982 | TNFRSF11B |
| 0.140462786 | 6.37676E-37 | 283742 | FAM98B |
| 0.140433893 | 6.59518E-37 | 10370 | CITED2 |
| 0.140405387 | 6.81792E-37 | 1991 | ELANE |
| 0.140404925 | 6.82171E-37 | 344167 | FOXI3 |
| 0.14037846 | 7.03527E-37 | 54785 | C17orf59 |
| 0.140374377 | 7.0688E-37 | 25825 | BACE2 |
| 0.140313074 | 7.59207E-37 | 399909 | PCNXL3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.137194335 | 0.423452675 | 0.467 | 1 | 514 | ATP5E |
| 0.137194335 | 0.423452675 | 0.475 | 1 | 10531 | PITRM1 |
| 0.137194335 | 0.423452675 | 0.467 | 1 | 64343 | AZI2 |
| 0.137194335 | 0.423452675 | 0.454 | 1 | 79574 | EPS8L3 |
| 0.136936948 | 0.424329847 | 0.446 | 1 | 645 | BLVRB |
| 0.136936948 | 0.424329847 | 0.435 | 1 | 1030 | CDKN2B |
| 0.136936948 | 0.424329847 | 0.46 | 1 | 7730 | ZNF177 |
| 0.136936948 | 0.424329847 | 0.43 | 1 | 89845 | ABCC10 |
| 0.136936948 | 0.424329847 | 0.464 | 1 | 117159 | DCD |
| 0.136936948 | 0.424329847 | 0.472 | 1 | 337876 | CHSY3 |
| 0.136679545 | 0.425208479 | 0.471 | 1 | 3422 | IDI1 |
| 0.136679545 | 0.425208479 | 0.451 | 1 | 3855 | KRT7 |
| 0.136679545 | 0.425208479 | 0.476 | 1 | 56479 | KCNQ5 |
| 0.136679545 | 0.425208479 | 0.478 | 1 | 158427 | C9orf97 |
| 0.136679545 | 0.425208479 | 0.454 | 1 | 282775 | OR5J2 |
| 0.136679545 | 0.425208479 | 0.475 | 1 | 390705 | LOC390705 |
| 0.136679545 | 0.425208479 | 0.486 | 1 | 403315 | FAM92A3 |
| 0.136422142 | 0.426087707 | 0.448 | 1 | 313 | AOAH |
| 0.136422142 | 0.426087707 | 0.464 | 1 | 322 | APBB1 |
| 0.136422142 | 0.426087707 | 0.456 | 1 | 6130 | RPL7A |
| 0.136422142 | 0.426087707 | 0.455 | 1 | 10590 | SCGN |
| 0.136422142 | 0.426087707 | 0.482 | 1 | 55256 | ADI1 |
| 0.136422142 | 0.426087707 | 0.462 | 1 | 55586 | MIOX |
| 0.136164725 | 0.426967978 | 0.452 | 1 | 11070 | TMEM115 |
| 0.136164725 | 0.426967978 | 0.445 | 1 | 51361 | HOOK1 |
| 0.136164725 | 0.426967978 | 0.447 | 1 | 124808 | CCDC43 |
| 0.135907322 | 0.427849233 | 0.471 | 1 | 5909 | RAP1GAP |
| 0.135907322 | 0.427849233 | 0.474 | 1 | 9610 | RIN1 |
| 0.135907322 | 0.427849233 | 0.478 | 1 | 56147 | PCDHA1 |
| 0.135907322 | 0.427849233 | 0.462 | 1 | 57473 | ZNF512B |
| 0.135907322 | 0.427849233 | 0.485 | 1 | 80351 | TNKS2 |
| 0.135907322 | 0.427849233 | 0.447 | 1 | 84811 | BUD13 |
| 0.135907322 | 0.427849233 | 0.445 | 1 | 727851 | RGPD8 |
| 0.135649934 | 0.428731561 | 0.496 | 1 | 6492 | SIM1 |
| 0.135649934 | 0.428731561 | 0.503 | 1 | 8013 | NR4A3 |
| 0.135649934 | 0.428731561 | 0.452 | 1 | 54539 | NDUFB11 |
| 0.135649934 | 0.428731561 | 0.436 | 1 | 79647 | AKIRIN1 |
| 0.135392532 | 0.429615289 | 0.456 | 1 | 993 | CDC25A |
| 0.135392532 | 0.429615289 | 0.49 | 1 | 53947 | A4GALT |
| 0.135392532 | 0.429615289 | 0.489 | 1 | 81846 | SBF2 |
| 0.135135129 | 0.430499643 | 0.467 | 1 | 8577 | TMEFF1 |
| 0.135135129 | 0.430499643 | 0.469 | 1 | 51340 | CRNKL1 |
| 0.135135129 | 0.430499643 | 0.495 | 1 | 729956 | AC135592.2 |
| 0.134877726 | 0.43138501 | 0.445 | 1 | 71 | ACTG1 |
| 0.134877726 | 0.43138501 | 0.46 | 1 | 51412 | ACTL6B |
| 0.134877726 | 0.43138501 | 0.464 | 1 | 92714 | ARRDC1 |
| 0.134877726 | 0.43138501 | 0.425 | 1 | 117579 | RLN3 |
| 0.134620324 | 0.432271421 | 0.474 | 1 | 5555 | PRH2 |
| 0.134620324 | 0.432271421 | 0.459 | 1 | 5705 | PSMC5 |
| 0.134620324 | 0.432271421 | 0.485 | 1 | 25974 | MMACHC |
| 0.134362936 | 0.433159232 | 0.465 | 1 | 6915 | TBXA2R |
| 0.134362936 | 0.433159232 | 0.501 | 1 | 8786 | RGS11 |
| 0.134362936 | 0.433159232 | 0.467 | 1 | 9338 | TCEAL1 |
| 0.134362936 | 0.433159232 | 0.482 | 1 | 503834 | DPRXP4 |
| 0.134105533 | 0.434047639 | 0.502 | 1 | 97 | ACYP1 |
| 0.134105533 | 0.434047639 | 0.471 | 1 | 27243 | CHMP2A |
| 0.134105533 | 0.434047639 | 0.464 | 1 | 84975 | MFSD5 |
| 0.134105533 | 0.434047639 | 0.49 | 1 | 168433 | RNF133 |
| 0.133848131 | 0.434937119 | 0.454 | 1 | 1358 | CPA2 |
| 0.133848131 | 0.434937119 | 0.467 | 1 | 10645 | CAMKK2 |
| 0.133848131 | 0.434937119 | 0.467 | 1 | 51333 | ZNF771 |
| 0.133848131 | 0.434937119 | 0.477 | 1 | 55330 | CNO |
| 0.133848131 | 0.434937119 | 0.486 | 1 | 84240 | ZCCHC9 |
| 0.133590728 | 0.435827583 | 0.509 | 1 | 57448 | BIRC6 |
| 0.133590728 | 0.435827583 | 0.472 | 1 | 84530 | KIAA1853 |
| 0.133590728 | 0.435827583 | 0.448 | 1 | 144577 | C12orf66 |
| 0.133333325 | 0.436719447 | 0.483 | 1 | 152 | ADRA2C |
| 0.133333325 | 0.436719447 | 0.49 | 1 | 2593 | GAMT |
| 0.133333325 | 0.436719447 | 0.46 | 1 | 9032 | TM4SF5 |
| 0.133333325 | 0.436719447 | 0.477 | 1 | 54494 | C11orf71 |
| 0.133333325 | 0.436719447 | 0.461 | 1 | 83442 | SH3BGRL3 |
| 0.133333325 | 0.436719447 | 0.465 | 1 | 84908 | FAM136A |
| 0.133333325 | 0.436719447 | 0.456 | 1 | 114814 | GNRHR2 |
| 0.133333325 | 0.436719447 | 0.469 | 1 | 340371 | NRBP2 |
| 0.133075938 | 0.437611967 | 0.494 | 1 | 290 | ANPEP |
| 0.133075938 | 0.437611967 | 0.463 | 1 | 7739 | ZNF185 |
| 0.133075938 | 0.437611967 | 0.457 | 1 | 7991 | TUSC3 |
| 0.133075938 | 0.437611967 | 0.466 | 1 | 51160 | VPS28 |
| 0.133075938 | 0.437611967 | 0.459 | 1 | 54926 | UBE2R2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.140184 | 8.82276E-37 | 26577 | PCOLCE2 |
| 0.140180647 | 8.85727E-37 | 100287728 | LOC100287728 |
| 0.140152141 | 9.15589E-37 | 4909 | AC008687.3 |
| 0.14012669 | 9.43106E-37 | 200765 | TIGD1 |
| 0.139989063 | 1.10671E-36 | 55359 | STYK1 |
| 0.13993381 | 1.18005E-36 | 159989 | CCDC67 |
| 0.139928713 | 1.18705E-36 | 51157 | ZNF580 |
| 0.139919415 | 1.19996E-36 | 57804 | POLD4 |
| 0.139880702 | 1.25513E-36 | 344905 | ATP13A5 |
| 0.139875218 | 1.26313E-36 | 389690 | AC100803.1 |
| 0.139849961 | 1.30071E-36 | 27429 | HTRA2 |
| 0.139820337 | 1.34619E-36 | 9729 | KIAA0408 |
| 0.139801294 | 1.37629E-36 | 9737 | GPRASP1 |
| 0.139799625 | 1.37895E-36 | 440097 | DBX2 |
| 0.139795721 | 1.38521E-36 | 130574 | LYPD6 |
| 0.139786154 | 1.40066E-36 | 54802 | TRIT1 |
| 0.139760345 | 1.44323E-36 | 137994 | LETM2 |
| 0.139752269 | 1.45681E-36 | 92659 | MAFG-AS1 |
| 0.139736474 | 1.48375E-36 | 100132249 | LOC100132249 |
| 0.139692456 | 1.56143E-36 | 55244 | SLC47A1 |
| 0.139690787 | 1.56445E-36 | 138799 | OR13C5 |
| 0.139687434 | 1.57054E-36 | 84650 | EBPL |
| 0.139577866 | 1.78317E-36 | 145553 | MDP1 |
| 0.13956216 | 1.81589E-36 | 91653 | BOC |
| 0.139435589 | 2.10246E-36 | 388595 | TMEM82 |
| 0.139428437 | 2.1199E-36 | 84250 | ANKRD32 |
| 0.139312819 | 2.4232E-36 | 401149 | FLJ14186 |
| 0.139287561 | 2.49499E-36 | 7441 | VPREB1 |
| 0.139244378 | 2.62265E-36 | 3594 | IL12RB1 |
| 0.139156431 | 2.90302E-36 | 22808 | MRAS |
| 0.139147237 | 2.93403E-36 | 24140 | FTSJ1 |
| 0.139126524 | 3.00505E-36 | 57224 | NHSL1 |
| 0.139097273 | 3.10827E-36 | 55668 | C14orf118 |
| 0.139068112 | 3.2146E-36 | 202243 | CCDC125 |
| 0.139062077 | 3.23709E-36 | 340554 | ZC3H12B |
| 0.139051303 | 3.27756E-36 | 85416 | ZIC5 |
| 0.139006734 | 3.45048E-36 | 22818 | COPZ1 |
| 0.138926312 | 3.78578E-36 | 8823 | FGF16 |
| 0.138774291 | 4.51039E-36 | 386685 | KRTAP10-12 |
| 0.138726652 | 4.76472E-36 | 100132594 | PGAM1P5 |
| 0.138518438 | 6.05398E-36 | 4967 | OGDH |
| 0.138394102 | 6.98341E-36 | 79906 | MORN1 |
| 0.138387412 | 7.0372E-36 | 353139 | LCE2A |
| 0.138332158 | 7.49801E-36 | 24145 | PANX1 |
| 0.138113648 | 9.63319E-36 | 57026 | PDXP |
| 0.13810277 | 9.75399E-36 | 146909 | KIF18B |
| 0.138026342 | 1.06462E-35 | 9459 | ARHGEF6 |
| 0.137970254 | 1.13523E-35 | 123688 | AGPHD1 |
| 0.13794221 | 1.17225E-35 | 57470 | LRRC47 |
| 0.13792856 | 1.19071E-35 | 222662 | LHFPL5 |
| 0.137915462 | 1.20869E-35 | 338773 | TMEM119 |
| 0.137833089 | 1.3281E-35 | 10279 | PRSS16 |
| 0.137802452 | 1.37547E-35 | 253018 | HCG27 |
| 0.137749135 | 1.46185E-35 | 442319 | ZNF727 |
| 0.137745336 | 1.46821E-35 | 148252 | DIRAS1 |
| 0.137710512 | 1.52782E-35 | 36 | ACADSB |
| 0.137654141 | 1.62943E-35 | 402360 | LOC402360 |
| 0.137626842 | 1.68101E-35 | 8034 | SLC25A16 |
| 0.137614295 | 1.70527E-35 | 1657 | DMXL1 |
| 0.137458384 | 2.03723E-35 | 1439 | CSF2RB |
| 0.137311742 | 2.40777E-35 | 124936 | CYB5D2 |
| 0.137295023 | 2.45408E-35 | 94032 | CAMK2N2 |
| 0.137283519 | 2.48643E-35 | 7040 | TGFB1 |
| 0.13728036 | 2.49541E-35 | 375704 | ENHO |
| 0.137266517 | 2.53503E-35 | 9118 | INA |
| 0.13724637 | 2.59385E-35 | 254439 | C11orf86 |
| 0.137120441 | 2.99351E-35 | 140838 | NANP |
| 0.137119979 | 2.99511E-35 | 6670 | SP3 |
| 0.137069732 | 3.17118E-35 | 341405 | ANKRD33 |
| 0.137067318 | 3.17989E-35 | 286187 | LRRC67 |
| 0.137061 | 3.20279E-35 | 440955 | TMEM89 |
| 0.137005746 | 3.41041E-35 | 50807 | ASAP1 |
| 0.136996552 | 3.44624E-35 | 23138 | AC136632.1 |
| 0.136909455 | 3.80464E-35 | 79071 | ELOVL6 |
| 0.136864409 | 4.00425E-35 | 9716 | AQR |
| 0.136811748 | 4.25079E-35 | 3671 | ISLR |
| 0.136780545 | 4.404E-35 | 134266 | GRPEL2 |
| 0.136761785 | 4.49876E-35 | 728591 | C13orf38 |
| 0.136716381 | 4.73651E-35 | 474148 | TTTY3B |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.133075938 | 0.437611967 | 0.476 | 1 | 80221 | ACSF2 |
| 0.133075938 | 0.437611967 | 0.454 | 1 | 84100 | ARL6 |
| 0.133075938 | 0.437611967 | 0.474 | 1 | 246175 | CNOT6L |
| 0.132818535 | 0.438505441 | 0.498 | 1 | 636 | BICD1 |
| 0.132818535 | 0.438505441 | 0.496 | 1 | 51608 | C7orf20 |
| 0.132818535 | 0.438505441 | 0.485 | 1 | 84516 | DCTN5 |
| 0.132818535 | 0.438505441 | 0.464 | 1 | 220594 | AC107983.3 |
| 0.132818535 | 0.438505441 | 0.451 | 1 | 337978 | KRTAP21-2 |
| 0.132561132 | 0.439399987 | 0.492 | 1 | 1140 | CHRNB1 |
| 0.132561132 | 0.439399987 | 0.483 | 1 | 1729 | DIAPH1 |
| 0.132561132 | 0.439399987 | 0.478 | 1 | 2213 | FCGR2B |
| 0.132561132 | 0.439399987 | 0.453 | 1 | 29097 | CNIH4 |
| 0.13230373 | 0.440295547 | 0.447 | 1 | 637 | BID |
| 0.13230373 | 0.440295547 | 0.454 | 1 | 7478 | WNT8A |
| 0.13230373 | 0.440295547 | 0.482 | 1 | 8467 | SMARCA5 |
| 0.13230373 | 0.440295547 | 0.46 | 1 | 23158 | TBC1D9 |
| 0.13230373 | 0.440295547 | 0.49 | 1 | 80222 | TARS2 |
| 0.132046327 | 0.441192478 | 0.462 | 1 | 6277 | S100A6 |
| 0.132046327 | 0.441192478 | 0.49 | 1 | 23197 | FAF2 |
| 0.132046327 | 0.441192478 | 0.471 | 1 | 55770 | EXOC2 |
| 0.132046327 | 0.441192478 | 0.461 | 1 | 728661 | RP11-345P4.2 |
| 0.131788939 | 0.442090064 | 0.474 | 1 | 53942 | CNTN5 |
| 0.131788939 | 0.442090064 | 0.48 | 1 | 79568 | C2orf47 |
| 0.131788939 | 0.442090064 | 0.475 | 1 | 90024 | AP001816.1 |
| 0.131788939 | 0.442090064 | 0.483 | 1 | 121643 | FOXN4 |
| 0.131788939 | 0.442090064 | 0.481 | 1 | 221823 | PRPS1L1 |
| 0.131788939 | 0.442090064 | 0.488 | 1 | 100129434 | AC007743.1 |
| 0.131531537 | 0.442988575 | 0.499 | 1 | 327 | APEH |
| 0.131531537 | 0.442988575 | 0.44 | 1 | 353 | APRT |
| 0.131531537 | 0.442988575 | 0.467 | 1 | 9318 | COPS2 |
| 0.131531537 | 0.442988575 | 0.497 | 1 | 170591 | S100Z |
| 0.131531537 | 0.442988575 | 0.461 | 1 | 246721 | POLR2J2 |
| 0.131531537 | 0.442988575 | 0.5 | 1 | 390940 | AC026369.2 |
| 0.131274134 | 0.443888187 | 0.484 | 1 | 2587 | GALR1 |
| 0.131274134 | 0.443888187 | 0.504 | 1 | 7270 | TTF1 |
| 0.131274134 | 0.443888187 | 0.495 | 1 | 129831 | RBM45 |
| 0.131274134 | 0.443888187 | 0.507 | 1 | 219844 | HYLS1 |
| 0.131016731 | 0.444789141 | 0.507 | 1 | 925 | CD8A |
| 0.131016731 | 0.444789141 | 0.479 | 1 | 7753 | ZNF202 |
| 0.131016731 | 0.444789141 | 0.498 | 1 | 27125 | AFF4 |
| 0.131016731 | 0.444789141 | 0.488 | 1 | 285362 | SUMF1 |
| 0.131016731 | 0.444789141 | 0.494 | 1 | 346606 | MOGAT3 |
| 0.131016731 | 0.444789141 | 0.481 | 1 | 100129250 | C9ORF133 |
| 0.130759329 | 0.445690751 | 0.471 | 1 | 249 | ALPL |
| 0.130759329 | 0.445690751 | 0.479 | 1 | 602 | BCL3 |
| 0.130759329 | 0.445690751 | 0.481 | 1 | 5055 | SERPINB2 |
| 0.130759329 | 0.445690751 | 0.47 | 1 | 26578 | OSTF1 |
| 0.130759329 | 0.445690751 | 0.465 | 1 | 54901 | CDKAL1 |
| 0.130759329 | 0.445690751 | 0.477 | 1 | 84666 | RETNLB |
| 0.130501941 | 0.446593404 | 0.47 | 1 | 6137 | RPL13 |
| 0.130501941 | 0.446593404 | 0.46 | 1 | 7319 | UBE2A |
| 0.130501941 | 0.446593404 | 0.457 | 1 | 8943 | AP3D1 |
| 0.130501941 | 0.446593404 | 0.478 | 1 | 23029 | RBM34 |
| 0.130501941 | 0.446593404 | 0.501 | 1 | 135114 | HINT3 |
| 0.130501941 | 0.446593404 | 0.479 | 1 | 221472 | FGD2 |
| 0.130501941 | 0.446593404 | 0.49 | 1 | 100506581 | C16orf95 |
| 0.130244538 | 0.447496951 | 0.519 | 1 | 2289 | FKBP5 |
| 0.130244538 | 0.447496951 | 0.488 | 1 | 6154 | RPL26 |
| 0.130244538 | 0.447496951 | 0.483 | 1 | 9665 | KIAA0430 |
| 0.130244538 | 0.447496951 | 0.498 | 1 | 83716 | CRISPLD2 |
| 0.130244538 | 0.447496951 | 0.52 | 1 | 127700 | C1orf102 |
| 0.130244538 | 0.447496951 | 0.496 | 1 | 401805 | LOC401805 |
| 0.130244538 | 0.447496951 | 0.465 | 1 | 440577 | LOC440577 |
| 0.129987136 | 0.448401988 | 0.491 | 1 | 9919 | SEC16A |
| 0.129987136 | 0.448401988 | 0.498 | 1 | 54840 | APTX |
| 0.129987136 | 0.448401988 | 0.478 | 1 | 81696 | OR5V1 |
| 0.129987136 | 0.448401988 | 0.49 | 1 | 341359 | SYT10 |
| 0.129729733 | 0.449307591 | 0.475 | 1 | 2963 | GTF2F2 |
| 0.129729733 | 0.449307591 | 0.533 | 1 | 4978 | AP000843.1 |
| 0.129729733 | 0.449307591 | 0.484 | 1 | 26057 | ANKRD17 |
| 0.129729733 | 0.449307591 | 0.462 | 1 | 51011 | FAHD2A |
| 0.129729733 | 0.449307591 | 0.508 | 1 | 54905 | CYP2W1 |
| 0.129729733 | 0.449307591 | 0.482 | 1 | 64428 | NARFL |
| 0.129729733 | 0.449307591 | 0.458 | 1 | 148268 | ZNF570 |
| 0.129729733 | 0.449307591 | 0.489 | 1 | 157773 | C8orf48 |
| 0.12947233 | 0.450214207 | 0.504 | 1 | 28974 | C19orf53 |
| 0.12947233 | 0.450214207 | 0.471 | 1 | 116729 | DYSFIP1 |
| 0.12947233 | 0.450214207 | 0.482 | 1 | 729220 | FLJ45513 |
| 0.129214913 | 0.451121837 | 0.484 | 1 | 10844 | TUBGCP2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.136712104 | 4.75954E-35 | 1296 | COL8A2 |
| 0.136682481 | 4.92206E-35 | 2937 | GSS |
| 0.136478081 | 6.20443E-35 | 375790 | AGRN |
| 0.13647595 | 6.2194E-35 | 27336 | HTATSF1 |
| 0.13645412 | 6.37499E-35 | 85318 | BAGE3 |
| 0.1364467 | 6.42874E-35 | 777 | CACNA1E |
| 0.136384755 | 6.89536E-35 | 90668 | LRRC16B |
| 0.136279166 | 7.76984E-35 | 5573 | PRKAR1A |
| 0.136241376 | 8.10877E-35 | 83786 | FRMD8 |
| 0.136174873 | 8.74135E-35 | 390748 | AC092384.2 |
| 0.136100397 | 9.50823E-35 | 25858 | C11orf20 |
| 0.136094555 | 9.57115E-35 | 5533 | PPP3CC |
| 0.13603279 | 1.0262E-34 | 6817 | SULT1A1 |
| 0.135987282 | 1.08025E-34 | 79947 | DHDDS |
| 0.135946617 | 1.13093E-34 | 1258 | CNGB1 |
| 0.135935649 | 1.145E-34 | 64219 | PJA1 |
| 0.135900453 | 1.19133E-34 | 28227 | PPP2R3B |
| 0.135830805 | 1.28858E-34 | 64782 | AEN |
| 0.135814741 | 1.31211E-34 | 3716 | JAK1 |
| 0.135799706 | 1.3345E-34 | 23480 | SEC61G |
| 0.135709986 | 1.47635E-34 | 340591 | CA5BP |
| 0.135675535 | 1.53471E-34 | 516 | ATP5G1 |
| 0.135669127 | 1.54581E-34 | 3658 | IREB2 |
| 0.135638118 | 1.60066E-34 | 4744 | NEFH |
| 0.135617122 | 1.6389E-34 | 79158 | GNPTAB |
| 0.135603935 | 1.66339E-34 | 23344 | ESYT1 |
| 0.135597438 | 1.67559E-34 | 5509 | PPP1R3D |
| 0.135596976 | 1.67648E-34 | 55810 | FOXJ2 |
| 0.135579512 | 1.7097E-34 | 142680 | SLC34A3 |
| 0.135567069 | 1.73377E-34 | 10802 | SEC24A |
| 0.135550633 | 1.76614E-34 | 85456 | TNKS1BP1 |
| 0.13553299 | 1.80148E-34 | 22955 | SCMH1 |
| 0.135467514 | 1.93902E-34 | 3773 | KCNJ16 |
| 0.135414764 | 2.05737E-34 | 140767 | NRSN1 |
| 0.135267392 | 2.42736E-34 | 284339 | TMEM145 |
| 0.135224953 | 2.54569E-34 | 9390 | SLC22A13 |
| 0.135214463 | 2.57579E-34 | 51655 | RASD1 |
| 0.13518855 | 2.65171E-34 | 3728 | JUP |
| 0.135178328 | 2.6823E-34 | 22872 | SEC31A |
| 0.135178238 | 2.68257E-34 | 9780 | FAM38A |
| 0.135017857 | 3.21047E-34 | 5479 | PPIB |
| 0.134994462 | 3.29567E-34 | 4351 | MPI |
| 0.134900659 | 3.66035E-34 | 257068 | PLCXD2 |
| 0.134889796 | 3.70505E-34 | 202134 | FAM153B |
| 0.134870574 | 3.78556E-34 | 11024 | LILRA1 |
| 0.1348598 | 3.83149E-34 | 440823 | MIAT |
| 0.134848565 | 3.8799E-34 | 1158 | CKM |
| 0.134831667 | 3.95394E-34 | 2267 | FGL1 |
| 0.13482517 | 3.98274E-34 | 404037 | HAPLN4 |
| 0.134824231 | 3.98693E-34 | 55975 | KLHL7 |
| 0.134823486 | 3.99025E-34 | 64210 | MMS19 |
| 0.13480185 | 4.0879E-34 | 100132306 | LOC100132306 |
| 0.134736389 | 4.39812E-34 | 729420 | AL359392.2 |
| 0.134696633 | 4.59782E-34 | 5532 | PPP3CB |
| 0.134679273 | 4.6878E-34 | 113026 | PLCD3 |
| 0.134659767 | 4.79096E-34 | 50636 | ANO7 |
| 0.134584457 | 5.21115E-34 | 3234 | HOXD8 |
| 0.134517968 | 5.61236E-34 | 96597 | TBC1D27 |
| 0.134383962 | 6.51649E-34 | 80705 | TSGA10 |
| 0.134373188 | 6.5952E-34 | 126731 | C1orf96 |
| 0.134371042 | 6.611E-34 | 161502 | C15orf26 |
| 0.134299815 | 7.15678E-34 | 6741 | SSB |
| 0.134298056 | 7.17077E-34 | 55906 | ZC4H2 |
| 0.134296298 | 7.18496E-34 | 3201 | HOXA4 |
| 0.134244189 | 7.61383E-34 | 60488 | MRPS35 |
| 0.134214476 | 7.86987E-34 | 4759 | NEU2 |
| 0.134206116 | 7.94343E-34 | 8455 | ATRN |
| 0.134197578 | 8.01929E-34 | 284114 | TMEM102 |
| 0.134171203 | 8.25805E-34 | 441864 | TARM1 |
| 0.134137869 | 8.56989E-34 | 338321 | NLRP9 |
| 0.134134799 | 8.59919E-34 | 253650 | ANKRD18A |
| 0.134074345 | 9.19699E-34 | 196463 | PLBD2 |
| 0.134052888 | 9.41896E-34 | 56138 | PCDHA11 |
| 0.134045646 | 9.49497E-34 | 157848 | NKX6-3 |
| 0.133972093 | 1.03035E-33 | 58506 | SCAF1 |
| 0.133972004 | 1.03045E-33 | 8724 | SNX3 |
| 0.133922502 | 1.08867E-33 | 7358 | UGDH |
| 0.133882299 | 1.13836E-33 | 7168 | TPM1 |
| 0.133813754 | 1.22831E-33 | 3110 | MNX1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.129214913 | 0.451121837 | 0.498 | 1 | 10894 | LYVE1 |
| 0.128957525 | 0.45203042 | 0.491 | 1 | 10745 | PHTF1 |
| 0.128957525 | 0.45203042 | 0.489 | 1 | 134359 | C5orf37 |
| 0.128957525 | 0.45203042 | 0.484 | 1 | 729009 | FTH1P20 |
| 0.128700122 | 0.452940434 | 0.498 | 1 | 8928 | FOXH1 |
| 0.128700122 | 0.452940434 | 0.476 | 1 | 113091 | PTH2 |
| 0.12844272 | 0.453851044 | 0.468 | 1 | 1001 | CDH3 |
| 0.12844272 | 0.453851044 | 0.478 | 1 | 4774 | NFIA |
| 0.12844272 | 0.453851044 | 0.474 | 1 | 7482 | WNT2B |
| 0.12844272 | 0.453851044 | 0.48 | 1 | 80129 | C6orf97 |
| 0.12844272 | 0.453851044 | 0.474 | 1 | 81631 | MAP1LC3B |
| 0.12844272 | 0.453851044 | 0.485 | 1 | 96459 | FNIP1 |
| 0.12844272 | 0.453851044 | 0.487 | 1 | 401036 | ASB18 |
| 0.128185332 | 0.454762697 | 0.5 | 1 | 3118 | HLA-DQA2 |
| 0.128185332 | 0.454762697 | 0.485 | 1 | 11315 | PARK7 |
| 0.128185332 | 0.454762697 | 0.5 | 1 | 79625 | C4orf31 |
| 0.128185332 | 0.454762697 | 0.511 | 1 | 146723 | C17orf77 |
| 0.128185332 | 0.454762697 | 0.475 | 1 | 153396 | TMEM161B |
| 0.127927929 | 0.455675244 | 0.491 | 1 | 5020 | OXT |
| 0.127927929 | 0.455675244 | 0.501 | 1 | 55127 | HEATR1 |
| 0.127927929 | 0.455675244 | 0.505 | 1 | 129138 | ANKRD54 |
| 0.127927929 | 0.455675244 | 0.474 | 1 | 388585 | HES5 |
| 0.127670527 | 0.456589252 | 0.492 | 1 | 25885 | POLR1A |
| 0.127670527 | 0.456589252 | 0.505 | 1 | 64710 | NUCKS1 |
| 0.127670527 | 0.456589252 | 0.497 | 1 | 78987 | CRELD1 |
| 0.127670527 | 0.456589252 | 0.525 | 1 | 85474 | LBX2 |
| 0.127670527 | 0.456589252 | 0.46 | 1 | 94039 | ZNF101 |
| 0.127413124 | 0.457503915 | 0.511 | 1 | 2730 | GCLM |
| 0.127413124 | 0.457503915 | 0.511 | 1 | 11094 | C9orf7 |
| 0.127155721 | 0.458419472 | 0.514 | 1 | 4893 | NRAS |
| 0.127155721 | 0.458419472 | 0.484 | 1 | 5460 | POU5F1 |
| 0.127155721 | 0.458419472 | 0.474 | 1 | 5694 | PSMB6 |
| 0.127155721 | 0.458419472 | 0.506 | 1 | 9851 | KIAA0753 |
| 0.127155721 | 0.458419472 | 0.517 | 1 | 153830 | RNF145 |
| 0.126898319 | 0.459336072 | 0.485 | 1 | 4088 | SMAD3 |
| 0.126898319 | 0.459336072 | 0.508 | 1 | 51654 | CDK5RAP1 |
| 0.126898319 | 0.459336072 | 0.459 | 1 | 441263 | DTX2P1-UPK3BP1-PMS2P11 |
| 0.126640916 | 0.460254073 | 0.478 | 1 | 7566 | ZNF18 |
| 0.126640916 | 0.460254073 | 0.524 | 1 | 23215 | BAT2D1 |
| 0.126640916 | 0.460254073 | 0.487 | 1 | 25949 | SYF2 |
| 0.126640916 | 0.460254073 | 0.499 | 1 | 57620 | STIM2 |
| 0.126640916 | 0.460254073 | 0.48 | 1 | 83448 | PUS7L |
| 0.126640916 | 0.460254073 | 0.478 | 1 | 84619 | ZGPAT |
| 0.126640916 | 0.460254073 | 0.508 | 1 | 359821 | MRPL42P5 |
| 0.126383528 | 0.461172581 | 0.483 | 1 | 6497 | SKI |
| 0.126383528 | 0.461172581 | 0.51 | 1 | 9687 | AC110754.1 |
| 0.126383528 | 0.461172581 | 0.492 | 1 | 51073 | MRPL4 |
| 0.126383528 | 0.461172581 | 0.469 | 1 | 64601 | VPS16A |
| 0.126126125 | 0.462092161 | 0.469 | 1 | 138799 | OR13C5 |
| 0.125868723 | 0.463012695 | 0.502 | 1 | 5582 | PRKCG |
| 0.125868723 | 0.463012695 | 0.517 | 1 | 5631 | PRPS1 |
| 0.125868723 | 0.463012695 | 0.485 | 1 | 84624 | FNDC1 |
| 0.125868723 | 0.463012695 | 0.494 | 1 | 90665 | TBL1Y |
| 0.12561132 | 0.463934183 | 0.497 | 1 | 63943 | FKBPL |
| 0.12561132 | 0.463934183 | 0.506 | 1 | 116224 | FAM122A |
| 0.12561132 | 0.463934183 | 0.485 | 1 | 196047 | EMX2OS |
| 0.12561132 | 0.463934183 | 0.522 | 1 | 389787 | LOC389787 |
| 0.12561132 | 0.463934183 | 0.489 | 1 | 442245 | GSTM2P1 |
| 0.125353917 | 0.464857221 | 0.503 | 1 | 776 | CACNA1D |
| 0.125353917 | 0.464857221 | 0.521 | 1 | 2334 | AFF2 |
| 0.125353917 | 0.464857221 | 0.514 | 1 | 8601 | RGS20 |
| 0.125353917 | 0.464857221 | 0.486 | 1 | 10567 | RABAC1 |
| 0.125353917 | 0.464857221 | 0.492 | 1 | 54741 | LEPROT |
| 0.125353917 | 0.464857221 | 0.486 | 1 | 59340 | HRH4 |
| 0.125353917 | 0.464857221 | 0.484 | 1 | 84078 | KBTBD7 |
| 0.125353917 | 0.464857221 | 0.509 | 1 | 388588 | RP1-286D6.2 |
| 0.125353917 | 0.464857221 | 0.525 | 1 | 643837 | RP11-206L10.11 |
| 0.12509653 | 0.465780675 | 0.522 | 1 | 3675 | ITGA3 |
| 0.12509653 | 0.465780675 | 0.506 | 1 | 4205 | MEF2A |
| 0.12509653 | 0.465780675 | 0.513 | 1 | 7386 | UQCRFS1 |
| 0.12509653 | 0.465780675 | 0.5 | 1 | 7474 | WNT5A |
| 0.12509653 | 0.465780675 | 0.491 | 1 | 8575 | PRKRA |
| 0.12509653 | 0.465780675 | 0.49 | 1 | 85453 | AP003115.1 |
| 0.124839127 | 0.466705143 | 0.536 | 1 | 8630 | HSD17B6 |
| 0.124839127 | 0.466705143 | 0.504 | 1 | 114625 | ERMAP |
| 0.124581724 | 0.467630595 | 0.489 | 1 | 6173 | RPL36A |
| 0.124324329 | 0.468557507 | 0.51 | 1 | 4093 | SMAD9 |
| 0.124324329 | 0.468557507 | 0.508 | 1 | 9456 | HOMER1 |
| 0.124324329 | 0.468557507 | 0.495 | 1 | 28952 | CCDC22 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.133783206 | 1.27064E-33 | 54107 | POLE3 |
| 0.133769467 | 1.29014E-33 | 220070 | SHANK2-AS3 |
| 0.133766681 | 1.29415E-33 | 84651 | SPINK7 |
| 0.133764267 | 1.29761E-33 | 83882 | TSPAN10 |
| 0.133755624 | 1.31011E-33 | 1056 | CEL |
| 0.133726656 | 1.35284E-33 | 23269 | MGA |
| 0.133719593 | 1.36348E-33 | 1188 | CLCNKB |
| 0.133718297 | 1.36547E-33 | 55901 | THSD1 |
| 0.133713648 | 1.37253E-33 | 3959 | LGALS3BP |
| 0.133667126 | 1.44513E-33 | 23365 | ARHGEF12 |
| 0.133640379 | 1.4886E-33 | 154790 | CLEC2L |
| 0.133550853 | 1.64373E-33 | 345193 | LRIT3 |
| 0.133486778 | 1.76454E-33 | 83667 | SESN2 |
| 0.133464217 | 1.80916E-33 | 51507 | C20orf43 |
| 0.133453712 | 1.83029E-33 | 9839 | ZEB2 |
| 0.133440346 | 1.85755E-33 | 78994 | PRR14 |
| 0.133435234 | 1.86806E-33 | 57626 | KLHL1 |
| 0.133424193 | 1.89103E-33 | 100131138 | AC002351.1 |
| 0.133419722 | 1.9004E-33 | 89780 | WNT3A |
| 0.133406356 | 1.9287E-33 | 133686 | C5orf33 |
| 0.133393079 | 1.95723E-33 | 163859 | C1orf55 |
| 0.133365303 | 2.01826E-33 | 26523 | EIF2C1 |
| 0.133364573 | 2.01988E-33 | 2906 | GRIN2D |
| 0.133350357 | 2.05188E-33 | 646405 | TPTE2P1 |
| 0.133345619 | 2.06267E-33 | 647012 | LOC647012 |
| 0.133341819 | 2.07135E-33 | 51676 | ASB2 |
| 0.133337259 | 2.0818E-33 | 10467 | ZNHIT1 |
| 0.133311629 | 2.14157E-33 | 4791 | NFKB2 |
| 0.133311167 | 2.14271E-33 | 116534 | MRGPRE |
| 0.133265391 | 2.25384E-33 | 58189 | WFDC1 |
| 0.133237243 | 2.32502E-33 | 11056 | DDX52 |
| 0.133185148 | 2.46269E-33 | 123722 | FSD2 |
| 0.133143172 | 2.57946E-33 | 51310 | SLC22A17 |
| 0.133119866 | 2.64666E-33 | 3200 | HOXA3 |
| 0.133047521 | 2.86651E-33 | 3777 | KCNK3 |
| 0.133044735 | 2.87535E-33 | 27302 | BMP10 |
| 0.132983252 | 3.07703E-33 | 114898 | C1QTNF2 |
| 0.132925034 | 3.2809E-33 | 54943 | DNAJC28 |
| 0.132849813 | 3.56429E-33 | 9547 | CXCL14 |
| 0.132765114 | 3.91254E-33 | 85445 | CNTNAP4 |
| 0.132674113 | 4.32445E-33 | 51060 | TXNDC12 |
| 0.13267383 | 4.32582E-33 | 26039 | SS18L1 |
| 0.132660553 | 4.38942E-33 | 4257 | MGST1 |
| 0.13263993 | 4.49003E-33 | 3556 | IL1RAP |
| 0.132596567 | 4.70929E-33 | 84159 | ARID5B |
| 0.132568896 | 4.85471E-33 | 64395 | GMCL1 |
| 0.132561371 | 4.89501E-33 | 646938 | AC022748.1 |
| 0.132532209 | 5.0543E-33 | 54841 | BIVM |
| 0.13247937 | 5.35627E-33 | 55101 | ATP5SL |
| 0.132434145 | 5.62889E-33 | 64431 | ACTR6 |
| 0.132409722 | 5.78182E-33 | 2131 | EXT1 |
| 0.132400334 | 5.84171E-33 | 284266 | SIGLEC15 |
| 0.132381946 | 5.96081E-33 | 7425 | VGF |
| 0.132376015 | 5.99958E-33 | 90070 | LACRT |
| 0.1323241 | 6.3512E-33 | 340152 | ZC3H12D |
| 0.132314995 | 6.41495E-33 | 7151 | TOP1P1 |
| 0.132310718 | 6.44507E-33 | 3297 | HSF1 |
| 0.132248878 | 6.89713E-33 | 1604 | CD55 |
| 0.132245719 | 6.92107E-33 | 5296 | PIK3R2 |
| 0.132170126 | 7.51871E-33 | 123745 | PLA2G4E |
| 0.13216427 | 7.56714E-33 | 56951 | C5orf15 |
| 0.132154241 | 7.65065E-33 | 2826 | CCR10 |
| 0.132129908 | 7.85729E-33 | 387338 | NSUN4 |
| 0.132048383 | 8.5908E-33 | 150094 | SIK1 |
| 0.1320429 | 8.64254E-33 | 3750 | KCND1 |
| 0.132038161 | 8.68735E-33 | 10249 | GLYAT |
| 0.131966472 | 9.3959E-33 | 51278 | IER5 |
| 0.131933033 | 9.74592E-33 | 1982 | EIF4G2 |
| 0.131931365 | 9.76383E-33 | 284359 | IZUMO1 |
| 0.131918177 | 9.90562E-33 | 100128588 | LOC100128588 |
| 0.131643757 | 1.33667E-32 | 26054 | SENP6 |
| 0.131605685 | 1.39334E-32 | 9534 | ZNF254 |
| 0.131591663 | 1.41479E-32 | 11193 | WBP4 |
| 0.131558508 | 1.46689E-32 | 57515 | SERINC1 |
| 0.131553501 | 1.47492E-32 | 10363 | HMG20A |
| 0.131552652 | 1.4763E-32 | 2771 | GNAI2 |
| 0.131540209 | 1.49645E-32 | 253959 | GARNL1 |
| 0.131535754 | 1.50372E-32 | 79886 | C9orf82 |
| 0.131505013 | 1.55496E-32 | 6097 | RORC |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.124324329 | 0.468557507 | 0.53 | 1 | 63894 | C14orf133 |
| 0.124324329 | 0.468557507 | 0.505 | 1 | 157627 | RP11-403C10.2 |
| 0.124066919 | 0.469484925 | 0.51 | 1 | 2970 | GTF2IP1 |
| 0.124066919 | 0.469484925 | 0.525 | 1 | 54517 | PUS7 |
| 0.123809516 | 0.470413327 | 0.476 | 1 | 4172 | MCM3 |
| 0.123809516 | 0.470413327 | 0.495 | 1 | 10771 | ZMYND11 |
| 0.123809516 | 0.470413327 | 0.465 | 1 | 79159 | NOL12 |
| 0.123809516 | 0.470413327 | 0.527 | 1 | 80772 | GLTPD1 |
| 0.123809516 | 0.470413327 | 0.515 | 1 | 84069 | PLEKHN1 |
| 0.123809516 | 0.470413327 | 0.52 | 1 | 85440 | DOCK7 |
| 0.123552121 | 0.471342742 | 0.492 | 1 | 7784 | ZP3 |
| 0.123552121 | 0.471342742 | 0.495 | 1 | 26984 | SEC22A |
| 0.123552121 | 0.471342742 | 0.511 | 1 | 57700 | FAM160B1 |
| 0.123552121 | 0.471342742 | 0.519 | 1 | 120071 | GYLTL1B |
| 0.123552121 | 0.471342742 | 0.511 | 1 | 338094 | FAM151A |
| 0.123552121 | 0.471342742 | 0.504 | 1 | 442459 | LOC442459 |
| 0.123552121 | 0.471342742 | 0.515 | 1 | 493856 | CISD2 |
| 0.123294719 | 0.472273529 | 0.508 | 1 | 644 | BLVRA |
| 0.123294719 | 0.472273529 | 0.506 | 1 | 924 | CD7 |
| 0.123294719 | 0.472273529 | 0.494 | 1 | 4598 | MVK |
| 0.123294719 | 0.472273529 | 0.525 | 1 | 5535 | PPP3R2 |
| 0.123294719 | 0.472273529 | 0.517 | 1 | 7940 | LST1 |
| 0.123294719 | 0.472273529 | 0.496 | 1 | 8542 | APOL1 |
| 0.123294719 | 0.472273529 | 0.536 | 1 | 29799 | YPEL1 |
| 0.123294719 | 0.472273529 | 0.494 | 1 | 51103 | NDUFAF1 |
| 0.123294719 | 0.472273529 | 0.505 | 1 | 146547 | PRSS36 |
| 0.123037323 | 0.473204881 | 0.531 | 1 | 5126 | PCSK2 |
| 0.123037323 | 0.473204881 | 0.512 | 1 | 5795 | PTPRJ |
| 0.123037323 | 0.473204881 | 0.521 | 1 | 9450 | LY86 |
| 0.123037323 | 0.473204881 | 0.507 | 1 | 10243 | GPHN |
| 0.123037323 | 0.473204881 | 0.504 | 1 | 151525 | WDSUB1 |
| 0.123037323 | 0.473204881 | 0.514 | 1 | 162514 | TRPV3 |
| 0.123037323 | 0.473204881 | 0.533 | 1 | 283458 | NME2P1 |
| 0.123037323 | 0.473204881 | 0.512 | 1 | 641311 | RPL31P11 |
| 0.122779921 | 0.474137217 | 0.479 | 1 | 10580 | SORBS1 |
| 0.122522518 | 0.475070477 | 0.509 | 1 | 4159 | MC3R |
| 0.122522518 | 0.475070477 | 0.5 | 1 | 5995 | RGR |
| 0.122522518 | 0.475070477 | 0.505 | 1 | 6201 | RPS7 |
| 0.122522518 | 0.475070477 | 0.509 | 1 | 7767 | ZNF224 |
| 0.122522518 | 0.475070477 | 0.516 | 1 | 9362 | CPNE6 |
| 0.122522518 | 0.475070477 | 0.521 | 1 | 94122 | SYTL5 |
| 0.122265123 | 0.476004809 | 0.496 | 1 | 387 | RHOA |
| 0.122265123 | 0.476004809 | 0.494 | 1 | 10381 | RP11-566K11.2 |
| 0.122265123 | 0.476004809 | 0.483 | 1 | 26751 | SH3YL1 |
| 0.122265123 | 0.476004809 | 0.537 | 1 | 51018 | RRP15 |
| 0.122265123 | 0.476004809 | 0.522 | 1 | 56673 | C11orf16 |
| 0.122265123 | 0.476004809 | 0.486 | 1 | 58191 | CXCL16 |
| 0.12200772 | 0.476940513 | 0.52 | 1 | 50855 | PARD6A |
| 0.12200772 | 0.476940513 | 0.529 | 1 | 63982 | ANO3 |
| 0.12200772 | 0.476940513 | 0.497 | 1 | 84961 | FBXL20 |
| 0.121750325 | 0.477876663 | 0.515 | 1 | 1307 | COL16A1 |
| 0.121750325 | 0.477876663 | 0.512 | 1 | 1981 | EIF4G1 |
| 0.121750325 | 0.477876663 | 0.479 | 1 | 4693 | NDP |
| 0.121750325 | 0.477876663 | 0.475 | 1 | 10961 | ERP29 |
| 0.121750325 | 0.477876663 | 0.521 | 1 | 11173 | ADAMTS7 |
| 0.121750325 | 0.477876663 | 0.503 | 1 | 11189 | CELF3 |
| 0.121750325 | 0.477876663 | 0.507 | 1 | 23411 | SIRT1 |
| 0.121750325 | 0.477876663 | 0.501 | 1 | 27085 | MTBP |
| 0.121750325 | 0.477876663 | 0.524 | 1 | 51686 | OAZ3 |
| 0.121750325 | 0.477876663 | 0.524 | 1 | 146923 | RUNDC1 |
| 0.121750325 | 0.477876663 | 0.504 | 1 | 399979 | SNX19 |
| 0.121492922 | 0.478813857 | 0.505 | 1 | 1390 | CREM |
| 0.121492922 | 0.478813857 | 0.498 | 1 | 2189 | FANCG |
| 0.121492922 | 0.478813857 | 0.548 | 1 | 27189 | IL17C |
| 0.121492922 | 0.478813857 | 0.52 | 1 | 64754 | SMYD3 |
| 0.121492922 | 0.478813857 | 0.512 | 1 | 84270 | C9orf89 |
| 0.121492922 | 0.478813857 | 0.502 | 1 | 284593 | FAM41C |
| 0.121492922 | 0.478813857 | 0.532 | 1 | 339745 | SPOPL |
| 0.121492922 | 0.478813857 | 0.523 | 1 | 391123 | VSIG8 |
| 0.121492922 | 0.478813857 | 0.527 | 1 | 399948 | C11orf92 |
| 0.12123552 | 0.479752034 | 0.531 | 1 | 5438 | POLR2I |
| 0.12123552 | 0.479752034 | 0.492 | 1 | 6344 | SCTR |
| 0.12123552 | 0.479752034 | 0.516 | 1 | 8487 | SIP1 |
| 0.12123552 | 0.479752034 | 0.499 | 1 | 11159 | RABL2A |
| 0.12123552 | 0.479752034 | 0.524 | 1 | 23376 | KIAA0776 |
| 0.12123552 | 0.479752034 | 0.511 | 1 | 29959 | NRBP1 |
| 0.120978124 | 0.480691612 | 0.524 | 1 | 223 | ALDH9A1 |
| 0.120978124 | 0.480691612 | 0.505 | 1 | 8111 | GPR68 |
| 0.120978124 | 0.480691612 | 0.503 | 1 | 23647 | ARFIP2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.131485701 | 1.58803E-32 | 1890 | TYMP |
| 0.131451905 | 1.64759E-32 | 4191 | MDH2 |
| 0.131419867 | 1.70608E-32 | 4253 | CTAGE5 |
| 0.131398499 | 1.74627E-32 | 220107 | DLEU7 |
| 0.131215841 | 2.1302E-32 | 10468 | FST |
| 0.131170332 | 2.23822E-32 | 347088 | GPR144 |
| 0.131137177 | 2.32033E-32 | 100128062 | SLC2A3P1 |
| 0.131119534 | 2.36527E-32 | 9191 | DEDD |
| 0.131084055 | 2.45819E-32 | 85028 | SNHG12 |
| 0.130817249 | 3.28345E-32 | 55100 | WDR70 |
| 0.130719185 | 3.65157E-32 | 5570 | PKIB |
| 0.130710915 | 3.68443E-32 | 29118 | DDX25 |
| 0.130664304 | 3.87513E-32 | 284040 | CDRT4 |
| 0.130580261 | 4.2441E-32 | 83881 | MIXL1 |
| 0.130537912 | 4.44305E-32 | 8031 | NCOA4 |
| 0.13050662 | 4.59595E-32 | 83853 | ROPN1L |
| 0.130506337 | 4.59737E-32 | 554 | AVPR2 |
| 0.130477265 | 4.74415E-32 | 148137 | C19orf55 |
| 0.130472064 | 4.77091E-32 | 89866 | SEC16B |
| 0.130465567 | 4.80449E-32 | 27004 | TCL6 |
| 0.130419418 | 5.05023E-32 | 80173 | IFT74 |
| 0.130403534 | 5.13768E-32 | 2697 | GJA1 |
| 0.130370468 | 5.3245E-32 | 63035 | BCORL1 |
| 0.130352557 | 5.42845E-32 | 401176 | RP11-19O2.2 |
| 0.13029924 | 5.75017E-32 | 337 | APOA4 |
| 0.130194873 | 6.43567E-32 | 2805 | GOT1 |
| 0.130180195 | 6.53832E-32 | 5371 | PML |
| 0.130136728 | 6.85203E-32 | 115727 | RASGRP4 |
| 0.130101815 | 7.11483E-32 | 57466 | SFRS15 |
| 0.130100518 | 7.12472E-32 | 221 | ALDH3B1 |
| 0.130083799 | 7.25435E-32 | 25807 | RHBDD3 |
| 0.130061135 | 7.43357E-32 | 284412 | LOC284412 |
| 0.129952118 | 8.35986E-32 | 3683 | ITGAL |
| 0.129950806 | 8.37168E-32 | 7791 | ZYX |
| 0.129889801 | 8.93965E-32 | 6338 | SCNN1B |
| 0.129814297 | 9.69623E-32 | 2980 | GUCA2A |
| 0.129801214 | 9.83365E-32 | 10942 | PRSS21 |
| 0.129788026 | 9.97401E-32 | 3980 | LIG3 |
| 0.129786074 | 9.99488E-32 | 7589 | ZSCAN21 |
| 0.129784495 | 1.00119E-31 | 64847 | SPATA20 |
| 0.129698306 | 1.09836E-31 | 10914 | PAPOLA |
| 0.129698128 | 1.09857E-31 | 1478 | CSTF2 |
| 0.129663676 | 1.13999E-31 | 123624 | AGBL1 |
| 0.129662737 | 1.14115E-31 | 10225 | CD96 |
| 0.129631162 | 1.18049E-31 | 401994 | OR14I1 |
| 0.129606649 | 1.21199E-31 | 2068 | ERCC2 |
| 0.129595414 | 1.2267E-31 | 54915 | YTHDF1 |
| 0.129556686 | 1.27876E-31 | 83551 | TAAR8 |
| 0.129556134 | 1.27952E-31 | 1503 | CTPS |
| 0.129555762 | 1.28003E-31 | 10989 | IMMT |
| 0.129482299 | 1.385E-31 | 100131943 | LOC100131943 |
| 0.129457876 | 1.42177E-31 | 3009 | HIST1H1B |
| 0.129440978 | 1.44775E-31 | 1046 | CDX4 |
| 0.12943086 | 1.46354E-31 | 2212 | FCGR2A |
| 0.129404485 | 1.50553E-31 | 10394 | PRG3 |
| 0.129365012 | 1.57058E-31 | 50484 | RRM2B |
| 0.129277542 | 1.72487E-31 | 55198 | APPL2 |
| 0.12921828 | 1.83786E-31 | 79594 | MUL1 |
| 0.12920092 | 1.87231E-31 | 10146 | G3BP1 |
| 0.129150122 | 1.9769E-31 | 8939 | FUBP3 |
| 0.129149005 | 1.97926E-31 | 5603 | MAPK13 |
| 0.129146323 | 1.98497E-31 | 6003 | RGS13 |
| 0.129128858 | 2.02237E-31 | 128611 | ZNF831 |
| 0.129064322 | 2.16688E-31 | 114827 | FHAD1 |
| 0.129050285 | 2.19961E-31 | 161424 | C14orf21 |
| 0.129041195 | 2.22111E-31 | 147183 | KRT25 |
| 0.129024565 | 2.26094E-31 | 7555 | CNBP |
| 0.12900804 | 2.30124E-31 | 65056 | GPBP1 |
| 0.128969774 | 2.39724E-31 | 11148 | HHLA2 |
| 0.128871992 | 2.66109E-31 | 347741 | OTOP3 |
| 0.128821746 | 2.80771E-31 | 100101467 | ZNF397OS |
| 0.128789157 | 2.90707E-31 | 646424 | SPINK8 |
| 0.128729254 | 3.09883E-31 | 55276 | PGM2 |
| 0.128620699 | 3.4789E-31 | 92579 | G6PC3 |
| 0.128616139 | 3.49585E-31 | 54557 | SGTB |
| 0.128495887 | 3.97341E-31 | 54437 | SEMA5B |
| 0.128463015 | 4.1148E-31 | 55111 | PLEKHJ1 |
| 0.128462359 | 4.11765E-31 | 6567 | SLC16A2 |
| 0.128449544 | 4.17419E-31 | 57701 | KIAA1602 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.120978124 | 0.480691612 | 0.535 | 1 | 55784 | MCTP2 |
| 0.120978124 | 0.480691612 | 0.509 | 1 | 84552 | PARD6G |
| 0.120720722 | 0.481631666 | 0.503 | 1 | 4137 | MAPT |
| 0.120720722 | 0.481631666 | 0.511 | 1 | 4831 | NME2 |
| 0.120463312 | 0.482572794 | 0.527 | 1 | 4802 | NFYC |
| 0.120463312 | 0.482572794 | 0.533 | 1 | 7372 | UMPS |
| 0.120463312 | 0.482572794 | 0.516 | 1 | 11026 | LILRA3 |
| 0.120463312 | 0.482572794 | 0.488 | 1 | 64089 | SNX16 |
| 0.120463312 | 0.482572794 | 0.555 | 1 | 142679 | DUSP19 |
| 0.120463312 | 0.482572794 | 0.532 | 1 | 284323 | ZNF780A |
| 0.120463312 | 0.482572794 | 0.522 | 1 | 541565 | C8orf58 |
| 0.120205916 | 0.483514786 | 0.479 | 1 | 3005 | H1F0 |
| 0.120205916 | 0.483514786 | 0.534 | 1 | 6124 | RPL4 |
| 0.120205916 | 0.483514786 | 0.547 | 1 | 7044 | LEFTY2 |
| 0.120205916 | 0.483514786 | 0.505 | 1 | 80975 | TMPRSS5 |
| 0.120205916 | 0.483514786 | 0.506 | 1 | 200634 | KRTCAP3 |
| 0.120205916 | 0.483514786 | 0.501 | 1 | 414328 | IDNK |
| 0.119948514 | 0.484458208 | 0.515 | 1 | 1130 | LYST |
| 0.119948514 | 0.484458208 | 0.533 | 1 | 6902 | TBCA |
| 0.119948514 | 0.484458208 | 0.547 | 1 | 23549 | DNPEP |
| 0.119948514 | 0.484458208 | 0.543 | 1 | 23770 | FKBP8 |
| 0.119948514 | 0.484458208 | 0.505 | 1 | 79954 | NOL10 |
| 0.119691119 | 0.485402197 | 0.522 | 1 | 5146 | PDE6C |
| 0.119691119 | 0.485402197 | 0.533 | 1 | 25979 | DHRS7B |
| 0.119691119 | 0.485402197 | 0.512 | 1 | 80179 | MYO19 |
| 0.119691119 | 0.485402197 | 0.522 | 1 | 644246 | AC217773.2 |
| 0.119433716 | 0.486347079 | 0.535 | 1 | 394 | ARHGAP5 |
| 0.119433716 | 0.486347079 | 0.517 | 1 | 23558 | WBP2 |
| 0.119433716 | 0.486347079 | 0.514 | 1 | 29965 | C16orf5 |
| 0.119433716 | 0.486347079 | 0.541 | 1 | 80333 | KCNIP4 |
| 0.119433716 | 0.486347079 | 0.513 | 1 | 84749 | USP30 |
| 0.119433716 | 0.486347079 | 0.521 | 1 | 150568 | AC013402.2 |
| 0.119176313 | 0.487293005 | 0.537 | 1 | 9521 | EEF1E1 |
| 0.119176313 | 0.487293005 | 0.52 | 1 | 10840 | ALDH1L1 |
| 0.119176313 | 0.487293005 | 0.538 | 1 | 23597 | ACOT9 |
| 0.119176313 | 0.487293005 | 0.545 | 1 | 27247 | NFU1 |
| 0.119176313 | 0.487293005 | 0.509 | 1 | 55554 | KLK15 |
| 0.118918918 | 0.488239825 | 0.517 | 1 | 1622 | DBI |
| 0.118918918 | 0.488239825 | 0.549 | 1 | 7561 | ZNF14 |
| 0.118918918 | 0.488239825 | 0.523 | 1 | 10384 | BTN3A3 |
| 0.118918918 | 0.488239825 | 0.524 | 1 | 80727 | TTYH3 |
| 0.118918918 | 0.488239825 | 0.481 | 1 | 90120 | C9ORF69 |
| 0.118918918 | 0.488239825 | 0.517 | 1 | 90987 | ZNF251 |
| 0.118918918 | 0.488239825 | 0.53 | 1 | 389332 | LOC389332 |
| 0.118918918 | 0.488239825 | 0.533 | 1 | 692312 | PPAN-P2RY11 |
| 0.118661515 | 0.489188045 | 0.52 | 1 | 495 | ATP4A |
| 0.118661515 | 0.489188045 | 0.541 | 1 | 6208 | RPS14 |
| 0.118661515 | 0.489188045 | 0.507 | 1 | 9555 | H2AFY |
| 0.118661515 | 0.489188045 | 0.51 | 1 | 51527 | C14orf129 |
| 0.118661515 | 0.489188045 | 0.511 | 1 | 57654 | KIAA1530 |
| 0.118661515 | 0.489188045 | 0.528 | 1 | 89872 | AQP10 |
| 0.118661515 | 0.489188045 | 0.516 | 1 | 282973 | JAKMIP3 |
| 0.118661515 | 0.489188045 | 0.525 | 1 | 342667 | STAC2 |
| 0.11840412 | 0.490136832 | 0.546 | 1 | 1069 | CETN2 |
| 0.11840412 | 0.490136832 | 0.549 | 1 | 2091 | AC005393.1 |
| 0.11840412 | 0.490136832 | 0.51 | 1 | 60496 | AASDHPPT |
| 0.118146718 | 0.491086543 | 0.513 | 1 | 26769 | SNORD81 |
| 0.118146718 | 0.491086543 | 0.508 | 1 | 128864 | C20orf144 |
| 0.118146718 | 0.491086543 | 0.506 | 1 | 130535 | KCTD18 |
| 0.118146718 | 0.491086543 | 0.525 | 1 | 140823 | ROMO1 |
| 0.117889315 | 0.492037207 | 0.544 | 1 | 688 | KLF5 |
| 0.117889315 | 0.492037207 | 0.514 | 1 | 1329 | COX5B |
| 0.117889315 | 0.492037207 | 0.532 | 1 | 374887 | YJEFN3 |
| 0.11763192 | 0.492989242 | 0.517 | 1 | 5192 | PEX10 |
| 0.11763192 | 0.492989242 | 0.519 | 1 | 26166 | RGS22 |
| 0.11763192 | 0.492989242 | 0.521 | 1 | 64837 | KLC2 |
| 0.11763192 | 0.492989242 | 0.523 | 1 | 94233 | OPN4 |
| 0.11763192 | 0.492989242 | 0.528 | 1 | 219873 | OR10S1 |
| 0.11763192 | 0.492989242 | 0.536 | 1 | 401533 | LOC401533 |
| 0.117374517 | 0.493941814 | 0.505 | 1 | 6827 | SUPT4H1 |
| 0.117374517 | 0.493941814 | 0.52 | 1 | 8794 | TNFRSF10C |
| 0.117374517 | 0.493941814 | 0.54 | 1 | 440387 | CTRB2 |
| 0.117117114 | 0.494895399 | 0.522 | 1 | 818 | CAMK2G |
| 0.117117114 | 0.494895399 | 0.563 | 1 | 6641 | SNTB1 |
| 0.117117114 | 0.494895399 | 0.533 | 1 | 8366 | HIST1H4B |
| 0.117117114 | 0.494895399 | 0.522 | 1 | 10492 | SYNCRIP |
| 0.117117114 | 0.494895399 | 0.518 | 1 | 10982 | MAPRE2 |
| 0.117117114 | 0.494895399 | 0.55 | 1 | 54884 | RETSAT |
| 0.117117114 | 0.494895399 | 0.523 | 1 | 55454 | CSGALNACT2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.128439233 | 4.22026E-31 | 139604 | MAGEB16 |
| 0.128383145 | 4.47969E-31 | 345456 | PFN3 |
| 0.128372461 | 4.53085E-31 | 84063 | KIRREL2 |
| 0.128342092 | 4.67953E-31 | 25854 | FAM149A |
| 0.128317863 | 4.80165E-31 | 10844 | TUBGCP2 |
| 0.128247738 | 5.17298E-31 | 79758 | DHRS12 |
| 0.128237709 | 5.22838E-31 | 80835 | TAS1R1 |
| 0.128127292 | 5.8786E-31 | 54664 | TMEM106B |
| 0.128055796 | 6.34175E-31 | 9415 | FADS2 |
| 0.128042415 | 6.4325E-31 | 6356 | CCL11 |
| 0.128038049 | 6.46234E-31 | 348932 | SLC6A18 |
| 0.127949268 | 7.10008E-31 | 644353 | ZCCHC18 |
| 0.127907574 | 7.42068E-31 | 162655 | ZNF519 |
| 0.127895415 | 7.51694E-31 | 2940 | GSTA3 |
| 0.127845451 | 7.92531E-31 | 10778 | ZNF271 |
| 0.127787039 | 8.43077E-31 | 83637 | ZMIZ2 |
| 0.127749518 | 8.77218E-31 | 80021 | TMEM62 |
| 0.127735585 | 8.90264E-31 | 4593 | MUSK |
| 0.127690077 | 9.34158E-31 | 4250 | SCGB2A2 |
| 0.127673745 | 9.50415E-31 | 84572 | GNPTG |
| 0.127588853 | 1.03965E-30 | 79007 | DBNDD1 |
| 0.127495438 | 1.14746E-30 | 50805 | IRX4 |
| 0.127458662 | 1.19286E-30 | 94134 | ARHGAP12 |
| 0.127309054 | 1.3968E-30 | 353134 | LCE1D |
| 0.127289653 | 1.42567E-30 | 92104 | TTC30A |
| 0.127280354 | 1.43971E-30 | 656 | BMP8B |
| 0.127268851 | 1.45727E-30 | 136541 | PRSS58 |
| 0.127252132 | 1.48317E-30 | 4025 | LPO |
| 0.127193719 | 1.57732E-30 | 2181 | ACSL3 |
| 0.127163723 | 1.62792E-30 | 51121 | RPL26L1 |
| 0.127139941 | 1.66924E-30 | 57544 | TXNDC16 |
| 0.127098799 | 1.74309E-30 | 26298 | EHF |
| 0.127089337 | 1.76052E-30 | 100038246 | TLX1NB |
| 0.127087668 | 1.76365E-30 | 54097 | FAM3B |
| 0.126999632 | 1.93477E-30 | 51754 | TMEM8B |
| 0.12695004 | 2.03834E-30 | 6369 | CCL24 |
| 0.126945108 | 2.04892E-30 | 645752 | LOC645752 |
| 0.126783147 | 2.42895E-30 | 2562 | GABRB3 |
| 0.126746386 | 2.52453E-30 | 5291 | PIK3CB |
| 0.126687601 | 2.68512E-30 | 64778 | FNDC3B |
| 0.126641065 | 2.81942E-30 | 84068 | SLC10A7 |
| 0.126532599 | 3.15892E-30 | 283576 | ZDHHC22 |
| 0.126521274 | 3.19661E-30 | 57037 | ANKMY2 |
| 0.12649481 | 3.28644E-30 | 10477 | UBE2E3 |
| 0.12647289 | 3.36276E-30 | 11346 | SYNPO |
| 0.126458496 | 3.41384E-30 | 8634 | RTCD1 |
| 0.126432955 | 3.50637E-30 | 80207 | OPA3 |
| 0.126365259 | 3.76379E-30 | 117 | ADCYAP1R1 |
| 0.126362473 | 3.77477E-30 | 23019 | CNOT1 |
| 0.126360714 | 3.78174E-30 | 8816 | DCAF5 |
| 0.126333311 | 3.89176E-30 | 8821 | INPP4B |
| 0.126293287 | 4.05808E-30 | 57862 | ZNF410 |
| 0.126291335 | 4.06638E-30 | 55008 | HERC6 |
| 0.126258925 | 4.20652E-30 | 646627 | LOC646627 |
| 0.126209795 | 4.42813E-30 | 10369 | CACNG2 |
| 0.126209423 | 4.42991E-30 | 9340 | GLP2R |
| 0.126175433 | 4.59007E-30 | 741 | ZNHIT2 |
| 0.126174599 | 4.59407E-30 | 54954 | FAM120C |
| 0.12616235 | 4.65318E-30 | 64951 | MRPS24 |
| 0.125964075 | 5.72307E-30 | 128954 | GAB4 |
| 0.125931948 | 5.91807E-30 | 9450 | LY86 |
| 0.125885785 | 6.20978E-30 | 51257 | MARCHF2 |
| 0.125822544 | 6.63281E-30 | 56659 | KCNK13 |
| 0.125816137 | 6.67725E-30 | 26999 | CYFIP2 |
| 0.125747696 | 7.17045E-30 | 1652 | DDT |
| 0.125744268 | 7.19609E-30 | 5885 | RAD21 |
| 0.125681862 | 7.67902E-30 | 54805 | CNNM2 |
| 0.125574321 | 8.58785E-30 | 10492 | SYNCRIP |
| 0.125567168 | 8.65205E-30 | 64130 | LIN7B |
| 0.125510246 | 9.1793E-30 | 2213 | FCGR2B |
| 0.125505418 | 9.22542E-30 | 5030 | P2RY4 |
| 0.12549223 | 9.35269E-30 | 6341 | SCO1 |
| 0.125436038 | 9.91482E-30 | 2039 | EPB49 |
| 0.12538524 | 1.04517E-29 | 7743 | ZNF189 |
| 0.125382736 | 1.04789E-29 | 1534 | CYB561 |
| 0.125231639 | 1.22572E-29 | 23460 | ABCA6 |
| 0.12506941 | 1.45006E-29 | 492307 | C8orf22 |
| 0.125030592 | 1.50952E-29 | 8831 | SYNGAP1 |
| 0.124982484 | 1.58658E-29 | 246181 | AKR7L |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.117117114 | 0.494895399 | 0.534 | 1 | 375298 | CERKL |
| 0.116859712 | 0.495849818 | 0.521 | 1 | 5884 | RAD17 |
| 0.116859712 | 0.495849818 | 0.495 | 1 | 23408 | SIRT5 |
| 0.116602309 | 0.49680528 | 0.558 | 1 | 5652 | PRSS8 |
| 0.116602309 | 0.49680528 | 0.517 | 1 | 23352 | UBR4 |
| 0.116602309 | 0.49680528 | 0.535 | 1 | 55249 | YY1AP1 |
| 0.116602309 | 0.49680528 | 0.529 | 1 | 58528 | RRAGD |
| 0.116602309 | 0.49680528 | 0.571 | 1 | 79575 | ABHD8 |
| 0.116344914 | 0.497762054 | 0.521 | 1 | 1857 | DVL3 |
| 0.116344914 | 0.497762054 | 0.537 | 1 | 2553 | GABPB1 |
| 0.116344914 | 0.497762054 | 0.518 | 1 | 10084 | PQBP1 |
| 0.116344914 | 0.497762054 | 0.557 | 1 | 10280 | SIGMAR1 |
| 0.116344914 | 0.497762054 | 0.518 | 1 | 51422 | PRKAG2 |
| 0.116344914 | 0.497762054 | 0.542 | 1 | 440132 | LINC00545 |
| 0.116087511 | 0.498719394 | 0.543 | 1 | 6949 | TCOF1 |
| 0.116087511 | 0.498719394 | 0.518 | 1 | 57062 | DDX24 |
| 0.116087511 | 0.498719394 | 0.524 | 1 | 440498 | AC090360.1 |
| 0.115830116 | 0.499677658 | 0.525 | 1 | 55009 | C19orf24 |
| 0.115830116 | 0.499677658 | 0.517 | 1 | 79744 | ZNF419 |
| 0.115830116 | 0.499677658 | 0.548 | 1 | 91687 | CENPL |
| 0.115830116 | 0.499677658 | 0.538 | 1 | 643446 | RNPS1P1 |
| 0.115830116 | 0.499677658 | 0.534 | 1 | 653073 | AC120045.5 |
| 0.115830116 | 0.499677658 | 0.543 | 1 | 732253 | RP11-535K1.1 |
| 0.115572713 | 0.500636876 | 0.536 | 1 | 8347 | HIST1H2BC |
| 0.115572713 | 0.500636876 | 0.53 | 1 | 100287016 | DSTNP3 |
| 0.115315311 | 0.501597464 | 0.512 | 1 | 2917 | GRM7 |
| 0.115315311 | 0.501597464 | 0.538 | 1 | 55090 | MED9 |
| 0.115315311 | 0.501597464 | 0.562 | 1 | 283143 | LOC283143 |
| 0.115057915 | 0.502558589 | 0.551 | 1 | 1725 | DHPS |
| 0.115057915 | 0.502558589 | 0.548 | 1 | 4952 | OCRL |
| 0.115057915 | 0.502558589 | 0.546 | 1 | 5728 | PTEN |
| 0.115057915 | 0.502558589 | 0.576 | 1 | 10980 | COPS6 |
| 0.115057915 | 0.502558589 | 0.54 | 1 | 26033 | ATRNL1 |
| 0.115057915 | 0.502558589 | 0.561 | 1 | 165082 | GPR113 |
| 0.115057915 | 0.502558589 | 0.538 | 1 | 284904 | SEC14L4 |
| 0.114800513 | 0.503520608 | 0.535 | 1 | 1230 | CCR1 |
| 0.114800513 | 0.503520608 | 0.522 | 1 | 2116 | ETV2 |
| 0.114800513 | 0.503520608 | 0.536 | 1 | 4359 | MPZ |
| 0.114800513 | 0.503520608 | 0.533 | 1 | 7743 | ZNF189 |
| 0.114800513 | 0.503520608 | 0.55 | 1 | 145567 | TTC7B |
| 0.114543118 | 0.504483581 | 0.54 | 1 | 1870 | E2F2 |
| 0.114543118 | 0.504483581 | 0.555 | 1 | 2997 | GYS1 |
| 0.114543118 | 0.504483581 | 0.524 | 1 | 5452 | POU2F2 |
| 0.114543118 | 0.504483581 | 0.524 | 1 | 23612 | PHLDA3 |
| 0.114543118 | 0.504483581 | 0.519 | 1 | 57523 | KIAA1305 |
| 0.114543118 | 0.504483581 | 0.551 | 1 | 125170 | SMCR7 |
| 0.114543118 | 0.504483581 | 0.545 | 1 | 253152 | EPHX4 |
| 0.114543118 | 0.504483581 | 0.542 | 1 | 360132 | FKBP9L |
| 0.114543118 | 0.504483581 | 0.561 | 1 | 645811 | CCDC154 |
| 0.114285715 | 0.505447924 | 0.543 | 1 | 2584 | GALK1 |
| 0.114285715 | 0.505447924 | 0.527 | 1 | 64600 | PLA2G2F |
| 0.114285715 | 0.505447924 | 0.549 | 1 | 65266 | WNK4 |
| 0.114285715 | 0.505447924 | 0.569 | 1 | 152217 | LOC152217 |
| 0.114028312 | 0.506412804 | 0.524 | 1 | 2673 | GFPT1 |
| 0.114028312 | 0.506412804 | 0.536 | 1 | 6262 | RYR2 |
| 0.114028312 | 0.506412804 | 0.527 | 1 | 8664 | EIF3D |
| 0.114028312 | 0.506412804 | 0.553 | 1 | 9194 | SLC16A7 |
| 0.114028312 | 0.506412804 | 0.533 | 1 | 134266 | GRPEL2 |
| 0.114028312 | 0.506412804 | 0.556 | 1 | 163589 | TDRD5 |
| 0.113770917 | 0.507378578 | 0.53 | 1 | 6632 | AC106037.2 |
| 0.113770917 | 0.507378578 | 0.542 | 1 | 7371 | UCK2 |
| 0.113770917 | 0.507378578 | 0.556 | 1 | 22871 | NLGN1 |
| 0.113770917 | 0.507378578 | 0.567 | 1 | 23344 | ESYT1 |
| 0.113770917 | 0.507378578 | 0.544 | 1 | 56983 | KTELC1 |
| 0.113770917 | 0.507378578 | 0.559 | 1 | 131377 | KBTBD5 |
| 0.113513507 | 0.508345306 | 0.54 | 1 | 1384 | CRAT |
| 0.113513507 | 0.508345306 | 0.556 | 1 | 57097 | PARP11 |
| 0.113513507 | 0.508345306 | 0.561 | 1 | 65055 | REEP1 |
| 0.113256112 | 0.509312928 | 0.537 | 1 | 25775 | C22orf24 |
| 0.113256112 | 0.509312928 | 0.544 | 1 | 56181 | FAM54B |
| 0.112998709 | 0.51028198 | 0.559 | 1 | 3641 | INSL4 |
| 0.112998709 | 0.51028198 | 0.526 | 1 | 9472 | AKAP6 |
| 0.112998709 | 0.51028198 | 0.546 | 1 | 84885 | ZDHHC12 |
| 0.112998709 | 0.51028198 | 0.531 | 1 | 388695 | LYSMD1 |
| 0.112741306 | 0.511251509 | 0.515 | 1 | 2043 | EPHA4 |
| 0.112741306 | 0.511251509 | 0.534 | 1 | 2819 | GPD1 |
| 0.112741306 | 0.511251509 | 0.542 | 1 | 5216 | PFN1 |
| 0.112741306 | 0.511251509 | 0.567 | 1 | 6165 | RPL35A |
| 0.112741306 | 0.511251509 | 0.553 | 1 | 10742 | RAI2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.124956667 | 1.62952E-29 | 2249 | FGF4 |
| 0.124947563 | 1.64495E-29 | 56894 | AGPAT3 |
| 0.124737598 | 2.04357E-29 | 1366 | CLDN7 |
| 0.124613807 | 2.32208E-29 | 10497 | UNC13B |
| 0.12448974 | 2.63896E-29 | 284459 | AC008806.1 |
| 0.124371983 | 2.97922E-29 | 6632 | AC106037.2 |
| 0.124359168 | 3.01882E-29 | 3091 | HIF1A |
| 0.124342263 | 3.07179E-29 | 790955 | C11orf83 |
| 0.124241784 | 3.40633E-29 | 134147 | CMBL |
| 0.124207236 | 3.52955E-29 | 388610 | TRNP1 |
| 0.124145202 | 3.76189E-29 | 54718 | BTN2A3 |
| 0.124105364 | 3.91909E-29 | 961 | CD47 |
| 0.124024667 | 4.25772E-29 | 55616 | ASAP3 |
| 0.123991415 | 4.40552E-29 | 64925 | CCDC71 |
| 0.123979434 | 4.46005E-29 | 25782 | RAB3GAP2 |
| 0.123979345 | 4.46045E-29 | 100130958 | AC009139.1 |
| 0.123953432 | 4.5806E-29 | 3313 | HSPA9 |
| 0.123933837 | 4.67364E-29 | 55425 | KIAA1704 |
| 0.123923257 | 4.72464E-29 | 89886 | SLAMF9 |
| 0.123911649 | 4.78121E-29 | 51806 | CALML5 |
| 0.123887777 | 4.89972E-29 | 7054 | TH |
| 0.123883411 | 4.92169E-29 | 3664 | IRF6 |
| 0.12382862 | 5.20607E-29 | 283460 | HNF1A-AS1 |
| 0.123814598 | 5.28146E-29 | 22845 | DOLK |
| 0.123814046 | 5.28445E-29 | 113179 | ADAT3 |
| 0.123767242 | 5.54405E-29 | 255743 | NPNT |
| 0.123757951 | 5.59708E-29 | 92737 | DNER |
| 0.123717554 | 5.83347E-29 | 26056 | RAB11FIP5 |
| 0.123661555 | 6.17767E-29 | 3428 | IFI16 |
| 0.123595811 | 6.60765E-29 | 8559 | PRPF18 |
| 0.123594135 | 6.61889E-29 | 91978 | C19orf20 |
| 0.123524114 | 7.11027E-29 | 27136 | MORC1 |
| 0.123453908 | 7.6392E-29 | 5023 | P2RX1 |
| 0.12331944 | 8.76368E-29 | 151300 | LINC00608 |
| 0.123313121 | 8.82043E-29 | 221823 | PRPS1L1 |
| 0.12321803 | 9.71895E-29 | 150737 | TTC30B |
| 0.123208374 | 9.81509E-29 | 50674 | NEUROG3 |
| 0.123199828 | 9.90103E-29 | 257101 | ZNF683 |
| 0.123135097 | 1.05765E-28 | 63951 | DMRTA1 |
| 0.123121448 | 1.07246E-28 | 441452 | FAM75C1 |
| 0.123091549 | 1.10562E-28 | 645181 | LOC645181 |
| 0.123076871 | 1.12229E-28 | 55972 | SLC25A40 |
| 0.123062015 | 1.13939E-28 | 112479 | ERI2 |
| 0.123038799 | 1.16667E-28 | 2258 | FGF13 |
| 0.123024128 | 1.18422E-28 | 90850 | ZNF598 |
| 0.122994684 | 1.22026E-28 | 251 | ALPPL2 |
| 0.122921228 | 1.31497E-28 | 6923 | TCEB2 |
| 0.122894481 | 1.35124E-28 | 347475 | AC004409.1 |
| 0.122743301 | 1.57568E-28 | 83737 | ITCH |
| 0.122685075 | 1.67169E-28 | 4741 | NEFM |
| 0.122669376 | 1.69851E-28 | 284129 | SLC26A11 |
| 0.122595176 | 1.83136E-28 | 79657 | RPAP3 |
| 0.122587748 | 1.84523E-28 | 83897 | KRTAP3-2 |
| 0.122558124 | 1.90151E-28 | 22824 | HSPA4L |
| 0.122514293 | 1.98796E-28 | 6320 | CLEC11A |
| 0.122507699 | 2.00127E-28 | 259266 | ASPM |
| 0.122505933 | 2.00488E-28 | 220 | ALDH1A3 |
| 0.122491628 | 2.03414E-28 | 54497 | HEATR5B |
| 0.122444458 | 2.13378E-28 | 283106 | CSNK2A1P |
| 0.122430339 | 2.1645E-28 | 283518 | KCNRG |
| 0.122407399 | 2.21537E-28 | 8740 | TNFSF14 |
| 0.122389108 | 2.25684E-28 | 285362 | SUMF1 |
| 0.122337192 | 2.37865E-28 | 8517 | IKBKG |
| 0.122276552 | 2.52922E-28 | 613209 | DEFB136 |
| 0.122238755 | 2.62784E-28 | 23516 | SLC39A14 |
| 0.122194737 | 2.74746E-28 | 161753 | ODF3L1 |
| 0.122125 | 2.94813E-28 | 643637 | GLYATL1P4 |
| 0.122079305 | 3.08744E-28 | 245934 | DEFB121 |
| 0.12203566 | 3.22659E-28 | 10296 | MAEA |
| 0.122008726 | 3.31557E-28 | 8505 | PARG |
| 0.121953934 | 3.50407E-28 | 5929 | RBBP5 |
| 0.121899985 | 3.70014E-28 | 51122 | COMMD2 |
| 0.121815473 | 4.02929E-28 | 84109 | QRFPR |
| 0.121809065 | 4.05538E-28 | 7423 | VEGFB |
| 0.121700041 | 4.52618E-28 | 57496 | MKL2 |
| 0.1215197 | 5.42692E-28 | 11277 | TREX1 |
| 0.121515609 | 5.4493E-28 | 32 | ACACB |
| 0.121454135 | 5.79666E-28 | 641384 | TMEM75 |
| 0.121442616 | 5.86417E-28 | 10473 | HMGN4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.112741306 | 0.511251509 | 0.531 | 1 | 28991 | COMMD5 |
| 0.112741306 | 0.511251509 | 0.539 | 1 | 79937 | CNTNAP3 |
| 0.112741306 | 0.511251509 | 0.566 | 1 | 143888 | KDELC2 |
| 0.112741306 | 0.511251509 | 0.565 | 1 | 282679 | AQP11 |
| 0.112483911 | 0.512221932 | 0.516 | 1 | 11108 | PRDM4 |
| 0.112483911 | 0.512221932 | 0.542 | 1 | 64746 | ACBD3 |
| 0.112226509 | 0.513193309 | 0.56 | 1 | 669 | BPGM |
| 0.112226509 | 0.513193309 | 0.575 | 1 | 51225 | ABI3 |
| 0.112226509 | 0.513193309 | 0.55 | 1 | 112840 | WDR89 |
| 0.112226509 | 0.513193309 | 0.552 | 1 | 283298 | OLFML1 |
| 0.112226509 | 0.513193309 | 0.512 | 1 | 440515 | ZNF506 |
| 0.111969113 | 0.514166057 | 0.533 | 1 | 572 | BAD |
| 0.111969113 | 0.514166057 | 0.576 | 1 | 7225 | TRPC6 |
| 0.111969113 | 0.514166057 | 0.557 | 1 | 10206 | TRIM13 |
| 0.111969113 | 0.514166057 | 0.546 | 1 | 56262 | LRRC8A |
| 0.111969113 | 0.514166057 | 0.593 | 1 | 284441 | LOC284441 |
| 0.111711711 | 0.515139282 | 0.578 | 1 | 4320 | MMP11 |
| 0.111711711 | 0.515139282 | 0.559 | 1 | 9622 | KLK4 |
| 0.111711711 | 0.515139282 | 0.563 | 1 | 51449 | PCYOX1 |
| 0.111711711 | 0.515139282 | 0.584 | 1 | 57718 | PPP4R4 |
| 0.111711711 | 0.515139282 | 0.543 | 1 | 89978 | ATPBD4 |
| 0.111711711 | 0.515139282 | 0.556 | 1 | 153527 | ZMAT2 |
| 0.111454308 | 0.51611346 | 0.548 | 1 | 22836 | RHOBTB3 |
| 0.111196913 | 0.517088532 | 0.571 | 1 | 9736 | USP34 |
| 0.111196913 | 0.517088532 | 0.538 | 1 | 57180 | ACTR3B |
| 0.111196913 | 0.517088532 | 0.532 | 1 | 124936 | CYB5D2 |
| 0.11093951 | 0.518064916 | 0.573 | 1 | 6649 | SOD3 |
| 0.11093951 | 0.518064916 | 0.554 | 1 | 6814 | STXBP3 |
| 0.11093951 | 0.518064916 | 0.535 | 1 | 9839 | ZEB2 |
| 0.11093951 | 0.518064916 | 0.548 | 1 | 11056 | DDX52 |
| 0.11093951 | 0.518064916 | 0.53 | 1 | 23161 | SNX13 |
| 0.11093951 | 0.518064916 | 0.551 | 1 | 84233 | TMEM126A |
| 0.110682115 | 0.519041836 | 0.562 | 1 | 29124 | LGALS13 |
| 0.110682115 | 0.519041836 | 0.557 | 1 | 81553 | FAM49A |
| 0.110682115 | 0.519041836 | 0.564 | 1 | 146456 | TMED6 |
| 0.110682115 | 0.519041836 | 0.538 | 1 | 641384 | TMEM75 |
| 0.110424712 | 0.52001977 | 0.545 | 1 | 5610 | EIF2AK2 |
| 0.110424712 | 0.52001977 | 0.548 | 1 | 8492 | PRSS12 |
| 0.110424712 | 0.52001977 | 0.573 | 1 | 10890 | RAB10 |
| 0.110424712 | 0.52001977 | 0.521 | 1 | 26160 | IFT172 |
| 0.110424712 | 0.52001977 | 0.575 | 1 | 170961 | ANKRD24 |
| 0.110424712 | 0.52001977 | 0.553 | 1 | 219482 | OR5M3 |
| 0.11016731 | 0.520998478 | 0.564 | 1 | 9951 | HS3ST4 |
| 0.11016731 | 0.520998478 | 0.55 | 1 | 131405 | TRIM71 |
| 0.11016731 | 0.520998478 | 0.582 | 1 | 162655 | ZNF519 |
| 0.11016731 | 0.520998478 | 0.553 | 1 | 374973 | ATPAF1-AS1 |
| 0.109909907 | 0.52197814 | 0.551 | 1 | 2395 | FXN |
| 0.109909907 | 0.52197814 | 0.559 | 1 | 6744 | SSFA2 |
| 0.109909907 | 0.52197814 | 0.554 | 1 | 7442 | TRPV1 |
| 0.109909907 | 0.52197814 | 0.56 | 1 | 9348 | NDST3 |
| 0.109652504 | 0.522959173 | 0.543 | 1 | 9852 | EPM2AIP1 |
| 0.109652504 | 0.522959173 | 0.543 | 1 | 94121 | SYTL4 |
| 0.109395109 | 0.523940682 | 0.571 | 1 | 3430 | IFI35 |
| 0.109395109 | 0.523940682 | 0.557 | 1 | 5832 | ALDH18A1 |
| 0.109395109 | 0.523940682 | 0.561 | 1 | 6838 | SURF6 |
| 0.109395109 | 0.523940682 | 0.561 | 1 | 28982 | FLVCR1 |
| 0.109395109 | 0.523940682 | 0.571 | 1 | 79924 | ADM2 |
| 0.109395109 | 0.523940682 | 0.551 | 1 | 127391 | TMCO2 |
| 0.109395109 | 0.523940682 | 0.573 | 1 | 403239 | OR2T27 |
| 0.109137706 | 0.524923146 | 0.565 | 1 | 1124 | CHN2 |
| 0.109137706 | 0.524923146 | 0.562 | 1 | 1995 | ELAVL3 |
| 0.109137706 | 0.524923146 | 0.543 | 1 | 51203 | NUSAP1 |
| 0.109137706 | 0.524923146 | 0.59 | 1 | 55170 | PRMT6 |
| 0.108880304 | 0.525906384 | 0.566 | 1 | 27154 | BRPF3 |
| 0.108880304 | 0.525906384 | 0.574 | 1 | 56120 | PCDHGB8P |
| 0.108880304 | 0.525906384 | 0.559 | 1 | 84125 | LRRIQ1 |
| 0.108880304 | 0.525906384 | 0.554 | 1 | 127002 | ATXN7L2 |
| 0.108880304 | 0.525906384 | 0.556 | 1 | 644890 | MEIG1 |
| 0.108622909 | 0.526891112 | 0.534 | 1 | 7919 | BAT1 |
| 0.108622909 | 0.526891112 | 0.557 | 1 | 84874 | ZNF514 |
| 0.108622909 | 0.526891112 | 0.563 | 1 | 116115 | ZNF526 |
| 0.108622909 | 0.526891112 | 0.572 | 1 | 118460 | EXOSC6 |
| 0.108622909 | 0.526891112 | 0.567 | 1 | 124446 | TMEM219 |
| 0.108365506 | 0.527876258 | 0.556 | 1 | 5566 | PRKACA |
| 0.108365506 | 0.527876258 | 0.576 | 1 | 9495 | AKAP5 |
| 0.108365506 | 0.527876258 | 0.575 | 1 | 51601 | LIPT1 |
| 0.108365506 | 0.527876258 | 0.541 | 1 | 55643 | BTBD2 |
| 0.108365506 | 0.527876258 | 0.534 | 1 | 64240 | ABCG5 |
| 0.108365506 | 0.527876258 | 0.589 | 1 | 93594 | WDR67 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.121437326 | 5.89537E-28 | 23305 | ACSL6 |
| 0.121382251 | 6.23082E-28 | 345645 | PSMC1P4 |
| 0.121103846 | 8.23841E-28 | 353145 | LCE3E |
| 0.121012367 | 9.02896E-28 | 6448 | SGSH |
| 0.120974757 | 9.37547E-28 | 122740 | OR4K14 |
| 0.120973364 | 9.38852E-28 | 51650 | MRPS33 |
| 0.120872788 | 1.03825E-27 | 5994 | RFXAP |
| 0.120867409 | 1.04385E-27 | 6702 | SPRR2C |
| 0.120858863 | 1.05282E-27 | 10178 | ODZ1 |
| 0.12083295 | 1.08045E-27 | 9141 | PDCD5 |
| 0.120817818 | 1.09692E-27 | 339302 | CPLX4 |
| 0.120781042 | 1.13798E-27 | 54832 | VPS13C |
| 0.120749094 | 1.17489E-27 | 9894 | TELO2 |
| 0.120743707 | 1.18124E-27 | 10223 | GPA33 |
| 0.120732561 | 1.19446E-27 | 347404 | LANCL3 |
| 0.120714359 | 1.21638E-27 | 155061 | ZNF746 |
| 0.12069384 | 1.24157E-27 | 64221 | ROBO3 |
| 0.120649636 | 1.29759E-27 | 2741 | GLRA1 |
| 0.120614998 | 1.34322E-27 | 10131 | TRAP1 |
| 0.120596513 | 1.36823E-27 | 10350 | ABCA9 |
| 0.120575339 | 1.39746E-27 | 5789 | PTPRD |
| 0.120560944 | 1.41766E-27 | 138307 | LCN8 |
| 0.120546088 | 1.43884E-27 | 165215 | FAM171B |
| 0.120471239 | 1.55031E-27 | 84437 | KIAA1826 |
| 0.120444588 | 1.59206E-27 | 83858 | ATAD3B |
| 0.120386913 | 1.68622E-27 | 1310 | COL19A1 |
| 0.120358869 | 1.73397E-27 | 150280 | HORMAD2 |
| 0.120348379 | 1.75217E-27 | 26095 | PTPN20B |
| 0.12033473 | 1.77615E-27 | 55331 | ACER3 |
| 0.120238148 | 1.95535E-27 | 137392 | FAM92A1 |
| 0.120226353 | 1.97843E-27 | 80034 | CSRNP3 |
| 0.120161161 | 2.11095E-27 | 23432 | GPR161 |
| 0.120141938 | 2.15166E-27 | 84290 | CAPNS2 |
| 0.120112032 | 2.21656E-27 | 51303 | FKBP11 |
| 0.120069407 | 2.31249E-27 | 158314 | LINC00475 |
| 0.120047957 | 2.36229E-27 | 201725 | C4orf46 |
| 0.120022327 | 2.42316E-27 | 114900 | C1QTNF4 |
| 0.120021679 | 2.42472E-27 | 6991 | TCTE3 |
| 0.119996786 | 2.4854E-27 | 23219 | FBXO28 |
| 0.119967073 | 2.55983E-27 | 400830 | DEFB132 |
| 0.119966887 | 2.56027E-27 | 133418 | EMB |
| 0.119727567 | 3.24593E-27 | 56905 | C15orf39 |
| 0.119725898 | 3.25133E-27 | 112487 | C14orf126 |
| 0.119712152 | 3.29587E-27 | 63940 | GPSM3 |
| 0.119617335 | 3.62025E-27 | 143098 | MPP7 |
| 0.119595513 | 3.6993E-27 | 221357 | GSTA5 |
| 0.119414702 | 4.42337E-27 | 7442 | TRPV1 |
| 0.119392321 | 4.52227E-27 | 89792 | GAL3ST3 |
| 0.119388238 | 4.54053E-27 | 4061 | LY6E |
| 0.119377002 | 4.5912E-27 | 57532 | NUFIP2 |
| 0.11937096 | 4.61865E-27 | 10748 | RP11-904M10.1 |
| 0.119348861 | 4.72059E-27 | 127623 | OR2B11 |
| 0.119319141 | 4.8611E-27 | 51545 | ZNF581 |
| 0.119314872 | 4.88165E-27 | 55666 | NPLOC4 |
| 0.1192794 | 5.0556E-27 | 132200 | C3orf49 |
| 0.119269736 | 5.10406E-27 | 284827 | KRTAP13-4 |
| 0.119229063 | 5.31299E-27 | 163590 | TOR1AIP2 |
| 0.119203158 | 5.45047E-27 | 80851 | SH3BP5L |
| 0.119061716 | 6.26574E-27 | 189 | AGXT |
| 0.119028009 | 6.47722E-27 | 1385 | CREB1 |
| 0.118947588 | 7.01085E-27 | 9535 | GMFG |
| 0.118921585 | 7.19252E-27 | 3196 | TLX2 |
| 0.118912205 | 7.25916E-27 | 23479 | ISCU |
| 0.118823983 | 7.91705E-27 | 79170 | ATAD4 |
| 0.118718207 | 8.78412E-27 | 80045 | GPR157 |
| 0.118656449 | 9.33323E-27 | 1955 | MEGF9 |
| 0.118628591 | 9.59195E-27 | 256148 | OR4S1 |
| 0.118604444 | 9.82193E-27 | 23786 | BCL2L13 |
| 0.118595622 | 9.90728E-27 | 6231 | RPS26P20 |
| 0.11857371 | 1.01225E-26 | 55638 | AC079061.1 |
| 0.118487254 | 1.10181E-26 | 5567 | PRKACB |
| 0.118453167 | 1.13924E-26 | 375057 | C1orf95 |
| 0.118432552 | 1.16248E-26 | 55958 | KLHL9 |
| 0.118332349 | 1.28233E-26 | 405753 | DUOXA2 |
| 0.118328452 | 1.28724E-26 | 6990 | DYNLT3 |
| 0.11831136 | 1.30895E-26 | 3667 | IRS1 |
| 0.118227415 | 1.42099E-26 | 729409 | LOC729409 |
| 0.118216828 | 1.43577E-26 | 8857 | FCGBP |
| 0.118156463 | 1.52305E-26 | 124460 | SNX20 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.108365506 | 0.527876258 | 0.564 | 1 | 134549 | SHROOM1 |
| 0.108108111 | 0.528862298 | 0.554 | 1 | 11340 | EXOSC8 |
| 0.108108111 | 0.528862298 | 0.564 | 1 | 23527 | ACAP2 |
| 0.108108111 | 0.528862298 | 0.535 | 1 | 26229 | B3GAT3 |
| 0.107850708 | 0.529849291 | 0.58 | 1 | 2691 | GHRH |
| 0.107850708 | 0.529849291 | 0.545 | 1 | 55760 | DHX32 |
| 0.107850708 | 0.529849291 | 0.573 | 1 | 57650 | KIAA1524 |
| 0.107593305 | 0.530837536 | 0.572 | 1 | 5204 | PFDN5 |
| 0.107593305 | 0.530837536 | 0.538 | 1 | 10905 | MAN1A2 |
| 0.107593305 | 0.530837536 | 0.537 | 1 | 29882 | ANAPC2 |
| 0.107593305 | 0.530837536 | 0.548 | 1 | 84962 | JUB |
| 0.107593305 | 0.530837536 | 0.537 | 1 | 161742 | SPRED1 |
| 0.107593305 | 0.530837536 | 0.547 | 1 | 339834 | CCDC36 |
| 0.10733591 | 0.531826317 | 0.553 | 1 | 863 | CBFA2T3 |
| 0.10733591 | 0.531826317 | 0.546 | 1 | 130940 | CCDC148 |
| 0.107078508 | 0.532815993 | 0.564 | 1 | 942 | CD86 |
| 0.107078508 | 0.532815993 | 0.589 | 1 | 4485 | MST1 |
| 0.107078508 | 0.532815993 | 0.571 | 1 | 5693 | PSMB5 |
| 0.107078508 | 0.532815993 | 0.559 | 1 | 7189 | TRAF6 |
| 0.107078508 | 0.532815993 | 0.581 | 1 | 26173 | INTS1 |
| 0.107078508 | 0.532815993 | 0.574 | 1 | 30815 | ST6GALNAC6 |
| 0.107078508 | 0.532815993 | 0.589 | 1 | 51168 | MYO15A |
| 0.107078508 | 0.532815993 | 0.553 | 1 | 57455 | REXO1 |
| 0.107078508 | 0.532815993 | 0.58 | 1 | 89765 | RSPH1 |
| 0.106821112 | 0.533806503 | 0.571 | 1 | 6786 | STIM1 |
| 0.106821112 | 0.533806503 | 0.577 | 1 | 6811 | STX5 |
| 0.106821112 | 0.533806503 | 0.561 | 1 | 6929 | TCF3 |
| 0.106821112 | 0.533806503 | 0.588 | 1 | 340591 | CA5BP |
| 0.106563702 | 0.534798026 | 0.546 | 1 | 3600 | IL15 |
| 0.1063063 | 0.535790801 | 0.55 | 1 | 5459 | POU4F3 |
| 0.1063063 | 0.535790801 | 0.564 | 1 | 7049 | TGFBR3 |
| 0.1063063 | 0.535790801 | 0.569 | 1 | 7694 | ZNF135 |
| 0.106048904 | 0.536784053 | 0.566 | 1 | 5689 | PSMB1 |
| 0.106048904 | 0.536784053 | 0.579 | 1 | 11184 | MAP4K1 |
| 0.106048904 | 0.536784053 | 0.549 | 1 | 54497 | HEATR5B |
| 0.106048904 | 0.536784053 | 0.563 | 1 | 56915 | EXOSC5 |
| 0.106048904 | 0.536784053 | 0.551 | 1 | 339541 | C1orf228 |
| 0.106048904 | 0.536784053 | 0.579 | 1 | 375346 | TMEM110 |
| 0.105791502 | 0.537778258 | 0.553 | 1 | 1620 | DBC1 |
| 0.105791502 | 0.537778258 | 0.58 | 1 | 4916 | NTRK3 |
| 0.105791502 | 0.537778258 | 0.578 | 1 | 7520 | XRCC5 |
| 0.105791502 | 0.537778258 | 0.552 | 1 | 10861 | SLC26A1 |
| 0.105791502 | 0.537778258 | 0.571 | 1 | 10972 | TMED10 |
| 0.105791502 | 0.537778258 | 0.568 | 1 | 26502 | NARF |
| 0.105791502 | 0.537778258 | 0.579 | 1 | 27439 | CECR6 |
| 0.105791502 | 0.537778258 | 0.555 | 1 | 55893 | ZNF395 |
| 0.105791502 | 0.537778258 | 0.558 | 1 | 79753 | SNIP1 |
| 0.105791502 | 0.537778258 | 0.563 | 1 | 140460 | ASB7 |
| 0.105791502 | 0.537778258 | 0.57 | 1 | 284297 | AC008735.3 |
| 0.105791502 | 0.537778258 | 0.6 | 1 | 390259 | BSX |
| 0.105534099 | 0.538773239 | 0.564 | 1 | 998 | CDC42 |
| 0.105534099 | 0.538773239 | 0.58 | 1 | 3503 | IGHG4 |
| 0.105534099 | 0.538773239 | 0.563 | 1 | 147138 | TMC8 |
| 0.105534099 | 0.538773239 | 0.554 | 1 | 648987 | AC008875.1 |
| 0.105276704 | 0.53976965 | 0.592 | 1 | 1155 | TBCB |
| 0.105276704 | 0.53976965 | 0.603 | 1 | 3046 | HBE1 |
| 0.105276704 | 0.53976965 | 0.598 | 1 | 79039 | DDX54 |
| 0.105276704 | 0.53976965 | 0.604 | 1 | 129787 | TMEM18 |
| 0.105276704 | 0.53976965 | 0.587 | 1 | 387820 | LOC387820 |
| 0.105019301 | 0.540766478 | 0.597 | 1 | 54596 | L1TD1 |
| 0.105019301 | 0.540766478 | 0.574 | 1 | 155435 | RBM33 |
| 0.104761906 | 0.541764259 | 0.566 | 1 | 4052 | LTBP1 |
| 0.104761906 | 0.541764259 | 0.56 | 1 | 5521 | PPP2R2B |
| 0.104761906 | 0.541764259 | 0.564 | 1 | 57089 | ENTPD7 |
| 0.104761906 | 0.541764259 | 0.556 | 1 | 57402 | S100A14 |
| 0.104761906 | 0.541764259 | 0.579 | 1 | 100240735 | LOC100240735 |
| 0.104761906 | 0.541764259 | 0.567 | 1 | 100288570 | AC108938.1 |
| 0.104504503 | 0.542762816 | 0.582 | 1 | 7286 | TUFT1 |
| 0.104504503 | 0.542762816 | 0.58 | 1 | 84312 | BRMS1L |
| 0.104247101 | 0.543762803 | 0.579 | 1 | 2558 | GABRA5 |
| 0.104247101 | 0.543762803 | 0.576 | 1 | 146330 | FBXL16 |
| 0.104247101 | 0.543762803 | 0.591 | 1 | 440275 | EIF2AK4 |
| 0.104247101 | 0.543762803 | 0.568 | 1 | 730098 | RP11-195F19.5 |
| 0.103989705 | 0.544763148 | 0.583 | 1 | 6430 | SFRS5 |
| 0.103989705 | 0.544763148 | 0.536 | 1 | 10273 | STUB1 |
| 0.103989705 | 0.544763148 | 0.573 | 1 | 55671 | SMEK1 |
| 0.103989705 | 0.544763148 | 0.589 | 1 | 441273 | SPDYE2 |
| 0.103732303 | 0.545764446 | 0.599 | 1 | 3386 | ICAM4 |
| 0.103732303 | 0.545764446 | 0.596 | 1 | 6623 | SNCG |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.118096009 | 1.61574E-26 | 143425 | SYT9 |
| 0.118057281 | 1.67803E-26 | 55296 | TBC1D19 |
| 0.118038893 | 1.70842E-26 | 374986 | FAM73A |
| 0.118028119 | 1.72651E-26 | 55262 | C7orf43 |
| 0.118008524 | 1.75984E-26 | 283685 | AC100756.1 |
| 0.118000261 | 1.77408E-26 | 84752 | B3GNT9 |
| 0.117997937 | 1.77812E-26 | 137797 | LYPD2 |
| 0.117992833 | 1.787E-26 | 284098 | PIGW |
| 0.117932469 | 1.89539E-26 | 79722 | ANKRD55 |
| 0.117918633 | 1.92117E-26 | 4076 | CAPRIN1 |
| 0.117861427 | 2.03137E-26 | 322 | APBB1 |
| 0.117845178 | 2.06382E-26 | 8748 | ADAM20 |
| 0.117736615 | 2.29409E-26 | 284716 | RIMKLA |
| 0.117693707 | 2.39198E-26 | 10257 | ABCC4 |
| 0.117692783 | 2.39411E-26 | 115861 | NXNL1 |
| 0.117613569 | 2.58596E-26 | 140686 | WFDC3 |
| 0.117561378 | 2.72063E-26 | 5165 | PDK3 |
| 0.117498875 | 2.89106E-26 | 57211 | GPR126 |
| 0.117469907 | 2.9736E-26 | 6879 | TAF7 |
| 0.117443249 | 3.05164E-26 | 725 | C4BPB |
| 0.117438607 | 3.06544E-26 | 149986 | LSM14B |
| 0.117433965 | 3.07924E-26 | 165140 | OXER1 |
| 0.117367655 | 3.28405E-26 | 9219 | MTA2 |
| 0.117331252 | 3.40216E-26 | 23066 | CAND2 |
| 0.117328286 | 3.41199E-26 | 344595 | RP11-446H18.3 |
| 0.117320389 | 3.43825E-26 | 84647 | PLA2G12B |
| 0.117275722 | 3.59048E-26 | 1964 | EIF1AX |
| 0.11726848 | 3.61579E-26 | 92105 | INTS4 |
| 0.116995819 | 4.70901E-26 | 28956 | ROBLD3 |
| 0.11695125 | 4.91651E-26 | 51144 | HSD17B12 |
| 0.116928957 | 5.02368E-26 | 145814 | AC069029.1 |
| 0.116886429 | 5.23453E-26 | 150696 | PROM2 |
| 0.116885588 | 5.23877E-26 | 317751 | MESTIT1 |
| 0.116871193 | 5.31222E-26 | 53917 | RAB24 |
| 0.116857454 | 5.38323E-26 | 3552 | IL1A |
| 0.116813064 | 5.6192E-26 | 5999 | RGS4 |
| 0.116812043 | 5.62472E-26 | 375444 | C5orf34 |
| 0.116670795 | 6.44658E-26 | 401021 | LOC401021 |
| 0.116639592 | 6.64359E-26 | 2936 | GSR |
| 0.116639219 | 6.646E-26 | 124783 | C17orf46 |
| 0.11661043 | 6.83318E-26 | 26121 | PRPF31 |
| 0.116557121 | 7.19357E-26 | 55012 | PPP2R3C |
| 0.11655657 | 7.19739E-26 | 375033 | PEAR1 |
| 0.116542079 | 7.29861E-26 | 56124 | PCDHB12 |
| 0.116524808 | 7.42111E-26 | 1052 | CEBPD |
| 0.116522945 | 7.4345E-26 | 70 | ACTC1 |
| 0.116510786 | 7.52211E-26 | 100144596 | LINC00029 |
| 0.116431758 | 8.11707E-26 | 3014 | H2AFX |
| 0.116381511 | 8.51942E-26 | 23564 | DDAH2 |
| 0.116365544 | 8.65135E-26 | 27283 | TINAG |
| 0.116358668 | 8.70888E-26 | 338651 | AP006285.4 |
| 0.116256334 | 9.60963E-26 | 130271 | PLEKHH2 |
| 0.116243333 | 9.73056E-26 | 4942 | OAT |
| 0.116185099 | 1.02907E-25 | 84902 | CCDC123 |
| 0.116178416 | 1.0357E-25 | 57089 | ENTPD7 |
| 0.116169408 | 1.0447E-25 | 401474 | SAMD12 |
| 0.116133466 | 1.0814E-25 | 6820 | SULT2B1 |
| 0.116124742 | 1.09051E-25 | 223075 | CCDC129 |
| 0.11603494 | 1.18869E-25 | 6658 | SOX3 |
| 0.115987301 | 1.24429E-25 | 2043 | EPHA4 |
| 0.115983859 | 1.2484E-25 | 11012 | KLK11 |
| 0.115952939 | 1.28598E-25 | 5279 | PIGC |
| 0.115919136 | 1.32834E-25 | 3857 | KRT9 |
| 0.115913652 | 1.33534E-25 | 26098 | C10orf137 |
| 0.115884028 | 1.3738E-25 | 146880 | AC132812.1 |
| 0.115835555 | 1.43911E-25 | 6499 | SKIV2L |
| 0.115749374 | 1.56293E-25 | 9515 | STXBP5L |
| 0.115737863 | 1.58023E-25 | 51020 | HDDC2 |
| 0.115716875 | 1.6123E-25 | 4221 | MEN1 |
| 0.115638122 | 1.73847E-25 | 386675 | KRTAP10-7 |
| 0.115633197 | 1.74667E-25 | 5228 | PGF |
| 0.115629576 | 1.75273E-25 | 441177 | LINC00602 |
| 0.115556121 | 1.88024E-25 | 84700 | MYO18B |
| 0.115521021 | 1.94435E-25 | 64420 | SUSD1 |
| 0.115482569 | 2.01709E-25 | 3047 | HBG1 |
| 0.115389057 | 2.20547E-25 | 55212 | BBS7 |
| 0.11532145 | 2.35239E-25 | 222008 | VSTM2A |
| 0.115297675 | 2.40633E-25 | 144423 | GLT1D1 |
| 0.115274832 | 2.45932E-25 | 153657 | TTC23L |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.103732303 | 0.545764446 | 0.554 | 1 | 79659 | DYNC2H1 |
| 0.103732303 | 0.545764446 | 0.568 | 1 | 493829 | TRIM72 |
| 0.103474908 | 0.546766579 | 0.605 | 1 | 1585 | CYP11B2 |
| 0.103474908 | 0.546766579 | 0.569 | 1 | 4217 | MAP3K5 |
| 0.103474908 | 0.546766579 | 0.557 | 1 | 5098 | PCDHGC3 |
| 0.103474908 | 0.546766579 | 0.587 | 1 | 6489 | ST8SIA1 |
| 0.103474908 | 0.546766579 | 0.559 | 1 | 8613 | PPAP2B |
| 0.103474908 | 0.546766579 | 0.566 | 1 | 10146 | G3BP1 |
| 0.103474908 | 0.546766579 | 0.559 | 1 | 55086 | CXorf57 |
| 0.103474908 | 0.546766579 | 0.62 | 1 | 58490 | RPRD1B |
| 0.103474908 | 0.546766579 | 0.583 | 1 | 388324 | INCA1 |
| 0.103474908 | 0.546766579 | 0.588 | 1 | 399844 | FLJ45445 |
| 0.103217505 | 0.547769547 | 0.573 | 1 | 8001 | GLRA3 |
| 0.103217505 | 0.547769547 | 0.581 | 1 | 23125 | CAMTA2 |
| 0.102960095 | 0.548773944 | 0.575 | 1 | 6309 | SC5DL |
| 0.102960095 | 0.548773944 | 0.586 | 1 | 10585 | POMT1 |
| 0.102960095 | 0.548773944 | 0.583 | 1 | 10902 | BRD8 |
| 0.102960095 | 0.548773944 | 0.582 | 1 | 140701 | C20orf135 |
| 0.1027027 | 0.549778759 | 0.583 | 1 | 1399 | CRKL |
| 0.1027027 | 0.549778759 | 0.603 | 1 | 1438 | CSF2RA |
| 0.1027027 | 0.549778759 | 0.604 | 1 | 3837 | KPNB1 |
| 0.102445297 | 0.550784349 | 0.634 | 1 | 9332 | CD163 |
| 0.102445297 | 0.550784349 | 0.56 | 1 | 55635 | DEPDC1 |
| 0.102187902 | 0.551790893 | 0.583 | 1 | 1826 | DSCAM |
| 0.102187902 | 0.551790893 | 0.605 | 1 | 10120 | ACTR1B |
| 0.102187902 | 0.551790893 | 0.607 | 1 | 53342 | IL17D |
| 0.102187902 | 0.551790893 | 0.576 | 1 | 84186 | ZCCHC7 |
| 0.102187902 | 0.551790893 | 0.556 | 1 | 100049716 | AC021054.1 |
| 0.101930499 | 0.552798748 | 0.602 | 1 | 4326 | MMP17 |
| 0.101930499 | 0.552798748 | 0.568 | 1 | 6322 | SCML1 |
| 0.101930499 | 0.552798748 | 0.56 | 1 | 10394 | PRG3 |
| 0.101930499 | 0.552798748 | 0.582 | 1 | 11341 | SCRG1 |
| 0.101930499 | 0.552798748 | 0.593 | 1 | 23252 | OTUD3 |
| 0.101930499 | 0.552798748 | 0.578 | 1 | 147081 | AC126544.1 |
| 0.101930499 | 0.552798748 | 0.563 | 1 | 389434 | IYD |
| 0.101673096 | 0.55380702 | 0.602 | 1 | 7580 | ZNF32 |
| 0.101673096 | 0.55380702 | 0.589 | 1 | 8287 | USP9Y |
| 0.101673096 | 0.55380702 | 0.592 | 1 | 57048 | PLSCR3 |
| 0.101673096 | 0.55380702 | 0.595 | 1 | 63893 | UBE2O |
| 0.101673096 | 0.55380702 | 0.582 | 1 | 65983 | GRAMD3 |
| 0.101673096 | 0.55380702 | 0.604 | 1 | 84502 | JPH4 |
| 0.101673096 | 0.55380702 | 0.593 | 1 | 92609 | TIMM50 |
| 0.101673096 | 0.55380702 | 0.609 | 1 | 339105 | AC135050.2 |
| 0.101673096 | 0.55380702 | 0.587 | 1 | 347240 | KIF24 |
| 0.101415701 | 0.554816127 | 0.625 | 1 | 23190 | UBXN4 |
| 0.101415701 | 0.554816127 | 0.597 | 1 | 88745 | C6orf153 |
| 0.101415701 | 0.554816127 | 0.589 | 1 | 91653 | BOC |
| 0.101415701 | 0.554816127 | 0.585 | 1 | 139596 | UPRT |
| 0.101415701 | 0.554816127 | 0.6 | 1 | 196500 | C12orf53 |
| 0.101158299 | 0.555826128 | 0.562 | 1 | 8087 | FXR1 |
| 0.101158299 | 0.555826128 | 0.609 | 1 | 10123 | ARL4C |
| 0.101158299 | 0.555826128 | 0.58 | 1 | 84881 | RPUSD4 |
| 0.101158299 | 0.555826128 | 0.569 | 1 | 89887 | ZNF628 |
| 0.101158299 | 0.555826128 | 0.579 | 1 | 257397 | MAP3K7IP3 |
| 0.100900903 | 0.556837559 | 0.563 | 1 | 2904 | GRIN2B |
| 0.100900903 | 0.556837559 | 0.573 | 1 | 5348 | FXYD1 |
| 0.100900903 | 0.556837559 | 0.613 | 1 | 8843 | HCAR3 |
| 0.100900903 | 0.556837559 | 0.563 | 1 | 60674 | GAS5 |
| 0.100643501 | 0.557849288 | 0.585 | 1 | 801 | CALM1 |
| 0.100643501 | 0.557849288 | 0.588 | 1 | 2745 | GLRX |
| 0.100643501 | 0.557849288 | 0.587 | 1 | 5685 | PSMA4 |
| 0.100643501 | 0.557849288 | 0.603 | 1 | 9205 | ZMYM5 |
| 0.100643501 | 0.557849288 | 0.578 | 1 | 10389 | SCML2 |
| 0.100643501 | 0.557849288 | 0.571 | 1 | 28962 | OSTM1 |
| 0.100643501 | 0.557849288 | 0.603 | 1 | 353149 | TBC1D26 |
| 0.100386098 | 0.558861852 | 0.595 | 1 | 1659 | DHX8 |
| 0.100386098 | 0.558861852 | 0.565 | 1 | 5316 | PKNOX1 |
| 0.100386098 | 0.558861852 | 0.598 | 1 | 50837 | TAS2R7 |
| 0.100386098 | 0.558861852 | 0.591 | 1 | 202559 | KHDRBS2 |
| 0.100386098 | 0.558861852 | 0.583 | 1 | 401546 | C9orf152 |
| 0.100386098 | 0.558861852 | 0.581 | 1 | 728769 | CTD-2037K23.2 |
| 0.100128703 | 0.559875369 | 0.597 | 1 | 2873 | GPS1 |
| 0.100128703 | 0.559875369 | 0.586 | 1 | 27185 | DISC1 |
| 0.100128703 | 0.559875369 | 0.591 | 1 | 51816 | CECR1 |
| 0.100128703 | 0.559875369 | 0.586 | 1 | 55665 | URG4 |
| 0.100128703 | 0.559875369 | 0.599 | 1 | 126006 | PCP2 |
| 0.0998713 | 0.560889661 | 0.622 | 1 | 84947 | SERAC1 |
| 0.0998713 | 0.560889661 | 0.588 | 1 | 286753 | TUSC5 |
| 0.099356495 | 0.562921405 | 0.618 | 1 | 2895 | GRID2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.115244001 | 2.53265E-25 | 26257 | NKX2-8 |
| 0.11518763 | 2.67238E-25 | 81619 | TSPAN14 |
| 0.115180664 | 2.6902E-25 | 100131454 | AC087392.3 |
| 0.115160421 | 2.74255E-25 | 59067 | IL21 |
| 0.115116119 | 2.86071E-25 | 84317 | CCDC115 |
| 0.115110546 | 2.87595E-25 | 54946 | SLC41A3 |
| 0.115107946 | 2.88308E-25 | 83863 | TTTY5 |
| 0.114962429 | 3.31113E-25 | 195814 | SDR16C5 |
| 0.114908755 | 3.48442E-25 | 23207 | PLEKHM2 |
| 0.114905313 | 3.49582E-25 | 4763 | NF1 |
| 0.114900485 | 3.5119E-25 | 51184 | GPN3 |
| 0.114894547 | 3.53178E-25 | 63875 | MRPL17 |
| 0.114891849 | 3.54084E-25 | 65992 | DDRGK1 |
| 0.114834271 | 3.73989E-25 | 79812 | MMRN2 |
| 0.114815883 | 3.80572E-25 | 4201 | MEA1 |
| 0.114789233 | 3.90326E-25 | 57095 | C1orf128 |
| 0.114782639 | 3.92776E-25 | 56956 | LHX9 |
| 0.114763044 | 4.0015E-25 | 5367 | PMCH |
| 0.114702217 | 4.23923E-25 | 23016 | EXOSC7 |
| 0.114688285 | 4.29561E-25 | 219956 | OR9Q1 |
| 0.114659868 | 4.41295E-25 | 113000 | RPUSD1 |
| 0.114609815 | 4.62739E-25 | 56120 | PCDHGB8P |
| 0.114599884 | 4.67114E-25 | 5496 | PPM1G |
| 0.1145996 | 4.67242E-25 | 54463 | FAM134B |
| 0.114587992 | 4.72409E-25 | 283932 | FBXL19-AS1 |
| 0.114580378 | 4.75829E-25 | 7161 | TP73 |
| 0.114569888 | 4.80583E-25 | 4205 | MEF2A |
| 0.1145541 | 4.87827E-25 | 27085 | MTBP |
| 0.114513047 | 5.07167E-25 | 2565 | GABRG1 |
| 0.114469685 | 5.28425E-25 | 10349 | ABCA10 |
| 0.114442661 | 5.4211E-25 | 2786 | GNG4 |
| 0.114391677 | 5.68897E-25 | 5083 | PAX9 |
| 0.114389166 | 5.70255E-25 | 93650 | ACPT |
| 0.114384241 | 5.72918E-25 | 11266 | DUSP12 |
| 0.114325739 | 6.05506E-25 | 51490 | C9orf114 |
| 0.114322953 | 6.07099E-25 | 375449 | MAST4 |
| 0.114316642 | 6.10733E-25 | 1757 | SARDH |
| 0.114299364 | 6.20788E-25 | 223 | ALDH9A1 |
| 0.114298806 | 6.21114E-25 | 6132 | RPL8 |
| 0.114241697 | 6.55554E-25 | 10599 | SLCO1B1 |
| 0.114239559 | 6.56886E-25 | 4145 | MATK |
| 0.114218757 | 6.69918E-25 | 56478 | EIF4ENIF1 |
| 0.114163317 | 7.0592E-25 | 100129482 | ZNF37BP |
| 0.114154398 | 7.11884E-25 | 7329 | UBE2I |
| 0.114132024 | 7.27079E-25 | 140596 | DEFB104A |
| 0.114128307 | 7.2964E-25 | 201266 | SLC39A11 |
| 0.114125334 | 7.31688E-25 | 7464 | CORO2A |
| 0.114124037 | 7.32587E-25 | 85439 | STON2 |
| 0.114111125 | 7.41565E-25 | 55337 | C19orf66 |
| 0.114077784 | 7.65264E-25 | 81572 | PDRG1 |
| 0.114012964 | 8.13497E-25 | 120224 | TMEM45B |
| 0.114012778 | 8.13644E-25 | 112970 | KTI12 |
| 0.113920748 | 8.87365E-25 | 23304 | UBR2 |
| 0.113859549 | 9.40007E-25 | 199720 | GGN |
| 0.113798536 | 9.95569E-25 | 245812 | CNPY4 |
| 0.113784328 | 1.00896E-24 | 388695 | LYSMD1 |
| 0.113757677 | 1.03459E-24 | 3140 | MR1 |
| 0.113750525 | 1.04157E-24 | 57486 | NLN |
| 0.113747559 | 1.04448E-24 | 55223 | TRIM62 |
| 0.113712639 | 1.07935E-24 | 219431 | OR4S2 |
| 0.113687843 | 1.10481E-24 | 123103 | KLHL33 |
| 0.113687471 | 1.10518E-24 | 23031 | MAST3 |
| 0.113681436 | 1.11147E-24 | 7076 | TIMP1 |
| 0.113664165 | 1.12966E-24 | 127733 | UBXN10 |
| 0.113548823 | 1.25894E-24 | 6916 | TBXAS1 |
| 0.113508701 | 1.30727E-24 | 5883 | RAD9A |
| 0.113469519 | 1.35623E-24 | 196872 | RP11-477I4.3 |
| 0.113443695 | 1.3895E-24 | 6662 | SOX9 |
| 0.113442674 | 1.39081E-24 | 140691 | TRIM69 |
| 0.113425128 | 1.4139E-24 | 64864 | RFX7 |
| 0.113405719 | 1.43986E-24 | 11164 | NUDT5 |
| 0.113389187 | 1.46237E-24 | 55863 | TMEM126B |
| 0.113356128 | 1.50838E-24 | 83715 | ESPN |
| 0.113203824 | 1.73968E-24 | 9997 | SCO2 |
| 0.113165654 | 1.80294E-24 | 10783 | NEK6 |
| 0.113148011 | 1.83297E-24 | 1441 | CSF3R |
| 0.113077432 | 1.95803E-24 | 834 | CASP1 |
| 0.113029331 | 2.04808E-24 | 5052 | PRDX1 |
| 0.113027565 | 2.05148E-24 | 56848 | SPHK2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.099356495 | 0.562921405 | 0.573 | 1 | 4351 | MPI |
| 0.099356495 | 0.562921405 | 0.596 | 1 | 6799 | SULT1A2 |
| 0.099356495 | 0.562921405 | 0.614 | 1 | 9986 | RCE1 |
| 0.099356495 | 0.562921405 | 0.59 | 1 | 57215 | THAP11 |
| 0.099356495 | 0.562921405 | 0.606 | 1 | 80856 | KIAA1715 |
| 0.099356495 | 0.562921405 | 0.614 | 1 | 84085 | FBXO30 |
| 0.099356495 | 0.562921405 | 0.599 | 1 | 441294 | CTAGE15P |
| 0.099099092 | 0.56393832 | 0.57 | 1 | 23560 | GTPBP4 |
| 0.099099092 | 0.56393832 | 0.594 | 1 | 29931 | LINC00312 |
| 0.099099092 | 0.56393832 | 0.59 | 1 | 57558 | USP35 |
| 0.098841697 | 0.564956129 | 0.605 | 1 | 8092 | ALX1 |
| 0.098841697 | 0.564956129 | 0.603 | 1 | 10051 | SMC4 |
| 0.098584294 | 0.56597513 | 0.599 | 1 | 4109 | MAGEA10 |
| 0.098584294 | 0.56597513 | 0.593 | 1 | 5370 | PMCHL2 |
| 0.098584294 | 0.56597513 | 0.594 | 1 | 10382 | TUBB4 |
| 0.098584294 | 0.56597513 | 0.593 | 1 | 58492 | ZNF77 |
| 0.098584294 | 0.56597513 | 0.613 | 1 | 84322 | C18orf12 |
| 0.098326899 | 0.566994607 | 0.616 | 1 | 1182 | CLCN3 |
| 0.098326899 | 0.566994607 | 0.607 | 1 | 1213 | CLTC |
| 0.098326899 | 0.566994607 | 0.59 | 1 | 2196 | FAT2 |
| 0.098326899 | 0.566994607 | 0.591 | 1 | 6519 | SLC3A1 |
| 0.098326899 | 0.566994607 | 0.562 | 1 | 9482 | STX8 |
| 0.098326899 | 0.566994607 | 0.606 | 1 | 10217 | CTDSPL |
| 0.098326899 | 0.566994607 | 0.616 | 1 | 24140 | FTSJ1 |
| 0.098326899 | 0.566994607 | 0.557 | 1 | 51322 | WAC |
| 0.098326899 | 0.566994607 | 0.589 | 1 | 54872 | PIGG |
| 0.098326899 | 0.566994607 | 0.59 | 1 | 57446 | NDRG3 |
| 0.098326899 | 0.566994607 | 0.59 | 1 | 79780 | CCDC82 |
| 0.098326899 | 0.566994607 | 0.582 | 1 | 125144 | C17orf45 |
| 0.098069496 | 0.56801492 | 0.614 | 1 | 8512 | MBL1P |
| 0.098069496 | 0.56801492 | 0.598 | 1 | 10491 | CRTAP |
| 0.098069496 | 0.56801492 | 0.594 | 1 | 29995 | LMCD1 |
| 0.098069496 | 0.56801492 | 0.621 | 1 | 57540 | PTCHD2 |
| 0.098069496 | 0.56801492 | 0.627 | 1 | 267004 | PGBD3 |
| 0.097812094 | 0.569036067 | 0.581 | 1 | 3099 | HK2 |
| 0.097812094 | 0.569036067 | 0.595 | 1 | 5518 | PPP2R1A |
| 0.097812094 | 0.569036067 | 0.601 | 1 | 5891 | RAGE |
| 0.097812094 | 0.569036067 | 0.603 | 1 | 8668 | EIF3I |
| 0.097812094 | 0.569036067 | 0.593 | 1 | 9797 | TATDN2 |
| 0.097812094 | 0.569036067 | 0.554 | 1 | 51184 | GPN3 |
| 0.097812094 | 0.569036067 | 0.635 | 1 | 51390 | AIG1 |
| 0.097812094 | 0.569036067 | 0.595 | 1 | 158160 | HSD17B7P2 |
| 0.097554699 | 0.570058048 | 0.595 | 1 | 6136 | RPL12 |
| 0.097554699 | 0.570058048 | 0.618 | 1 | 7804 | LRP8 |
| 0.097554699 | 0.570058048 | 0.603 | 1 | 84988 | PPP1R16A |
| 0.097554699 | 0.570058048 | 0.597 | 1 | 91120 | ZNF682 |
| 0.097297296 | 0.5710814 | 0.602 | 1 | 8110 | DPF3 |
| 0.097297296 | 0.5710814 | 0.609 | 1 | 9648 | GCC2 |
| 0.097297296 | 0.5710814 | 0.612 | 1 | 91056 | AP5B1 |
| 0.097297296 | 0.5710814 | 0.636 | 1 | 128372 | OR6N1 |
| 0.097297296 | 0.5710814 | 0.614 | 1 | 641702 | FAM138E |
| 0.097039901 | 0.572105169 | 0.598 | 1 | 521 | ATP5I |
| 0.097039901 | 0.572105169 | 0.597 | 1 | 55194 | FAM176B |
| 0.097039901 | 0.572105169 | 0.602 | 1 | 219869 | OR10G8 |
| 0.097039901 | 0.572105169 | 0.601 | 1 | 790955 | C11orf83 |
| 0.096782498 | 0.573129714 | 0.593 | 1 | 3150 | HMGN1 |
| 0.096782498 | 0.573129714 | 0.594 | 1 | 3417 | IDH1 |
| 0.096782498 | 0.573129714 | 0.596 | 1 | 83894 | TTC29 |
| 0.096782498 | 0.573129714 | 0.575 | 1 | 84870 | RSPO3 |
| 0.096782498 | 0.573129714 | 0.61 | 1 | 283373 | ANKRD52 |
| 0.096782498 | 0.573129714 | 0.589 | 1 | 391196 | OR2M7 |
| 0.096525095 | 0.574155033 | 0.605 | 1 | 10536 | LEPREL2 |
| 0.096525095 | 0.574155033 | 0.603 | 1 | 10569 | SLU7 |
| 0.096525095 | 0.574155033 | 0.61 | 1 | 10738 | RFPL3 |
| 0.096525095 | 0.574155033 | 0.622 | 1 | 23450 | SF3B3 |
| 0.096525095 | 0.574155033 | 0.574 | 1 | 140564 | APOBEC3D |
| 0.0962677 | 0.575181782 | 0.599 | 1 | 175 | AGA |
| 0.0962677 | 0.575181782 | 0.581 | 1 | 57549 | IGSF9 |
| 0.09601029 | 0.57620877 | 0.602 | 1 | 2835 | GPR12 |
| 0.09601029 | 0.57620877 | 0.587 | 1 | 6583 | SLC22A4 |
| 0.09601029 | 0.57620877 | 0.59 | 1 | 27071 | DAPP1 |
| 0.09601029 | 0.57620877 | 0.637 | 1 | 79890 | RIN3 |
| 0.095752895 | 0.577236712 | 0.601 | 1 | 55629 | PNRC2 |
| 0.095752895 | 0.577236712 | 0.6 | 1 | 201243 | C17orf74 |
| 0.095752895 | 0.577236712 | 0.612 | 1 | 389842 | LOC389842 |
| 0.095495492 | 0.578265488 | 0.58 | 1 | 6303 | SAT1 |
| 0.095495492 | 0.578265488 | 0.608 | 1 | 22917 | ZP1 |
| 0.095495492 | 0.578265488 | 0.619 | 1 | 57713 | SFMBT2 |
| 0.095495492 | 0.578265488 | 0.58 | 1 | 64949 | MRPS26 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.113002956 | 2.0992E-24 | 26036 | ZNF451 |
| 0.112941571 | 2.22308E-24 | 54857 | GDPD2 |
| 0.112906747 | 2.29655E-24 | 151295 | SLC23A3 |
| 0.112824656 | 2.4794E-24 | 29079 | MED4 |
| 0.112816386 | 2.49859E-24 | 84879 | MFSD2 |
| 0.11278639 | 2.56947E-24 | 7884 | SLBP |
| 0.112764016 | 2.62368E-24 | 11076 | TPPP |
| 0.112664364 | 2.879E-24 | 56954 | NIT2 |
| 0.112610228 | 3.02789E-24 | 26060 | APPL1 |
| 0.112606511 | 3.03836E-24 | 54877 | ZCCHC2 |
| 0.112531103 | 3.25929E-24 | 3177 | SLC29A2 |
| 0.11252813 | 3.26833E-24 | 54764 | ZRANB1 |
| 0.112523951 | 3.28107E-24 | 130026 | ICA1L |
| 0.112380013 | 3.75091E-24 | 3483 | IGFALS |
| 0.112345189 | 3.87424E-24 | 1 | A1BG |
| 0.112332277 | 3.92097E-24 | 6334 | SCN8A |
| 0.112263277 | 4.18041E-24 | 83851 | SYT16 |
| 0.112258911 | 4.19733E-24 | 5988 | RFPL1 |
| 0.112168558 | 4.56439E-24 | 58527 | C6orf115 |
| 0.112164564 | 4.58132E-24 | 255783 | PRR24 |
| 0.11216215 | 4.5916E-24 | 646023 | C22ORF45 |
| 0.112140976 | 4.68265E-24 | 120237 | DBX1 |
| 0.112042256 | 5.13125E-24 | 639 | PRDM1 |
| 0.112002045 | 5.32595E-24 | 60598 | KCNK15 |
| 0.111867949 | 6.02973E-24 | 441818 | WBP11P1 |
| 0.111847147 | 6.14686E-24 | 11337 | GABARAP |
| 0.11177963 | 6.5427E-24 | 57175 | CORO1B |
| 0.111734502 | 6.82129E-24 | 3108 | HLA-DMA |
| 0.111731805 | 6.83828E-24 | 150677 | OTOS |
| 0.111719735 | 6.915E-24 | 80329 | ULBP1 |
| 0.111645997 | 7.4022E-24 | 50488 | MINK1 |
| 0.111609779 | 7.6538E-24 | 326624 | RAB37 |
| 0.111597151 | 7.74349E-24 | 6183 | MRPS12 |
| 0.111591578 | 7.78345E-24 | 5664 | PSEN2 |
| 0.11154858 | 8.09833E-24 | 23025 | UNC13A |
| 0.111532703 | 8.21775E-24 | 80741 | LY6G5C |
| 0.1113986 | 9.29881E-24 | 2986 | GUCY2F |
| 0.111303233 | 1.01521E-23 | 100130449 | AC110619.2 |
| 0.111301281 | 1.01704E-23 | 147965 | FAM98C |
| 0.111300536 | 1.01773E-23 | 91523 | FAM113B |
| 0.111292645 | 1.02516E-23 | 90226 | UCN2 |
| 0.111180365 | 1.13667E-23 | 2483 | FRG1 |
| 0.111174516 | 1.14279E-23 | 64083 | GOLPH3 |
| 0.111143224 | 1.17614E-23 | 51727 | CMPK1 |
| 0.111090474 | 1.23453E-23 | 150962 | PUS10 |
| 0.111052029 | 1.27889E-23 | 23215 | BAT2D1 |
| 0.111049242 | 1.28218E-23 | 646024 | RAET1K |
| 0.111031689 | 1.303E-23 | 55558 | PLXNA3 |
| 0.111031041 | 1.30378E-23 | 55432 | YOD1 |
| 0.110964552 | 1.38579E-23 | 54542 | RC3H2 |
| 0.110887282 | 1.48758E-23 | 129293 | AC010087.3 |
| 0.110879019 | 1.49888E-23 | 3222 | HOXC5 |
| 0.110865369 | 1.51776E-23 | 1438 | CSF2RA |
| 0.110851809 | 1.53673E-23 | 29104 | N6AMT1 |
| 0.110825621 | 1.57406E-23 | 5728 | PTEN |
| 0.110803984 | 1.60557E-23 | 126123 | C19orf41 |
| 0.110678241 | 1.80147E-23 | 84340 | GFM2 |
| 0.110617042 | 1.90519E-23 | 25978 | CHMP2B |
| 0.110606365 | 1.92389E-23 | 2620 | GAS2 |
| 0.110592902 | 1.94772E-23 | 54456 | MOV10L1 |
| 0.110558167 | 2.01055E-23 | 219873 | OR10S1 |
| 0.110549994 | 2.02562E-23 | 9985 | REC8 |
| 0.110504858 | 2.11092E-23 | 287015 | TRIM42 |
| 0.110484242 | 2.15104E-23 | 337977 | KRTAP21-1 |
| 0.11047329 | 2.17268E-23 | 9703 | KIAA0100 |
| 0.11040587 | 2.31062E-23 | 114795 | TMEM132B |
| 0.110405028 | 2.31239E-23 | 441543 | TTTY6B |
| 0.110355534 | 2.41924E-23 | 221150 | C13orf3 |
| 0.110310957 | 2.51962E-23 | 8642 | DCHS1 |
| 0.110285051 | 2.57985E-23 | 5701 | PSMC2 |
| 0.110264525 | 2.62857E-23 | 11108 | PRDM4 |
| 0.110245951 | 2.67348E-23 | 161931 | ADAD2 |
| 0.110152341 | 2.91147E-23 | 123811 | C16orf63 |
| 0.11014612 | 2.92799E-23 | 9875 | URB1 |
| 0.110141106 | 2.9414E-23 | 8898 | MTMR2 |
| 0.110090122 | 3.08114E-23 | 4985 | OPRD1 |
| 0.110070065 | 3.1379E-23 | 647979 | LOC647979 |
| 0.110034399 | 3.2414E-23 | 5393 | EXOSC9 |
| 0.109956764 | 3.47849E-23 | 10734 | STAG3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.095495492 | 0.578265488 | 0.601 | 1 | 375748 | C9orf102 |
| 0.095495492 | 0.578265488 | 0.644 | 1 | 574406 | C1orf138 |
| 0.09523809 | 0.579295456 | 0.624 | 1 | 187 | APLNR |
| 0.09523809 | 0.579295456 | 0.612 | 1 | 50940 | PDE11A |
| 0.09523809 | 0.579295456 | 0.623 | 1 | 55668 | C14orf118 |
| 0.09523809 | 0.579295456 | 0.608 | 1 | 55862 | ECHDC1 |
| 0.09523809 | 0.579295456 | 0.583 | 1 | 64318 | NOC3L |
| 0.09523809 | 0.579295456 | 0.596 | 1 | 64344 | HIF3A |
| 0.09523809 | 0.579295456 | 0.59 | 1 | 164781 | WDR69 |
| 0.09523809 | 0.579295456 | 0.627 | 1 | 388886 | C22orf36 |
| 0.09523809 | 0.579295456 | 0.652 | 1 | 644794 | LOC644794 |
| 0.094980694 | 0.580325902 | 0.618 | 1 | 3569 | IL6 |
| 0.094980694 | 0.580325902 | 0.597 | 1 | 5203 | PFDN4 |
| 0.094980694 | 0.580325902 | 0.61 | 1 | 11209 | RP5-1182A14.1 |
| 0.094980694 | 0.580325902 | 0.632 | 1 | 23270 | TSPYL5 |
| 0.094980694 | 0.580325902 | 0.608 | 1 | 84292 | AC010422.1 |
| 0.094980694 | 0.580325902 | 0.594 | 1 | 158062 | LCN6 |
| 0.094980694 | 0.580325902 | 0.589 | 1 | 253314 | EIF4E1B |
| 0.094980694 | 0.580325902 | 0.626 | 1 | 254048 | UBN2 |
| 0.094723292 | 0.581357121 | 0.62 | 1 | 9950 | GOLGA5 |
| 0.094723292 | 0.581357121 | 0.613 | 1 | 10099 | TSPAN3 |
| 0.094723292 | 0.581357121 | 0.631 | 1 | 57176 | VARS2 |
| 0.094723292 | 0.581357121 | 0.603 | 1 | 83698 | CALN1 |
| 0.094465896 | 0.582389176 | 0.615 | 1 | 954 | ENTPD2 |
| 0.094465896 | 0.582389176 | 0.638 | 1 | 4600 | MX2 |
| 0.094465896 | 0.582389176 | 0.623 | 1 | 4828 | NMB |
| 0.094465896 | 0.582389176 | 0.613 | 1 | 79176 | FBXL15 |
| 0.094465896 | 0.582389176 | 0.615 | 1 | 155060 | RP4-800G7.1 |
| 0.094465896 | 0.582389176 | 0.604 | 1 | 221264 | AKD1 |
| 0.094208494 | 0.583422065 | 0.6 | 1 | 1917 | EEF1A2 |
| 0.094208494 | 0.583422065 | 0.635 | 1 | 2940 | GSTA3 |
| 0.094208494 | 0.583422065 | 0.624 | 1 | 25891 | PAMR1 |
| 0.093951091 | 0.584456265 | 0.618 | 1 | 3623 | INHA |
| 0.093951091 | 0.584456265 | 0.603 | 1 | 6376 | CX3CL1 |
| 0.093951091 | 0.584456265 | 0.608 | 1 | 7454 | WAS |
| 0.093951091 | 0.584456265 | 0.644 | 1 | 9859 | CEP170 |
| 0.093951091 | 0.584456265 | 0.627 | 1 | 27160 | INGX |
| 0.093951091 | 0.584456265 | 0.602 | 1 | 50615 | IL21R |
| 0.093951091 | 0.584456265 | 0.641 | 1 | 143379 | C10orf82 |
| 0.093951091 | 0.584456265 | 0.627 | 1 | 143570 | XRRA1 |
| 0.093693696 | 0.585490823 | 0.614 | 1 | 5993 | RFX5 |
| 0.093693696 | 0.585490823 | 0.596 | 1 | 10048 | RANBP9 |
| 0.093693696 | 0.585490823 | 0.636 | 1 | 51663 | ZFR |
| 0.093693696 | 0.585490823 | 0.622 | 1 | 203197 | C9orf91 |
| 0.093436293 | 0.586526096 | 0.632 | 1 | 6745 | SSR1 |
| 0.093436293 | 0.586526096 | 0.621 | 1 | 10270 | AKAP8 |
| 0.093436293 | 0.586526096 | 0.615 | 1 | 51022 | GLRX2 |
| 0.093436293 | 0.586526096 | 0.597 | 1 | 80122 | YSK4 |
| 0.093436293 | 0.586526096 | 0.624 | 1 | 149134 | LOC149134 |
| 0.093436293 | 0.586526096 | 0.616 | 1 | 200150 | PLD5 |
| 0.093436293 | 0.586526096 | 0.608 | 1 | 201456 | FBXO15 |
| 0.093178898 | 0.587562323 | 0.638 | 1 | 6284 | S100A13 |
| 0.093178898 | 0.587562323 | 0.64 | 1 | 23362 | PSD3 |
| 0.093178898 | 0.587562323 | 0.666 | 1 | 25837 | RAB26 |
| 0.093178898 | 0.587562323 | 0.602 | 1 | 28970 | C11orf54 |
| 0.093178898 | 0.587562323 | 0.616 | 1 | 84056 | KATNAL1 |
| 0.093178898 | 0.587562323 | 0.648 | 1 | 120796 | OR56A1 |
| 0.092921495 | 0.588599801 | 0.628 | 1 | 84667 | HES7 |
| 0.092921495 | 0.588599801 | 0.644 | 1 | 157556 | C8orf56 |
| 0.092921495 | 0.588599801 | 0.625 | 1 | 220992 | ZNF485 |
| 0.092921495 | 0.588599801 | 0.583 | 1 | 440023 | KRTAP5-6 |
| 0.092664085 | 0.589637578 | 0.624 | 1 | 3036 | HAS1 |
| 0.092664085 | 0.589637578 | 0.591 | 1 | 6159 | RPL29 |
| 0.092664085 | 0.589637578 | 0.603 | 1 | 6160 | RPL31 |
| 0.092664085 | 0.589637578 | 0.626 | 1 | 79827 | AP000926.2 |
| 0.092664085 | 0.589637578 | 0.619 | 1 | 84328 | LZIC |
| 0.092664085 | 0.589637578 | 0.602 | 1 | 266629 | SEC14L3 |
| 0.09240669 | 0.590676188 | 0.632 | 1 | 9989 | PPP4R1 |
| 0.09240669 | 0.590676188 | 0.624 | 1 | 26750 | RPS6KC1 |
| 0.09240669 | 0.590676188 | 0.632 | 1 | 163081 | ZNF567 |
| 0.09240669 | 0.590676188 | 0.604 | 1 | 285962 | RP5-894A10.1 |
| 0.092149287 | 0.591715634 | 0.613 | 1 | 90871 | C9orf123 |
| 0.092149287 | 0.591715634 | 0.647 | 1 | 147429 | CHST9-AS1 |
| 0.092149287 | 0.591715634 | 0.629 | 1 | 201299 | RDM1 |
| 0.091891885 | 0.592756331 | 0.654 | 1 | 9771 | RAPGEF5 |
| 0.091891885 | 0.592756331 | 0.627 | 1 | 55347 | ABHD10 |
| 0.091891885 | 0.592756331 | 0.613 | 1 | 284756 | C20orf197 |
| 0.09163449 | 0.593797386 | 0.62 | 1 | 558 | AXL |
| 0.09163449 | 0.593797386 | 0.628 | 1 | 2617 | GARS |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.109854519 | 3.81714E-23 | 8803 | SUCLA2 |
| 0.109727941 | 4.28187E-23 | 59084 | ENPP5 |
| 0.109684482 | 4.454E-23 | 284521 | OR2L13 |
| 0.109654583 | 4.57634E-23 | 9185 | REPS2 |
| 0.109609447 | 4.76747E-23 | 7126 | TNFAIP1 |
| 0.109569982 | 4.94104E-23 | 5626 | PROP1 |
| 0.109519556 | 5.17188E-23 | 140893 | C20orf151 |
| 0.109500609 | 5.2614E-23 | 389493 | RP4-725G10.1 |
| 0.109483339 | 5.34421E-23 | 7511 | XPNPEP1 |
| 0.10944628 | 5.52651E-23 | 286527 | TMSB15B |
| 0.109440058 | 5.5577E-23 | 9525 | VPS4B |
| 0.109424643 | 5.63578E-23 | 9077 | DIRAS3 |
| 0.109307632 | 6.26464E-23 | 5188 | PET112L |
| 0.109285809 | 6.38941E-23 | 1300 | COL10A1 |
| 0.109238915 | 6.6658E-23 | 6691 | SPINK2 |
| 0.109154031 | 7.19676E-23 | 54187 | NANS |
| 0.109104812 | 7.52344E-23 | 2260 | FGFR1 |
| 0.10907983 | 7.69491E-23 | 55149 | MTPAP |
| 0.109049648 | 7.90715E-23 | 57619 | SHROOM3 |
| 0.109029219 | 8.05411E-23 | 340527 | NHSL2 |
| 0.108968675 | 8.50568E-23 | 284382 | ACTL9 |
| 0.108957991 | 8.58796E-23 | 83887 | TTLL2 |
| 0.108948238 | 8.66374E-23 | 10427 | SEC24B |
| 0.108947404 | 8.67024E-23 | 4358 | MPV17 |
| 0.108936541 | 8.7555E-23 | 55140 | ELP3 |
| 0.108909793 | 8.96895E-23 | 55539 | KCNQ1DN |
| 0.108831696 | 9.622E-23 | 7142 | TNP2 |
| 0.108817115 | 9.74903E-23 | 53841 | MUPCDH |
| 0.108772449 | 1.01486E-22 | 1358 | CPA2 |
| 0.108714961 | 1.06868E-22 | 353174 | ZACN |
| 0.10864123 | 1.14188E-22 | 84451 | MAP3K19 |
| 0.108590335 | 1.19527E-22 | 92249 | LOC92249 |
| 0.10856656 | 1.22105E-22 | 23475 | QPRT |
| 0.108521149 | 1.27184E-22 | 27032 | ATP2C1 |
| 0.10848967 | 1.30825E-22 | 84263 | HSDL2 |
| 0.108475648 | 1.3248E-22 | 27235 | COQ2 |
| 0.108474627 | 1.32602E-22 | 54952 | TRNAU1AP |
| 0.108451597 | 1.35369E-22 | 400624 | FLJ45079 |
| 0.10843692 | 1.37163E-22 | 55827 | IQWD1 |
| 0.108373493 | 1.45183E-22 | 64753 | CCDC136 |
| 0.108312853 | 1.53288E-22 | 171392 | ZNF675 |
| 0.108184792 | 1.71897E-22 | 131870 | NUDT16 |
| 0.108152382 | 1.76953E-22 | 79784 | MYH14 |
| 0.108047813 | 1.94285E-22 | 140823 | ROMO1 |
| 0.107966833 | 2.08853E-22 | 325 | APCS |
| 0.107921794 | 2.17417E-22 | 177 | AGER |
| 0.107895233 | 2.2263E-22 | 51763 | INPP5K |
| 0.107884556 | 2.24761E-22 | 9212 | AURKB |
| 0.10786134 | 2.29462E-22 | 100288797 | RP5-860F19.1 |
| 0.107815832 | 2.38962E-22 | 339761 | CYP27C1 |
| 0.107780918 | 2.46515E-22 | 22871 | NLGN1 |
| 0.107779801 | 2.4676E-22 | 9411 | ARHGAP29 |
| 0.107779801 | 2.4676E-22 | 55361 | PI4K2A |
| 0.107774138 | 2.48007E-22 | 2537 | IFI6 |
| 0.107771255 | 2.48645E-22 | 65124 | ANKRD57 |
| 0.107676908 | 2.70436E-22 | 11158 | RABL2B |
| 0.107636884 | 2.80244E-22 | 55137 | FIGN |
| 0.107561193 | 2.99759E-22 | 430 | ASCL2 |
| 0.107521728 | 3.10464E-22 | 6753 | SSTR3 |
| 0.107504174 | 3.15347E-22 | 57148 | KIAA1219 |
| 0.107502133 | 3.15919E-22 | 10168 | ZNF197 |
| 0.107478358 | 3.22663E-22 | 1293 | COL6A3 |
| 0.107452728 | 3.30093E-22 | 1365 | CLDN3 |
| 0.107439168 | 3.34093E-22 | 2524 | FUT2 |
| 0.107426353 | 3.37918E-22 | 64102 | TNMD |
| 0.10742598 | 3.3803E-22 | 495 | ATP4A |
| 0.107341938 | 3.64214E-22 | 81697 | OR2B2 |
| 0.107317053 | 3.7234E-22 | 4725 | NDUFS5 |
| 0.107253067 | 3.94079E-22 | 9074 | CLDN6 |
| 0.107251391 | 3.94669E-22 | 84908 | FAM136A |
| 0.107157879 | 4.28766E-22 | 55811 | ADCY10 |
| 0.107144415 | 4.3391E-22 | 29761 | USP25 |
| 0.107052751 | 4.70592E-22 | 441151 | TMEM151B |
| 0.107049689 | 4.7187E-22 | 220972 | MARCHF8 |
| 0.107004091 | 4.91291E-22 | 5051 | PAFAH2 |
| 0.106875658 | 5.50363E-22 | 80006 | C5orf44 |
| 0.106830895 | 5.72556E-22 | 2303 | FOXC2 |
| 0.106805079 | 5.85752E-22 | 64924 | SLC30A5 |
| 0.106717974 | 6.32562E-22 | 55187 | VPS13D |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.09163449 | 0.593797386 | 0.651 | 1 | 2972 | BRF1 |
| 0.09163449 | 0.593797386 | 0.592 | 1 | 4800 | NFYA |
| 0.09163449 | 0.593797386 | 0.613 | 1 | 8106 | PABPN1 |
| 0.09163449 | 0.593797386 | 0.613 | 1 | 57461 | ISY1 |
| 0.09163449 | 0.593797386 | 0.613 | 1 | 85302 | FBF1 |
| 0.09163449 | 0.593797386 | 0.633 | 1 | 116841 | SNAP47 |
| 0.091377087 | 0.594839275 | 0.639 | 1 | 4171 | MCM2 |
| 0.091377087 | 0.594839275 | 0.66 | 1 | 51108 | METTL9 |
| 0.091377087 | 0.594839275 | 0.629 | 1 | 84627 | ZNF469 |
| 0.091377087 | 0.594839275 | 0.633 | 1 | 90655 | TGIF2LY |
| 0.091377087 | 0.594839275 | 0.619 | 1 | 348751 | AC073043.2 |
| 0.091377087 | 0.594839275 | 0.633 | 1 | 441455 | LOC441455 |
| 0.091377087 | 0.594839275 | 0.623 | 1 | 641339 | ZNF674 |
| 0.091119692 | 0.595881999 | 0.63 | 1 | 5718 | PSMD12 |
| 0.091119692 | 0.595881999 | 0.63 | 1 | 6656 | SOX1 |
| 0.091119692 | 0.595881999 | 0.634 | 1 | 55798 | METTL2B |
| 0.091119692 | 0.595881999 | 0.606 | 1 | 57463 | AMIGO1 |
| 0.091119692 | 0.595881999 | 0.602 | 1 | 254910 | LCE5A |
| 0.090862289 | 0.596925437 | 0.616 | 1 | 8573 | CASK |
| 0.090862289 | 0.596925437 | 0.649 | 1 | 55870 | ASH1L |
| 0.090604886 | 0.597970247 | 0.627 | 1 | 983 | CDC2 |
| 0.090604886 | 0.597970247 | 0.631 | 1 | 23186 | RCOR1 |
| 0.090604886 | 0.597970247 | 0.609 | 1 | 27283 | TINAG |
| 0.090604886 | 0.597970247 | 0.632 | 1 | 55056 | FLJ10038 |
| 0.090604886 | 0.597970247 | 0.607 | 1 | 55509 | BATF3 |
| 0.090604886 | 0.597970247 | 0.588 | 1 | 126549 | ANKLE1 |
| 0.090604886 | 0.597970247 | 0.623 | 1 | 283093 | OR4C12 |
| 0.090347491 | 0.599015236 | 0.664 | 1 | 2512 | FTL |
| 0.090347491 | 0.599015236 | 0.639 | 1 | 9704 | DHX34 |
| 0.090347491 | 0.599015236 | 0.658 | 1 | 55559 | HAUS7 |
| 0.090347491 | 0.599015236 | 0.631 | 1 | 389549 | FEZF1 |
| 0.090090089 | 0.600061238 | 0.632 | 1 | 1975 | EIF4B |
| 0.090090089 | 0.600061238 | 0.627 | 1 | 4439 | MSH5 |
| 0.090090089 | 0.600061238 | 0.615 | 1 | 6919 | TCEA2 |
| 0.089832693 | 0.601107895 | 0.658 | 1 | 6258 | RXRG |
| 0.089832693 | 0.601107895 | 0.622 | 1 | 55070 | DET1 |
| 0.089832693 | 0.601107895 | 0.653 | 1 | 64682 | ANAPC1 |
| 0.089832693 | 0.601107895 | 0.627 | 1 | 65998 | C11orf95 |
| 0.089832693 | 0.601107895 | 0.628 | 1 | 126123 | C19orf41 |
| 0.089832693 | 0.601107895 | 0.61 | 1 | 440068 | CARD17 |
| 0.089575291 | 0.602155805 | 0.61 | 1 | 6879 | TAF7 |
| 0.089575291 | 0.602155805 | 0.642 | 1 | 9202 | ZMYM4 |
| 0.089575291 | 0.602155805 | 0.614 | 1 | 9470 | EIF4E2 |
| 0.089575291 | 0.602155805 | 0.614 | 1 | 55174 | INTS10 |
| 0.089575291 | 0.602155805 | 0.619 | 1 | 56901 | NDUFA4L2 |
| 0.089317888 | 0.603204131 | 0.612 | 1 | 4820 | NKTR |
| 0.089317888 | 0.603204131 | 0.618 | 1 | 5252 | PHF1 |
| 0.089317888 | 0.603204131 | 0.645 | 1 | 5587 | PRKD1 |
| 0.089317888 | 0.603204131 | 0.63 | 1 | 7059 | THBS3 |
| 0.089317888 | 0.603204131 | 0.636 | 1 | 7430 | VIL2 |
| 0.089317888 | 0.603204131 | 0.628 | 1 | 26263 | FBXO22 |
| 0.089317888 | 0.603204131 | 0.636 | 1 | 29116 | MYLIP |
| 0.089317888 | 0.603204131 | 0.628 | 1 | 55183 | RIF1 |
| 0.089317888 | 0.603204131 | 0.662 | 1 | 55680 | RUFY2 |
| 0.089317888 | 0.603204131 | 0.625 | 1 | 91151 | TIGD7 |
| 0.089317888 | 0.603204131 | 0.656 | 1 | 91544 | UBXN11 |
| 0.089060485 | 0.604253113 | 0.633 | 1 | 2150 | F2RL1 |
| 0.089060485 | 0.604253113 | 0.655 | 1 | 2812 | GP1BB |
| 0.089060485 | 0.604253113 | 0.624 | 1 | 23615 | PYY2 |
| 0.089060485 | 0.604253113 | 0.618 | 1 | 84986 | ARHGAP19 |
| 0.088803083 | 0.605302989 | 0.657 | 1 | 172 | AFG3L1P |
| 0.088803083 | 0.605302989 | 0.635 | 1 | 597 | BCL2A1 |
| 0.088803083 | 0.605302989 | 0.638 | 1 | 1496 | CTNNA2 |
| 0.088803083 | 0.605302989 | 0.625 | 1 | 54491 | FAM105A |
| 0.088545687 | 0.606354117 | 0.626 | 1 | 64400 | AKTIP |
| 0.088545687 | 0.606354117 | 0.652 | 1 | 90850 | ZNF598 |
| 0.088545687 | 0.606354117 | 0.648 | 1 | 147804 | CTD-2224J9.2 |
| 0.088288285 | 0.607405543 | 0.609 | 1 | 3953 | LEPR |
| 0.088288285 | 0.607405543 | 0.654 | 1 | 6181 | RPLP2 |
| 0.088288285 | 0.607405543 | 0.643 | 1 | 26060 | APPL1 |
| 0.088288285 | 0.607405543 | 0.632 | 1 | 57099 | AVEN |
| 0.088288285 | 0.607405543 | 0.657 | 1 | 254973 | OR1L4 |
| 0.088288285 | 0.607405543 | 0.656 | 1 | 729535 | FAM207BP |
| 0.088030882 | 0.608457804 | 0.611 | 1 | 22829 | NLGN4Y |
| 0.088030882 | 0.608457804 | 0.626 | 1 | 79626 | TNFAIP8L2 |
| 0.088030882 | 0.608457804 | 0.645 | 1 | 163688 | CALML6 |
| 0.087773487 | 0.609510779 | 0.665 | 1 | 4867 | NPHP1 |
| 0.087773487 | 0.609510779 | 0.614 | 1 | 253959 | GARNL1 |
| 0.087516084 | 0.61056459 | 0.622 | 1 | 1054 | CEBPG |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.10659799 | 7.03136E-22 | 482 | ATP1B2 |
| 0.106586844 | 7.10083E-22 | 2099 | ESR1 |
| 0.106584057 | 7.11826E-22 | 5092 | PCBD1 |
| 0.106543846 | 7.37491E-22 | 57507 | ZNF608 |
| 0.106512085 | 7.58409E-22 | 440335 | LOC440335 |
| 0.106505774 | 7.62633E-22 | 2207 | FCER1G |
| 0.106500112 | 7.66441E-22 | 150365 | MEI1 |
| 0.106441416 | 8.07073E-22 | 8140 | SLC7A5 |
| 0.106410213 | 8.29543E-22 | 8289 | ARID1A |
| 0.106385142 | 8.48032E-22 | 1103 | CHAT |
| 0.106365547 | 8.62773E-22 | 55731 | C17orf63 |
| 0.106336482 | 8.85102E-22 | 6240 | RRM1 |
| 0.106331095 | 8.89302E-22 | 29927 | SEC61A1 |
| 0.106329516 | 8.90535E-22 | 5684 | PSMA3 |
| 0.106320225 | 8.97836E-22 | 137682 | C8orf38 |
| 0.106312707 | 9.03789E-22 | 221188 | GPR114 |
| 0.10629905 | 9.14698E-22 | 2585 | GALK2 |
| 0.106248349 | 9.5637E-22 | 9344 | TAOK2 |
| 0.106064752 | 1.12355E-21 | 26301 | GBGT1 |
| 0.10606382 | 1.12447E-21 | 154214 | RNF217 |
| 0.106022038 | 1.16641E-21 | 80039 | FAM106A |
| 0.106005505 | 1.18343E-21 | 4547 | MTTP |
| 0.105967335 | 1.22368E-21 | 401105 | AC022498.2 |
| 0.105918951 | 1.27664E-21 | 1645 | AKR1C1 |
| 0.105905212 | 1.29209E-21 | 2597 | GAPDH |
| 0.105836861 | 1.37172E-21 | 79777 | ACBD4 |
| 0.105827853 | 1.38259E-21 | 4637 | MYL6 |
| 0.10582386 | 1.38742E-21 | 252839 | TMEM9 |
| 0.105776496 | 1.4461E-21 | 9296 | ATP6V1F |
| 0.105752632 | 1.47658E-21 | 342527 | SMTNL2 |
| 0.105749846 | 1.48019E-21 | 79933 | SYNPO2L |
| 0.105712883 | 1.5288E-21 | 391013 | PLA2G2C |
| 0.105670631 | 1.58626E-21 | 9376 | SLC22A8 |
| 0.105661899 | 1.5984E-21 | 3099 | HK2 |
| 0.105644815 | 1.62244E-21 | 389903 | CSAG3 |
| 0.105640449 | 1.62864E-21 | 7701 | ZNF142 |
| 0.105638683 | 1.63116E-21 | 175 | AGA |
| 0.105630323 | 1.64309E-21 | 5310 | PKD1 |
| 0.105576091 | 1.72275E-21 | 4009 | LMX1A |
| 0.105469108 | 1.89127E-21 | 7703 | PCGF2 |
| 0.105433546 | 1.95079E-21 | 7056 | THBD |
| 0.105316162 | 2.16083E-21 | 3842 | TNPO1 |
| 0.105310127 | 2.17219E-21 | 100128327 | BET3L |
| 0.105288856 | 2.21279E-21 | 50835 | TAS2R9 |
| 0.105279475 | 2.23092E-21 | 116840 | CNTROB |
| 0.105266944 | 2.25539E-21 | 221184 | CPNE2 |
| 0.105201006 | 2.38853E-21 | 4586 | MUC5AC |
| 0.105086319 | 2.63887E-21 | 2587 | GALR1 |
| 0.105055764 | 2.70985E-21 | 26341 | OR5H1 |
| 0.105034404 | 2.76057E-21 | 10038 | PARP2 |
| 0.10497915 | 2.89618E-21 | 6598 | SMARCB1 |
| 0.104955003 | 2.95752E-21 | 8690 | JRKL |
| 0.104929835 | 3.02277E-21 | 10693 | CCT6B |
| 0.104925655 | 3.03377E-21 | 142678 | MIB2 |
| 0.104907177 | 3.08278E-21 | 2580 | GAK |
| 0.104899652 | 3.10297E-21 | 254783 | OR6C74 |
| 0.104875974 | 3.16734E-21 | 25987 | TSKU |
| 0.104821831 | 3.31947E-21 | 784 | CACNB3 |
| 0.104784966 | 3.42717E-21 | 9312 | KCNB2 |
| 0.104738347 | 3.56837E-21 | 5720 | PSME1 |
| 0.10473454 | 3.58018E-21 | 3169 | FOXA1 |
| 0.104712717 | 3.64843E-21 | 11235 | PDCD10 |
| 0.104607403 | 3.99644E-21 | 3866 | KRT15 |
| 0.104597747 | 4.02996E-21 | 440792 | LOC440792 |
| 0.104571186 | 4.12356E-21 | 123872 | LRRC50 |
| 0.104548343 | 4.20578E-21 | 11260 | XPOT |
| 0.10448724 | 4.4338E-21 | 83597 | RTP3 |
| 0.104447581 | 4.58823E-21 | 7620 | ZNF69 |
| 0.104434215 | 4.6415E-21 | 55683 | KIAA1310 |
| 0.10441044 | 4.73775E-21 | 57595 | PDZD4 |
| 0.104395114 | 4.80082E-21 | 6401 | SELE |
| 0.104366235 | 4.92192E-21 | 219793 | C10orf27 |
| 0.104284696 | 5.28044E-21 | 4854 | NOTCH3 |
| 0.104247548 | 5.45226E-21 | 23136 | EPB41L3 |
| 0.104237989 | 5.49734E-21 | 23295 | MGRN1 |
| 0.104232505 | 5.52338E-21 | 162989 | DEDD2 |
| 0.104203627 | 5.66251E-21 | 78988 | MRP63 |
| 0.104192205 | 5.71847E-21 | 10488 | CREB3 |
| 0.10418617 | 5.74829E-21 | 54981 | C9orf95 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.087516084 | 0.61056459 | 0.654 | 1 | 3400 | ID4 |
| 0.087516084 | 0.61056459 | 0.635 | 1 | 114609 | TIRAP |
| 0.087516084 | 0.61056459 | 0.644 | 1 | 114876 | OSBPL1A |
| 0.087516084 | 0.61056459 | 0.648 | 1 | 162993 | ZNF846 |
| 0.087516084 | 0.61056459 | 0.659 | 1 | 199870 | FAM76A |
| 0.087516084 | 0.61056459 | 0.62 | 1 | 414777 | HCG18 |
| 0.087516084 | 0.61056459 | 0.651 | 1 | 729739 | LOC729739 |
| 0.087258689 | 0.611619651 | 0.666 | 1 | 1296 | COL8A2 |
| 0.087258689 | 0.611619651 | 0.628 | 1 | 1812 | DRD1 |
| 0.087258689 | 0.611619651 | 0.646 | 1 | 2542 | SLC37A4 |
| 0.087258689 | 0.611619651 | 0.618 | 1 | 4105 | MAGEA6 |
| 0.087258689 | 0.611619651 | 0.635 | 1 | 7425 | VGF |
| 0.087258689 | 0.611619651 | 0.618 | 1 | 51004 | COQ6 |
| 0.087258689 | 0.611619651 | 0.64 | 1 | 54956 | PARP16 |
| 0.087258689 | 0.611619651 | 0.641 | 1 | 84680 | ACCS |
| 0.087258689 | 0.611619651 | 0.633 | 1 | 112885 | PHF21B |
| 0.087258689 | 0.611619651 | 0.621 | 1 | 729683 | LOC729683 |
| 0.087001286 | 0.612675011 | 0.65 | 1 | 733 | C8G |
| 0.087001286 | 0.612675011 | 0.669 | 1 | 8622 | PDE8B |
| 0.087001286 | 0.612675011 | 0.611 | 1 | 199745 | THAP8 |
| 0.086743884 | 0.613731146 | 0.64 | 1 | 11326 | VSIG4 |
| 0.086743884 | 0.613731146 | 0.671 | 1 | 25906 | C11orf51 |
| 0.086743884 | 0.613731146 | 0.633 | 1 | 56103 | PCDHGB2 |
| 0.086743884 | 0.613731146 | 0.647 | 1 | 57577 | KIAA1407 |
| 0.086743884 | 0.613731146 | 0.637 | 1 | 64776 | C11orf1 |
| 0.086743884 | 0.613731146 | 0.64 | 1 | 79731 | NARS2 |
| 0.086743884 | 0.613731146 | 0.638 | 1 | 85464 | SSH2 |
| 0.086743884 | 0.613731146 | 0.648 | 1 | 374882 | TMEM205 |
| 0.086486489 | 0.614787996 | 0.65 | 1 | 4591 | TRIM37 |
| 0.086486489 | 0.614787996 | 0.625 | 1 | 23550 | PSD4 |
| 0.086486489 | 0.614787996 | 0.649 | 1 | 23640 | HSPBP1 |
| 0.086486489 | 0.614787996 | 0.636 | 1 | 80021 | TMEM62 |
| 0.086486489 | 0.614787996 | 0.619 | 1 | 80831 | APOL5 |
| 0.086486489 | 0.614787996 | 0.639 | 1 | 283232 | TMEM80 |
| 0.086486489 | 0.614787996 | 0.662 | 1 | 390003 | GUCY2GP |
| 0.086229086 | 0.615846217 | 0.637 | 1 | 734 | OSGIN2 |
| 0.086229086 | 0.615846217 | 0.641 | 1 | 10563 | CXCL13 |
| 0.086229086 | 0.615846217 | 0.643 | 1 | 10915 | TCERG1 |
| 0.086229086 | 0.615846217 | 0.614 | 1 | 163131 | ZNF780B |
| 0.086229086 | 0.615846217 | 0.648 | 1 | 257169 | C9orf43 |
| 0.085971691 | 0.616904616 | 0.66 | 1 | 8760 | CDS2 |
| 0.085971691 | 0.616904616 | 0.637 | 1 | 10743 | RAI1 |
| 0.085971691 | 0.616904616 | 0.634 | 1 | 51257 | MARCHF2 |
| 0.085971691 | 0.616904616 | 0.643 | 1 | 84294 | UTP23 |
| 0.085971691 | 0.616904616 | 0.599 | 1 | 147947 | ZNF542 |
| 0.085714288 | 0.61796385 | 0.66 | 1 | 22841 | RAB11FIP2 |
| 0.085714288 | 0.61796385 | 0.646 | 1 | 23231 | AC092436.3 |
| 0.085714288 | 0.61796385 | 0.658 | 1 | 26122 | EPC2 |
| 0.085714288 | 0.61796385 | 0.651 | 1 | 84337 | ELOF1 |
| 0.085714288 | 0.61796385 | 0.649 | 1 | 92211 | PCDH21 |
| 0.085456878 | 0.619023919 | 0.649 | 1 | 421 | ARVCF |
| 0.085456878 | 0.619023919 | 0.665 | 1 | 728012 | RP11-14I4.3 |
| 0.085199483 | 0.620085061 | 0.649 | 1 | 6187 | RPS2 |
| 0.085199483 | 0.620085061 | 0.627 | 1 | 115196 | ZNF554 |
| 0.085199483 | 0.620085061 | 0.646 | 1 | 445329 | SULT1A4 |
| 0.085199483 | 0.620085061 | 0.636 | 1 | 653635 | WASH5P |
| 0.08494208 | 0.621146619 | 0.643 | 1 | 2979 | GUCA1B |
| 0.08494208 | 0.621146619 | 0.64 | 1 | 10357 | HMGB1P1 |
| 0.08494208 | 0.621146619 | 0.638 | 1 | 23508 | TTC9 |
| 0.08494208 | 0.621146619 | 0.638 | 1 | 27175 | TUBG2 |
| 0.08494208 | 0.621146619 | 0.641 | 1 | 60677 | BRUNOL6 |
| 0.08494208 | 0.621146619 | 0.663 | 1 | 343069 | HNRNPCL1 |
| 0.08494208 | 0.621146619 | 0.639 | 1 | 645453 | RLIMP3 |
| 0.084684685 | 0.622208893 | 0.642 | 1 | 2264 | FGFR4 |
| 0.084684685 | 0.622208893 | 0.637 | 1 | 3176 | HNMT |
| 0.084684685 | 0.622208893 | 0.655 | 1 | 10501 | SEMA6B |
| 0.084684685 | 0.622208893 | 0.646 | 1 | 57610 | RANBP10 |
| 0.084427282 | 0.623271942 | 0.649 | 1 | 23011 | RAB21 |
| 0.084427282 | 0.623271942 | 0.666 | 1 | 27433 | TOR2A |
| 0.08416988 | 0.624335706 | 0.636 | 1 | 6098 | ROS1 |
| 0.08416988 | 0.624335706 | 0.683 | 1 | 374462 | PTPRQ |
| 0.083912484 | 0.625400782 | 0.645 | 1 | 4583 | MUC2 |
| 0.083912484 | 0.625400782 | 0.663 | 1 | 5935 | RBM3 |
| 0.083912484 | 0.625400782 | 0.661 | 1 | 7001 | PRDX2 |
| 0.083912484 | 0.625400782 | 0.646 | 1 | 55705 | IPO9 |
| 0.083912484 | 0.625400782 | 0.659 | 1 | 79966 | SCD5 |
| 0.083655082 | 0.626466155 | 0.64 | 1 | 145853 | C15orf61 |
| 0.083655082 | 0.626466155 | 0.648 | 1 | 259197 | NCR3 |
| 0.083397686 | 0.627532184 | 0.669 | 1 | 3084 | NRG1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.104184404 | 5.75703E-21 | 57524 | CASKIN1 |
| 0.104125157 | 6.05828E-21 | 54884 | RETSAT |
| 0.104115121 | 6.11091E-21 | 11330 | CTRC |
| 0.104084104 | 6.27616E-21 | 116511 | MAS1L |
| 0.104055315 | 6.4335E-21 | 23636 | NUP62 |
| 0.103981398 | 6.85572E-21 | 192134 | B3GNT6 |
| 0.103943139 | 7.08479E-21 | 6884 | TAF13 |
| 0.103923261 | 7.20686E-21 | 245939 | DEFB128 |
| 0.103912957 | 7.27097E-21 | 1081 | CGA |
| 0.1038967 | 7.37313E-21 | 127062 | OR2M3 |
| 0.10382928 | 7.81253E-21 | 23170 | TTLL12 |
| 0.10379789 | 8.02583E-21 | 23177 | CEP68 |
| 0.10374561 | 8.39392E-21 | 54947 | LPCAT2 |
| 0.103732981 | 8.48526E-21 | 51298 | THEG |
| 0.103725828 | 8.53748E-21 | 59336 | PRDM13 |
| 0.103705212 | 8.68976E-21 | 100130890 | LOC100130890 |
| 0.103665002 | 8.9944E-21 | 3002 | GZMB |
| 0.103644945 | 9.15039E-21 | 266629 | SEC14L3 |
| 0.103595167 | 9.54889E-21 | 60528 | ELAC2 |
| 0.103589408 | 9.59609E-21 | 390927 | ZNF793 |
| 0.1035804 | 9.6704E-21 | 79650 | C16orf57 |
| 0.103528209 | 1.01122E-20 | 337975 | KRTAP20-1 |
| 0.103453085 | 1.07834E-20 | 201254 | STRA13 |
| 0.103451319 | 1.07997E-20 | 55178 | RNMTL1 |
| 0.103437111 | 1.09317E-20 | 353141 | LCE2D |
| 0.103417978 | 1.11119E-20 | 54361 | WNT4 |
| 0.103409715 | 1.11908E-20 | 57332 | CBX8 |
| 0.103389747 | 1.13833E-20 | 2829 | XCR1 |
| 0.103245713 | 1.28734E-20 | 6406 | SEMG1 |
| 0.103204384 | 1.33354E-20 | 55324 | ABCF3 |
| 0.103131764 | 1.41874E-20 | 7259 | TSPYL1 |
| 0.103130743 | 1.41996E-20 | 440352 | SNX29P2 |
| 0.103117004 | 1.43671E-20 | 23406 | COTL1 |
| 0.103107154 | 1.44881E-20 | 93474 | ZNF670 |
| 0.103067778 | 1.49825E-20 | 153571 | C5orf38 |
| 0.10306713 | 1.49908E-20 | 3975 | LHX1 |
| 0.10306704 | 1.49918E-20 | 2854 | GPR32 |
| 0.103046611 | 1.52551E-20 | 125228 | C18orf19 |
| 0.103005193 | 1.58027E-20 | 7138 | TNNT1 |
| 0.102984481 | 1.60839E-20 | 115201 | ATG4A |
| 0.102958016 | 1.64503E-20 | 84771 | DDX11L2 |
| 0.10292384 | 1.69358E-20 | 80143 | SIKE1 |
| 0.102868117 | 1.77578E-20 | 100129726 | LOC100129726 |
| 0.102786772 | 1.90289E-20 | 65010 | SLC26A6 |
| 0.102664746 | 2.11064E-20 | 54854 | FAM83E |
| 0.102651559 | 2.13439E-20 | 139231 | CXorf39 |
| 0.102651089 | 2.13522E-20 | 337978 | KRTAP21-2 |
| 0.102609396 | 2.21212E-20 | 337968 | KRTAP6-3 |
| 0.102570392 | 2.28649E-20 | 374977 | C1orf175 |
| 0.102546528 | 2.33322E-20 | 10017 | BCL2L10 |
| 0.102490716 | 2.44624E-20 | 10465 | PPIH |
| 0.10248746 | 2.453E-20 | 80032 | ZNF556 |
| 0.102473348 | 2.48248E-20 | 80764 | THAP7 |
| 0.10246072 | 2.50918E-20 | 3489 | IGFBP6 |
| 0.102389857 | 2.66431E-20 | 4338 | MOCS2 |
| 0.102382615 | 2.6807E-20 | 2669 | GEM |
| 0.102369897 | 2.70972E-20 | 23466 | CBX6 |
| 0.102348626 | 2.75893E-20 | 4026 | LPP |
| 0.102205612 | 3.11351E-20 | 55660 | PRPF40A |
| 0.102117762 | 3.35327E-20 | 23471 | TRAM1 |
| 0.102113865 | 3.36434E-20 | 27159 | CHIA |
| 0.102110706 | 3.3733E-20 | 57605 | PITPNM2 |
| 0.102076717 | 3.47146E-20 | 1824 | DSC2 |
| 0.10206455 | 3.50727E-20 | 3884 | KRT33B |
| 0.102029264 | 3.61322E-20 | 84812 | PLCD4 |
| 0.10193073 | 3.92616E-20 | 386653 | IL31 |
| 0.101803042 | 4.37185E-20 | 94056 | SYAP1 |
| 0.101781219 | 4.45284E-20 | 11092 | C9orf9 |
| 0.101769976 | 4.49519E-20 | 9215 | LARGE |
| 0.101710267 | 4.72666E-20 | 80301 | PLEKHO2 |
| 0.101701446 | 4.76185E-20 | 116512 | MRGPRD |
| 0.101698749 | 4.77264E-20 | 1380 | CR2 |
| 0.101582669 | 5.26157E-20 | 55671 | SMEK1 |
| 0.101562329 | 5.35219E-20 | 23513 | SCRIB |
| 0.101535305 | 5.47498E-20 | 114336 | CGB2 |
| 0.101534009 | 5.48094E-20 | 100170841 | C17orf96 |
| 0.101518407 | 5.55317E-20 | 5266 | PI3 |
| 0.101492032 | 5.6774E-20 | 353131 | LCE1A |
| 0.101393409 | 6.16686E-20 | 56853 | BRUNOL4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.083397686 | 0.627532184 | 0.634 | 1 | 286527 | TMSB15B |
| 0.083397686 | 0.627532184 | 0.642 | 1 | 441502 | RPS26P11 |
| 0.083397686 | 0.627532184 | 0.647 | 1 | 493753 | C2orf64 |
| 0.083397686 | 0.627532184 | 0.666 | 1 | 653583 | PHLDB3 |
| 0.083140284 | 0.628598988 | 0.678 | 1 | 7265 | TTC1 |
| 0.083140284 | 0.628598988 | 0.654 | 1 | 9854 | C2CD2L |
| 0.083140284 | 0.628598988 | 0.67 | 1 | 25907 | TMEM158 |
| 0.083140284 | 0.628598988 | 0.653 | 1 | 26061 | HACL1 |
| 0.083140284 | 0.628598988 | 0.638 | 1 | 26575 | RSG17 |
| 0.083140284 | 0.628598988 | 0.66 | 1 | 29926 | GMPPA |
| 0.083140284 | 0.628598988 | 0.645 | 1 | 56889 | TM9SF3 |
| 0.083140284 | 0.628598988 | 0.653 | 1 | 56993 | TOMM22 |
| 0.083140284 | 0.628598988 | 0.636 | 1 | 79640 | Z83840.4 |
| 0.083140284 | 0.628598988 | 0.641 | 1 | 123775 | C16orf46 |
| 0.083140284 | 0.628598988 | 0.626 | 1 | 144486 | LOC144486 |
| 0.083140284 | 0.628598988 | 0.624 | 1 | 223082 | ZNRF2 |
| 0.082882881 | 0.629667103 | 0.673 | 1 | 1435 | CSF1 |
| 0.082882881 | 0.629667103 | 0.666 | 1 | 5664 | PSEN2 |
| 0.082882881 | 0.629667103 | 0.656 | 1 | 8438 | RAD54L |
| 0.082882881 | 0.629667103 | 0.652 | 1 | 8871 | SYNJ2 |
| 0.082882881 | 0.629667103 | 0.652 | 1 | 79648 | MCPH1 |
| 0.082882881 | 0.629667103 | 0.642 | 1 | 81855 | SFXN3 |
| 0.082882881 | 0.629667103 | 0.632 | 1 | 386617 | KCTD8 |
| 0.082625486 | 0.630735397 | 0.67 | 1 | 8878 | SQSTM1 |
| 0.082625486 | 0.630735397 | 0.669 | 1 | 9060 | PAPSS2 |
| 0.082625486 | 0.630735397 | 0.647 | 1 | 10811 | NOXA1 |
| 0.082625486 | 0.630735397 | 0.646 | 1 | 54460 | MRPS21 |
| 0.082625486 | 0.630735397 | 0.682 | 1 | 55795 | PCID2 |
| 0.082625486 | 0.630735397 | 0.652 | 1 | 85458 | DIXDC1 |
| 0.082625486 | 0.630735397 | 0.645 | 1 | 100169851 | PATE3 |
| 0.082368083 | 0.631804466 | 0.66 | 1 | 1802 | DPH2 |
| 0.082368083 | 0.631804466 | 0.646 | 1 | 8195 | MKKS |
| 0.082368083 | 0.631804466 | 0.66 | 1 | 8766 | RAB11A |
| 0.082368083 | 0.631804466 | 0.661 | 1 | 152404 | IGSF11 |
| 0.082110681 | 0.63287431 | 0.655 | 1 | 3044 | HBBP1 |
| 0.082110681 | 0.63287431 | 0.673 | 1 | 4547 | MTTP |
| 0.082110681 | 0.63287431 | 0.658 | 1 | 10102 | TSFM |
| 0.082110681 | 0.63287431 | 0.678 | 1 | 54458 | PRR13 |
| 0.082110681 | 0.63287431 | 0.652 | 1 | 90324 | CCDC97 |
| 0.082110681 | 0.63287431 | 0.66 | 1 | 90806 | ANGEL2 |
| 0.082110681 | 0.63287431 | 0.662 | 1 | 116449 | CLNK |
| 0.082110681 | 0.63287431 | 0.639 | 1 | 199746 | U2AF1L4 |
| 0.081853278 | 0.633945346 | 0.631 | 1 | 3175 | ONECUT1 |
| 0.081853278 | 0.633945346 | 0.666 | 1 | 7407 | VARS |
| 0.081853278 | 0.633945346 | 0.675 | 1 | 54487 | DGCR8 |
| 0.081853278 | 0.633945346 | 0.644 | 1 | 56252 | YLPM1 |
| 0.081595875 | 0.63501668 | 0.653 | 1 | 6727 | SRP14 |
| 0.081595875 | 0.63501668 | 0.678 | 1 | 10777 | ARPP-21 |
| 0.081595875 | 0.63501668 | 0.644 | 1 | 158866 | ZDHHC15 |
| 0.081595875 | 0.63501668 | 0.672 | 1 | 349075 | ZNF713 |
| 0.081595875 | 0.63501668 | 0.618 | 1 | 390201 | OR10V1 |
| 0.081595875 | 0.63501668 | 0.674 | 1 | 390326 | OR6C76 |
| 0.08133848 | 0.636088729 | 0.685 | 1 | 1852 | DUSP9 |
| 0.08133848 | 0.636088729 | 0.653 | 1 | 2527 | FUT5 |
| 0.08133848 | 0.636088729 | 0.638 | 1 | 11238 | CA5B |
| 0.08133848 | 0.636088729 | 0.648 | 1 | 79020 | C7orf25 |
| 0.08133848 | 0.636088729 | 0.665 | 1 | 84513 | PPAPDC1B |
| 0.08133848 | 0.636088729 | 0.663 | 1 | 642280 | ZNF876P |
| 0.081081077 | 0.637161493 | 0.67 | 1 | 1739 | DLG1 |
| 0.081081077 | 0.637161493 | 0.671 | 1 | 2862 | MLNR |
| 0.081081077 | 0.637161493 | 0.678 | 1 | 5356 | PLRG1 |
| 0.081081077 | 0.637161493 | 0.671 | 1 | 6224 | RPS20 |
| 0.081081077 | 0.637161493 | 0.679 | 1 | 23539 | SLC16A8 |
| 0.081081077 | 0.637161493 | 0.626 | 1 | 64783 | RBM15 |
| 0.081081077 | 0.637161493 | 0.648 | 1 | 118426 | LOH12CR1 |
| 0.080823682 | 0.638235033 | 0.675 | 1 | 539 | ATP5O |
| 0.080823682 | 0.638235033 | 0.668 | 1 | 51054 | PLEKHA9 |
| 0.080823682 | 0.638235033 | 0.666 | 1 | 51478 | HSD17B7 |
| 0.080823682 | 0.638235033 | 0.656 | 1 | 55778 | ZNF839 |
| 0.080823682 | 0.638235033 | 0.679 | 1 | 145978 | NCRNA00052 |
| 0.08056628 | 0.639309764 | 0.633 | 1 | 3906 | LALBA |
| 0.08056628 | 0.639309764 | 0.658 | 1 | 5309 | PITX3 |
| 0.08056628 | 0.639309764 | 0.687 | 1 | 55758 | RCOR3 |
| 0.08056628 | 0.639309764 | 0.657 | 1 | 440044 | SLC22A20 |
| 0.080308877 | 0.640384734 | 0.69 | 1 | 2703 | GJA8 |
| 0.080308877 | 0.640384734 | 0.639 | 1 | 8516 | ITGA8 |
| 0.080308877 | 0.640384734 | 0.688 | 1 | 100289230 | LOC100289230 |
| 0.080051482 | 0.641460419 | 0.682 | 1 | 2901 | GRIK5 |
| 0.080051482 | 0.641460419 | 0.674 | 1 | 5228 | PGF |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.101318836 | 6.56448E-20 | 63973 | NEUROG2 |
| 0.101318277 | 6.56751E-20 | 158931 | TCEAL6 |
| 0.101311684 | 6.60391E-20 | 9834 | KIAA0125 |
| 0.101307787 | 6.62551E-20 | 53840 | TRIM34 |
| 0.101106733 | 7.83914E-20 | 3788 | KCNS2 |
| 0.101096421 | 7.90696E-20 | 9726 | ZNF646 |
| 0.100986101 | 8.67018E-20 | 1869 | E2F1 |
| 0.100985356 | 8.67559E-20 | 7349 | UCN |
| 0.100982472 | 8.69645E-20 | 6836 | SURF4 |
| 0.10098201 | 8.69987E-20 | 85455 | DISP2 |
| 0.100790426 | 1.0207E-19 | 11228 | RASSF8 |
| 0.100765266 | 1.04231E-19 | 440050 | KRTAP5-7 |
| 0.100754678 | 1.05155E-19 | 57666 | FBRSL1 |
| 0.100725606 | 1.07732E-19 | 8193 | DPF1 |
| 0.100646861 | 1.15028E-19 | 11086 | ADAM29 |
| 0.100614265 | 1.1819E-19 | 390928 | AC011443.1 |
| 0.100552507 | 1.24417E-19 | 152137 | CCDC50 |
| 0.100548238 | 1.2486E-19 | 81579 | PLA2G12A |
| 0.100496322 | 1.30364E-19 | 100130967 | C6orf99 |
| 0.10049326 | 1.30696E-19 | 30837 | SOCS7 |
| 0.100409679 | 1.40089E-19 | 25831 | HECTD1 |
| 0.100384697 | 1.43023E-19 | 51066 | C3orf32 |
| 0.100373738 | 1.4433E-19 | 55718 | POLR3E |
| 0.100344948 | 1.4782E-19 | 146279 | TEKT5 |
| 0.100328051 | 1.49905E-19 | 23022 | PALLD |
| 0.100325078 | 1.50274E-19 | 27128 | CYTH4 |
| 0.100249857 | 1.59944E-19 | 100128124 | HGC6.3 |
| 0.100061156 | 1.8699E-19 | 219960 | OR10Q1 |
| 0.100038864 | 1.90469E-19 | 5250 | SLC25A3 |
| 0.10000135 | 1.96469E-19 | 9079 | LDB2 |
| 0.099972002 | 2.01295E-19 | 2567 | GABRG3 |
| 0.099959746 | 2.03343E-19 | 7324 | UBE2E1 |
| 0.099956587 | 2.03874E-19 | 119692 | OR51S1 |
| 0.099946 | 2.05665E-19 | 55686 | MREG |
| 0.099889167 | 2.15549E-19 | 399664 | MEX3D |
| 0.099882662 | 2.16709E-19 | 5600 | MAPK11 |
| 0.099858336 | 2.21108E-19 | 10103 | TSPAN1 |
| 0.099857591 | 2.21244E-19 | 27071 | DAPP1 |
| 0.099784136 | 2.35068E-19 | 170082 | TCEANC |
| 0.09968207 | 2.55705E-19 | 284654 | RSPO1 |
| 0.099676684 | 2.56843E-19 | 796 | CALCA |
| 0.099665448 | 2.59231E-19 | 5192 | PEX10 |
| 0.09965802 | 2.60822E-19 | 256643 | CXorf23 |
| 0.099587724 | 2.76365E-19 | 3956 | LGALS1 |
| 0.099534042 | 2.88851E-19 | 951 | CD37 |
| 0.099532649 | 2.89181E-19 | 4762 | NEUROG1 |
| 0.099531077 | 2.89554E-19 | 23120 | ATP10B |
| 0.099400595 | 3.22347E-19 | 92421 | CHMP4C |
| 0.099346176 | 3.37087E-19 | 65258 | MPPE1 |
| 0.099228419 | 3.71292E-19 | 7379 | UPK2 |
| 0.09919063 | 3.8298E-19 | 23165 | NUP205 |
| 0.099169642 | 3.89627E-19 | 79091 | C16orf68 |
| 0.099118561 | 4.06284E-19 | 390980 | ZNF805 |
| 0.099102221 | 4.1176E-19 | 10277 | UBE4B |
| 0.099101849 | 4.11884E-19 | 5437 | POLR2H |
| 0.099100173 | 4.12452E-19 | 493753 | C2orf64 |
| 0.099077329 | 4.20241E-19 | 8824 | CES2 |
| 0.09904696 | 4.30824E-19 | 7132 | TNFRSF1A |
| 0.099018827 | 4.4086E-19 | 10659 | CUGBP2 |
| 0.098994307 | 4.49798E-19 | 10280 | SIGMAR1 |
| 0.098992825 | 4.50345E-19 | 374654 | KIF7 |
| 0.098991521 | 4.50825E-19 | 253832 | ZDHHC20 |
| 0.09898781 | 4.52197E-19 | 7809 | BSND |
| 0.09889067 | 4.89589E-19 | 100134229 | LOC100134229 |
| 0.098873399 | 4.96551E-19 | 3055 | HCK |
| 0.098850548 | 5.05911E-19 | 84240 | ZCCHC9 |
| 0.098797619 | 5.28263E-19 | 4869 | NPM1 |
| 0.09878666 | 5.33014E-19 | 84214 | RP13-254B10.1 |
| 0.098679774 | 5.81608E-19 | 10984 | KCNQ1OT1 |
| 0.098662034 | 5.90083E-19 | 6046 | BRD2 |
| 0.098615229 | 6.13038E-19 | 50939 | IMPG2 |
| 0.098590709 | 6.25414E-19 | 51667 | NUB1 |
| 0.098587275 | 6.27169E-19 | 51526 | C20orf111 |
| 0.098556906 | 6.42877E-19 | 55454 | CSGALNACT2 |
| 0.098556168 | 6.43268E-19 | 147339 | C18orf25 |
| 0.09845791 | 6.96856E-19 | 79966 | SCD5 |
| 0.09841761 | 7.20087E-19 | 10138 | YAF2 |
| 0.098261036 | 8.17837E-19 | 5316 | PKNOX1 |
| 0.098205693 | 8.55435E-19 | 4342 | MOS |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.080051482 | 0.641460419 | 0.645 | 1 | 55605 | KIF21A |
| 0.080051482 | 0.641460419 | 0.685 | 1 | 117583 | PARD3B |
| 0.080051482 | 0.641460419 | 0.65 | 1 | 259232 | NALCN |
| 0.080051482 | 0.641460419 | 0.687 | 1 | 400752 | LOC400752 |
| 0.079794079 | 0.642536819 | 0.665 | 1 | 2139 | EYA2 |
| 0.079794079 | 0.642536819 | 0.665 | 1 | 23359 | FAM189A1 |
| 0.079794079 | 0.642536819 | 0.674 | 1 | 23585 | TMEM50A |
| 0.079794079 | 0.642536819 | 0.672 | 1 | 51248 | PDZD11 |
| 0.079794079 | 0.642536819 | 0.655 | 1 | 60684 | C4orf41 |
| 0.079794079 | 0.642536819 | 0.673 | 1 | 84448 | ABLIM2 |
| 0.079794079 | 0.642536819 | 0.668 | 1 | 113278 | C20orf54 |
| 0.079794079 | 0.642536819 | 0.667 | 1 | 202243 | CCDC125 |
| 0.079536684 | 0.643614531 | 0.687 | 1 | 3074 | HEXB |
| 0.079536684 | 0.643614531 | 0.681 | 1 | 58478 | ENOPH1 |
| 0.079536684 | 0.643614531 | 0.699 | 1 | 64081 | PBLD |
| 0.079536684 | 0.643614531 | 0.68 | 1 | 124961 | ZFP3 |
| 0.079536684 | 0.643614531 | 0.664 | 1 | 391358 | TRMT112P6 |
| 0.079279281 | 0.644692421 | 0.663 | 1 | 3097 | HIVEP2 |
| 0.079279281 | 0.644692421 | 0.653 | 1 | 6222 | RPS18 |
| 0.079279281 | 0.644692421 | 0.675 | 1 | 29887 | SNX10 |
| 0.079021879 | 0.645771027 | 0.662 | 1 | 2893 | GRIA4 |
| 0.079021879 | 0.645771027 | 0.659 | 1 | 5197 | PF4V1 |
| 0.079021879 | 0.645771027 | 0.661 | 1 | 56521 | DNAJC12 |
| 0.079021879 | 0.645771027 | 0.669 | 1 | 78998 | C8ORF51 |
| 0.079021879 | 0.645771027 | 0.681 | 1 | 79877 | DCAKD |
| 0.078764483 | 0.646850407 | 0.668 | 1 | 1147 | CHUK |
| 0.078764483 | 0.646850407 | 0.674 | 1 | 7905 | REEP5 |
| 0.078764483 | 0.646850407 | 0.69 | 1 | 8560 | DEGS1 |
| 0.078764483 | 0.646850407 | 0.674 | 1 | 23175 | LPIN1 |
| 0.078764483 | 0.646850407 | 0.692 | 1 | 81537 | SGPP1 |
| 0.078507073 | 0.64793098 | 0.671 | 1 | 3735 | KARS |
| 0.078507073 | 0.64793098 | 0.672 | 1 | 10097 | ACTR2 |
| 0.078507073 | 0.64793098 | 0.663 | 1 | 51042 | ZNF593 |
| 0.078507073 | 0.64793098 | 0.679 | 1 | 51163 | DBR1 |
| 0.078507073 | 0.64793098 | 0.669 | 1 | 55713 | ZNF334 |
| 0.078507073 | 0.64793098 | 0.682 | 1 | 84260 | TCHP |
| 0.078507073 | 0.64793098 | 0.661 | 1 | 131076 | CCDC58 |
| 0.078507073 | 0.64793098 | 0.673 | 1 | 392188 | USP17L8 |
| 0.078249671 | 0.649011731 | 0.659 | 1 | 6650 | SOLH |
| 0.078249671 | 0.649011731 | 0.698 | 1 | 9836 | LCMT2 |
| 0.078249671 | 0.649011731 | 0.679 | 1 | 10406 | WFDC2 |
| 0.078249671 | 0.649011731 | 0.673 | 1 | 79188 | TMEM43 |
| 0.078249671 | 0.649011731 | 0.699 | 1 | 94005 | PIGS |
| 0.078249671 | 0.649011731 | 0.669 | 1 | 115650 | TNFRSF13C |
| 0.078249671 | 0.649011731 | 0.695 | 1 | 221060 | C10orf111 |
| 0.077992275 | 0.650093257 | 0.664 | 1 | 2805 | GOT1 |
| 0.077992275 | 0.650093257 | 0.672 | 1 | 6261 | RYR1 |
| 0.077992275 | 0.650093257 | 0.7 | 1 | 7741 | ZNF187 |
| 0.077992275 | 0.650093257 | 0.672 | 1 | 54812 | AFTPH |
| 0.077992275 | 0.650093257 | 0.668 | 1 | 55811 | ADCY10 |
| 0.077992275 | 0.650093257 | 0.681 | 1 | 57826 | RAP2C |
| 0.077992275 | 0.650093257 | 0.687 | 1 | 147912 | SIX5 |
| 0.077992275 | 0.650093257 | 0.67 | 1 | 401494 | PTPLAD2 |
| 0.077992275 | 0.650093257 | 0.671 | 1 | 442425 | FOXB2 |
| 0.077734873 | 0.651175439 | 0.682 | 1 | 8329 | HIST1H2AI |
| 0.077734873 | 0.651175439 | 0.677 | 1 | 10960 | LMAN2 |
| 0.077734873 | 0.651175439 | 0.69 | 1 | 22926 | ATF6 |
| 0.077734873 | 0.651175439 | 0.679 | 1 | 55930 | MYO5C |
| 0.077734873 | 0.651175439 | 0.702 | 1 | 57168 | ASPHD2 |
| 0.077734873 | 0.651175439 | 0.665 | 1 | 64770 | CCDC14 |
| 0.077734873 | 0.651175439 | 0.663 | 1 | 80142 | PTGES2 |
| 0.077734873 | 0.651175439 | 0.667 | 1 | 392490 | FLJ44635 |
| 0.077477477 | 0.652258277 | 0.669 | 1 | 5799 | PTPRN2 |
| 0.077477477 | 0.652258277 | 0.694 | 1 | 8360 | HIST1H4D |
| 0.077477477 | 0.652258277 | 0.673 | 1 | 152002 | C3orf21 |
| 0.077477477 | 0.652258277 | 0.679 | 1 | 168090 | C6orf118 |
| 0.077477477 | 0.652258277 | 0.643 | 1 | 390928 | AC011443.1 |
| 0.077220075 | 0.653342485 | 0.686 | 1 | 5558 | PRIM2 |
| 0.077220075 | 0.653342485 | 0.699 | 1 | 6139 | RPL17P20 |
| 0.077220075 | 0.653342485 | 0.675 | 1 | 84694 | GJA10 |
| 0.076962672 | 0.654426754 | 0.694 | 1 | 1848 | DUSP6 |
| 0.076962672 | 0.654426754 | 0.671 | 1 | 7405 | UVRAG |
| 0.076962672 | 0.654426754 | 0.673 | 1 | 50632 | CALY |
| 0.076962672 | 0.654426754 | 0.688 | 1 | 201294 | UNC13D |
| 0.076962672 | 0.654426754 | 0.696 | 1 | 285741 | LOC285741 |
| 0.076962672 | 0.654426754 | 0.691 | 1 | 390594 | AC013553.2 |
| 0.076962672 | 0.654426754 | 0.684 | 1 | 644762 | LOC644762 |
| 0.076705277 | 0.655511796 | 0.687 | 1 | 1134 | CHRNA1 |
| 0.076705277 | 0.655511796 | 0.682 | 1 | 8607 | RUVBL1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.098196313 | 8.6197E-19 | 25895 | FAM119B |
| 0.098194264 | 8.63405E-19 | 222484 | LNX2 |
| 0.098119602 | 9.17332E-19 | 9529 | BAG5 |
| 0.098081157 | 9.46379E-19 | 55691 | FRMD4A |
| 0.098061189 | 9.6182E-19 | 134637 | ADAT2 |
| 0.098050043 | 9.70557E-19 | 378 | ARF4 |
| 0.098040201 | 9.78333E-19 | 54682 | MANSC1 |
| 0.098037414 | 9.80539E-19 | 388327 | C17orf100 |
| 0.098030269 | 9.86232E-19 | 65980 | BRD9 |
| 0.098012529 | 1.00052E-18 | 1460 | CSNK2B |
| 0.097997576 | 1.01272E-18 | 6769 | STAC |
| 0.097960152 | 1.04388E-18 | 10139 | ARFRP1 |
| 0.097953282 | 1.0497E-18 | 84280 | BTBD10 |
| 0.097915299 | 1.08248E-18 | 55728 | N4BP2 |
| 0.097907685 | 1.08917E-18 | 139760 | GPR119 |
| 0.097885676 | 1.10875E-18 | 79290 | OR13A1 |
| 0.09762416 | 1.36969E-18 | 203522 | DDX26B |
| 0.097619802 | 1.37451E-18 | 154 | ADRB2 |
| 0.097599924 | 1.39673E-18 | 348487 | FAM131C |
| 0.09759324 | 1.40429E-18 | 9467 | SH3BP5 |
| 0.097584046 | 1.41475E-18 | 683 | BST1 |
| 0.097575501 | 1.42453E-18 | 25800 | SLC39A6 |
| 0.097575128 | 1.42496E-18 | 389791 | LOC389791 |
| 0.097558603 | 1.44408E-18 | 149041 | RC3H1 |
| 0.097511798 | 1.49962E-18 | 116496 | FAM129A |
| 0.097492479 | 1.52316E-18 | 10476 | ATP5H |
| 0.097483195 | 1.5346E-18 | 641455 | AL589182.2 |
| 0.097460903 | 1.56242E-18 | 79626 | TNFAIP8L2 |
| 0.097449943 | 1.57627E-18 | 6534 | SLC6A7 |
| 0.097432584 | 1.59846E-18 | 1431 | CS |
| 0.097375281 | 1.67396E-18 | 25824 | PRDX5 |
| 0.097354107 | 1.70273E-18 | 65982 | ZSCAN18 |
| 0.097309902 | 1.76439E-18 | 9690 | UBE3C |
| 0.097281024 | 1.80584E-18 | 2713 | GK3P |
| 0.097227998 | 1.8845E-18 | 10024 | TROAP |
| 0.097202182 | 1.92402E-18 | 7741 | ZNF187 |
| 0.097115353 | 2.06301E-18 | 9912 | AC005277.1 |
| 0.097027592 | 2.21355E-18 | 10097 | ACTR2 |
| 0.096998058 | 2.26659E-18 | 114781 | BTBD9 |
| 0.096987195 | 2.28643E-18 | 2593 | GAMT |
| 0.096972056 | 2.31434E-18 | 56935 | C11orf75 |
| 0.096972056 | 2.31434E-18 | 221527 | ZBTB12 |
| 0.096942157 | 2.37049E-18 | 79752 | ZFAND1 |
| 0.09693519 | 2.38376E-18 | 27102 | EIF2AK1 |
| 0.096885696 | 2.4802E-18 | 57673 | BEND3 |
| 0.096871853 | 2.50782E-18 | 80232 | WDR26 |
| 0.096856065 | 2.53974E-18 | 5691 | PSMB3 |
| 0.096782424 | 2.69398E-18 | 140886 | PABPC5 |
| 0.096736178 | 2.79549E-18 | 6770 | STAR |
| 0.096687332 | 2.90685E-18 | 348793 | WDR53 |
| 0.096655756 | 2.98112E-18 | 6098 | ROS1 |
| 0.096621491 | 3.06386E-18 | 286101 | ZNF252P |
| 0.096579142 | 3.16927E-18 | 25960 | GPR124 |
| 0.096575059 | 3.17961E-18 | 2026 | ENO2 |
| 0.096567161 | 3.19971E-18 | 79772 | MCTP1 |
| 0.096548215 | 3.24848E-18 | 90231 | KIAA2013 |
| 0.096470952 | 3.45506E-18 | 26018 | LRIG1 |
| 0.096385978 | 3.69724E-18 | 79155 | TNIP2 |
| 0.096367128 | 3.75317E-18 | 55954 | ZMAT5 |
| 0.096333049 | 3.85647E-18 | 9605 | C16orf7 |
| 0.096314289 | 3.91451E-18 | 84734 | FAM167B |
| 0.096266463 | 4.06642E-18 | 1314 | COPA |
| 0.096245661 | 4.13435E-18 | 23650 | TRIM29 |
| 0.096225232 | 4.20207E-18 | 197320 | ZNF778 |
| 0.096194588 | 4.30575E-18 | 440503 | AC011498.2 |
| 0.096074976 | 4.7352E-18 | 411 | ARSB |
| 0.096059375 | 4.79425E-18 | 11033 | ADAP1 |
| 0.095956102 | 5.20384E-18 | 117286 | CIB3 |
| 0.095938735 | 5.27601E-18 | 285051 | C2orf61 |
| 0.095912829 | 5.38554E-18 | 84895 | FAM73B |
| 0.095880605 | 5.52491E-18 | 728882 | FAM182B |
| 0.095846154 | 5.67787E-18 | 8934 | RAB7L1 |
| 0.095842622 | 5.69378E-18 | 203197 | C9orf91 |
| 0.095821261 | 5.79095E-18 | 6346 | CCL1 |
| 0.095712885 | 6.30983E-18 | 6451 | SH3BGRL |
| 0.09570732 | 6.33773E-18 | 5727 | PTCH1 |
| 0.095702484 | 6.362E-18 | 116 | ADCYAP1 |
| 0.095694967 | 6.39991E-18 | 8450 | CUL4B |
| 0.095693015 | 6.40983E-18 | 151194 | FAM119A |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.076705277 | 0.655511796 | 0.662 | 1 | 10880 | ACTL7B |
| 0.076705277 | 0.655511796 | 0.666 | 1 | 11275 | KLHL2 |
| 0.076705277 | 0.655511796 | 0.676 | 1 | 64795 | RMND5A |
| 0.076705277 | 0.655511796 | 0.662 | 1 | 84968 | PNMA6A |
| 0.076705277 | 0.655511796 | 0.678 | 1 | 388199 | AL023882.1 |
| 0.076705277 | 0.655511796 | 0.67 | 1 | 440955 | TMEM89 |
| 0.076447874 | 0.656597495 | 0.66 | 1 | 4606 | MYBPC2 |
| 0.076447874 | 0.656597495 | 0.698 | 1 | 4994 | OR3A1 |
| 0.076447874 | 0.656597495 | 0.669 | 1 | 6372 | CXCL6 |
| 0.076447874 | 0.656597495 | 0.692 | 1 | 84823 | LMNB2 |
| 0.076190479 | 0.657684445 | 0.66 | 1 | 5510 | PPP1R7 |
| 0.076190479 | 0.657684445 | 0.69 | 1 | 9616 | RNF7 |
| 0.076190479 | 0.657684445 | 0.68 | 1 | 26240 | FAM50B |
| 0.076190479 | 0.657684445 | 0.681 | 1 | 51430 | C1orf9 |
| 0.076190479 | 0.657684445 | 0.695 | 1 | 84688 | C9orf24 |
| 0.075933076 | 0.658771634 | 0.674 | 1 | 6138 | RPL15 |
| 0.075933076 | 0.658771634 | 0.696 | 1 | 10131 | TRAP1 |
| 0.075933076 | 0.658771634 | 0.654 | 1 | 51635 | DHRS7 |
| 0.075933076 | 0.658771634 | 0.673 | 1 | 54877 | ZCCHC2 |
| 0.075933076 | 0.658771634 | 0.681 | 1 | 440184 | LINC00238 |
| 0.075675674 | 0.659859419 | 0.678 | 1 | 5052 | PRDX1 |
| 0.075675674 | 0.659859419 | 0.698 | 1 | 79643 | CHMP6 |
| 0.075675674 | 0.659859419 | 0.676 | 1 | 643853 | TMPPE |
| 0.075418279 | 0.660948038 | 0.697 | 1 | 5511 | PPP1R8 |
| 0.075418279 | 0.660948038 | 0.705 | 1 | 26051 | PPP1R16B |
| 0.075418279 | 0.660948038 | 0.681 | 1 | 51550 | AL137229.4 |
| 0.075418279 | 0.660948038 | 0.678 | 1 | 79607 | FAM118B |
| 0.075418279 | 0.660948038 | 0.702 | 1 | 79981 | FRMD1 |
| 0.075160868 | 0.662037253 | 0.711 | 1 | 351 | APP |
| 0.075160868 | 0.662037253 | 0.689 | 1 | 3576 | IL8 |
| 0.075160868 | 0.662037253 | 0.672 | 1 | 4329 | ALDH6A1 |
| 0.075160868 | 0.662037253 | 0.711 | 1 | 5651 | PRSS7 |
| 0.075160868 | 0.662037253 | 0.672 | 1 | 9681 | DEPDC5 |
| 0.075160868 | 0.662037253 | 0.702 | 1 | 10241 | CALCOCO2 |
| 0.075160868 | 0.662037253 | 0.72 | 1 | 30010 | NXPH1 |
| 0.075160868 | 0.662037253 | 0.697 | 1 | 55186 | SLC25A36 |
| 0.075160868 | 0.662037253 | 0.693 | 1 | 64222 | TOR3A |
| 0.075160868 | 0.662037253 | 0.707 | 1 | 284912 | LOC284912 |
| 0.074903473 | 0.663127661 | 0.694 | 1 | 51187 | RSL24D1 |
| 0.074903473 | 0.663127661 | 0.702 | 1 | 140706 | C20orf160 |
| 0.074903473 | 0.663127661 | 0.712 | 1 | 157807 | RLBP1L1 |
| 0.074903473 | 0.663127661 | 0.678 | 1 | 100272147 | MTCP1NB |
| 0.074646071 | 0.664218247 | 0.652 | 1 | 314 | AOC2 |
| 0.074646071 | 0.664218247 | 0.692 | 1 | 5034 | P4HB |
| 0.074646071 | 0.664218247 | 0.676 | 1 | 6612 | SUMO3 |
| 0.074646071 | 0.664218247 | 0.701 | 1 | 7941 | PLA2G7 |
| 0.074646071 | 0.664218247 | 0.684 | 1 | 9903 | KLHL21 |
| 0.074646071 | 0.664218247 | 0.68 | 1 | 10199 | MPHOSPH10 |
| 0.074646071 | 0.664218247 | 0.693 | 1 | 54097 | FAM3B |
| 0.074646071 | 0.664218247 | 0.681 | 1 | 54870 | QRICH1 |
| 0.074388668 | 0.665309548 | 0.68 | 1 | 7776 | ZNF236 |
| 0.074388668 | 0.665309548 | 0.693 | 1 | 79774 | GRTP1 |
| 0.074388668 | 0.665309548 | 0.702 | 1 | 152110 | NEK10 |
| 0.074388668 | 0.665309548 | 0.681 | 1 | 166785 | MMAA |
| 0.074388668 | 0.665309548 | 0.672 | 1 | 203259 | C9orf25 |
| 0.074388668 | 0.665309548 | 0.664 | 1 | 100129478 | LOC100129478 |
| 0.074131273 | 0.666401565 | 0.714 | 1 | 6572 | SLC18A3 |
| 0.074131273 | 0.666401565 | 0.701 | 1 | 7150 | TOP1 |
| 0.074131273 | 0.666401565 | 0.688 | 1 | 83861 | RSPH3 |
| 0.074131273 | 0.666401565 | 0.714 | 1 | 149069 | DCDC2B |
| 0.074131273 | 0.666401565 | 0.7 | 1 | 337879 | KRTAP8-1 |
| 0.074131273 | 0.666401565 | 0.704 | 1 | 441478 | NRARP |
| 0.07387387 | 0.667494774 | 0.695 | 1 | 708 | C1QBP |
| 0.07387387 | 0.667494774 | 0.699 | 1 | 4247 | MGAT2 |
| 0.07387387 | 0.667494774 | 0.682 | 1 | 4811 | NID1 |
| 0.07387387 | 0.667494774 | 0.696 | 1 | 91893 | FDXACB1 |
| 0.073616475 | 0.668588102 | 0.706 | 1 | 5439 | POLR2J |
| 0.073616475 | 0.668588102 | 0.683 | 1 | 7114 | TMSB4X |
| 0.073359072 | 0.669682086 | 0.706 | 1 | 30846 | EHD2 |
| 0.073359072 | 0.669682086 | 0.672 | 1 | 57139 | RGL3 |
| 0.073359072 | 0.669682086 | 0.681 | 1 | 57456 | KIAA1143 |
| 0.073359072 | 0.669682086 | 0.703 | 1 | 80128 | TRIM46 |
| 0.073359072 | 0.669682086 | 0.7 | 1 | 118881 | COMTD1 |
| 0.073359072 | 0.669682086 | 0.677 | 1 | 728045 | PPBPP1 |
| 0.07310167 | 0.670776844 | 0.713 | 1 | 59341 | TRPV4 |
| 0.07310167 | 0.670776844 | 0.735 | 1 | 85363 | TRIM5 |
| 0.07310167 | 0.670776844 | 0.696 | 1 | 162073 | ITPRIPL2 |
| 0.072844274 | 0.671872735 | 0.711 | 1 | 9276 | COPB2 |
| 0.072844274 | 0.671872735 | 0.73 | 1 | 60314 | C12orf10 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.095648348 | 6.64038E-18 | 218 | ALDH3A1 |
| 0.095618255 | 6.80022E-18 | 83479 | DDX59 |
| 0.095580928 | 7.00387E-18 | 6557 | SLC12A1 |
| 0.095541365 | 7.22627E-18 | 5272 | SERPINB9 |
| 0.095499948 | 7.46662E-18 | 389123 | IQCF2 |
| 0.09546949 | 7.6483E-18 | 23352 | UBR4 |
| 0.095452771 | 7.74988E-18 | 51368 | TEX264 |
| 0.095398165 | 8.09114E-18 | 56647 | BCCIP |
| 0.095387951 | 8.15655E-18 | 57092 | PCNP |
| 0.095273539 | 8.9263E-18 | 10887 | PROKR1 |
| 0.095263138 | 8.9997E-18 | 9733 | SART3 |
| 0.095213644 | 9.35748E-18 | 113622 | ADPRHL1 |
| 0.095193021 | 9.51054E-18 | 26354 | GNL3 |
| 0.095156439 | 9.78843E-18 | 51337 | C8orf55 |
| 0.095113717 | 1.0123E-17 | 25975 | EGFL6 |
| 0.095105171 | 1.01912E-17 | 117608 | ZNF354B |
| 0.095072389 | 1.04573E-17 | 160728 | SLC5A8 |
| 0.095060878 | 1.05523E-17 | 56999 | ADAMTS9 |
| 0.095025122 | 1.0853E-17 | 100130717 | CECR5-AS1 |
| 0.094963364 | 1.13925E-17 | 9143 | SYNGR3 |
| 0.094956867 | 1.14507E-17 | 6835 | SURF2 |
| 0.094934024 | 1.1658E-17 | 27175 | TUBG2 |
| 0.094912939 | 1.18525E-17 | 3945 | LDHB |
| 0.094899848 | 1.19748E-17 | 441631 | TSPAN11 |
| 0.094897151 | 1.20003E-17 | 285696 | AC091878.1 |
| 0.094813757 | 1.28114E-17 | 80254 | CEP63 |
| 0.094793141 | 1.30202E-17 | 10148 | EBI3 |
| 0.094749406 | 1.34741E-17 | 7099 | TLR4 |
| 0.094681241 | 1.42129E-17 | 285074 | AC125232.1 |
| 0.094679937 | 1.42275E-17 | 23176 | SEPTIN8 |
| 0.094655141 | 1.45064E-17 | 169792 | GLIS3 |
| 0.094633788 | 1.47507E-17 | 340205 | TREML1 |
| 0.094611593 | 1.50092E-17 | 10559 | SLC35A1 |
| 0.094510831 | 1.62396E-17 | 249 | ALPL |
| 0.094485015 | 1.65706E-17 | 222894 | FERD3L |
| 0.094471455 | 1.6747E-17 | 3626 | INHBC |
| 0.094450466 | 1.70237E-17 | 79783 | C7orf10 |
| 0.094363637 | 1.82177E-17 | 93979 | CPA5 |
| 0.094349056 | 1.84261E-17 | 90187 | EMILIN3 |
| 0.094316185 | 1.89047E-17 | 255031 | FLJ35390 |
| 0.094278477 | 1.94687E-17 | 6928 | HNF1B |
| 0.094266497 | 1.96516E-17 | 283683 | LOC283683 |
| 0.094229817 | 2.02214E-17 | 245937 | DEFB124 |
| 0.094226755 | 2.02696E-17 | 84699 | CREB3L3 |
| 0.094147071 | 2.15674E-17 | 143872 | AP000872.1 |
| 0.09397722 | 2.46137E-17 | 10289 | EIF1B |
| 0.093920574 | 2.57212E-17 | 389541 | C7orf59 |
| 0.093891881 | 2.63007E-17 | 139341 | FUNDC1 |
| 0.093887053 | 2.63994E-17 | 55917 | CTTNBP2NL |
| 0.093872838 | 2.66923E-17 | 3853 | KRT6A |
| 0.093844607 | 2.72837E-17 | 2997 | GYS1 |
| 0.093843587 | 2.73052E-17 | 197187 | MGC23284 |
| 0.093778767 | 2.87134E-17 | 23710 | GABARAPL1 |
| 0.093730666 | 2.98046E-17 | 219986 | OR4D11 |
| 0.093718588 | 3.00847E-17 | 84319 | C3orf26 |
| 0.0936286 | 3.22568E-17 | 338917 | VSX2 |
| 0.093597956 | 3.30311E-17 | 390705 | LOC390705 |
| 0.093544185 | 3.44345E-17 | 353133 | LCE1C |
| 0.093523107 | 3.50005E-17 | 27315 | PGAP2 |
| 0.093480393 | 3.61754E-17 | 2357 | FPR1 |
| 0.093460053 | 3.67489E-17 | 25950 | RWDD3 |
| 0.093447976 | 3.70936E-17 | 7405 | UVRAG |
| 0.093420304 | 3.78952E-17 | 5033 | P4HA1 |
| 0.093417704 | 3.79713E-17 | 22823 | MTF2 |
| 0.093379721 | 3.91019E-17 | 24138 | IFIT5 |
| 0.093355112 | 3.98517E-17 | 9601 | PDIA4 |
| 0.093337655 | 4.03925E-17 | 11316 | COPE |
| 0.093306355 | 4.13804E-17 | 3376 | IARS |
| 0.09325593 | 4.30218E-17 | 759 | CA1 |
| 0.09316697 | 4.60751E-17 | 645832 | SEBOX |
| 0.093089148 | 4.89213E-17 | 644139 | PIRT |
| 0.093057945 | 5.01106E-17 | 493829 | TRIM72 |
| 0.093031757 | 5.11305E-17 | 7148 | TNXB |
| 0.092996836 | 5.25229E-17 | 23175 | LPIN1 |
| 0.092878714 | 5.75144E-17 | 79869 | CPSF7 |
| 0.092866734 | 5.8046E-17 | 400657 | LOC400657 |
| 0.092862368 | 5.8241E-17 | 389831 | LOC389831 |
| 0.092779905 | 6.20467E-17 | 7576 | ZNF28 |
| 0.092730589 | 6.44394E-17 | 374378 | GALNTL4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.072844274 | 0.671872735 | 0.689 | 1 | 84547 | PGBD1 |
| 0.072844274 | 0.671872735 | 0.696 | 1 | 388939 | C2orf71 |
| 0.072844274 | 0.671872735 | 0.702 | 1 | 728047 | AC135983.8 |
| 0.072586872 | 0.672968805 | 0.696 | 1 | 3416 | IDE |
| 0.072586872 | 0.672968805 | 0.699 | 1 | 4436 | MSH2 |
| 0.072586872 | 0.672968805 | 0.703 | 1 | 8996 | NOL3 |
| 0.072586872 | 0.672968805 | 0.682 | 1 | 11259 | FILIP1L |
| 0.072586872 | 0.672968805 | 0.724 | 1 | 114823 | LENG8 |
| 0.072329476 | 0.67406553 | 0.711 | 1 | 5869 | RAB5B |
| 0.072329476 | 0.67406553 | 0.711 | 1 | 55052 | MRPL20 |
| 0.072329476 | 0.67406553 | 0.71 | 1 | 100128775 | LOC100128775 |
| 0.072072074 | 0.675162971 | 0.661 | 1 | 6272 | SORT1 |
| 0.072072074 | 0.675162971 | 0.686 | 1 | 7321 | UBE2D1 |
| 0.072072074 | 0.675162971 | 0.712 | 1 | 51513 | ETV7 |
| 0.072072074 | 0.675162971 | 0.728 | 1 | 79135 | APOO |
| 0.072072074 | 0.675162971 | 0.705 | 1 | 84317 | CCDC115 |
| 0.072072074 | 0.675162971 | 0.695 | 1 | 128872 | HMGB3P1 |
| 0.071814671 | 0.676261008 | 0.707 | 1 | 3131 | HLF |
| 0.071814671 | 0.676261008 | 0.699 | 1 | 3146 | HMGB1 |
| 0.071814671 | 0.676261008 | 0.701 | 1 | 8368 | HIST1H4L |
| 0.071814671 | 0.676261008 | 0.7 | 1 | 221481 | C6orf81 |
| 0.071814671 | 0.676261008 | 0.685 | 1 | 730268 | LOC730268 |
| 0.071557269 | 0.677360237 | 0.693 | 1 | 2826 | CCR10 |
| 0.071557269 | 0.677360237 | 0.725 | 1 | 3352 | HTR1D |
| 0.071557269 | 0.677360237 | 0.7 | 1 | 3948 | LDHC |
| 0.071557269 | 0.677360237 | 0.683 | 1 | 5300 | PIN1 |
| 0.071557269 | 0.677360237 | 0.708 | 1 | 10111 | RAD50 |
| 0.071557269 | 0.677360237 | 0.689 | 1 | 10261 | IGSF6 |
| 0.071557269 | 0.677360237 | 0.722 | 1 | 54550 | NECAB2 |
| 0.071557269 | 0.677360237 | 0.702 | 1 | 133688 | UGT3A1 |
| 0.071299866 | 0.678459704 | 0.721 | 1 | 1174 | AP1S1 |
| 0.071299866 | 0.678459704 | 0.707 | 1 | 1810 | DR1 |
| 0.071299866 | 0.678459704 | 0.71 | 1 | 4888 | NPY6R |
| 0.071299866 | 0.678459704 | 0.722 | 1 | 28976 | ACAD9 |
| 0.071042471 | 0.679559708 | 0.702 | 1 | 1081 | CGA |
| 0.071042471 | 0.679559708 | 0.715 | 1 | 7419 | VDAC3 |
| 0.071042471 | 0.679559708 | 0.685 | 1 | 92521 | CYTSB |
| 0.071042471 | 0.679559708 | 0.698 | 1 | 440354 | AC009086.2 |
| 0.070785068 | 0.680660427 | 0.71 | 1 | 55809 | TRERF1 |
| 0.070527665 | 0.681762338 | 0.679 | 1 | 1269 | CNR2 |
| 0.070527665 | 0.681762338 | 0.703 | 1 | 3728 | JUP |
| 0.070527665 | 0.681762338 | 0.713 | 1 | 4001 | LMNB1 |
| 0.070527665 | 0.681762338 | 0.71 | 1 | 7097 | TLR2 |
| 0.070527665 | 0.681762338 | 0.695 | 1 | 57476 | GRAMD1B |
| 0.070527665 | 0.681762338 | 0.691 | 1 | 79315 | OR7E91P |
| 0.070527665 | 0.681762338 | 0.707 | 1 | 79444 | BIRC7 |
| 0.070527665 | 0.681762338 | 0.715 | 1 | 84631 | SLITRK2 |
| 0.070527665 | 0.681762338 | 0.694 | 1 | 113691 | AC002472.8 |
| 0.070527665 | 0.681762338 | 0.706 | 1 | 147700 | KLC3 |
| 0.07027027 | 0.682864368 | 0.694 | 1 | 645104 | CLRN2 |
| 0.070012867 | 0.683967054 | 0.713 | 1 | 2690 | GHR |
| 0.070012867 | 0.683967054 | 0.703 | 1 | 4013 | VWA5A |
| 0.070012867 | 0.683967054 | 0.717 | 1 | 4548 | MTR |
| 0.070012867 | 0.683967054 | 0.701 | 1 | 5868 | RAB5A |
| 0.070012867 | 0.683967054 | 0.709 | 1 | 10946 | SF3A3 |
| 0.070012867 | 0.683967054 | 0.717 | 1 | 80737 | C6orf27 |
| 0.070012867 | 0.683967054 | 0.68 | 1 | 390354 | RPL18AP3 |
| 0.069755472 | 0.685070455 | 0.694 | 1 | 1630 | DCC |
| 0.069755472 | 0.685070455 | 0.714 | 1 | 2902 | GRIN1 |
| 0.069755472 | 0.685070455 | 0.722 | 1 | 84263 | HSDL2 |
| 0.069755472 | 0.685070455 | 0.683 | 1 | 115509 | ZNF689 |
| 0.069755472 | 0.685070455 | 0.711 | 1 | 645683 | RPL13AP3 |
| 0.06949807 | 0.686174929 | 0.704 | 1 | 217 | ALDH2 |
| 0.06949807 | 0.686174929 | 0.708 | 1 | 51398 | WDR83OS |
| 0.06949807 | 0.686174929 | 0.71 | 1 | 54435 | HCG4 |
| 0.06949807 | 0.686174929 | 0.722 | 1 | 80231 | CXorf21 |
| 0.06949807 | 0.686174929 | 0.709 | 1 | 80254 | CEP63 |
| 0.069240667 | 0.687279582 | 0.739 | 1 | 83538 | TTC25 |
| 0.069240667 | 0.687279582 | 0.71 | 1 | 386675 | KRTAP10-7 |
| 0.068983272 | 0.688384891 | 0.717 | 1 | 10193 | RNF41 |
| 0.068983272 | 0.688384891 | 0.708 | 1 | 23636 | NUP62 |
| 0.068983272 | 0.688384891 | 0.731 | 1 | 27440 | CECR5 |
| 0.068983272 | 0.688384891 | 0.729 | 1 | 63977 | PRDM15 |
| 0.068983272 | 0.688384891 | 0.702 | 1 | 64425 | POLR1E |
| 0.068983272 | 0.688384891 | 0.715 | 1 | 83953 | FCAMR |
| 0.068983272 | 0.688384891 | 0.74 | 1 | 246705 | LINC00314 |
| 0.068983272 | 0.688384891 | 0.716 | 1 | 653319 | KIAA0895L |
| 0.068725869 | 0.689490855 | 0.737 | 1 | 3083 | HGFAC |
| 0.068725869 | 0.689490855 | 0.717 | 1 | 4593 | MUSK |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.092600949 | 7.11702E-17 | 259294 | TAS2R48 |
| 0.092600115 | 7.12159E-17 | 100133920 | LOC100133920 |
| 0.092595562 | 7.14646E-17 | 10603 | SH2B2 |
| 0.092587948 | 7.18822E-17 | 23221 | RHOBTB2 |
| 0.092509106 | 7.63538E-17 | 8402 | SLC25A11 |
| 0.092507899 | 7.64241E-17 | 387758 | FIBIN |
| 0.092503347 | 7.6691E-17 | 9482 | STX8 |
| 0.092433237 | 8.09152E-17 | 729992 | ST13P1 |
| 0.092430726 | 8.10708E-17 | 3217 | HOXB7 |
| 0.092417538 | 8.18923E-17 | 55650 | PIGV |
| 0.092279449 | 9.1001E-17 | 24142 | NAT6 |
| 0.092256695 | 9.25947E-17 | 2568 | GABRP |
| 0.092242211 | 9.36242E-17 | 3709 | ITPR2 |
| 0.092230044 | 9.44973E-17 | 118426 | LOH12CR1 |
| 0.092181288 | 9.80769E-17 | 9443 | MED7 |
| 0.092151202 | 1.00352E-16 | 755 | C21orf2 |
| 0.092076346 | 1.06242E-16 | 136647 | C7orf11 |
| 0.092070684 | 1.06701E-16 | 286075 | ZNF707 |
| 0.092048399 | 1.08526E-16 | 347344 | ZNF81 |
| 0.092037901 | 1.09398E-16 | 4868 | NPHS1 |
| 0.092032328 | 1.09863E-16 | 26538 | OR10H2 |
| 0.092017472 | 1.11111E-16 | 56108 | PCDHGA7 |
| 0.09201283 | 1.11505E-16 | 132160 | PPM1M |
| 0.091980323 | 1.14298E-16 | 57563 | KLHL8 |
| 0.09194281 | 1.17606E-16 | 284532 | OR14A16 |
| 0.09193185 | 1.1859E-16 | 1363 | CPE |
| 0.091877431 | 1.23598E-16 | 9439 | MED23 |
| 0.091861919 | 1.25064E-16 | 151325 | MYADML |
| 0.091830999 | 1.28037E-16 | 3670 | ISL1 |
| 0.091778435 | 1.3325E-16 | 4706 | NDUFAB1 |
| 0.091764316 | 1.34686E-16 | 401612 | MCART6 |
| 0.091762744 | 1.34847E-16 | 100129321 | LOC100129321 |
| 0.091748998 | 1.36261E-16 | 126299 | ZNF428 |
| 0.091608301 | 1.51602E-16 | 9847 | KIAA0528 |
| 0.091567069 | 1.56412E-16 | 84441 | MAML2 |
| 0.091543853 | 1.59187E-16 | 23038 | WDTC1 |
| 0.09151005 | 1.63312E-16 | 100128108 | RP11-89K11.1 |
| 0.091503456 | 1.6413E-16 | 728743 | LOC728743 |
| 0.091492593 | 1.65486E-16 | 441108 | C5orf56 |
| 0.091410503 | 1.76087E-16 | 157769 | FAM91A1 |
| 0.091383383 | 1.79734E-16 | 256472 | TMEM151A |
| 0.0913155 | 1.89194E-16 | 112399 | EGLN3 |
| 0.091295905 | 1.92015E-16 | 1584 | CYP11B1 |
| 0.091275193 | 1.95041E-16 | 55663 | ZNF446 |
| 0.091269344 | 1.95905E-16 | 80183 | C13orf18 |
| 0.091204986 | 2.05655E-16 | 353135 | LCE1E |
| 0.091170259 | 2.11113E-16 | 285172 | FAM126B |
| 0.091107108 | 2.21406E-16 | 2797 | GNRH2 |
| 0.091034576 | 2.3384E-16 | 163351 | GBP6 |
| 0.091012381 | 2.37782E-16 | 3416 | IDE |
| 0.090993717 | 2.41145E-16 | 6818 | SULT1A3 |
| 0.090965487 | 2.46322E-16 | 1197 | CLK2P |
| 0.090908282 | 2.57156E-16 | 7468 | WHSC1 |
| 0.090895839 | 2.59571E-16 | 2178 | FANCE |
| 0.090894535 | 2.59827E-16 | 29945 | ANAPC4 |
| 0.090788946 | 2.81283E-16 | 51068 | NMD3 |
| 0.090765454 | 2.86288E-16 | 8372 | HYAL3 |
| 0.090749204 | 2.89802E-16 | 64901 | RANBP17 |
| 0.090730719 | 2.93852E-16 | 283551 | C14orf182 |
| 0.090687446 | 3.03551E-16 | 9715 | FAM131B |
| 0.090640828 | 3.1435E-16 | 5308 | PITX2 |
| 0.090601452 | 3.2377E-16 | 81448 | OR6K2 |
| 0.090510346 | 3.46635E-16 | 118433 | RPL23AP7 |
| 0.090498559 | 3.49707E-16 | 55209 | SETD5 |
| 0.090424359 | 3.69676E-16 | 9806 | SPOCK2 |
| 0.090378575 | 3.82551E-16 | 730094 | C16ORF52 |
| 0.090247542 | 4.21901E-16 | 728661 | RP11-345P4.2 |
| 0.090214573 | 4.32409E-16 | 51529 | ANAPC11 |
| 0.09016823 | 4.47622E-16 | 165186 | FAM179A |
| 0.090154395 | 4.52266E-16 | 80222 | TARS2 |
| 0.090083256 | 4.76899E-16 | 58478 | ENOPH1 |
| 0.090051502 | 4.8832E-16 | 92806 | AC092143.3 |
| 0.089947306 | 5.27712E-16 | 342865 | VSTM2B |
| 0.089903288 | 5.45278E-16 | 90378 | SAMD1 |
| 0.089894556 | 5.48834E-16 | 91300 | C19orf22 |
| 0.089866325 | 5.60472E-16 | 9865 | TRIL |
| 0.089779682 | 5.97749E-16 | 93010 | B3GNT7 |
| 0.089763425 | 6.0501E-16 | 56897 | WRNIP1 |
| 0.089757115 | 6.07848E-16 | 4582 | MUC1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.068725869 | 0.689490855 | 0.696 | 1 | 6141 | RPL18 |
| 0.068725869 | 0.689490855 | 0.73 | 1 | 51029 | PPPDE1 |
| 0.068725869 | 0.689490855 | 0.725 | 1 | 79668 | PARP8 |
| 0.068725869 | 0.689490855 | 0.716 | 1 | 114827 | FHAD1 |
| 0.068468474 | 0.690597415 | 0.717 | 1 | 5310 | PKD1 |
| 0.068468474 | 0.690597415 | 0.746 | 1 | 9324 | HMGN3 |
| 0.068468474 | 0.690597415 | 0.726 | 1 | 55014 | STX17 |
| 0.068468474 | 0.690597415 | 0.721 | 1 | 65993 | MRPS34 |
| 0.068468474 | 0.690597415 | 0.732 | 1 | 83892 | KCTD10 |
| 0.068468474 | 0.690597415 | 0.69 | 1 | 112479 | ERI2 |
| 0.068468474 | 0.690597415 | 0.707 | 1 | 283171 | C11orf44 |
| 0.068211071 | 0.691705108 | 0.7 | 1 | 4141 | MARS |
| 0.068211071 | 0.691705108 | 0.727 | 1 | 23404 | EXOSC2 |
| 0.068211071 | 0.691705108 | 0.719 | 1 | 137835 | TMEM71 |
| 0.068211071 | 0.691705108 | 0.731 | 1 | 197257 | LDHD |
| 0.067953661 | 0.692812979 | 0.729 | 1 | 53 | ACP2 |
| 0.067953661 | 0.692812979 | 0.728 | 1 | 5179 | PENK |
| 0.067953661 | 0.692812979 | 0.731 | 1 | 8522 | GAS7 |
| 0.067953661 | 0.692812979 | 0.724 | 1 | 51315 | KRCC1 |
| 0.067953661 | 0.692812979 | 0.707 | 1 | 79917 | MAGIX |
| 0.067953661 | 0.692812979 | 0.709 | 1 | 81622 | UNC93B3 |
| 0.067953661 | 0.692812979 | 0.727 | 1 | 84467 | FBN3 |
| 0.067953661 | 0.692812979 | 0.71 | 1 | 375567 | VWC2 |
| 0.067953661 | 0.692812979 | 0.742 | 1 | 728855 | BX248398.1 |
| 0.067696266 | 0.693921447 | 0.721 | 1 | 11072 | DUSP14 |
| 0.067696266 | 0.693921447 | 0.714 | 1 | 27248 | C2orf30 |
| 0.067696266 | 0.693921447 | 0.737 | 1 | 54997 | TESC |
| 0.067696266 | 0.693921447 | 0.718 | 1 | 221154 | EFHA1 |
| 0.067696266 | 0.693921447 | 0.717 | 1 | 284184 | C17orf89 |
| 0.067438863 | 0.69503063 | 0.708 | 1 | 1718 | DHCR24 |
| 0.067438863 | 0.69503063 | 0.711 | 1 | 79629 | OCEL1 |
| 0.067438863 | 0.69503063 | 0.724 | 1 | 114800 | CCDC85A |
| 0.067438863 | 0.69503063 | 0.711 | 1 | 388569 | ZNF324B |
| 0.067181468 | 0.696140885 | 0.71 | 1 | 23677 | SH3BP4 |
| 0.067181468 | 0.696140885 | 0.729 | 1 | 57214 | KIAA1199 |
| 0.067181468 | 0.696140885 | 0.704 | 1 | 80032 | ZNF556 |
| 0.067181468 | 0.696140885 | 0.697 | 1 | 284600 | RP11-54O7.1 |
| 0.067181468 | 0.696140885 | 0.704 | 1 | 340947 | LOC340947 |
| 0.066924065 | 0.69725126 | 0.697 | 1 | 55651 | NHP2 |
| 0.066924065 | 0.69725126 | 0.703 | 1 | 116969 | ART5 |
| 0.066924065 | 0.69725126 | 0.712 | 1 | 254559 | LOC254559 |
| 0.066666663 | 0.698362231 | 0.724 | 1 | 130540 | ALS2CR12 |
| 0.066666663 | 0.698362231 | 0.705 | 1 | 200197 | C1orf126 |
| 0.066666663 | 0.698362231 | 0.718 | 1 | 221938 | MMD2 |
| 0.066666663 | 0.698362231 | 0.726 | 1 | 400236 | RP11-33N16.1 |
| 0.066409267 | 0.699473917 | 0.735 | 1 | 2218 | FKTN |
| 0.066409267 | 0.699473917 | 0.725 | 1 | 2561 | GABRB2 |
| 0.066409267 | 0.699473917 | 0.73 | 1 | 85013 | TMEM128 |
| 0.066151865 | 0.700586677 | 0.726 | 1 | 6863 | TAC1 |
| 0.066151865 | 0.700586677 | 0.718 | 1 | 23358 | USP24 |
| 0.066151865 | 0.700586677 | 0.728 | 1 | 84187 | TMEM164 |
| 0.066151865 | 0.700586677 | 0.717 | 1 | 337867 | UBAC2 |
| 0.066151865 | 0.700586677 | 0.717 | 1 | 400720 | ZNF772 |
| 0.066151865 | 0.700586677 | 0.724 | 1 | 100132911 | DPH3P1 |
| 0.06589447 | 0.701699555 | 0.732 | 1 | 1906 | EDN1 |
| 0.06589447 | 0.701699555 | 0.725 | 1 | 6176 | RPLP1 |
| 0.06589447 | 0.701699555 | 0.693 | 1 | 10989 | IMMT |
| 0.06589447 | 0.701699555 | 0.732 | 1 | 78990 | OTUB2 |
| 0.06589447 | 0.701699555 | 0.734 | 1 | 91522 | COL23A1 |
| 0.06589447 | 0.701699555 | 0.747 | 1 | 100133920 | LOC100133920 |
| 0.065637067 | 0.702813089 | 0.756 | 1 | 27314 | RAB30 |
| 0.065637067 | 0.702813089 | 0.717 | 1 | 81928 | CABLES2 |
| 0.065637067 | 0.702813089 | 0.706 | 1 | 285550 | FAM200B |
| 0.065379664 | 0.703927219 | 0.747 | 1 | 4037 | LRP3 |
| 0.065379664 | 0.703927219 | 0.736 | 1 | 54753 | AC073343.8 |
| 0.065379664 | 0.703927219 | 0.726 | 1 | 116541 | MRPL54 |
| 0.065379664 | 0.703927219 | 0.742 | 1 | 157695 | C8orf42 |
| 0.065379664 | 0.703927219 | 0.738 | 1 | 283742 | FAM98B |
| 0.065379664 | 0.703927219 | 0.734 | 1 | 389541 | C7orf59 |
| 0.065379664 | 0.703927219 | 0.723 | 1 | 100133204 | C9orf147 |
| 0.065122269 | 0.705041945 | 0.741 | 1 | 1370 | CPN2 |
| 0.065122269 | 0.705041945 | 0.716 | 1 | 2193 | FARSA |
| 0.065122269 | 0.705041945 | 0.713 | 1 | 2331 | FMOD |
| 0.065122269 | 0.705041945 | 0.732 | 1 | 8662 | EIF3B |
| 0.065122269 | 0.705041945 | 0.714 | 1 | 55108 | BSDC1 |
| 0.065122269 | 0.705041945 | 0.715 | 1 | 84897 | TBRG1 |
| 0.065122269 | 0.705041945 | 0.719 | 1 | 85236 | HIST1H2BK |
| 0.065122269 | 0.705041945 | 0.707 | 1 | 286006 | C7orf53 |
| 0.064864866 | 0.706157804 | 0.773 | 1 | 1768 | DNAH6 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.089735381 | 6.17738E-16 | 7512 | XPNPEP2 |
| 0.08966852 | 6.49164E-16 | 51673 | TPPP3 |
| 0.089566462 | 7.00194E-16 | 643904 | RNF222 |
| 0.089499228 | 7.35949E-16 | 5621 | PRNP |
| 0.089476563 | 7.48401E-16 | 2332 | FMR1 |
| 0.089471176 | 7.51394E-16 | 285601 | GPR150 |
| 0.089441463 | 7.68099E-16 | 146691 | TOM1L2 |
| 0.089397632 | 7.93415E-16 | 254887 | ZDHHC23 |
| 0.08939568 | 7.94562E-16 | 5422 | POLA1 |
| 0.089363918 | 8.13451E-16 | 6490 | SILV |
| 0.089362994 | 8.14002E-16 | 10972 | TMED10 |
| 0.089351751 | 8.20795E-16 | 81833 | SPACA1 |
| 0.089342371 | 8.26507E-16 | 5998 | RGS3 |
| 0.08926715 | 8.73749E-16 | 85569 | GALP |
| 0.089208089 | 9.12685E-16 | 10767 | HBS1L |
| 0.089180134 | 9.31715E-16 | 60492 | CCDC90B |
| 0.08917354 | 9.36256E-16 | 51274 | KLF3 |
| 0.089111418 | 9.80156E-16 | 5724 | PTAFR |
| 0.08910501 | 9.84793E-16 | 219902 | TMEM136 |
| 0.089064054 | 1.01497E-15 | 9294 | S1PR2 |
| 0.089055695 | 1.02125E-15 | 83706 | FERMT3 |
| 0.088900425 | 1.14492E-15 | 2912 | GRM2 |
| 0.088845357 | 1.19224E-15 | 128486 | FITM2 |
| 0.088811181 | 1.22257E-15 | 255057 | C19orf26 |
| 0.088793069 | 1.23895E-15 | 83862 | TMEM120A |
| 0.088715345 | 1.31172E-15 | 2494 | NR5A2 |
| 0.088621266 | 1.40547E-15 | 10333 | TLR6 |
| 0.088569544 | 1.45977E-15 | 55502 | HES6 |
| 0.088556081 | 1.47425E-15 | 729952 | HMGB3P6 |
| 0.088474914 | 1.56455E-15 | 158046 | NXNL2 |
| 0.088364214 | 1.69654E-15 | 196051 | PPAPDC1A |
| 0.088256583 | 1.83537E-15 | 253190 | SERHL2 |
| 0.088252224 | 1.84123E-15 | 10553 | HTATIP2 |
| 0.088185355 | 1.93333E-15 | 1840 | DTX1 |
| 0.088183314 | 1.93622E-15 | 339855 | KY |
| 0.08815629 | 1.97478E-15 | 8386 | OR1D5 |
| 0.088092402 | 2.06896E-15 | 5775 | PTPN4 |
| 0.088079304 | 2.08881E-15 | 9678 | PHF14 |
| 0.088059522 | 2.11913E-15 | 79096 | C11orf49 |
| 0.088029154 | 2.16655E-15 | 55773 | TBC1D23 |
| 0.087957554 | 2.28252E-15 | 3598 | IL13RA2 |
| 0.087925054 | 2.33715E-15 | 8930 | MBD4 |
| 0.087882519 | 2.41059E-15 | 162514 | TRPV3 |
| 0.087838687 | 2.48865E-15 | 222166 | C7orf41 |
| 0.087810643 | 2.5399E-15 | 28974 | C19orf53 |
| 0.087671161 | 2.81061E-15 | 6945 | MLX |
| 0.087619245 | 2.91848E-15 | 100188893 | TOMM6 |
| 0.087576531 | 3.01027E-15 | 2288 | FKBP4 |
| 0.087484129 | 3.21865E-15 | 84365 | MKI67IP |
| 0.087443449 | 3.31484E-15 | 9933 | KIAA0020 |
| 0.087430634 | 3.34573E-15 | 1520 | CTSS |
| 0.087356716 | 3.52948E-15 | 100131755 | ARMCX4 |
| 0.087315015 | 3.63747E-15 | 6636 | SNRPF |
| 0.087284371 | 3.71891E-15 | 112942 | CCDC104 |
| 0.08728233 | 3.7244E-15 | 441531 | PGAM4 |
| 0.087248616 | 3.8162E-15 | 84286 | TMEM175 |
| 0.087202184 | 3.94627E-15 | 137814 | NKX2-6 |
| 0.087198101 | 3.95792E-15 | 340745 | LRIT2 |
| 0.087197632 | 3.95926E-15 | 6597 | SMARCA4 |
| 0.087175809 | 4.02212E-15 | 3663 | IRF5 |
| 0.087172098 | 4.03287E-15 | 60386 | SLC25A19 |
| 0.087059915 | 4.37266E-15 | 140680 | C20orf96 |
| 0.087057874 | 4.37909E-15 | 55885 | LMO3 |
| 0.086975962 | 4.6452E-15 | 403282 | OR6C65 |
| 0.086964265 | 4.68451E-15 | 1412 | CRYBA2 |
| 0.086846232 | 5.09961E-15 | 3762 | KCNJ5 |
| 0.086825058 | 5.17781E-15 | 1903 | S1PR3 |
| 0.086812794 | 5.2236E-15 | 10232 | MSLN |
| 0.086799614 | 5.27333E-15 | 5879 | RAC1 |
| 0.086718164 | 5.59095E-15 | 85280 | KRTAP9-4 |
| 0.086642854 | 5.90135E-15 | 27125 | AFF4 |
| 0.086640157 | 5.91281E-15 | 4261 | CIITA |
| 0.086583324 | 6.15868E-15 | 5164 | PDK2 |
| 0.086526029 | 6.41676E-15 | 29066 | ZC3H7A |
| 0.086498171 | 6.54602E-15 | 3611 | ILK |
| 0.086484142 | 6.61213E-15 | 23409 | SIRT4 |
| 0.086467803 | 6.68993E-15 | 84900 | RNFT2 |
| 0.086440496 | 6.82195E-15 | 128872 | HMGB3P1 |
| 0.086315967 | 7.45721E-15 | 85012 | TCEAL3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.064864866 | 0.706157804 | 0.734 | 1 | 8813 | DPM1 |
| 0.064864866 | 0.706157804 | 0.727 | 1 | 57146 | TMEM159 |
| 0.064864866 | 0.706157804 | 0.7 | 1 | 118487 | CHCHD1 |
| 0.064864866 | 0.706157804 | 0.727 | 1 | 285755 | PPIL6 |
| 0.064607456 | 0.707273722 | 0.733 | 1 | 9493 | KIF23 |
| 0.064607456 | 0.707273722 | 0.747 | 1 | 55072 | RNF31 |
| 0.064607456 | 0.707273722 | 0.724 | 1 | 59274 | MESDC1 |
| 0.064607456 | 0.707273722 | 0.735 | 1 | 116843 | C6orf192 |
| 0.064350061 | 0.708390355 | 0.749 | 1 | 2650 | GCNT1 |
| 0.064350061 | 0.708390355 | 0.727 | 1 | 10036 | CHAF1A |
| 0.064350061 | 0.708390355 | 0.738 | 1 | 11130 | ZWINT |
| 0.064350061 | 0.708390355 | 0.734 | 1 | 64386 | MMP25 |
| 0.064350061 | 0.708390355 | 0.754 | 1 | 84561 | SLC12A8 |
| 0.064350061 | 0.708390355 | 0.732 | 1 | 84640 | USP38 |
| 0.064092666 | 0.709507525 | 0.714 | 1 | 9310 | ZNF235 |
| 0.064092666 | 0.709507525 | 0.739 | 1 | 11076 | TPPP |
| 0.064092666 | 0.709507525 | 0.728 | 1 | 388403 | YPEL2 |
| 0.063835263 | 0.710625768 | 0.736 | 1 | 7107 | GPR137B |
| 0.063835263 | 0.710625768 | 0.738 | 1 | 134083 | OR2Y1 |
| 0.063835263 | 0.710625768 | 0.736 | 1 | 280660 | SSX9 |
| 0.063835263 | 0.710625768 | 0.711 | 1 | 337968 | KRTAP6-3 |
| 0.063835263 | 0.710625768 | 0.748 | 1 | 390110 | ACCSL |
| 0.063577861 | 0.711744189 | 0.738 | 1 | 968 | CD68 |
| 0.063577861 | 0.711744189 | 0.755 | 1 | 3613 | IMPA2 |
| 0.063577861 | 0.711744189 | 0.752 | 1 | 5104 | SERPINA5 |
| 0.063577861 | 0.711744189 | 0.749 | 1 | 8970 | HIST1H2BJ |
| 0.063577861 | 0.711744189 | 0.708 | 1 | 55291 | SAPS3 |
| 0.063320458 | 0.712863147 | 0.724 | 1 | 147 | ADRA1B |
| 0.063320458 | 0.712863147 | 0.739 | 1 | 10651 | MTX2 |
| 0.063320458 | 0.712863147 | 0.718 | 1 | 51321 | AMZ2 |
| 0.063320458 | 0.712863147 | 0.735 | 1 | 54165 | DCUN1D1 |
| 0.063320458 | 0.712863147 | 0.741 | 1 | 79791 | FBXO31 |
| 0.063320458 | 0.712863147 | 0.764 | 1 | 220115 | TPTE2P3 |
| 0.063320458 | 0.712863147 | 0.716 | 1 | 727957 | HEATR7A |
| 0.063063063 | 0.713982701 | 0.73 | 1 | 1018 | CDK3 |
| 0.063063063 | 0.713982701 | 0.755 | 1 | 1730 | DIAPH2 |
| 0.063063063 | 0.713982701 | 0.752 | 1 | 6506 | SLC1A2 |
| 0.063063063 | 0.713982701 | 0.727 | 1 | 7936 | RDBP |
| 0.063063063 | 0.713982701 | 0.721 | 1 | 8800 | PEX11A |
| 0.063063063 | 0.713982701 | 0.753 | 1 | 51061 | TXNDC11 |
| 0.063063063 | 0.713982701 | 0.735 | 1 | 113246 | C12orf57 |
| 0.063063063 | 0.713982701 | 0.73 | 1 | 253512 | SLC25A30 |
| 0.063063063 | 0.713982701 | 0.734 | 1 | 337966 | KRTAP6-1 |
| 0.063063063 | 0.713982701 | 0.724 | 1 | 339742 | FAM201B |
| 0.06280566 | 0.715103447 | 0.726 | 1 | 88 | ACTN2 |
| 0.06280566 | 0.715103447 | 0.742 | 1 | 4731 | NDUFV3 |
| 0.06280566 | 0.715103447 | 0.725 | 1 | 23595 | ORC3L |
| 0.06280566 | 0.715103447 | 0.732 | 1 | 54543 | TOMM7 |
| 0.06280566 | 0.715103447 | 0.736 | 1 | 114815 | SORCS1 |
| 0.06280566 | 0.715103447 | 0.74 | 1 | 339184 | CCDC144NL |
| 0.062548265 | 0.716224253 | 0.74 | 1 | 1062 | CENPE |
| 0.062548265 | 0.716224253 | 0.723 | 1 | 1656 | DDX6 |
| 0.062548265 | 0.716224253 | 0.756 | 1 | 9841 | ZBTB24 |
| 0.062548265 | 0.716224253 | 0.75 | 1 | 23582 | CCNDBP1 |
| 0.062290862 | 0.717345595 | 0.752 | 1 | 4848 | CNOT2 |
| 0.062290862 | 0.717345595 | 0.749 | 1 | 9695 | EDEM1 |
| 0.062290862 | 0.717345595 | 0.744 | 1 | 29903 | CCDC106 |
| 0.062290862 | 0.717345595 | 0.722 | 1 | 57453 | DSCAML1 |
| 0.062290862 | 0.717345595 | 0.743 | 1 | 79068 | FTO |
| 0.062290862 | 0.717345595 | 0.763 | 1 | 112495 | GTF3C6 |
| 0.062290862 | 0.717345595 | 0.736 | 1 | 374899 | ZNF829 |
| 0.06203346 | 0.718467534 | 0.737 | 1 | 1800 | DPEP1 |
| 0.06203346 | 0.718467534 | 0.746 | 1 | 1959 | EGR2 |
| 0.06203346 | 0.718467534 | 0.753 | 1 | 2907 | GRINA |
| 0.06203346 | 0.718467534 | 0.736 | 1 | 3004 | GZMM |
| 0.06203346 | 0.718467534 | 0.756 | 1 | 3658 | IREB2 |
| 0.06203346 | 0.718467534 | 0.723 | 1 | 4246 | SCGB2A1 |
| 0.06203346 | 0.718467534 | 0.726 | 1 | 23142 | DCUN1D4 |
| 0.06203346 | 0.718467534 | 0.748 | 1 | 55764 | IFT122 |
| 0.06203346 | 0.718467534 | 0.754 | 1 | 90580 | C19orf52 |
| 0.061776061 | 0.719590068 | 0.728 | 1 | 6161 | RPL32 |
| 0.061776061 | 0.719590068 | 0.724 | 1 | 6758 | SSX5 |
| 0.061776061 | 0.719590068 | 0.747 | 1 | 51052 | PRLH |
| 0.061776061 | 0.719590068 | 0.755 | 1 | 79977 | GRHL2 |
| 0.061776061 | 0.719590068 | 0.742 | 1 | 84311 | MRPL45 |
| 0.061776061 | 0.719590068 | 0.734 | 1 | 115024 | NT5C3L |
| 0.061776061 | 0.719590068 | 0.735 | 1 | 100129128 | RP11-257K9.7 |
| 0.061518662 | 0.720713735 | 0.714 | 1 | 2596 | GAP43 |
| 0.061518662 | 0.720713735 | 0.74 | 1 | 5244 | ABCB4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.086310856 | 7.48449E-15 | 23546 | SYNGR4 |
| 0.086263493 | 7.74204E-15 | 6992 | PPP1R11 |
| 0.086180381 | 8.21523E-15 | 23359 | FAM189A1 |
| 0.086163014 | 8.31759E-15 | 2938 | GSTA1 |
| 0.086126983 | 8.53406E-15 | 1369 | CPN1 |
| 0.085969388 | 9.54796E-15 | 219477 | OR8J1 |
| 0.085951559 | 9.66986E-15 | 1121 | CHM |
| 0.085892685 | 1.00834E-14 | 81620 | CDT1 |
| 0.085852474 | 1.03758E-14 | 55957 | LIN37 |
| 0.085830182 | 1.05414E-14 | 64682 | ANAPC1 |
| 0.08580938 | 1.06985E-14 | 285180 | RUFY4 |
| 0.085723013 | 1.1375E-14 | 5977 | DPF2 |
| 0.085656524 | 1.19244E-14 | 10912 | GADD45G |
| 0.085627273 | 1.21743E-14 | 80821 | DDHD1 |
| 0.085618727 | 1.22483E-14 | 4795 | NFKBIL1 |
| 0.085581861 | 1.25725E-14 | 5991 | RFX3 |
| 0.085552417 | 1.28375E-14 | 89839 | ARHGAP11B |
| 0.085540995 | 1.29418E-14 | 51322 | WAC |
| 0.085508585 | 1.32422E-14 | 5920 | RARRES3 |
| 0.085504591 | 1.32797E-14 | 5613 | PRKX |
| 0.085501626 | 1.33076E-14 | 8192 | CLPP |
| 0.085480727 | 1.35059E-14 | 51008 | ASCC1 |
| 0.085424356 | 1.40554E-14 | 5582 | PRKCG |
| 0.085408293 | 1.4216E-14 | 22866 | CNKSR2 |
| 0.085360467 | 1.47048E-14 | 58493 | C9orf80 |
| 0.085346632 | 1.48493E-14 | 283303 | C11ORF36 |
| 0.085322298 | 1.51068E-14 | 7638 | ZNF221 |
| 0.085318029 | 1.51525E-14 | 11079 | RER1 |
| 0.085271038 | 1.56636E-14 | 6575 | SLC20A2 |
| 0.085239649 | 1.60145E-14 | 10469 | TIMM44 |
| 0.085217357 | 1.62685E-14 | 7678 | ZNF124 |
| 0.085118085 | 1.74482E-14 | 55341 | LSG1 |
| 0.085081309 | 1.79062E-14 | 196446 | C12orf28 |
| 0.085062832 | 1.81407E-14 | 9282 | MED14 |
| 0.085046209 | 1.83544E-14 | 5713 | PSMD7 |
| 0.085043885 | 1.83844E-14 | 79666 | PLEKHF2 |
| 0.085026518 | 1.86106E-14 | 129804 | FBLN7 |
| 0.085019834 | 1.86983E-14 | 114659 | LRRC37B |
| 0.084973119 | 1.93234E-14 | 114821 | SCAND3 |
| 0.084949531 | 1.96467E-14 | 79959 | CEP76 |
| 0.084931798 | 1.98932E-14 | 84675 | TRIM55 |
| 0.084879145 | 2.06434E-14 | 55146 | ZDHHC4 |
| 0.08487422 | 2.0715E-14 | 51313 | C4orf18 |
| 0.084748015 | 2.26347E-14 | 220441 | RNF152 |
| 0.084739283 | 2.27737E-14 | 26468 | LHX6 |
| 0.084720619 | 2.3074E-14 | 9217 | VAPB |
| 0.084699444 | 2.34192E-14 | 8392 | OR3A3 |
| 0.084615499 | 2.48387E-14 | 4488 | MSX2 |
| 0.084574632 | 2.556E-14 | 10013 | HDAC6 |
| 0.084567949 | 2.56799E-14 | 9308 | CD83 |
| 0.084520213 | 2.65526E-14 | 9047 | SH2D2A |
| 0.084514089 | 2.66667E-14 | 9942 | XYLB |
| 0.08448223 | 2.72678E-14 | 6978 | TRGV5 |
| 0.084474802 | 2.74098E-14 | 222487 | GPR97 |
| 0.084315352 | 3.0641E-14 | 2041 | EPHA1 |
| 0.084294178 | 3.10972E-14 | 3067 | HDC |
| 0.08427681 | 3.14766E-14 | 255101 | CCDC108 |
| 0.084257215 | 3.19099E-14 | 124599 | CD300LB |
| 0.084216356 | 3.28324E-14 | 8536 | CAMK1 |
| 0.084191099 | 3.34159E-14 | 57585 | CRAMP1L |
| 0.084183574 | 3.35916E-14 | 55172 | C14orf104 |
| 0.084161937 | 3.41021E-14 | 10272 | FSTL3 |
| 0.084112346 | 3.53008E-14 | 118738 | ZNF488 |
| 0.084064521 | 3.64966E-14 | 1109 | AKR1C4 |
| 0.084036194 | 3.72233E-14 | 2036 | EPB41L1 |
| 0.083998308 | 3.82175E-14 | 8973 | CHRNA6 |
| 0.083834216 | 4.28341E-14 | 49860 | CRNN |
| 0.083774596 | 4.46437E-14 | 597 | BCL2A1 |
| 0.083745621 | 4.55502E-14 | 124912 | SPACA3 |
| 0.083740607 | 4.57087E-14 | 132884 | EVC2 |
| 0.083717018 | 4.64628E-14 | 148113 | CILP2 |
| 0.083697237 | 4.71044E-14 | 388650 | FAM69A |
| 0.083694912 | 4.71803E-14 | 57528 | KCTD16 |
| 0.083692409 | 4.72621E-14 | 10584 | COLEC10 |
| 0.083680056 | 4.76687E-14 | 6343 | SCT |
| 0.083659068 | 4.83671E-14 | 57826 | RAP2C |
| 0.083536766 | 5.2641E-14 | 199786 | FAM129C |
| 0.083481789 | 5.46813E-14 | 1339 | COX6A2 |
| 0.083453558 | 5.57589E-14 | 51808 | PHAX |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.061518662 | 0.720713735 | 0.745 | 1 | 5409 | PNMT |
| 0.061518662 | 0.720713735 | 0.751 | 1 | 6039 | RNASE6 |
| 0.061518662 | 0.720713735 | 0.749 | 1 | 7587 | ZNF37A |
| 0.061518662 | 0.720713735 | 0.755 | 1 | 25792 | CIZ1 |
| 0.061518662 | 0.720713735 | 0.753 | 1 | 54499 | TMCO1 |
| 0.061518662 | 0.720713735 | 0.745 | 1 | 261729 | STEAP2 |
| 0.061518662 | 0.720713735 | 0.729 | 1 | 286140 | RNF5P1 |
| 0.061518662 | 0.720713735 | 0.711 | 1 | 728621 | CCDC30 |
| 0.061261259 | 0.721837342 | 0.745 | 1 | 1439 | CSF2RB |
| 0.061261259 | 0.721837342 | 0.749 | 1 | 4267 | CD99 |
| 0.061261259 | 0.721837342 | 0.745 | 1 | 10087 | COL4A3BP |
| 0.061261259 | 0.721837342 | 0.765 | 1 | 26049 | FAM169A |
| 0.061261259 | 0.721837342 | 0.731 | 1 | 27143 | KIAA1274 |
| 0.061261259 | 0.721837342 | 0.726 | 1 | 60682 | SMAP1 |
| 0.061261259 | 0.721837342 | 0.753 | 1 | 401375 | GTF2IRD2P1 |
| 0.06100386 | 0.722961724 | 0.746 | 1 | 2526 | FUT4 |
| 0.06100386 | 0.722961724 | 0.73 | 1 | 8405 | SPOP |
| 0.06100386 | 0.722961724 | 0.766 | 1 | 51754 | TMEM8B |
| 0.06100386 | 0.722961724 | 0.746 | 1 | 55823 | VPS11 |
| 0.06100386 | 0.722961724 | 0.743 | 1 | 81789 | TIGD6 |
| 0.06100386 | 0.722961724 | 0.713 | 1 | 343171 | OR2W3 |
| 0.060746461 | 0.724086583 | 0.73 | 1 | 4008 | LMO7 |
| 0.060746461 | 0.724086583 | 0.745 | 1 | 8894 | EIF2S2 |
| 0.060746461 | 0.724086583 | 0.724 | 1 | 10734 | STAG3 |
| 0.060746461 | 0.724086583 | 0.745 | 1 | 55114 | ARHGAP17 |
| 0.060746461 | 0.724086583 | 0.763 | 1 | 286336 | FAM78A |
| 0.060746461 | 0.724086583 | 0.741 | 1 | 442361 | OR2A2 |
| 0.060489062 | 0.725212514 | 0.752 | 1 | 5577 | PRKAR2B |
| 0.060489062 | 0.725212514 | 0.738 | 1 | 6338 | SCNN1B |
| 0.060489062 | 0.725212514 | 0.729 | 1 | 23122 | CLASP2 |
| 0.060489062 | 0.725212514 | 0.728 | 1 | 64121 | RRAGC |
| 0.060489062 | 0.725212514 | 0.729 | 1 | 414149 | ACBD7 |
| 0.060489062 | 0.725212514 | 0.738 | 1 | 414318 | C9orf106 |
| 0.060231656 | 0.726338565 | 0.752 | 1 | 6571 | SLC18A2 |
| 0.060231656 | 0.726338565 | 0.733 | 1 | 84181 | CHD6 |
| 0.059974257 | 0.727465153 | 0.748 | 1 | 820 | CAMP |
| 0.059974257 | 0.727465153 | 0.731 | 1 | 6677 | SPAM1 |
| 0.059974257 | 0.727465153 | 0.722 | 1 | 6999 | TDO2 |
| 0.059974257 | 0.727465153 | 0.763 | 1 | 7643 | ZNF90 |
| 0.059974257 | 0.727465153 | 0.756 | 1 | 9135 | RABEP1 |
| 0.059974257 | 0.727465153 | 0.74 | 1 | 90353 | ATPBD3 |
| 0.059716858 | 0.728592277 | 0.731 | 1 | 2627 | GATA6 |
| 0.059716858 | 0.728592277 | 0.737 | 1 | 23032 | USP33 |
| 0.059716858 | 0.728592277 | 0.721 | 1 | 65061 | PFTK2 |
| 0.059716858 | 0.728592277 | 0.753 | 1 | 283849 | EXOC3L |
| 0.059716858 | 0.728592277 | 0.746 | 1 | 375056 | MIA3 |
| 0.059716858 | 0.728592277 | 0.719 | 1 | 389114 | ZNF662 |
| 0.059459459 | 0.729720533 | 0.758 | 1 | 5908 | RAP1B |
| 0.059459459 | 0.729720533 | 0.772 | 1 | 22839 | DLGAP4 |
| 0.059459459 | 0.729720533 | 0.731 | 1 | 23624 | CBLC |
| 0.059459459 | 0.729720533 | 0.758 | 1 | 55664 | CDC37L1 |
| 0.059459459 | 0.729720533 | 0.743 | 1 | 728698 | EIF4A1P4 |
| 0.059459459 | 0.729720533 | 0.741 | 1 | 100287497 | RP11-504P24.4 |
| 0.05920206 | 0.730848849 | 0.724 | 1 | 5092 | PCBD1 |
| 0.05920206 | 0.730848849 | 0.767 | 1 | 5881 | RAC3 |
| 0.05920206 | 0.730848849 | 0.772 | 1 | 9379 | NRXN2 |
| 0.05920206 | 0.730848849 | 0.774 | 1 | 79915 | ATAD5 |
| 0.05920206 | 0.730848849 | 0.728 | 1 | 119764 | OR4X2 |
| 0.05920206 | 0.730848849 | 0.748 | 1 | 200558 | APLF |
| 0.05920206 | 0.730848849 | 0.74 | 1 | 253738 | EBF3 |
| 0.05920206 | 0.730848849 | 0.761 | 1 | 646643 | SBK2 |
| 0.058944657 | 0.731977761 | 0.754 | 1 | 2548 | GAA |
| 0.058944657 | 0.731977761 | 0.759 | 1 | 3120 | HLA-DQB2 |
| 0.058944657 | 0.731977761 | 0.745 | 1 | 25849 | AC110760.2 |
| 0.058944657 | 0.731977761 | 0.743 | 1 | 51526 | C20orf111 |
| 0.058944657 | 0.731977761 | 0.757 | 1 | 100128062 | SLC2A3P1 |
| 0.058687259 | 0.73310715 | 0.766 | 1 | 54981 | C9orf95 |
| 0.058687259 | 0.73310715 | 0.738 | 1 | 388611 | CD164L2 |
| 0.058429856 | 0.734237075 | 0.764 | 1 | 3484 | IGFBP1 |
| 0.058429856 | 0.734237075 | 0.75 | 1 | 3652 | IPP |
| 0.058429856 | 0.734237075 | 0.747 | 1 | 7036 | TFR2 |
| 0.058429856 | 0.734237075 | 0.746 | 1 | 8624 | PSMG1 |
| 0.058429856 | 0.734237075 | 0.756 | 1 | 26273 | FBXO3 |
| 0.058429856 | 0.734237075 | 0.753 | 1 | 55937 | APOM |
| 0.058429856 | 0.734237075 | 0.757 | 1 | 64901 | RANBP17 |
| 0.058429856 | 0.734237075 | 0.748 | 1 | 388536 | ZNF790 |
| 0.058172457 | 0.735368133 | 0.769 | 1 | 29080 | CCDC59 |
| 0.058172457 | 0.735368133 | 0.765 | 1 | 56005 | C19orf10 |
| 0.058172457 | 0.735368133 | 0.758 | 1 | 127540 | HMGB4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.083435357 | 5.64648E-14 | 100505929 | C21orf37 |
| 0.083380938 | 5.86281E-14 | 3931 | LCAT |
| 0.083272465 | 6.31858E-14 | 9712 | USP6NL |
| 0.083260484 | 6.37103E-14 | 220416 | LRRC63 |
| 0.083194092 | 6.66938E-14 | 64743 | WDR13 |
| 0.083192885 | 6.67494E-14 | 23483 | TGDS |
| 0.083176441 | 6.75098E-14 | 79672 | FN3KRP |
| 0.083146915 | 6.8897E-14 | 25792 | CIZ1 |
| 0.083116919 | 7.03348E-14 | 2775 | GNAO1 |
| 0.083095461 | 7.13818E-14 | 53904 | MYO3A |
| 0.083081812 | 7.20554E-14 | 1030 | CDKN2B |
| 0.082982726 | 7.7137E-14 | 9388 | LIPG |
| 0.082962483 | 7.82179E-14 | 54988 | ACSM5 |
| 0.082960621 | 7.83183E-14 | 84878 | ZBTB45 |
| 0.082929976 | 7.99845E-14 | 1117 | CHI3L2 |
| 0.082840547 | 8.50496E-14 | 5936 | RBM4 |
| 0.082793556 | 8.78358E-14 | 53916 | RAB4B |
| 0.08275409 | 9.02458E-14 | 5866 | RAB3IL1 |
| 0.082745455 | 9.07811E-14 | 201626 | PDE12 |
| 0.082725674 | 9.20202E-14 | 23029 | RBM34 |
| 0.08270552 | 9.32996E-14 | 3281 | HSBP1 |
| 0.08264599 | 9.71827E-14 | 2019 | EN1 |
| 0.082594916 | 1.0064E-13 | 92370 | ACPL2 |
| 0.08258684 | 1.01198E-13 | 51083 | GAL |
| 0.082573183 | 1.02148E-13 | 2923 | PDIA3 |
| 0.082470477 | 1.09578E-13 | 143941 | TTC36 |
| 0.082458407 | 1.10485E-13 | 54741 | LEPROT |
| 0.082442991 | 1.11654E-13 | 63943 | FKBPL |
| 0.082410485 | 1.1416E-13 | 401145 | FAM190A |
| 0.082400359 | 1.14952E-13 | 54823 | C1orf26 |
| 0.08237882 | 1.16654E-13 | 23774 | BRD1 |
| 0.082346126 | 1.19287E-13 | 219348 | PLAC9 |
| 0.082286231 | 1.24259E-13 | 165055 | CCDC138 |
| 0.082278989 | 1.24875E-13 | 374786 | EFCAB5 |
| 0.0822189 | 1.30094E-13 | 11216 | AKAP10 |
| 0.082174793 | 1.34061E-13 | 54977 | SLC25A38 |
| 0.082106255 | 1.40462E-13 | 7221 | TRPC2 |
| 0.082102261 | 1.40844E-13 | 116236 | ABHD15 |
| 0.082079791 | 1.43013E-13 | 100131471 | LOC100131471 |
| 0.082056575 | 1.45289E-13 | 79001 | VKORC1 |
| 0.082033545 | 1.47582E-13 | 645676 | RP11-29H23.1 |
| 0.082004756 | 1.50497E-13 | 94235 | GNG8 |
| 0.08199092 | 1.51918E-13 | 219482 | OR5M3 |
| 0.081985347 | 1.52494E-13 | 115749 | C12orf56 |
| 0.081917927 | 1.59638E-13 | 374407 | DNAJB13 |
| 0.081874274 | 1.64437E-13 | 29083 | GTPBP8 |
| 0.081834346 | 1.68951E-13 | 728673 | LOC728673 |
| 0.081811778 | 1.71556E-13 | 171423 | PDIA3P |
| 0.081765249 | 1.77052E-13 | 27097 | TAF5L |
| 0.081746124 | 1.7936E-13 | 79731 | NARS2 |
| 0.08171501 | 1.8318E-13 | 171391 | NS3BP |
| 0.081713527 | 1.83364E-13 | 286530 | P2RY8 |
| 0.08168149 | 1.87384E-13 | 9736 | USP34 |
| 0.081647128 | 1.91792E-13 | 8795 | TNFRSF10B |
| 0.081502996 | 2.11419E-13 | 81555 | YIPF5 |
| 0.081482291 | 2.14395E-13 | 5687 | PSMA6 |
| 0.081478484 | 2.14948E-13 | 220594 | AC107983.3 |
| 0.081430562 | 2.22013E-13 | 710 | SERPING1 |
| 0.081374191 | 2.30619E-13 | 335 | APOA1 |
| 0.081363976 | 2.32213E-13 | 11188 | NISCH |
| 0.081239723 | 2.52489E-13 | 51497 | TH1L |
| 0.081227556 | 2.54565E-13 | 83892 | KCTD10 |
| 0.081177041 | 2.63368E-13 | 79870 | BAALC |
| 0.081098936 | 2.77568E-13 | 9363 | RAB33A |
| 0.080999292 | 2.96782E-13 | 147699 | PPM1N |
| 0.080973759 | 3.01912E-13 | 2314 | FLII |
| 0.080954254 | 3.05891E-13 | 23233 | EXOC6B |
| 0.080927603 | 3.11407E-13 | 166614 | DCLK2 |
| 0.080925278 | 3.11894E-13 | 5447 | POR |
| 0.080833897 | 3.31595E-13 | 10574 | CCT7 |
| 0.080800936 | 3.38998E-13 | 157680 | VPS13B |
| 0.080800653 | 3.39061E-13 | 3621 | ING1 |
| 0.080748186 | 3.51184E-13 | 51188 | SS18L2 |
| 0.080745585 | 3.51794E-13 | 29882 | ANAPC2 |
| 0.080653645 | 3.74108E-13 | 9706 | ULK2 |
| 0.080636188 | 3.78497E-13 | 811 | CALR |
| 0.08063554 | 3.78662E-13 | 1656 | DDX6 |
| 0.080632098 | 3.79534E-13 | 440061 | TRIM64EP |
| 0.080617711 | 3.83199E-13 | 145501 | ISM2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.058172457 | 0.735368133 | 0.754 | 1 | 375057 | C1orf95 |
| 0.058172457 | 0.735368133 | 0.77 | 1 | 387978 | C14orf23 |
| 0.057915058 | 0.73649925 | 0.764 | 1 | 4610 | MYCL1 |
| 0.057915058 | 0.73649925 | 0.774 | 1 | 10841 | FTCD |
| 0.057915058 | 0.73649925 | 0.748 | 1 | 100130522 | PARD6G-AS1 |
| 0.057657655 | 0.737630844 | 0.766 | 1 | 811 | CALR |
| 0.057657655 | 0.737630844 | 0.756 | 1 | 2251 | FGF6 |
| 0.057657655 | 0.737630844 | 0.761 | 1 | 6576 | SLC25A1 |
| 0.057657655 | 0.737630844 | 0.748 | 1 | 81606 | LBH |
| 0.057657655 | 0.737630844 | 0.768 | 1 | 140881 | DEFB129 |
| 0.057657655 | 0.737630844 | 0.763 | 1 | 220965 | FAM13C |
| 0.057400256 | 0.738763094 | 0.739 | 1 | 3550 | IK |
| 0.057400256 | 0.738763094 | 0.763 | 1 | 5347 | PLK1 |
| 0.057400256 | 0.738763094 | 0.755 | 1 | 55130 | ARMC4 |
| 0.057400256 | 0.738763094 | 0.749 | 1 | 79571 | GCC1 |
| 0.057142857 | 0.739896357 | 0.747 | 1 | 5116 | PCNT |
| 0.057142857 | 0.739896357 | 0.766 | 1 | 5871 | MAP4K2 |
| 0.057142857 | 0.739896357 | 0.744 | 1 | 6097 | RORC |
| 0.057142857 | 0.739896357 | 0.759 | 1 | 10267 | RAMP1 |
| 0.057142857 | 0.739896357 | 0.763 | 1 | 79663 | HSPBAP1 |
| 0.057142857 | 0.739896357 | 0.787 | 1 | 114882 | OSBPL8 |
| 0.057142857 | 0.739896357 | 0.771 | 1 | 202018 | TAPT1 |
| 0.057142857 | 0.739896357 | 0.768 | 1 | 389856 | USP27X |
| 0.056885459 | 0.74102962 | 0.781 | 1 | 10159 | ATP6AP2 |
| 0.056885459 | 0.74102962 | 0.753 | 1 | 11284 | PNKP |
| 0.056885459 | 0.74102962 | 0.77 | 1 | 22862 | FNDC3A |
| 0.056885459 | 0.74102962 | 0.746 | 1 | 23403 | FBXO46 |
| 0.056885459 | 0.74102962 | 0.771 | 1 | 51763 | INPP5K |
| 0.056885459 | 0.74102962 | 0.767 | 1 | 56257 | MEPCE |
| 0.056885459 | 0.74102962 | 0.778 | 1 | 64978 | MRPL38 |
| 0.056885459 | 0.74102962 | 0.778 | 1 | 80305 | TRABD |
| 0.056885459 | 0.74102962 | 0.757 | 1 | 84662 | GLIS2 |
| 0.056885459 | 0.74102962 | 0.787 | 1 | 120376 | AP002448.1 |
| 0.056885459 | 0.74102962 | 0.728 | 1 | 204962 | SLC44A5 |
| 0.056885459 | 0.74102962 | 0.765 | 1 | 388722 | C1orf53 |
| 0.056885459 | 0.74102962 | 0.766 | 1 | 390077 | OR52N2 |
| 0.056628056 | 0.74216342 | 0.769 | 1 | 4863 | NPAT |
| 0.056628056 | 0.74216342 | 0.761 | 1 | 5026 | P2RX5 |
| 0.056628056 | 0.74216342 | 0.728 | 1 | 5931 | RBBP7 |
| 0.056628056 | 0.74216342 | 0.763 | 1 | 54935 | DUSP23 |
| 0.056628056 | 0.74216342 | 0.783 | 1 | 114821 | SCAND3 |
| 0.056370653 | 0.743297875 | 0.769 | 1 | 64221 | ROBO3 |
| 0.056370653 | 0.743297875 | 0.754 | 1 | 153328 | AC011427.1 |
| 0.056113254 | 0.744433284 | 0.763 | 1 | 55113 | XKR8 |
| 0.056113254 | 0.744433284 | 0.756 | 1 | 55660 | PRPF40A |
| 0.056113254 | 0.744433284 | 0.756 | 1 | 91039 | DPP9 |
| 0.056113254 | 0.744433284 | 0.764 | 1 | 342926 | ZNF677 |
| 0.056113254 | 0.744433284 | 0.773 | 1 | 492307 | C8orf22 |
| 0.055855855 | 0.745568752 | 0.746 | 1 | 415 | ARSE |
| 0.055855855 | 0.745568752 | 0.779 | 1 | 7486 | WRN |
| 0.055855855 | 0.745568752 | 0.756 | 1 | 8440 | NCK2 |
| 0.055855855 | 0.745568752 | 0.764 | 1 | 55184 | C20orf12 |
| 0.055855855 | 0.745568752 | 0.769 | 1 | 84132 | USP42 |
| 0.055855855 | 0.745568752 | 0.791 | 1 | 92014 | MCART1 |
| 0.055855855 | 0.745568752 | 0.778 | 1 | 114990 | VASN |
| 0.055855855 | 0.745568752 | 0.749 | 1 | 139431 | FTH1P14 |
| 0.055855855 | 0.745568752 | 0.761 | 1 | 201562 | PTPLB |
| 0.055855855 | 0.745568752 | 0.754 | 1 | 219537 | SMTNL1 |
| 0.055598456 | 0.746704698 | 0.766 | 1 | 5986 | RFNG |
| 0.055598456 | 0.746704698 | 0.798 | 1 | 10417 | SPON2 |
| 0.055598456 | 0.746704698 | 0.752 | 1 | 25941 | C18orf10 |
| 0.055598456 | 0.746704698 | 0.763 | 1 | 55607 | PPP1R9A |
| 0.055598456 | 0.746704698 | 0.783 | 1 | 90355 | C5orf30 |
| 0.055341057 | 0.747841239 | 0.761 | 1 | 87 | ACTN1 |
| 0.055341057 | 0.747841239 | 0.761 | 1 | 3628 | INPP1 |
| 0.055341057 | 0.747841239 | 0.761 | 1 | 10279 | PRSS16 |
| 0.055341057 | 0.747841239 | 0.766 | 1 | 10438 | C1D |
| 0.055341057 | 0.747841239 | 0.784 | 1 | 27094 | KCNMB3 |
| 0.055341057 | 0.747841239 | 0.765 | 1 | 58498 | MYL7 |
| 0.055341057 | 0.747841239 | 0.763 | 1 | 152330 | CNTN4 |
| 0.055083655 | 0.748978257 | 0.784 | 1 | 11318 | GPR182 |
| 0.055083655 | 0.748978257 | 0.772 | 1 | 23098 | SARM1 |
| 0.055083655 | 0.748978257 | 0.779 | 1 | 84443 | FRMPD3 |
| 0.054826252 | 0.750116348 | 0.765 | 1 | 829 | CAPZA1 |
| 0.054826252 | 0.750116348 | 0.771 | 1 | 1014 | CDH16 |
| 0.054826252 | 0.750116348 | 0.789 | 1 | 6123 | RPL3L |
| 0.054826252 | 0.750116348 | 0.786 | 1 | 9365 | KL |
| 0.054826252 | 0.750116348 | 0.783 | 1 | 23562 | CLDN14 |
| 0.054826252 | 0.750116348 | 0.767 | 1 | 55432 | YOD1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.080600619 | 3.876E-13 | 100270746 | LOC100270746 |
| 0.080589108 | 3.90594E-13 | 7322 | UBE2D2 |
| 0.080580093 | 3.92952E-13 | 5739 | PTGIR |
| 0.080570996 | 3.95348E-13 | 284422 | AC005551.1 |
| 0.080532178 | 4.05727E-13 | 58500 | ZNF250 |
| 0.080531344 | 4.05953E-13 | 8424 | BBOX1 |
| 0.080516018 | 4.10127E-13 | 79369 | B3GNT4 |
| 0.080452688 | 4.27824E-13 | 720 | C4A |
| 0.08038415 | 4.47824E-13 | 6556 | SLC11A1 |
| 0.080361679 | 4.54579E-13 | 84146 | ZNF644 |
| 0.080303632 | 4.72494E-13 | 124222 | PAQR4 |
| 0.080276422 | 4.81127E-13 | 57596 | BEGAIN |
| 0.080267973 | 4.83839E-13 | 80863 | PRRT1 |
| 0.080221541 | 4.99017E-13 | 79930 | DOK3 |
| 0.080219403 | 4.99728E-13 | 81328 | OR4A15 |
| 0.080190152 | 5.09541E-13 | 7932 | OR2H2 |
| 0.080162853 | 5.18871E-13 | 653390 | AC009093.1 |
| 0.080116048 | 5.35256E-13 | 762 | CA4 |
| 0.080114655 | 5.35753E-13 | 90199 | WFDC8 |
| 0.080065526 | 5.53514E-13 | 83640 | FAM103A1 |
| 0.080062926 | 5.54472E-13 | 55898 | UNC45A |
| 0.079967648 | 5.90643E-13 | 54923 | LIME1 |
| 0.079961054 | 5.9323E-13 | 10714 | POLD3 |
| 0.079937279 | 6.0265E-13 | 8669 | EIF3J |
| 0.079858713 | 6.34845E-13 | 5321 | PLA2G4A |
| 0.079784796 | 6.66668E-13 | 10021 | HCN4 |
| 0.079733625 | 6.89614E-13 | 220115 | TPTE2P3 |
| 0.079644933 | 7.31228E-13 | 9130 | FAM50A |
| 0.079564236 | 7.71226E-13 | 81858 | SHARPIN |
| 0.079540372 | 7.83463E-13 | 126208 | ZNF787 |
| 0.079459295 | 8.26468E-13 | 55628 | ZNF407 |
| 0.079445742 | 8.3388E-13 | 642661 | LOC642661 |
| 0.079410821 | 8.53282E-13 | 348262 | AC174470.1 |
| 0.079383515 | 8.68757E-13 | 26205 | GMEB2 |
| 0.079255179 | 9.45266E-13 | 4283 | CXCL9 |
| 0.079235025 | 9.57864E-13 | 3612 | IMPA1 |
| 0.079221278 | 9.66556E-13 | 548645 | DNAJC25 |
| 0.079203732 | 9.7776E-13 | 253430 | IPMK |
| 0.079165377 | 1.0027E-12 | 474381 | H2AFB2 |
| 0.079135105 | 1.02282E-12 | 137964 | AGPAT6 |
| 0.07912758 | 1.02788E-12 | 100128977 | MAPT-AS1 |
| 0.079124048 | 1.03026E-12 | 3932 | LCK |
| 0.079116903 | 1.03511E-12 | 339344 | MYPOP |
| 0.079022638 | 1.1011E-12 | 4696 | NDUFA3 |
| 0.079008155 | 1.1116E-12 | 5317 | PKP1 |
| 0.079002582 | 1.11566E-12 | 22827 | PUF60 |
| 0.078928195 | 1.17135E-12 | 11138 | TBC1D8 |
| 0.078897923 | 1.19479E-12 | 116931 | MED12L |
| 0.078876749 | 1.21145E-12 | 6653 | SORL1 |
| 0.078860588 | 1.22432E-12 | 5230 | PGK1 |
| 0.078824833 | 1.25328E-12 | 11103 | KRR1 |
| 0.078786112 | 1.28541E-12 | 9804 | TOMM20 |
| 0.078776643 | 1.29338E-12 | 170960 | ZNF721 |
| 0.078686744 | 1.37156E-12 | 25801 | GCA |
| 0.078686744 | 1.37156E-12 | 140738 | TMEM37 |
| 0.078655727 | 1.39961E-12 | 80208 | SPG11 |
| 0.078637064 | 1.41674E-12 | 84852 | C1orf203 |
| 0.078595646 | 1.45552E-12 | 9588 | PRDX6 |
| 0.07857243 | 1.47771E-12 | 84256 | FLYWCH1 |
| 0.078572333 | 1.47781E-12 | 55301 | OLAH |
| 0.07855209 | 1.49742E-12 | 9831 | ZNF623 |
| 0.078417249 | 1.63479E-12 | 400954 | EML6 |
| 0.078401923 | 1.65117E-12 | 64061 | TSPYL2 |
| 0.078350477 | 1.70733E-12 | 23201 | FAM168A |
| 0.078336082 | 1.72336E-12 | 5202 | PFDN2 |
| 0.078301907 | 1.76205E-12 | 84708 | LNX1 |
| 0.078291789 | 1.77367E-12 | 163087 | ZNF383 |
| 0.078118496 | 1.98468E-12 | 5427 | POLE2 |
| 0.07807903 | 2.03607E-12 | 84910 | TMEM87B |
| 0.078078844 | 2.03632E-12 | 100131827 | ZNF717 |
| 0.078072064 | 2.04528E-12 | 27306 | PGDS |
| 0.078070484 | 2.04737E-12 | 51015 | ISOC1 |
| 0.078039937 | 2.08827E-12 | 989 | SEPTIN7 |
| 0.078035474 | 2.09431E-12 | 7029 | TFDP2 |
| 0.07800065 | 2.14204E-12 | 199834 | LCE4A |
| 0.077988207 | 2.15934E-12 | 10563 | CXCL13 |
| 0.077974088 | 2.17916E-12 | 1951 | CELSR3 |
| 0.077938803 | 2.22945E-12 | 54517 | PUS7 |
| 0.077935271 | 2.23456E-12 | 5265 | SERPINA1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.054826252 | 0.750116348 | 0.775 | 1 | 124997 | WDR81 |
| 0.054826252 | 0.750116348 | 0.776 | 1 | 147381 | CBLN2 |
| 0.054826252 | 0.750116348 | 0.772 | 1 | 374650 | GOLGA6L5 |
| 0.054568853 | 0.751254499 | 0.767 | 1 | 746 | C11orf10 |
| 0.054568853 | 0.751254499 | 0.771 | 1 | 2564 | GABRE |
| 0.054568853 | 0.751254499 | 0.751 | 1 | 3042 | HBM |
| 0.054568853 | 0.751254499 | 0.772 | 1 | 9390 | SLC22A13 |
| 0.054568853 | 0.751254499 | 0.766 | 1 | 166012 | CHST13 |
| 0.054568853 | 0.751254499 | 0.79 | 1 | 207107 | SFTA1P |
| 0.054568853 | 0.751254499 | 0.775 | 1 | 286359 | LOC286359 |
| 0.054311454 | 0.752393067 | 0.767 | 1 | 10594 | PRPF8 |
| 0.054311454 | 0.752393067 | 0.766 | 1 | 11021 | RAB35 |
| 0.054311454 | 0.752393067 | 0.785 | 1 | 29850 | TRPM5 |
| 0.054311454 | 0.752393067 | 0.789 | 1 | 55906 | ZC4H2 |
| 0.054311454 | 0.752393067 | 0.787 | 1 | 57647 | DHX37 |
| 0.054311454 | 0.752393067 | 0.763 | 1 | 146664 | MGAT5B |
| 0.054311454 | 0.752393067 | 0.752 | 1 | 389137 | ARMC10P1 |
| 0.054311454 | 0.752393067 | 0.767 | 1 | 100289060 | LOC100289060 |
| 0.054054055 | 0.753532231 | 0.762 | 1 | 333 | APLP1 |
| 0.054054055 | 0.753532231 | 0.793 | 1 | 4221 | MEN1 |
| 0.054054055 | 0.753532231 | 0.774 | 1 | 11166 | SOX21 |
| 0.054054055 | 0.753532231 | 0.777 | 1 | 54715 | A2BP1 |
| 0.054054055 | 0.753532231 | 0.775 | 1 | 65005 | MRPL9 |
| 0.054054055 | 0.753532231 | 0.776 | 1 | 130827 | TMEM182 |
| 0.053796653 | 0.754672468 | 0.772 | 1 | 57478 | USP31 |
| 0.053796653 | 0.754672468 | 0.771 | 1 | 92667 | C20orf72 |
| 0.053539254 | 0.755812645 | 0.768 | 1 | 219 | ALDH1B1 |
| 0.053539254 | 0.755812645 | 0.784 | 1 | 3033 | HADH |
| 0.053539254 | 0.755812645 | 0.794 | 1 | 3308 | HSPA4 |
| 0.053539254 | 0.755812645 | 0.78 | 1 | 8648 | NCOA1 |
| 0.053539254 | 0.755812645 | 0.788 | 1 | 9874 | TLK1 |
| 0.053539254 | 0.755812645 | 0.788 | 1 | 11273 | ATXN2L |
| 0.053539254 | 0.755812645 | 0.779 | 1 | 22872 | SEC31A |
| 0.053539254 | 0.755812645 | 0.789 | 1 | 23251 | KIAA1024 |
| 0.053539254 | 0.755812645 | 0.777 | 1 | 56916 | SMARCAD1 |
| 0.053539254 | 0.755812645 | 0.752 | 1 | 80832 | APOL4 |
| 0.053539254 | 0.755812645 | 0.771 | 1 | 340351 | AGBL3 |
| 0.053539254 | 0.755812645 | 0.754 | 1 | 353497 | POLN |
| 0.053539254 | 0.755812645 | 0.761 | 1 | 100131785 | LOC100131785 |
| 0.053281851 | 0.756953359 | 0.787 | 1 | 10328 | COX4NB |
| 0.053281851 | 0.756953359 | 0.763 | 1 | 55240 | STEAP3 |
| 0.053281851 | 0.756953359 | 0.759 | 1 | 131583 | FAM43A |
| 0.053281851 | 0.756953359 | 0.76 | 1 | 339512 | C1orf110 |
| 0.053024452 | 0.758094549 | 0.783 | 1 | 1141 | CHRNB2 |
| 0.053024452 | 0.758094549 | 0.783 | 1 | 7538 | ZFP36 |
| 0.053024452 | 0.758094549 | 0.774 | 1 | 50486 | G0S2 |
| 0.053024452 | 0.758094549 | 0.768 | 1 | 116985 | ARAP1 |
| 0.053024452 | 0.758094549 | 0.749 | 1 | 646892 | SH2D7 |
| 0.05276705 | 0.759236217 | 0.781 | 1 | 120 | ADD3 |
| 0.05276705 | 0.759236217 | 0.77 | 1 | 23443 | SLC35A3 |
| 0.05276705 | 0.759236217 | 0.776 | 1 | 64374 | SIL1 |
| 0.052509651 | 0.760379016 | 0.778 | 1 | 3191 | HNRNPL |
| 0.052509651 | 0.760379016 | 0.764 | 1 | 6223 | RPS19 |
| 0.052509651 | 0.760379016 | 0.787 | 1 | 345895 | RSHL1 |
| 0.052509651 | 0.760379016 | 0.766 | 1 | 441951 | ZNFX1-AS1 |
| 0.052252252 | 0.761521697 | 0.793 | 1 | 7126 | TNFAIP1 |
| 0.052252252 | 0.761521697 | 0.766 | 1 | 10999 | SLC27A4 |
| 0.052252252 | 0.761521697 | 0.779 | 1 | 80006 | C5orf44 |
| 0.052252252 | 0.761521697 | 0.76 | 1 | 129852 | C2orf73 |
| 0.052252252 | 0.761521697 | 0.783 | 1 | 136371 | ASB10 |
| 0.052252252 | 0.761521697 | 0.788 | 1 | 286046 | XKR6 |
| 0.052252252 | 0.761521697 | 0.789 | 1 | 389075 | RESP18 |
| 0.051994853 | 0.762664974 | 0.775 | 1 | 9368 | SLC9A3R1 |
| 0.051994853 | 0.762664974 | 0.778 | 1 | 9530 | BAG4 |
| 0.051994853 | 0.762664974 | 0.804 | 1 | 50804 | MYEF2 |
| 0.051994853 | 0.762664974 | 0.804 | 1 | 133619 | PRRC1 |
| 0.051737454 | 0.763808727 | 0.788 | 1 | 4835 | NQO2 |
| 0.051737454 | 0.763808727 | 0.778 | 1 | 7266 | DNAJC7 |
| 0.051737454 | 0.763808727 | 0.769 | 1 | 9200 | PTPLA |
| 0.051737454 | 0.763808727 | 0.802 | 1 | 140578 | CHODL |
| 0.051737454 | 0.763808727 | 0.771 | 1 | 222255 | ATXN7L1 |
| 0.051737454 | 0.763808727 | 0.795 | 1 | 256979 | SUNC1 |
| 0.051737454 | 0.763808727 | 0.773 | 1 | 341152 | OR2AT4 |
| 0.051737454 | 0.763808727 | 0.781 | 1 | 441094 | AC106818.2 |
| 0.051737454 | 0.763808727 | 0.799 | 1 | 643630 | LOC643630 |
| 0.051480047 | 0.764953434 | 0.788 | 1 | 35 | ACADS |
| 0.051480047 | 0.764953434 | 0.767 | 1 | 4501 | MT1X |
| 0.051480047 | 0.764953434 | 0.804 | 1 | 8824 | CES2 |
| 0.051480047 | 0.764953434 | 0.78 | 1 | 11116 | FGFR1OP |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.077934064 | 2.2363E-12 | 5990 | RFX2 |
| 0.077925615 | 2.24854E-12 | 127540 | HMGB4 |
| 0.077906951 | 2.27584E-12 | 93426 | SYCE1 |
| 0.077886708 | 2.3058E-12 | 200035 | NUDT17 |
| 0.077820957 | 2.40581E-12 | 339768 | ESPNL |
| 0.077804886 | 2.4309E-12 | 10814 | CPLX2 |
| 0.07775604 | 2.50874E-12 | 9818 | NUPL1 |
| 0.077750467 | 2.51778E-12 | 153768 | PRELID2 |
| 0.07766448 | 2.66127E-12 | 7113 | TMPRSS2 |
| 0.077587955 | 2.7957E-12 | 55343 | SLC35C1 |
| 0.07757885 | 2.81213E-12 | 100128385 | LINC00256B |
| 0.077572167 | 2.82426E-12 | 643310 | ST13P18 |
| 0.077529632 | 2.90261E-12 | 54674 | LRRN3 |
| 0.077437699 | 3.0793E-12 | 65249 | ZSWIM4 |
| 0.077271655 | 3.42556E-12 | 9721 | GPRIN2 |
| 0.077270262 | 3.42863E-12 | 1476 | CSTB |
| 0.077256605 | 3.45877E-12 | 5167 | ENPP1 |
| 0.077202559 | 3.58065E-12 | 346528 | OR2A1 |
| 0.077178419 | 3.63645E-12 | 85359 | DGCR6L |
| 0.077160031 | 3.67952E-12 | 6910 | TBX5 |
| 0.077033728 | 3.98913E-12 | 254048 | UBN2 |
| 0.07701692 | 4.03222E-12 | 81553 | FAM49A |
| 0.07701423 | 4.03916E-12 | 84791 | C1orf97 |
| 0.076955445 | 4.19371E-12 | 5252 | PHF1 |
| 0.076943003 | 4.22715E-12 | 8687 | KRT38 |
| 0.076902047 | 4.33913E-12 | 4688 | NCF2 |
| 0.076852366 | 4.47882E-12 | 91056 | AP5B1 |
| 0.076813452 | 4.59135E-12 | 8836 | GGH |
| 0.076748908 | 4.78411E-12 | 2358 | FPR2 |
| 0.076706842 | 4.91397E-12 | 7319 | UBE2A |
| 0.076614901 | 5.20995E-12 | 8878 | SQSTM1 |
| 0.076610357 | 5.22503E-12 | 441601 | LOC441601 |
| 0.076558724 | 5.39932E-12 | 128853 | DUSP15 |
| 0.076523341 | 5.52206E-12 | 8968 | HIST1H3F |
| 0.076514885 | 5.55179E-12 | 51249 | TMEM69 |
| 0.076478951 | 5.67991E-12 | 90576 | ZNF799 |
| 0.076424994 | 5.8777E-12 | 123207 | C15orf40 |
| 0.076399922 | 5.97193E-12 | 171586 | ABHD3 |
| 0.076358594 | 6.13042E-12 | 2002 | ELK1 |
| 0.0763468 | 6.17642E-12 | 284018 | C17orf58 |
| 0.07631699 | 6.29416E-12 | 54700 | RRN3 |
| 0.076279379 | 6.44588E-12 | 6894 | TARBP1 |
| 0.076233968 | 6.63383E-12 | 112724 | RDH13 |
| 0.07623025 | 6.64946E-12 | 642987 | TMEM232 |
| 0.076214284 | 6.71694E-12 | 51706 | CYB5R1 |
| 0.076200627 | 6.77521E-12 | 11117 | EMILIN1 |
| 0.076104976 | 7.19745E-12 | 55283 | MCOLN3 |
| 0.076096155 | 7.23767E-12 | 340784 | HMX3 |
| 0.076088816 | 7.2713E-12 | 2651 | GCNT2 |
| 0.076066159 | 7.37608E-12 | 147947 | ZNF542 |
| 0.076045267 | 7.474E-12 | 285267 | ZNF619 |
| 0.076031424 | 7.5396E-12 | 440699 | LRRC52 |
| 0.076026879 | 7.56125E-12 | 23302 | WSCD1 |
| 0.07599967 | 7.69215E-12 | 196 | AHR |
| 0.07594952 | 7.9393E-12 | 7272 | TTK |
| 0.075927697 | 8.04929E-12 | 27141 | CIDEB |
| 0.075861298 | 8.39315E-12 | 132243 | H1FOO |
| 0.075817183 | 8.6295E-12 | 221443 | C6orf130 |
| 0.075811617 | 8.65979E-12 | 219938 | SPATA19 |
| 0.075793229 | 8.76058E-12 | 7922 | SLC39A7 |
| 0.075636283 | 9.66883E-12 | 9136 | RRP9 |
| 0.075626999 | 9.72532E-12 | 8484 | GALR3 |
| 0.075529948 | 1.0336E-11 | 128240 | APOA1BP |
| 0.075519644 | 1.04029E-11 | 63874 | ABHD4 |
| 0.075496987 | 1.05517E-11 | 2632 | GBE1 |
| 0.07548742 | 1.06152E-11 | 4849 | CNOT3 |
| 0.075419717 | 1.1075E-11 | 79874 | RABEP2 |
| 0.075410709 | 1.11377E-11 | 84515 | MCM8 |
| 0.075386383 | 1.13086E-11 | 23093 | TTLL5 |
| 0.075345986 | 1.15981E-11 | 253260 | RICTOR |
| 0.075318493 | 1.17992E-11 | 387695 | C10orf99 |
| 0.075269185 | 1.21686E-11 | 9131 | AIFM1 |
| 0.075253122 | 1.22914E-11 | 4880 | NPPC |
| 0.075194888 | 1.27466E-11 | 468 | ATF4 |
| 0.07518848 | 1.27977E-11 | 283933 | ZNF843 |
| 0.075169355 | 1.29514E-11 | 7374 | UNG |
| 0.075153567 | 1.30797E-11 | 115827 | RAB3C |
| 0.075150967 | 1.31009E-11 | 10015 | PDCD6IP |
| 0.075137965 | 1.32076E-11 | 64881 | PCDH20 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.051480047 | 0.764953434 | 0.79 | 1 | 79833 | GEMIN6 |
| 0.051480047 | 0.764953434 | 0.784 | 1 | 130814 | PQLC3 |
| 0.051480047 | 0.764953434 | 0.782 | 1 | 171023 | ASXL1 |
| 0.051480047 | 0.764953434 | 0.772 | 1 | 644422 | LOC644422 |
| 0.051222648 | 0.766098201 | 0.77 | 1 | 3489 | IGFBP6 |
| 0.051222648 | 0.766098201 | 0.793 | 1 | 3816 | KLK1 |
| 0.051222648 | 0.766098201 | 0.8 | 1 | 151254 | ALS2CR11 |
| 0.05096525 | 0.767243445 | 0.793 | 1 | 1607 | DGKB |
| 0.05096525 | 0.767243445 | 0.802 | 1 | 6170 | RPL39 |
| 0.05096525 | 0.767243445 | 0.771 | 1 | 7732 | RNF112 |
| 0.05096525 | 0.767243445 | 0.769 | 1 | 10460 | TACC3 |
| 0.05096525 | 0.767243445 | 0.798 | 1 | 81602 | CDADC1 |
| 0.05096525 | 0.767243445 | 0.793 | 1 | 149371 | EXOC8 |
| 0.05096525 | 0.767243445 | 0.771 | 1 | 388815 | C21orf34 |
| 0.050707851 | 0.768389165 | 0.817 | 1 | 5045 | FURIN |
| 0.050707851 | 0.768389165 | 0.813 | 1 | 7102 | TSPAN7 |
| 0.050707851 | 0.768389165 | 0.792 | 1 | 8293 | SERF1A |
| 0.050707851 | 0.768389165 | 0.788 | 1 | 10289 | EIF1B |
| 0.050707851 | 0.768389165 | 0.783 | 1 | 10634 | GAS2L1 |
| 0.050707851 | 0.768389165 | 0.793 | 1 | 27249 | MMADHC |
| 0.050707851 | 0.768389165 | 0.783 | 1 | 54627 | KIAA1383 |
| 0.050707851 | 0.768389165 | 0.799 | 1 | 90673 | PPP1R3E |
| 0.050707851 | 0.768389165 | 0.801 | 1 | 113157 | RPLP0P2 |
| 0.050707851 | 0.768389165 | 0.799 | 1 | 220885 | RPSAP15 |
| 0.050707851 | 0.768389165 | 0.789 | 1 | 728215 | FAM155A |
| 0.050707851 | 0.768389165 | 0.77 | 1 | 100129935 | LOC100129935 |
| 0.050450452 | 0.769535899 | 0.794 | 1 | 655 | BMP7 |
| 0.050450452 | 0.769535899 | 0.785 | 1 | 55796 | MBNL3 |
| 0.050450452 | 0.769535899 | 0.762 | 1 | 79746 | ECHDC3 |
| 0.050450452 | 0.769535899 | 0.788 | 1 | 148170 | CDC42EP5 |
| 0.050450452 | 0.769535899 | 0.791 | 1 | 347468 | OR13H1 |
| 0.050193049 | 0.770682633 | 0.787 | 1 | 6528 | SLC5A5 |
| 0.050193049 | 0.770682633 | 0.775 | 1 | 55133 | SRBD1 |
| 0.050193049 | 0.770682633 | 0.808 | 1 | 79716 | NPEPL1 |
| 0.050193049 | 0.770682633 | 0.775 | 1 | 90441 | ZNF622 |
| 0.050193049 | 0.770682633 | 0.77 | 1 | 201625 | DNAH12 |
| 0.04993565 | 0.771829724 | 0.774 | 1 | 15 | AANAT |
| 0.04993565 | 0.771829724 | 0.809 | 1 | 754 | PTTG1IP |
| 0.04993565 | 0.771829724 | 0.809 | 1 | 9689 | BZW1 |
| 0.04993565 | 0.771829724 | 0.798 | 1 | 22818 | COPZ1 |
| 0.04993565 | 0.771829724 | 0.777 | 1 | 53916 | RAB4B |
| 0.04993565 | 0.771829724 | 0.797 | 1 | 55653 | BCAS4 |
| 0.04993565 | 0.771829724 | 0.793 | 1 | 140733 | MACROD2 |
| 0.04993565 | 0.771829724 | 0.798 | 1 | 147687 | ZNF417 |
| 0.04993565 | 0.771829724 | 0.787 | 1 | 253190 | SERHL2 |
| 0.049678247 | 0.772977412 | 0.802 | 1 | 6878 | TAF6 |
| 0.049678247 | 0.772977412 | 0.793 | 1 | 51617 | AC093310.1 |
| 0.049678247 | 0.772977412 | 0.772 | 1 | 57343 | ZNF304 |
| 0.049678247 | 0.772977412 | 0.801 | 1 | 93953 | ACRC |
| 0.049678247 | 0.772977412 | 0.804 | 1 | 317649 | EIF4E3 |
| 0.049420848 | 0.774125576 | 0.808 | 1 | 6156 | RPL30 |
| 0.04916345 | 0.775274694 | 0.777 | 1 | 218 | ALDH3A1 |
| 0.04916345 | 0.775274694 | 0.772 | 1 | 5170 | PDPK1 |
| 0.04916345 | 0.775274694 | 0.801 | 1 | 8343 | HIST1H2BF |
| 0.04916345 | 0.775274694 | 0.79 | 1 | 9568 | GABBR2 |
| 0.04916345 | 0.775274694 | 0.771 | 1 | 26515 | FXC1 |
| 0.04916345 | 0.775274694 | 0.789 | 1 | 27043 | PELP1 |
| 0.048906047 | 0.776423812 | 0.805 | 1 | 11285 | B4GALT7 |
| 0.048906047 | 0.776423812 | 0.798 | 1 | 54788 | DNAJB12 |
| 0.048648648 | 0.777573407 | 0.816 | 1 | 25843 | MOBKL3 |
| 0.048648648 | 0.777573407 | 0.791 | 1 | 79657 | RPAP3 |
| 0.048648648 | 0.777573407 | 0.801 | 1 | 89944 | GLB1L2 |
| 0.048648648 | 0.777573407 | 0.802 | 1 | 387763 | C11orf96 |
| 0.048391249 | 0.778723419 | 0.793 | 1 | 1111 | CHEK1 |
| 0.048391249 | 0.778723419 | 0.778 | 1 | 3921 | RPSA |
| 0.048391249 | 0.778723419 | 0.799 | 1 | 5732 | PTGER2 |
| 0.048391249 | 0.778723419 | 0.788 | 1 | 6202 | RPS8 |
| 0.048391249 | 0.778723419 | 0.789 | 1 | 6319 | SCD |
| 0.048391249 | 0.778723419 | 0.783 | 1 | 9733 | SART3 |
| 0.048391249 | 0.778723419 | 0.776 | 1 | 10748 | RP11-904M10.1 |
| 0.04813385 | 0.779874504 | 0.801 | 1 | 5277 | PIGA |
| 0.04813385 | 0.779874504 | 0.798 | 1 | 6341 | SCO1 |
| 0.04813385 | 0.779874504 | 0.804 | 1 | 7979 | SHFM1 |
| 0.04813385 | 0.779874504 | 0.815 | 1 | 10884 | MRPS30 |
| 0.04813385 | 0.779874504 | 0.778 | 1 | 23380 | SRGAP2 |
| 0.04813385 | 0.779874504 | 0.789 | 1 | 374986 | FAM73A |
| 0.047876447 | 0.781025469 | 0.798 | 1 | 1536 | CYBB |
| 0.047876447 | 0.781025469 | 0.8 | 1 | 1821 | DRP2 |
| 0.047876447 | 0.781025469 | 0.787 | 1 | 2178 | FANCE |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.075117625 | 1.33763E-11 | 10307 | APBB3 |
| 0.07509283 | 1.35847E-11 | 283385 | MORN3 |
| 0.075033672 | 1.4095E-11 | 51714 | SELT |
| 0.075012781 | 1.42795E-11 | 11161 | C14orf1 |
| 0.075006835 | 1.43326E-11 | 145165 | ST13P4 |
| 0.074979909 | 1.45749E-11 | 26156 | RSL1D1 |
| 0.07489939 | 1.53237E-11 | 342898 | SYCN |
| 0.074786283 | 1.64397E-11 | 746 | C11orf10 |
| 0.074680135 | 1.75591E-11 | 114984 | FLYWCH2 |
| 0.074658126 | 1.78005E-11 | 2811 | GP1BA |
| 0.074645869 | 1.79362E-11 | 85365 | ALG2 |
| 0.074591726 | 1.85482E-11 | 26251 | KCNG2 |
| 0.074573897 | 1.87542E-11 | 3714 | JAG2 |
| 0.074557923 | 1.89407E-11 | 5318 | PKP2 |
| 0.074491523 | 1.97352E-11 | 2762 | GMDS |
| 0.074474901 | 1.99392E-11 | 93624 | TADA2B |
| 0.07446719 | 2.00345E-11 | 9351 | SLC9A3R2 |
| 0.074417882 | 2.06546E-11 | 144195 | SLC2A14 |
| 0.074416675 | 2.06701E-11 | 7009 | TMBIM6 |
| 0.074342199 | 2.16433E-11 | 1128 | CHRM1 |
| 0.074296415 | 2.22637E-11 | 375190 | C2orf84 |
| 0.074278116 | 2.25165E-11 | 3798 | KIF5A |
| 0.074265584 | 2.26912E-11 | 27258 | LSM3 |
| 0.074226208 | 2.3249E-11 | 149428 | BNIPL |
| 0.074205033 | 2.35544E-11 | 63977 | PRDM15 |
| 0.074188873 | 2.37902E-11 | 168391 | GALNTL5 |
| 0.074130923 | 2.46547E-11 | 51352 | WT1-AS |
| 0.074113466 | 2.49211E-11 | 401022 | HOXD-AS1 |
| 0.074074373 | 2.55281E-11 | 10188 | TNK2 |
| 0.074074 | 2.55339E-11 | 27430 | MAT2B |
| 0.073912688 | 2.81953E-11 | 9509 | ADAMTS2 |
| 0.073885016 | 2.86783E-11 | 280664 | WFDC10B |
| 0.073817596 | 2.98894E-11 | 4609 | MYC |
| 0.073774785 | 3.06843E-11 | 728 | C5AR1 |
| 0.073769957 | 3.07751E-11 | 8820 | HESX1 |
| 0.073745348 | 3.12428E-11 | 28981 | IFT81 |
| 0.073666133 | 3.27956E-11 | 1747 | DLX3 |
| 0.073624715 | 3.36371E-11 | 22869 | ZNF510 |
| 0.073543362 | 3.53524E-11 | 56097 | PCDHGC5 |
| 0.073537044 | 3.54892E-11 | 51141 | INSIG2 |
| 0.073536858 | 3.54932E-11 | 64747 | MFSD1 |
| 0.073514111 | 3.59899E-11 | 57147 | SCYL3 |
| 0.073511228 | 3.60534E-11 | 23534 | TNPO3 |
| 0.073504634 | 3.61988E-11 | 64708 | COPS7B |
| 0.073501199 | 3.62748E-11 | 56833 | SLAMF8 |
| 0.073489219 | 3.65411E-11 | 255928 | SYT14 |
| 0.073472969 | 3.69055E-11 | 26259 | FBXW8 |
| 0.073450401 | 3.74174E-11 | 23237 | ARC |
| 0.073429972 | 3.78866E-11 | 2322 | FLT3 |
| 0.073428676 | 3.79166E-11 | 148304 | C1orf74 |
| 0.073371097 | 3.92718E-11 | 9783 | RIMS3 |
| 0.073365986 | 3.93943E-11 | 340595 | ZCCHC16 |
| 0.073362365 | 3.94813E-11 | 730755 | KRTAP2-1 |
| 0.073348157 | 3.98248E-11 | 7699 | ZNF140 |
| 0.073336177 | 4.01165E-11 | 910 | CD1B |
| 0.073307946 | 4.08125E-11 | 6760 | SS18 |
| 0.073201522 | 4.35438E-11 | 79711 | IPO4 |
| 0.073129088 | 4.55043E-11 | 5297 | PI4KA |
| 0.073064171 | 4.73344E-11 | 57149 | LYRM1 |
| 0.073022664 | 4.85422E-11 | 54793 | KCTD9 |
| 0.073009938 | 4.89184E-11 | 84789 | MGC2889 |
| 0.072975025 | 4.99654E-11 | 646808 | LOC646808 |
| 0.072952174 | 5.06627E-11 | 10382 | TUBB4 |
| 0.072844356 | 5.40821E-11 | 6498 | SKIL |
| 0.072812043 | 5.51503E-11 | 3481 | IGF2 |
| 0.072741926 | 5.75395E-11 | 4246 | SCGB2A1 |
| 0.072703764 | 5.88822E-11 | 80014 | WWC2 |
| 0.072678313 | 5.97945E-11 | 5027 | P2RX7 |
| 0.072657146 | 6.0564E-11 | 643965 | TMEM88B |
| 0.072643302 | 6.10722E-11 | 50814 | NSDHL |
| 0.072607182 | 6.24183E-11 | 23220 | DTX4 |
| 0.072574116 | 6.36761E-11 | 257106 | ARHGAP30 |
| 0.072558515 | 6.42782E-11 | 140625 | ACTRT2 |
| 0.072539575 | 6.50167E-11 | 51619 | UBE2D4 |
| 0.07253623 | 6.51481E-11 | 29889 | GNL2 |
| 0.072487473 | 6.70907E-11 | 768096 | HAR1A |
| 0.072440855 | 6.90012E-11 | 10969 | EBNA1BP2 |
| 0.072416343 | 7.00272E-11 | 619455 | SPANXA2-OT1 |
| 0.072410487 | 7.02745E-11 | 412 | STS |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.047876447 | 0.781025469 | 0.799 | 1 | 3642 | INSM1 |
| 0.047876447 | 0.781025469 | 0.783 | 1 | 54808 | DYM |
| 0.047876447 | 0.781025469 | 0.795 | 1 | 55033 | FKBP14 |
| 0.047876447 | 0.781025469 | 0.823 | 1 | 55168 | MRPS18A |
| 0.047876447 | 0.781025469 | 0.801 | 1 | 90957 | DHX57 |
| 0.047876447 | 0.781025469 | 0.807 | 1 | 147949 | ZNF583 |
| 0.047876447 | 0.781025469 | 0.787 | 1 | 148545 | NBPF4 |
| 0.047876447 | 0.781025469 | 0.822 | 1 | 253558 | LCLAT1 |
| 0.047619045 | 0.782176912 | 0.812 | 1 | 2045 | EPHA7 |
| 0.047619045 | 0.782176912 | 0.807 | 1 | 6332 | SCN7A |
| 0.047619045 | 0.782176912 | 0.814 | 1 | 8165 | AKAP1 |
| 0.047619045 | 0.782176912 | 0.793 | 1 | 9002 | F2RL3 |
| 0.047619045 | 0.782176912 | 0.823 | 1 | 80781 | COL18A1 |
| 0.047619045 | 0.782176912 | 0.799 | 1 | 116085 | SLC22A12 |
| 0.047619045 | 0.782176912 | 0.807 | 1 | 100130691 | AC074286.1 |
| 0.047361646 | 0.783328772 | 0.815 | 1 | 165 | AEBP1 |
| 0.047361646 | 0.783328772 | 0.805 | 1 | 213 | ALB |
| 0.047361646 | 0.783328772 | 0.799 | 1 | 1591 | CYP24A1 |
| 0.047361646 | 0.783328772 | 0.821 | 1 | 5740 | PTGIS |
| 0.047361646 | 0.783328772 | 0.805 | 1 | 8517 | IKBKG |
| 0.047361646 | 0.783328772 | 0.788 | 1 | 10421 | CD2BP2 |
| 0.047361646 | 0.783328772 | 0.814 | 1 | 23179 | RGL1 |
| 0.047361646 | 0.783328772 | 0.796 | 1 | 23275 | POFUT2 |
| 0.047361646 | 0.783328772 | 0.794 | 1 | 54442 | KCTD5 |
| 0.047361646 | 0.783328772 | 0.812 | 1 | 404266 | RP11-357H14.1 |
| 0.047104247 | 0.784481704 | 0.799 | 1 | 4925 | NUCB2 |
| 0.046846848 | 0.785634518 | 0.795 | 1 | 4360 | MRC1 |
| 0.046846848 | 0.785634518 | 0.797 | 1 | 26973 | CHORDC1 |
| 0.046846848 | 0.785634518 | 0.789 | 1 | 83987 | CCDC8 |
| 0.046846848 | 0.785634518 | 0.791 | 1 | 96610 | LL22NC03-80A10.2 |
| 0.046846848 | 0.785634518 | 0.81 | 1 | 150483 | TEKT4 |
| 0.046846848 | 0.785634518 | 0.799 | 1 | 402778 | AC068580.3 |
| 0.046589449 | 0.786787808 | 0.804 | 1 | 1345 | COX6C |
| 0.046589449 | 0.786787808 | 0.805 | 1 | 7125 | TNNC2 |
| 0.046589449 | 0.786787808 | 0.81 | 1 | 8409 | UXT |
| 0.046589449 | 0.786787808 | 0.805 | 1 | 55954 | ZMAT5 |
| 0.046589449 | 0.786787808 | 0.826 | 1 | 84969 | C20orf100 |
| 0.046332043 | 0.787941575 | 0.817 | 1 | 4152 | MBD1 |
| 0.046332043 | 0.787941575 | 0.79 | 1 | 10661 | KLF1 |
| 0.046332043 | 0.787941575 | 0.814 | 1 | 51050 | PI15 |
| 0.046332043 | 0.787941575 | 0.791 | 1 | 54842 | MFSD6 |
| 0.046332043 | 0.787941575 | 0.793 | 1 | 58493 | C9orf80 |
| 0.046332043 | 0.787941575 | 0.819 | 1 | 64328 | XPO4 |
| 0.046332043 | 0.787941575 | 0.798 | 1 | 64651 | CSRNP1 |
| 0.046332043 | 0.787941575 | 0.792 | 1 | 79165 | LENG1 |
| 0.046332043 | 0.787941575 | 0.799 | 1 | 79825 | CCDC48 |
| 0.046332043 | 0.787941575 | 0.814 | 1 | 84532 | ACSS1 |
| 0.046332043 | 0.787941575 | 0.798 | 1 | 197358 | NLRC3 |
| 0.046332043 | 0.787941575 | 0.811 | 1 | 440465 | AC013356.3 |
| 0.046074644 | 0.7890957 | 0.823 | 1 | 153 | ADRB1 |
| 0.046074644 | 0.7890957 | 0.807 | 1 | 10767 | HBS1L |
| 0.046074644 | 0.7890957 | 0.78 | 1 | 57121 | LPAR5 |
| 0.046074644 | 0.7890957 | 0.806 | 1 | 400793 | C1orf226 |
| 0.046074644 | 0.7890957 | 0.786 | 1 | 441869 | ANKRD65 |
| 0.045817245 | 0.790250838 | 0.801 | 1 | 8678 | BECN1 |
| 0.045817245 | 0.790250838 | 0.808 | 1 | 9245 | GCNT3 |
| 0.045817245 | 0.790250838 | 0.817 | 1 | 25970 | SH2B1 |
| 0.045817245 | 0.790250838 | 0.811 | 1 | 26190 | FBXW2 |
| 0.045817245 | 0.790250838 | 0.824 | 1 | 29785 | CYP2S1 |
| 0.045817245 | 0.790250838 | 0.816 | 1 | 29929 | ALG6 |
| 0.045817245 | 0.790250838 | 0.799 | 1 | 64109 | CRLF2 |
| 0.045817245 | 0.790250838 | 0.819 | 1 | 123207 | C15orf40 |
| 0.045559846 | 0.791405916 | 0.823 | 1 | 6194 | RPS6 |
| 0.045559846 | 0.791405916 | 0.812 | 1 | 7434 | VIPR2 |
| 0.045559846 | 0.791405916 | 0.816 | 1 | 55718 | POLR3E |
| 0.045559846 | 0.791405916 | 0.801 | 1 | 55734 | ZFP64 |
| 0.045559846 | 0.791405916 | 0.816 | 1 | 81704 | DOCK8 |
| 0.045559846 | 0.791405916 | 0.807 | 1 | 259173 | ALS2CL |
| 0.045559846 | 0.791405916 | 0.807 | 1 | 342931 | RFPL4A |
| 0.045559846 | 0.791405916 | 0.807 | 1 | 387841 | RP11-392P7.1 |
| 0.045302443 | 0.792561471 | 0.812 | 1 | 7155 | TOP2B |
| 0.045302443 | 0.792561471 | 0.798 | 1 | 7570 | ZNF22 |
| 0.045302443 | 0.792561471 | 0.793 | 1 | 57291 | SNHG13 |
| 0.045302443 | 0.792561471 | 0.801 | 1 | 64759 | TNS3 |
| 0.045302443 | 0.792561471 | 0.801 | 1 | 90273 | CEACAM21 |
| 0.045045044 | 0.793717384 | 0.814 | 1 | 2217 | FCGRT |
| 0.045045044 | 0.793717384 | 0.818 | 1 | 3169 | FOXA1 |
| 0.045045044 | 0.793717384 | 0.802 | 1 | 4783 | NFIL3 |
| 0.045045044 | 0.793717384 | 0.795 | 1 | 10520 | ZNF211 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.072368331 | 7.20796E-11 | 100288801 | FRG2C |
| 0.072330996 | 7.37163E-11 | 7940 | LST1 |
| 0.072226338 | 7.85008E-11 | 10762 | NUP50 |
| 0.072202288 | 7.96425E-11 | 4010 | LMX1B |
| 0.072200239 | 7.97403E-11 | 84798 | C19orf48 |
| 0.072165601 | 8.14149E-11 | 2643 | GCH1 |
| 0.072125763 | 8.33836E-11 | 256302 | C17orf103 |
| 0.072082862 | 8.55561E-11 | 84912 | SLC35B4 |
| 0.07201618 | 8.90424E-11 | 8674 | VAMP4 |
| 0.072004944 | 8.96435E-11 | 64773 | FAM113A |
| 0.071959905 | 9.20923E-11 | 100128416 | LOC100128416 |
| 0.071925454 | 9.40101E-11 | 79902 | NUP85 |
| 0.071835093 | 9.92263E-11 | 84458 | LCOR |
| 0.071808718 | 1.00801E-10 | 66002 | CYP4F12 |
| 0.071751423 | 1.04307E-10 | 9091 | PIGQ |
| 0.071712695 | 1.06745E-10 | 326 | AIRE |
| 0.071698301 | 1.07665E-10 | 4013 | VWA5A |
| 0.071684837 | 1.08533E-10 | 80194 | TMEM134 |
| 0.071677312 | 1.09021E-10 | 81704 | DOCK8 |
| 0.071531139 | 1.18934E-10 | 79441 | HAUS3 |
| 0.071526594 | 1.19256E-10 | 79946 | C10orf95 |
| 0.071523808 | 1.19454E-10 | 51123 | ZNF706 |
| 0.071504489 | 1.20834E-10 | 400242 | DICER1-AS |
| 0.071458332 | 1.24195E-10 | 131578 | LRRC15 |
| 0.071422115 | 1.26896E-10 | 2248 | FGF3 |
| 0.071383581 | 1.29834E-10 | 10869 | USP19 |
| 0.071348935 | 1.32531E-10 | 390882 | OR7G2 |
| 0.071296655 | 1.36705E-10 | 642929 | LOC642929 |
| 0.071272142 | 1.38706E-10 | 81545 | FBXO38 |
| 0.071188003 | 1.45795E-10 | 147687 | ZNF417 |
| 0.071142778 | 1.4975E-10 | 100286918 | NDUFS5P2 |
| 0.071099497 | 1.53633E-10 | 158067 | C9orf98 |
| 0.071073778 | 1.55988E-10 | 440356 | AC120114.2 |
| 0.07105279 | 1.57935E-10 | 22861 | AC055839.1 |
| 0.070896864 | 1.73163E-10 | 57132 | CHMP1B |
| 0.070818394 | 1.8136E-10 | 6538 | SLC6A11 |
| 0.070793599 | 1.84028E-10 | 8294 | HIST1H4I |
| 0.070783108 | 1.85169E-10 | 11160 | ERLIN2 |
| 0.070776328 | 1.85909E-10 | 5143 | PDE4C |
| 0.070776045 | 1.85941E-10 | 27201 | GPR78 |
| 0.070754223 | 1.88344E-10 | 162417 | NAGS |
| 0.070673987 | 1.97447E-10 | 221424 | C6orf154 |
| 0.070521407 | 2.15958E-10 | 221955 | DAGLB |
| 0.070513427 | 2.16971E-10 | 55161 | TMEM33 |
| 0.070503205 | 2.18276E-10 | 29775 | CARD10 |
| 0.070483148 | 2.20859E-10 | 8941 | CDK5R2 |
| 0.070473395 | 2.22125E-10 | 4493 | MT1E |
| 0.070448048 | 2.25451E-10 | 3765 | KCNJ9 |
| 0.070424922 | 2.28527E-10 | 80018 | C12orf30 |
| 0.070414431 | 2.29936E-10 | 3138 | HLA-K |
| 0.070255905 | 2.52288E-10 | 55578 | FAM48A |
| 0.070255816 | 2.52301E-10 | 8817 | FGF18 |
| 0.070153013 | 2.67916E-10 | 9638 | FEZ1 |
| 0.070119299 | 2.7324E-10 | 100131897 | AC008449.1 |
| 0.070071571 | 2.80955E-10 | 390259 | BSX |
| 0.070051879 | 2.84198E-10 | 2665 | GDI2 |
| 0.070048168 | 2.84813E-10 | 245929 | DEFB115 |
| 0.069937468 | 3.03783E-10 | 6370 | CCL25 |
| 0.069908492 | 3.08948E-10 | 9761 | MLEC |
| 0.069856301 | 3.1847E-10 | 57553 | MICAL3 |
| 0.069812655 | 3.26652E-10 | 219578 | ZNF804B |
| 0.069808759 | 3.27392E-10 | 64581 | CLEC7A |
| 0.069785818 | 3.31784E-10 | 259287 | TAS2R41 |
| 0.069749601 | 3.38835E-10 | 128061 | C1orf131 |
| 0.06967438 | 3.53951E-10 | 1482 | NKX2-5 |
| 0.069645867 | 3.59851E-10 | 2928 | GSC2 |
| 0.069630824 | 3.63001E-10 | 64403 | CDH24 |
| 0.06962572 | 3.64077E-10 | 56033 | BARX1 |
| 0.069448993 | 4.03291E-10 | 26220 | DGCR5 |
| 0.069442309 | 4.04852E-10 | 2701 | GJA4 |
| 0.069407299 | 4.13126E-10 | 58487 | CREBZF |
| 0.069363743 | 4.23652E-10 | 255738 | PCSK9 |
| 0.069270879 | 4.46973E-10 | 9776 | ATG13 |
| 0.069238745 | 4.5533E-10 | 23418 | CRB1 |
| 0.069203824 | 4.64586E-10 | 54834 | GDAP2 |
| 0.069188505 | 4.68704E-10 | 23729 | SHPK |
| 0.069179684 | 4.71093E-10 | 126119 | JOSD2 |
| 0.069107339 | 4.91123E-10 | 26996 | GPR160 |
| 0.069100469 | 4.9307E-10 | 113230 | AC022098.1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.045045044 | 0.793717384 | 0.82 | 1 | 92591 | ASB16 |
| 0.045045044 | 0.793717384 | 0.778 | 1 | 338657 | CCDC84 |
| 0.044787645 | 0.79487437 | 0.825 | 1 | 2980 | GUCA2A |
| 0.044787645 | 0.79487437 | 0.802 | 1 | 9363 | RAB33A |
| 0.044787645 | 0.79487437 | 0.828 | 1 | 148645 | LINC00337 |
| 0.044530243 | 0.796031177 | 0.817 | 1 | 115426 | UHRF2 |
| 0.044530243 | 0.796031177 | 0.807 | 1 | 157922 | CAMSAP1 |
| 0.044272844 | 0.797188401 | 0.824 | 1 | 2628 | GATM |
| 0.044272844 | 0.797188401 | 0.832 | 1 | 3949 | LDLR |
| 0.044272844 | 0.797188401 | 0.823 | 1 | 22989 | MYH15 |
| 0.044272844 | 0.797188401 | 0.805 | 1 | 54540 | AC145098.2 |
| 0.044272844 | 0.797188401 | 0.823 | 1 | 56623 | INPP5E |
| 0.044272844 | 0.797188401 | 0.828 | 1 | 60592 | SCOC |
| 0.044272844 | 0.797188401 | 0.832 | 1 | 79740 | ZBBX |
| 0.044272844 | 0.797188401 | 0.816 | 1 | 284942 | RPL23AP82 |
| 0.044272844 | 0.797188401 | 0.823 | 1 | 554203 | JPX |
| 0.044272844 | 0.797188401 | 0.815 | 1 | 647309 | RP11-332P22.1 |
| 0.044015441 | 0.798346102 | 0.828 | 1 | 22982 | DIP2C |
| 0.044015441 | 0.798346102 | 0.807 | 1 | 23774 | BRD1 |
| 0.044015441 | 0.798346102 | 0.804 | 1 | 54823 | C1orf26 |
| 0.043758042 | 0.799504757 | 0.826 | 1 | 3434 | IFIT1 |
| 0.043758042 | 0.799504757 | 0.813 | 1 | 5828 | PXMP3 |
| 0.043758042 | 0.799504757 | 0.807 | 1 | 9628 | RGS6 |
| 0.043758042 | 0.799504757 | 0.816 | 1 | 344805 | TMPRSS7 |
| 0.043500643 | 0.800663352 | 0.819 | 1 | 3265 | HRAS |
| 0.043500643 | 0.800663352 | 0.82 | 1 | 5747 | PTK2 |
| 0.043500643 | 0.800663352 | 0.814 | 1 | 11338 | U2AF2 |
| 0.043500643 | 0.800663352 | 0.841 | 1 | 57733 | GBA3 |
| 0.043243244 | 0.801822305 | 0.807 | 1 | 9667 | SAFB2 |
| 0.043243244 | 0.801822305 | 0.802 | 1 | 9865 | TRIL |
| 0.043243244 | 0.801822305 | 0.814 | 1 | 23322 | RPGRIP1L |
| 0.043243244 | 0.801822305 | 0.808 | 1 | 23509 | POFUT1 |
| 0.043243244 | 0.801822305 | 0.819 | 1 | 55220 | KLHDC8A |
| 0.043243244 | 0.801822305 | 0.82 | 1 | 122481 | AK7 |
| 0.042985845 | 0.802981734 | 0.804 | 1 | 3801 | KIFC3 |
| 0.042985845 | 0.802981734 | 0.815 | 1 | 6936 | C2orf3 |
| 0.042985845 | 0.802981734 | 0.84 | 1 | 9184 | BUB3 |
| 0.042985845 | 0.802981734 | 0.844 | 1 | 54892 | NCAPG2 |
| 0.042985845 | 0.802981734 | 0.834 | 1 | 199786 | FAM129C |
| 0.042985845 | 0.802981734 | 0.817 | 1 | 219952 | OR6Q1 |
| 0.042985845 | 0.802981734 | 0.826 | 1 | 339366 | ADAMTSL5 |
| 0.042728439 | 0.804141581 | 0.829 | 1 | 940 | CD28 |
| 0.042728439 | 0.804141581 | 0.82 | 1 | 3758 | KCNJ1 |
| 0.042728439 | 0.804141581 | 0.819 | 1 | 5771 | PTPN2 |
| 0.042728439 | 0.804141581 | 0.825 | 1 | 7179 | TPTE |
| 0.042728439 | 0.804141581 | 0.792 | 1 | 8756 | ADAM7 |
| 0.042728439 | 0.804141581 | 0.81 | 1 | 23043 | TNIK |
| 0.042728439 | 0.804141581 | 0.819 | 1 | 64598 | MOSPD3 |
| 0.042728439 | 0.804141581 | 0.83 | 1 | 84258 | SYT3 |
| 0.042728439 | 0.804141581 | 0.823 | 1 | 196074 | METT5D1 |
| 0.042728439 | 0.804141581 | 0.809 | 1 | 203228 | C9orf72 |
| 0.04247104 | 0.805302262 | 0.839 | 1 | 3620 | IDO1 |
| 0.04247104 | 0.805302262 | 0.81 | 1 | 9587 | MAD2L1BP |
| 0.04247104 | 0.805302262 | 0.823 | 1 | 9900 | SV2A |
| 0.04247104 | 0.805302262 | 0.813 | 1 | 54853 | WDR55 |
| 0.04247104 | 0.805302262 | 0.809 | 1 | 55004 | C11orf59 |
| 0.04247104 | 0.805302262 | 0.829 | 1 | 56108 | PCDHGA7 |
| 0.04247104 | 0.805302262 | 0.823 | 1 | 151050 | C2orf67 |
| 0.042213641 | 0.806462944 | 0.83 | 1 | 3201 | HOXA4 |
| 0.042213641 | 0.806462944 | 0.8 | 1 | 23065 | KIAA0090 |
| 0.042213641 | 0.806462944 | 0.808 | 1 | 23293 | SMG6 |
| 0.042213641 | 0.806462944 | 0.807 | 1 | 25791 | NGEF |
| 0.042213641 | 0.806462944 | 0.805 | 1 | 57824 | HMHB1 |
| 0.042213641 | 0.806462944 | 0.823 | 1 | 79752 | ZFAND1 |
| 0.042213641 | 0.806462944 | 0.799 | 1 | 83452 | RAB33B |
| 0.042213641 | 0.806462944 | 0.833 | 1 | 342510 | CD300E |
| 0.042213641 | 0.806462944 | 0.798 | 1 | 645691 | LOC645691 |
| 0.041956242 | 0.807623982 | 0.813 | 1 | 83729 | INHBE |
| 0.041698843 | 0.808785498 | 0.829 | 1 | 4236 | MFAP1 |
| 0.041698843 | 0.808785498 | 0.811 | 1 | 8726 | EED |
| 0.041698843 | 0.808785498 | 0.823 | 1 | 55794 | DDX28 |
| 0.041698843 | 0.808785498 | 0.837 | 1 | 64122 | FN3K |
| 0.041698843 | 0.808785498 | 0.808 | 1 | 93663 | ARHGAP18 |
| 0.041698843 | 0.808785498 | 0.793 | 1 | 333929 | SNAI3 |
| 0.041441441 | 0.809947908 | 0.822 | 1 | 3696 | ITGB8 |
| 0.041441441 | 0.809947908 | 0.82 | 1 | 54858 | PGPEP1 |
| 0.041441441 | 0.809947908 | 0.808 | 1 | 337969 | KRTAP19-2 |
| 0.041184042 | 0.811110198 | 0.83 | 1 | 23090 | ZNF423 |
| 0.041184042 | 0.811110198 | 0.813 | 1 | 51378 | ANGPT4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.069067128 | 5.02615E-10 | 23394 | ADNP |
| 0.068996176 | 5.23538E-10 | 8521 | GCM1 |
| 0.068968318 | 5.31979E-10 | 5073 | PARN |
| 0.068914831 | 5.48567E-10 | 128488 | WFDC12 |
| 0.068853348 | 5.68257E-10 | 728229 | TMEM191B |
| 0.06884481 | 5.71047E-10 | 10269 | ZMPSTE24 |
| 0.06882865 | 5.76359E-10 | 55011 | PIH1D1 |
| 0.068796515 | 5.8707E-10 | 4808 | NHLH2 |
| 0.068733923 | 6.08493E-10 | 64786 | TBC1D15 |
| 0.068640128 | 6.42032E-10 | 414157 | C10orf62 |
| 0.068480216 | 7.03409E-10 | 4159 | MC3R |
| 0.068473533 | 7.06096E-10 | 5742 | PTGS1 |
| 0.068430349 | 7.23697E-10 | 6868 | ADAM17 |
| 0.068415485 | 7.29851E-10 | 9436 | NCR2 |
| 0.068410754 | 7.31821E-10 | 11105 | PRDM7 |
| 0.068394035 | 7.38825E-10 | 6837 | MED22 |
| 0.068360977 | 7.52867E-10 | 3622 | ING2 |
| 0.068330146 | 7.66194E-10 | 5141 | PDE4A |
| 0.068310268 | 7.74913E-10 | 10529 | NEBL |
| 0.068309717 | 7.75155E-10 | 196374 | KRT78 |
| 0.068282872 | 7.87082E-10 | 148046 | CIRBP-AS1 |
| 0.068186946 | 8.3119E-10 | 254263 | CNIH2 |
| 0.068181746 | 8.33647E-10 | 58485 | TRAPPC1 |
| 0.068165399 | 8.41421E-10 | 7098 | TLR3 |
| 0.068148315 | 8.49623E-10 | 1832 | DSP |
| 0.068143301 | 8.52042E-10 | 140876 | C20orf175 |
| 0.068043187 | 9.01829E-10 | 57418 | WDR18 |
| 0.067934908 | 9.58867E-10 | 8074 | FGF23 |
| 0.067905284 | 9.75075E-10 | 27352 | SGSM3 |
| 0.067866281 | 9.96821E-10 | 54960 | GEMIN8 |
| 0.067821518 | 1.02237E-09 | 56884 | FSTL5 |
| 0.067806289 | 1.0312E-09 | 129450 | C2orf60 |
| 0.067784838 | 1.04377E-09 | 50964 | SOST |
| 0.067749828 | 1.06461E-09 | 4886 | NPY1R |
| 0.067691967 | 1.09994E-09 | 445577 | C9orf129 |
| 0.067647211 | 1.12805E-09 | 64855 | FAM129B |
| 0.067635044 | 1.13581E-09 | 79774 | GRTP1 |
| 0.067454234 | 1.25748E-09 | 6339 | SCNN1D |
| 0.0673583 | 1.3271E-09 | 360023 | ZBTB41 |
| 0.067251973 | 1.40866E-09 | 84875 | PARP10 |
| 0.06715966 | 1.48342E-09 | 9743 | AP000751.3 |
| 0.06709633 | 1.53692E-09 | 51301 | GCNT4 |
| 0.067088157 | 1.54396E-09 | 339456 | TMEM52 |
| 0.067071348 | 1.55854E-09 | 9421 | HAND1 |
| 0.067067631 | 1.56178E-09 | 4056 | LTC4S |
| 0.067064941 | 1.56413E-09 | 727982 | AC022311.1 |
| 0.067048036 | 1.57898E-09 | 170680 | PSORS1C2 |
| 0.067031875 | 1.5933E-09 | 22936 | ELL2 |
| 0.067004852 | 1.61754E-09 | 6322 | SCML1 |
| 0.06700179 | 1.62031E-09 | 283 | ANG |
| 0.066901311 | 1.71376E-09 | 85360 | SYDE1 |
| 0.066815779 | 1.79743E-09 | 391358 | TRMT112P6 |
| 0.066815317 | 1.79789E-09 | 1290 | COL5A2 |
| 0.066812716 | 1.8005E-09 | 28978 | TMEM14A |
| 0.066803522 | 1.80975E-09 | 170384 | FUT11 |
| 0.066739723 | 1.87517E-09 | 390197 | OR4D10 |
| 0.066718176 | 1.89778E-09 | 440104 | AC023055.2 |
| 0.066699885 | 1.91719E-09 | 414 | ARSD |
| 0.066637941 | 1.98434E-09 | 3420 | IDH3B |
| 0.066546746 | 2.08741E-09 | 124685 | LOC124685 |
| 0.066520557 | 2.11795E-09 | 3753 | KCNE1 |
| 0.066455737 | 2.19544E-09 | 169270 | ZNF596 |
| 0.066385344 | 2.28272E-09 | 80263 | TRIM45 |
| 0.06638284 | 2.28589E-09 | 2880 | GPX5 |
| 0.066272788 | 2.42935E-09 | 7903 | ST8SIA4 |
| 0.066204257 | 2.52308E-09 | 54072 | LINC00158 |
| 0.066106372 | 2.66309E-09 | 1041 | CDSN |
| 0.066054739 | 2.73995E-09 | 54913 | RPP25 |
| 0.066035517 | 2.76912E-09 | 84803 | AGPAT9 |
| 0.06602855 | 2.77976E-09 | 374864 | C18orf34 |
| 0.065985277 | 2.84677E-09 | 3848 | KRT1 |
| 0.065963641 | 2.88087E-09 | 338094 | FAM151A |
| 0.065883778 | 3.01019E-09 | 5763 | PTMS |
| 0.06578283 | 3.18177E-09 | 1337 | COX6A1 |
| 0.065773264 | 3.19853E-09 | 284697 | BTBD8 |
| 0.06576398 | 3.21485E-09 | 55700 | MAP7D1 |
| 0.06570185 | 3.32627E-09 | 776 | CACNA1D |
| 0.065650217 | 3.4217E-09 | 391356 | PTRHD1 |
| 0.065629788 | 3.4602E-09 | 3983 | ABLIM1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.041184042 | 0.811110198 | 0.829 | 1 | 55298 | RNF121 |
| 0.041184042 | 0.811110198 | 0.804 | 1 | 64782 | AEN |
| 0.041184042 | 0.811110198 | 0.831 | 1 | 400830 | DEFB132 |
| 0.040926639 | 0.812272847 | 0.8 | 1 | 6234 | RPS28 |
| 0.040926639 | 0.812272847 | 0.831 | 1 | 124976 | SPNS2 |
| 0.040926639 | 0.812272847 | 0.828 | 1 | 128077 | LIX1L |
| 0.040926639 | 0.812272847 | 0.826 | 1 | 128229 | C1orf182 |
| 0.04066924 | 0.813435972 | 0.82 | 1 | 823 | CAPN1 |
| 0.04066924 | 0.813435972 | 0.833 | 1 | 6697 | SPR |
| 0.04066924 | 0.813435972 | 0.821 | 1 | 6767 | ST13 |
| 0.04066924 | 0.813435972 | 0.827 | 1 | 9651 | PLCH2 |
| 0.04066924 | 0.813435972 | 0.818 | 1 | 222166 | C7orf41 |
| 0.040411841 | 0.814599931 | 0.835 | 1 | 1616 | DAXX |
| 0.040411841 | 0.814599931 | 0.841 | 1 | 5870 | RAB6A |
| 0.040411841 | 0.814599931 | 0.824 | 1 | 7204 | TRIO |
| 0.040411841 | 0.814599931 | 0.837 | 1 | 7453 | WARS |
| 0.040411841 | 0.814599931 | 0.835 | 1 | 51768 | TM7SF3 |
| 0.040411841 | 0.814599931 | 0.835 | 1 | 79741 | C10orf68 |
| 0.040411841 | 0.814599931 | 0.832 | 1 | 340120 | ANKRD34B |
| 0.040154438 | 0.815763891 | 0.846 | 1 | 4608 | MYBPH |
| 0.040154438 | 0.815763891 | 0.826 | 1 | 90060 | CCDC120 |
| 0.040154438 | 0.815763891 | 0.83 | 1 | 246704 | LINC00315 |
| 0.040154438 | 0.815763891 | 0.833 | 1 | 339453 | TMEM240 |
| 0.03989704 | 0.816928148 | 0.823 | 1 | 2975 | GTF3C1 |
| 0.03989704 | 0.816928148 | 0.827 | 1 | 4697 | NDUFA4 |
| 0.03989704 | 0.816928148 | 0.812 | 1 | 7188 | TRAF5 |
| 0.03989704 | 0.816928148 | 0.817 | 1 | 9985 | REC8 |
| 0.03989704 | 0.816928148 | 0.837 | 1 | 10806 | SDCCAG8 |
| 0.039639641 | 0.818092823 | 0.837 | 1 | 4688 | NCF2 |
| 0.039639641 | 0.818092823 | 0.817 | 1 | 5684 | PSMA3 |
| 0.039639641 | 0.818092823 | 0.844 | 1 | 11062 | DUS4L |
| 0.039639641 | 0.818092823 | 0.822 | 1 | 85320 | ABCC11 |
| 0.039639641 | 0.818092823 | 0.827 | 1 | 284390 | ZNF763 |
| 0.039639641 | 0.818092823 | 0.818 | 1 | 729475 | RAD51AP2 |
| 0.039382242 | 0.819257915 | 0.832 | 1 | 1066 | CES1 |
| 0.039382242 | 0.819257915 | 0.836 | 1 | 3215 | HOXB5 |
| 0.039382242 | 0.819257915 | 0.832 | 1 | 8433 | UTF1 |
| 0.039382242 | 0.819257915 | 0.825 | 1 | 8747 | ADAM21 |
| 0.039382242 | 0.819257915 | 0.839 | 1 | 112483 | SAT2 |
| 0.039382242 | 0.819257915 | 0.819 | 1 | 120534 | C11orf46 |
| 0.039382242 | 0.819257915 | 0.817 | 1 | 146853 | C17orf50 |
| 0.039124835 | 0.820423901 | 0.848 | 1 | 3237 | HOXD11 |
| 0.039124835 | 0.820423901 | 0.811 | 1 | 6251 | RSU1 |
| 0.039124835 | 0.820423901 | 0.819 | 1 | 8566 | PDXK |
| 0.039124835 | 0.820423901 | 0.809 | 1 | 26102 | DKFZP434A062 |
| 0.039124835 | 0.820423901 | 0.83 | 1 | 55739 | CARKD |
| 0.039124835 | 0.820423901 | 0.807 | 1 | 64062 | RBM26 |
| 0.039124835 | 0.820423901 | 0.819 | 1 | 79683 | ZDHHC14 |
| 0.038867436 | 0.821589649 | 0.85 | 1 | 5290 | PIK3CA |
| 0.038867436 | 0.821589649 | 0.856 | 1 | 7003 | TEAD1 |
| 0.038867436 | 0.821589649 | 0.81 | 1 | 8148 | TAF15 |
| 0.038867436 | 0.821589649 | 0.852 | 1 | 26230 | TIAM2 |
| 0.038867436 | 0.821589649 | 0.846 | 1 | 54982 | CLN6 |
| 0.038867436 | 0.821589649 | 0.825 | 1 | 83549 | UCK1 |
| 0.038867436 | 0.821589649 | 0.842 | 1 | 125206 | SLC5A10 |
| 0.038610037 | 0.822755873 | 0.841 | 1 | 7135 | TNNI1 |
| 0.038610037 | 0.822755873 | 0.827 | 1 | 9415 | FADS2 |
| 0.038610037 | 0.822755873 | 0.827 | 1 | 79600 | TCTN1 |
| 0.038352638 | 0.823922455 | 0.828 | 1 | 4799 | NFX1 |
| 0.038352638 | 0.823922455 | 0.853 | 1 | 5992 | RFX4 |
| 0.038352638 | 0.823922455 | 0.819 | 1 | 6770 | STAR |
| 0.038352638 | 0.823922455 | 0.845 | 1 | 29058 | C20orf30 |
| 0.038352638 | 0.823922455 | 0.854 | 1 | 57724 | KIAA1632 |
| 0.038352638 | 0.823922455 | 0.836 | 1 | 374569 | ASPG |
| 0.03809524 | 0.825089991 | 0.85 | 1 | 1750 | DLX6 |
| 0.03809524 | 0.825089991 | 0.825 | 1 | 6204 | RPS10 |
| 0.03809524 | 0.825089991 | 0.831 | 1 | 8526 | DGKE |
| 0.03809524 | 0.825089991 | 0.829 | 1 | 8550 | MAPKAPK5 |
| 0.03809524 | 0.825089991 | 0.834 | 1 | 8778 | SIGLEC5 |
| 0.03809524 | 0.825089991 | 0.843 | 1 | 23420 | NOMO1 |
| 0.03809524 | 0.825089991 | 0.826 | 1 | 25806 | VAX2 |
| 0.03809524 | 0.825089991 | 0.826 | 1 | 79745 | CLIP4 |
| 0.03809524 | 0.825089991 | 0.835 | 1 | 94137 | RP1L1 |
| 0.03809524 | 0.825089991 | 0.844 | 1 | 116143 | WDR92 |
| 0.03809524 | 0.825089991 | 0.826 | 1 | 643749 | TRAF3IP2-AS1 |
| 0.037837837 | 0.826257288 | 0.838 | 1 | 5306 | PITPNA |
| 0.037837837 | 0.826257288 | 0.851 | 1 | 9762 | RP5-1187M17.1 |
| 0.037837837 | 0.826257288 | 0.837 | 1 | 55763 | EXOC1 |
| 0.037837837 | 0.826257288 | 0.841 | 1 | 254439 | C11orf86 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.065590136 | 3.53612E-09 | 1588 | CYP19A1 |
| 0.065525405 | 3.66355E-09 | 55643 | BTBD2 |
| 0.06549903 | 3.71675E-09 | 55687 | TRMU |
| 0.065412112 | 3.89742E-09 | 376132 | LRRC10 |
| 0.065383881 | 3.95792E-09 | 646625 | PRHOXNB |
| 0.065366887 | 3.99479E-09 | 350383 | GPR142 |
| 0.065315902 | 4.1074E-09 | 285971 | ZNF775 |
| 0.06530457 | 4.13284E-09 | 219557 | C7orf62 |
| 0.06529928 | 4.14477E-09 | 112616 | CMTM7 |
| 0.065189138 | 4.40091E-09 | 875 | CBS |
| 0.065149486 | 4.49685E-09 | 4249 | MGAT5 |
| 0.065123759 | 4.56016E-09 | 80854 | SETD7 |
| 0.065109551 | 4.59551E-09 | 146542 | ZNF688 |
| 0.065092653 | 4.6379E-09 | 9098 | USP6 |
| 0.065074265 | 4.68445E-09 | 79792 | GSDMD |
| 0.065039992 | 4.77243E-09 | 84826 | SFT2D3 |
| 0.064961895 | 4.97895E-09 | 9400 | RECQL5 |
| 0.06494648 | 5.02075E-09 | 59272 | ACE2 |
| 0.064910077 | 5.12078E-09 | 245936 | DEFB123 |
| 0.064909793 | 5.12157E-09 | 11016 | ATF7 |
| 0.064900234 | 5.14815E-09 | 1500 | CTNND1 |
| 0.064808294 | 5.41086E-09 | 158584 | FAAH2 |
| 0.064805046 | 5.42037E-09 | 387590 | AC005301.1 |
| 0.064770773 | 5.52177E-09 | 1979 | EIF4EBP2 |
| 0.06471654 | 5.68601E-09 | 100128203 | ENSAP3 |
| 0.064707629 | 5.71343E-09 | 56751 | BARHL1 |
| 0.064690635 | 5.76611E-09 | 10648 | SCGB1D1 |
| 0.064669549 | 5.83214E-09 | 5036 | PA2G4 |
| 0.064636305 | 5.93771E-09 | 23676 | SMPX |
| 0.0646156 | 6.00441E-09 | 118425 | RP11-610O8.1 |
| 0.064587459 | 6.09623E-09 | 203430 | ZCCHC5 |
| 0.064536758 | 6.26513E-09 | 25823 | TPSG1 |
| 0.064500257 | 6.38952E-09 | 80255 | SLC35F5 |
| 0.064494498 | 6.40938E-09 | 4171 | MCM2 |
| 0.064379625 | 6.81797E-09 | 23067 | SETD1B |
| 0.06416928 | 7.63276E-09 | 51626 | DYNC2LI1 |
| 0.064048648 | 8.14195E-09 | 387680 | FAM21A |
| 0.064021908 | 8.25922E-09 | 51019 | CCDC53 |
| 0.064007975 | 8.32097E-09 | 84187 | TMEM164 |
| 0.063957453 | 8.54868E-09 | 57192 | MCOLN1 |
| 0.063906565 | 8.78414E-09 | 107 | ADCY1 |
| 0.063906007 | 8.78677E-09 | 6734 | SRPR |
| 0.063881867 | 8.90071E-09 | 5138 | PDE2A |
| 0.063806646 | 9.26496E-09 | 85481 | PSKH2 |
| 0.063800327 | 9.29624E-09 | 5383 | PMS2L5 |
| 0.063761696 | 9.48952E-09 | 92935 | MARS2 |
| 0.063715167 | 9.72754E-09 | 151963 | C3orf59 |
| 0.063689165 | 9.86309E-09 | 7064 | THOP1 |
| 0.063688517 | 9.86648E-09 | 604 | BCL6 |
| 0.063612923 | 1.02711E-08 | 51231 | VRK3 |
| 0.063589059 | 1.04022E-08 | 170572 | HTR3C |
| 0.063508168 | 1.08586E-08 | 388743 | CAPN8 |
| 0.063484028 | 1.09986E-08 | 8200 | GDF5 |
| 0.063418001 | 1.13904E-08 | 55004 | C11orf59 |
| 0.063386701 | 1.15808E-08 | 54020 | SLC37A1 |
| 0.063352339 | 1.17934E-08 | 7141 | TNP1 |
| 0.063307025 | 1.20796E-08 | 23218 | NBEAL2 |
| 0.063290492 | 1.21857E-08 | 60506 | NYX |
| 0.063275076 | 1.22855E-08 | 80310 | PDGFD |
| 0.063269973 | 1.23187E-08 | 7278 | TUBA3C |
| 0.063265882 | 1.23453E-08 | 10452 | TOMM40 |
| 0.063214712 | 1.26837E-08 | 9555 | H2AFY |
| 0.063150078 | 1.3124E-08 | 22875 | ENPP4 |
| 0.063084051 | 1.35891E-08 | 6862 | T |
| 0.063072257 | 1.36739E-08 | 55702 | CCDC94 |
| 0.063014492 | 1.40964E-08 | 53981 | CPSF2 |
| 0.06300623 | 1.41578E-08 | 3653 | IPW |
| 0.063001677 | 1.41918E-08 | 10379 | IRF9 |
| 0.062960632 | 1.45018E-08 | 30846 | EHD2 |
| 0.062959239 | 1.45124E-08 | 5738 | PTGFRN |
| 0.062855691 | 1.53245E-08 | 80145 | THOC7 |
| 0.062843807 | 1.54204E-08 | 57222 | ERGIC1 |
| 0.062760413 | 1.61105E-08 | 128497 | C20orf165 |
| 0.062752239 | 1.61797E-08 | 79192 | IRX1 |
| 0.062734038 | 1.63349E-08 | 54797 | MED18 |
| 0.062722899 | 1.64306E-08 | 5721 | PSME2 |
| 0.06266588 | 1.6929E-08 | 146310 | RNF151 |
| 0.062626779 | 1.72792E-08 | 100286979 | ANAPC1P1 |
| 0.06260895 | 1.74413E-08 | 116179 | TGM7 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.037837837 | 0.826257288 | 0.831 | 1 | 729409 | LOC729409 |
| 0.037580434 | 0.827425003 | 0.822 | 1 | 1945 | EFNA4 |
| 0.037580434 | 0.827425003 | 0.854 | 1 | 9278 | ZBTB22 |
| 0.037580434 | 0.827425003 | 0.838 | 1 | 131034 | CPNE4 |
| 0.037580434 | 0.827425003 | 0.831 | 1 | 163778 | SPRR4 |
| 0.037580434 | 0.827425003 | 0.833 | 1 | 100170229 | AC006276.1 |
| 0.037323035 | 0.828593135 | 0.834 | 1 | 55031 | USP47 |
| 0.037323035 | 0.828593135 | 0.821 | 1 | 81847 | RNF146 |
| 0.037323035 | 0.828593135 | 0.829 | 1 | 124995 | MRPL10 |
| 0.037065636 | 0.829762101 | 0.84 | 1 | 1742 | DLG4 |
| 0.037065636 | 0.829762101 | 0.857 | 1 | 10959 | TMED2 |
| 0.037065636 | 0.829762101 | 0.824 | 1 | 23353 | UNC84A |
| 0.037065636 | 0.829762101 | 0.84 | 1 | 51384 | WNT16 |
| 0.037065636 | 0.829762101 | 0.833 | 1 | 100132306 | LOC100132306 |
| 0.036808237 | 0.830930889 | 0.845 | 1 | 1903 | S1PR3 |
| 0.036808237 | 0.830930889 | 0.835 | 1 | 4210 | MEFV |
| 0.036808237 | 0.830930889 | 0.847 | 1 | 7423 | VEGFB |
| 0.036808237 | 0.830930889 | 0.827 | 1 | 8697 | CDC23 |
| 0.036808237 | 0.830930889 | 0.875 | 1 | 9130 | FAM50A |
| 0.036808237 | 0.830930889 | 0.825 | 1 | 23623 | RUSC1 |
| 0.036808237 | 0.830930889 | 0.838 | 1 | 54093 | SETD4 |
| 0.036808237 | 0.830930889 | 0.858 | 1 | 54496 | PRMT7 |
| 0.036808237 | 0.830930889 | 0.841 | 1 | 55776 | C6orf64 |
| 0.036808237 | 0.830930889 | 0.848 | 1 | 642946 | FLVCR1-AS1 |
| 0.036808237 | 0.830930889 | 0.829 | 1 | 728056 | LOC728056 |
| 0.036550835 | 0.832100034 | 0.839 | 1 | 1365 | CLDN3 |
| 0.036550835 | 0.832100034 | 0.85 | 1 | 64747 | MFSD1 |
| 0.036293436 | 0.833269536 | 0.84 | 1 | 1417 | CRYBB3 |
| 0.036293436 | 0.833269536 | 0.844 | 1 | 10644 | IGF2BP2 |
| 0.036293436 | 0.833269536 | 0.845 | 1 | 22973 | LAMB2P1 |
| 0.036293436 | 0.833269536 | 0.827 | 1 | 286333 | LINC00256A |
| 0.036293436 | 0.833269536 | 0.869 | 1 | 389199 | LOC389199 |
| 0.036293436 | 0.833269536 | 0.849 | 1 | 100287430 | LOC100287430 |
| 0.036036037 | 0.834439456 | 0.856 | 1 | 54469 | ZFAND6 |
| 0.036036037 | 0.834439456 | 0.852 | 1 | 81300 | OR4P4 |
| 0.036036037 | 0.834439456 | 0.85 | 1 | 387263 | C6orf120 |
| 0.035778634 | 0.835610271 | 0.835 | 1 | 1937 | EEF1G |
| 0.035778634 | 0.835610271 | 0.866 | 1 | 1993 | ELAVL2 |
| 0.035778634 | 0.835610271 | 0.813 | 1 | 9136 | RRP9 |
| 0.035778634 | 0.835610271 | 0.861 | 1 | 54978 | C2orf18 |
| 0.035778634 | 0.835610271 | 0.849 | 1 | 56984 | PSMG2 |
| 0.035778634 | 0.835610271 | 0.855 | 1 | 57613 | KIAA1467 |
| 0.035521235 | 0.836780846 | 0.843 | 1 | 10597 | TRAPPC2P1 |
| 0.035521235 | 0.836780846 | 0.829 | 1 | 79155 | TNIP2 |
| 0.035521235 | 0.836780846 | 0.834 | 1 | 200081 | TXLNA |
| 0.035521235 | 0.836780846 | 0.871 | 1 | 390282 | LOC390282 |
| 0.035263833 | 0.837951779 | 0.854 | 1 | 4889 | NPY5R |
| 0.035263833 | 0.837951779 | 0.823 | 1 | 10069 | RWDD2B |
| 0.035263833 | 0.837951779 | 0.84 | 1 | 23201 | FAM168A |
| 0.035263833 | 0.837951779 | 0.846 | 1 | 63036 | CELA2A |
| 0.035006434 | 0.83912307 | 0.859 | 1 | 4670 | HNRNPM |
| 0.035006434 | 0.83912307 | 0.831 | 1 | 8533 | COPS3 |
| 0.035006434 | 0.83912307 | 0.862 | 1 | 23513 | SCRIB |
| 0.035006434 | 0.83912307 | 0.843 | 1 | 25865 | PRKD2 |
| 0.035006434 | 0.83912307 | 0.849 | 1 | 55205 | ZNF532 |
| 0.035006434 | 0.83912307 | 0.865 | 1 | 57634 | EP400 |
| 0.035006434 | 0.83912307 | 0.833 | 1 | 84060 | C7orf64 |
| 0.035006434 | 0.83912307 | 0.854 | 1 | 152756 | C4ORF39 |
| 0.034749035 | 0.840295255 | 0.839 | 1 | 9685 | CLINT1 |
| 0.034749035 | 0.840295255 | 0.86 | 1 | 54989 | ZNF770 |
| 0.034749035 | 0.840295255 | 0.839 | 1 | 55299 | BRIX1 |
| 0.034749035 | 0.840295255 | 0.844 | 1 | 84105 | PCBD2 |
| 0.034749035 | 0.840295255 | 0.863 | 1 | 144132 | DNHD1 |
| 0.034491636 | 0.841467202 | 0.856 | 1 | 2054 | STX2 |
| 0.034491636 | 0.841467202 | 0.864 | 1 | 4058 | LTK |
| 0.034491636 | 0.841467202 | 0.844 | 1 | 8325 | FZD8 |
| 0.034491636 | 0.841467202 | 0.863 | 1 | 23548 | TTC33 |
| 0.034491636 | 0.841467202 | 0.855 | 1 | 57699 | CPNE5 |
| 0.034491636 | 0.841467202 | 0.863 | 1 | 96764 | TGS1 |
| 0.034491636 | 0.841467202 | 0.847 | 1 | 163859 | C1orf55 |
| 0.034491636 | 0.841467202 | 0.836 | 1 | 164091 | PAQR7 |
| 0.034234237 | 0.842639565 | 0.848 | 1 | 1967 | EIF2B1 |
| 0.034234237 | 0.842639565 | 0.847 | 1 | 3375 | IAPP |
| 0.034234237 | 0.842639565 | 0.844 | 1 | 55690 | PACS1 |
| 0.034234237 | 0.842639565 | 0.87 | 1 | 57698 | KIAA1598 |
| 0.034234237 | 0.842639565 | 0.854 | 1 | 79567 | FAM65A |
| 0.034234237 | 0.842639565 | 0.849 | 1 | 81832 | NETO1 |
| 0.033976831 | 0.843812227 | 0.855 | 1 | 7555 | CNBP |
| 0.033976831 | 0.843812227 | 0.852 | 1 | 8798 | DYRK4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.062587686 | 1.76364E-08 | 2558 | GABRA5 |
| 0.06254524 | 1.80323E-08 | 54436 | SH3TC1 |
| 0.062537909 | 1.81016E-08 | 63925 | ZNF335 |
| 0.062465657 | 1.87981E-08 | 10902 | BRD8 |
| 0.062456649 | 1.88867E-08 | 7044 | LEFTY2 |
| 0.06241449 | 1.9307E-08 | 3680 | ITGA9 |
| 0.062322456 | 2.02563E-08 | 399806 | FLJ41350 |
| 0.062308993 | 2.03989E-08 | 154288 | C6orf221 |
| 0.062294506 | 2.05534E-08 | 348013 | FAM70B |
| 0.062281225 | 2.06961E-08 | 6638 | SNRPN |
| 0.062203683 | 2.15484E-08 | 146845 | WDR16 |
| 0.062201452 | 2.15734E-08 | 401466 | C8orf59 |
| 0.06219653 | 2.16287E-08 | 577 | BAI3 |
| 0.062143225 | 2.22365E-08 | 50509 | COL5A3 |
| 0.062131062 | 2.23775E-08 | 63970 | TP53AIP1 |
| 0.06210738 | 2.26545E-08 | 2628 | GATM |
| 0.062019527 | 2.37115E-08 | 147007 | TMEM199 |
| 0.061944772 | 2.46484E-08 | 11214 | AKAP13 |
| 0.061942358 | 2.46793E-08 | 219855 | SLC37A2 |
| 0.061868805 | 2.56374E-08 | 4891 | SLC11A2 |
| 0.061860356 | 2.57497E-08 | 84498 | FAM120B |
| 0.061844382 | 2.59634E-08 | 9857 | CEP350 |
| 0.061810117 | 2.64276E-08 | 29114 | TAGLN3 |
| 0.061792102 | 2.6675E-08 | 159686 | CCDC147 |
| 0.0617752 | 2.6909E-08 | 51554 | CCRL1 |
| 0.061740559 | 2.73948E-08 | 3070 | HELLS |
| 0.061725885 | 2.76032E-08 | 942 | CD86 |
| 0.061690599 | 2.81107E-08 | 8533 | COPS3 |
| 0.06165605 | 2.86163E-08 | 4656 | MYOG |
| 0.061616678 | 2.92032E-08 | 84260 | TCHP |
| 0.061546192 | 3.02832E-08 | 474354 | LRRC18 |
| 0.061543684 | 3.03223E-08 | 5053 | PAH |
| 0.061535232 | 3.04546E-08 | 176 | ACAN |
| 0.061525296 | 3.06108E-08 | 9028 | RHBDL1 |
| 0.061515361 | 3.07678E-08 | 9196 | KCNAB3 |
| 0.061499573 | 3.10187E-08 | 55781 | RIOK2 |
| 0.061417107 | 3.23624E-08 | 950 | SCARB2 |
| 0.061407544 | 3.25218E-08 | 23357 | ANGEL1 |
| 0.061265551 | 3.49807E-08 | 163227 | ZNF100 |
| 0.061237689 | 3.54839E-08 | 337974 | KRTAP19-7 |
| 0.061217073 | 3.58607E-08 | 2899 | GRIK3 |
| 0.06121178 | 3.59581E-08 | 4917 | NTN3 |
| 0.061169989 | 3.67359E-08 | 23362 | PSD3 |
| 0.061168876 | 3.67569E-08 | 59344 | ALOXE3 |
| 0.061156526 | 3.699E-08 | 171558 | PTCRA |
| 0.06114278 | 3.72512E-08 | 4683 | NBN |
| 0.061140925 | 3.72864E-08 | 221756 | MGC39372 |
| 0.061139531 | 3.73131E-08 | 1789 | DNMT3B |
| 0.061119936 | 3.7689E-08 | 6415 | SEPW1 |
| 0.061057903 | 3.89037E-08 | 51131 | PHF11 |
| 0.061023168 | 3.96001E-08 | 2696 | GIPR |
| 0.060945068 | 4.12108E-08 | 2355 | FOSL2 |
| 0.060929559 | 4.15382E-08 | 10068 | IL18BP |
| 0.060901422 | 4.21385E-08 | 91647 | ATPAF2 |
| 0.060853317 | 4.31843E-08 | 23576 | DDAH1 |
| 0.060835581 | 4.35763E-08 | 56270 | WDR45L |
| 0.060821094 | 4.38988E-08 | 3312 | HSPA8 |
| 0.060820442 | 4.39135E-08 | 9816 | URB2 |
| 0.06080772 | 4.41987E-08 | 200576 | PIKFYVE |
| 0.060762681 | 4.52234E-08 | 167359 | AC114947.2 |
| 0.060753673 | 4.54312E-08 | 64772 | ENGASE |
| 0.060710955 | 4.64287E-08 | 148170 | CDC42EP5 |
| 0.060643997 | 4.80353E-08 | 205147 | FAM123C |
| 0.060589578 | 4.93807E-08 | 51450 | PRRX2 |
| 0.060552526 | 5.03174E-08 | 644192 | RP11-327J17.3 |
| 0.060304016 | 5.70602E-08 | 26070 | AP002380.3 |
| 0.060301322 | 5.7138E-08 | 90 | ACVR1 |
| 0.060258046 | 5.84002E-08 | 148823 | C1orf150 |
| 0.060248017 | 5.86966E-08 | 643866 | CBLN3 |
| 0.060213007 | 5.97424E-08 | 1445 | CSK |
| 0.060193226 | 6.03413E-08 | 54828 | BCAS3 |
| 0.060160536 | 6.13439E-08 | 115950 | ZNF653 |
| 0.060132585 | 6.22138E-08 | 728039 | SSR4P1 |
| 0.060111877 | 6.28661E-08 | 64689 | GORASP1 |
| 0.060079742 | 6.38913E-08 | 6549 | SLC9A2 |
| 0.060051885 | 6.47931E-08 | 92270 | ATP6AP1L |
| 0.060025882 | 6.56462E-08 | 9068 | ANGPTL1 |
| 0.060010001 | 6.61725E-08 | 80321 | CEP70 |
| 0.060007308 | 6.62622E-08 | 125965 | COX6B2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.033976831 | 0.843812227 | 0.871 | 1 | 10045 | SH2D3A |
| 0.033976831 | 0.843812227 | 0.838 | 1 | 27348 | TOR1B |
| 0.033976831 | 0.843812227 | 0.872 | 1 | 29915 | HCFC2 |
| 0.033976831 | 0.843812227 | 0.865 | 1 | 58477 | SRPRB |
| 0.033719432 | 0.844985723 | 0.844 | 1 | 4791 | NFKB2 |
| 0.033719432 | 0.844985723 | 0.85 | 1 | 7287 | TULP1 |
| 0.033719432 | 0.844985723 | 0.848 | 1 | 55364 | IMPACT |
| 0.033719432 | 0.844985723 | 0.845 | 1 | 56341 | PRMT8 |
| 0.033719432 | 0.844985723 | 0.857 | 1 | 113622 | ADPRHL1 |
| 0.033719432 | 0.844985723 | 0.863 | 1 | 199223 | TTC21A |
| 0.033719432 | 0.844985723 | 0.859 | 1 | 256309 | CCDC110 |
| 0.033719432 | 0.844985723 | 0.864 | 1 | 286151 | FBXO43 |
| 0.033462033 | 0.846159041 | 0.856 | 1 | 966 | CD59 |
| 0.033462033 | 0.846159041 | 0.865 | 1 | 3266 | ERAS |
| 0.033462033 | 0.846159041 | 0.869 | 1 | 5599 | MAPK8 |
| 0.033462033 | 0.846159041 | 0.868 | 1 | 9728 | SECISBP2L |
| 0.033462033 | 0.846159041 | 0.87 | 1 | 284086 | NEK8 |
| 0.033204634 | 0.847332716 | 0.83 | 1 | 9475 | ROCK2 |
| 0.033204634 | 0.847332716 | 0.862 | 1 | 27091 | CACNG5 |
| 0.033204634 | 0.847332716 | 0.855 | 1 | 126259 | TMIGD2 |
| 0.033204634 | 0.847332716 | 0.868 | 1 | 392391 | OR5C1 |
| 0.032947235 | 0.848506689 | 0.871 | 1 | 2195 | FAT1 |
| 0.032947235 | 0.848506689 | 0.86 | 1 | 6092 | ROBO2 |
| 0.032947235 | 0.848506689 | 0.868 | 1 | 9023 | CH25H |
| 0.032947235 | 0.848506689 | 0.853 | 1 | 9768 | KIAA0101 |
| 0.032689832 | 0.84968096 | 0.859 | 1 | 6729 | SRP54 |
| 0.032689832 | 0.84968096 | 0.856 | 1 | 23234 | DNAJC9 |
| 0.032689832 | 0.84968096 | 0.849 | 1 | 84365 | MKI67IP |
| 0.032689832 | 0.84968096 | 0.85 | 1 | 158431 | ZNF782 |
| 0.032689832 | 0.84968096 | 0.852 | 1 | 286343 | LURAP1L |
| 0.032432433 | 0.850856185 | 0.863 | 1 | 26271 | FBXO5 |
| 0.032432433 | 0.850856185 | 0.858 | 1 | 285521 | COX18 |
| 0.032175031 | 0.852031112 | 0.868 | 1 | 2060 | EPS15 |
| 0.032175031 | 0.852031112 | 0.852 | 1 | 6188 | RPS3P3 |
| 0.032175031 | 0.852031112 | 0.865 | 1 | 57184 | C15orf17 |
| 0.032175031 | 0.852031112 | 0.879 | 1 | 81831 | NETO2 |
| 0.032175031 | 0.852031112 | 0.871 | 1 | 124538 | OR4D2 |
| 0.032175031 | 0.852031112 | 0.87 | 1 | 255349 | TMEM211 |
| 0.032175031 | 0.852031112 | 0.869 | 1 | 283237 | TTC9C |
| 0.032175031 | 0.852031112 | 0.86 | 1 | 642757 | FLJ32756 |
| 0.031917632 | 0.853206336 | 0.86 | 1 | 4104 | MAGEA5 |
| 0.031917632 | 0.853206336 | 0.87 | 1 | 6517 | SLC2A4 |
| 0.031917632 | 0.853206336 | 0.862 | 1 | 7644 | ZNF91 |
| 0.031917632 | 0.853206336 | 0.87 | 1 | 8912 | CACNA1H |
| 0.031917632 | 0.853206336 | 0.837 | 1 | 10717 | AP4B1 |
| 0.031917632 | 0.853206336 | 0.868 | 1 | 11019 | LIAS |
| 0.031917632 | 0.853206336 | 0.857 | 1 | 27199 | OXGR1 |
| 0.031917632 | 0.853206336 | 0.86 | 1 | 91523 | FAM113B |
| 0.031917632 | 0.853206336 | 0.847 | 1 | 133308 | NHEDC2 |
| 0.031917632 | 0.853206336 | 0.868 | 1 | 253769 | WDR27 |
| 0.031917632 | 0.853206336 | 0.871 | 1 | 254187 | TSGA10IP |
| 0.031660229 | 0.854381919 | 0.856 | 1 | 3611 | ILK |
| 0.031660229 | 0.854381919 | 0.859 | 1 | 6205 | RPS11P5 |
| 0.031660229 | 0.854381919 | 0.874 | 1 | 9780 | FAM38A |
| 0.031660229 | 0.854381919 | 0.878 | 1 | 51706 | CYB5R1 |
| 0.031660229 | 0.854381919 | 0.866 | 1 | 54664 | TMEM106B |
| 0.031660229 | 0.854381919 | 0.868 | 1 | 57482 | KIAA1211 |
| 0.031660229 | 0.854381919 | 0.863 | 1 | 120103 | SLC36A4 |
| 0.031660229 | 0.854381919 | 0.865 | 1 | 125919 | ZNF543 |
| 0.031660229 | 0.854381919 | 0.857 | 1 | 139818 | DOCK11 |
| 0.031660229 | 0.854381919 | 0.862 | 1 | 644844 | AC013356.1 |
| 0.031660229 | 0.854381919 | 0.87 | 1 | 692094 | MSMP |
| 0.03140283 | 0.855558395 | 0.865 | 1 | 1290 | COL5A2 |
| 0.03140283 | 0.855558395 | 0.865 | 1 | 51131 | PHF11 |
| 0.03140283 | 0.855558395 | 0.884 | 1 | 54931 | RG9MTD1 |
| 0.03140283 | 0.855558395 | 0.863 | 1 | 642696 | AC007601.1 |
| 0.031145431 | 0.856734633 | 0.854 | 1 | 287 | ANK2 |
| 0.031145431 | 0.856734633 | 0.863 | 1 | 2557 | GABRA4 |
| 0.031145431 | 0.856734633 | 0.873 | 1 | 55005 | RMND1 |
| 0.031145431 | 0.856734633 | 0.856 | 1 | 126767 | AADACL3 |
| 0.03088803 | 0.85791105 | 0.88 | 1 | 585 | BBS4 |
| 0.03088803 | 0.85791105 | 0.863 | 1 | 6605 | SMARCE1 |
| 0.03088803 | 0.85791105 | 0.87 | 1 | 8468 | FKBP6 |
| 0.03088803 | 0.85791105 | 0.872 | 1 | 8498 | RANBP3 |
| 0.03088803 | 0.85791105 | 0.866 | 1 | 83983 | TSSK6 |
| 0.03088803 | 0.85791105 | 0.876 | 1 | 96626 | LIMS3 |
| 0.03063063 | 0.859087884 | 0.879 | 1 | 6666 | SOX12 |
| 0.03063063 | 0.859087884 | 0.885 | 1 | 8139 | GAN |
| 0.03063063 | 0.859087884 | 0.864 | 1 | 10309 | CCNO |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.059985951 | 6.69772E-08 | 57693 | ZNF317 |
| 0.05992382 | 6.91004E-08 | 10838 | ZNF275 |
| 0.059902929 | 6.98288E-08 | 143244 | EIF5AL1 |
| 0.059893548 | 7.01583E-08 | 162083 | C16orf82 |
| 0.059874974 | 7.08153E-08 | 51226 | COPZ2 |
| 0.05986606 | 7.11325E-08 | 116135 | LRRC3B |
| 0.05957929 | 8.21099E-08 | 282809 | WDR51B |
| 0.059548087 | 8.33988E-08 | 57536 | KIAA1328 |
| 0.05954558 | 8.35035E-08 | 164118 | TTC24 |
| 0.059536848 | 8.3868E-08 | 51592 | TRIM33 |
| 0.059536107 | 8.38989E-08 | 250 | ALPP |
| 0.059496358 | 8.55793E-08 | 115825 | WDFY2 |
| 0.059489768 | 8.58606E-08 | 51271 | UBAP1 |
| 0.059455685 | 8.73318E-08 | 131118 | DNAJC19 |
| 0.059450019 | 8.75789E-08 | 29855 | UBN1 |
| 0.059414268 | 8.91528E-08 | 6888 | TALDO1 |
| 0.059399221 | 8.98231E-08 | 285141 | AC007405.8 |
| 0.059308957 | 9.3949E-08 | 54926 | UBE2R2 |
| 0.059279054 | 9.53555E-08 | 10016 | PDCD6 |
| 0.059146997 | 1.01816E-07 | 26050 | SLITRK5 |
| 0.059127402 | 1.0281E-07 | 3112 | HLA-DOB |
| 0.059025437 | 1.08136E-07 | 4690 | NCK1 |
| 0.05901587 | 1.08649E-07 | 130355 | C2orf76 |
| 0.059003334 | 1.09325E-07 | 8338 | HIST2H2AC |
| 0.058961358 | 1.11618E-07 | 56961 | SHD |
| 0.058955509 | 1.11942E-07 | 2564 | GABRE |
| 0.058950864 | 1.12199E-07 | 132660 | LIN54 |
| 0.058944087 | 1.12575E-07 | 55293 | UEVLD |
| 0.058744237 | 1.24244E-07 | 11326 | VSIG4 |
| 0.05874043 | 1.24477E-07 | 100289274 | DNAJC3-AS1 |
| 0.058716565 | 1.25949E-07 | 441455 | LOC441455 |
| 0.058666416 | 1.29097E-07 | 134145 | FAM173B |
| 0.058598902 | 1.33455E-07 | 9476 | NAPSA |
| 0.058505107 | 1.39747E-07 | 3340 | NDST1 |
| 0.058466103 | 1.42447E-07 | 2702 | GJA5 |
| 0.058329128 | 1.52335E-07 | 1499 | CTNNB1 |
| 0.0582592 | 1.57635E-07 | 9973 | CCS |
| 0.058212951 | 1.61239E-07 | 537 | ATP6AP1 |
| 0.058205988 | 1.61788E-07 | 401827 | MSLNL |
| 0.058172278 | 1.64473E-07 | 26146 | TRAF3IP1 |
| 0.058148317 | 1.66407E-07 | 55106 | SLFN12 |
| 0.058140796 | 1.67019E-07 | 51657 | STYXL1 |
| 0.058117673 | 1.68914E-07 | 125111 | GJD3 |
| 0.058081638 | 1.71908E-07 | 3267 | AGFG1 |
| 0.058063809 | 1.73408E-07 | 246182 | AKR7A2P1 |
| 0.058028519 | 1.76415E-07 | 55287 | TMEM40 |
| 0.058013663 | 1.77696E-07 | 26270 | FBXO6 |
| 0.057992674 | 1.79521E-07 | 646934 | LOC646934 |
| 0.057989981 | 1.79756E-07 | 143570 | XRRA1 |
| 0.057985336 | 1.80163E-07 | 6588 | SLN |
| 0.057978187 | 1.80791E-07 | 381 | ARF5 |
| 0.057854861 | 1.91962E-07 | 245 | ALOX12P2 |
| 0.057853375 | 1.921E-07 | 2533 | FYB |
| 0.05782143 | 1.95102E-07 | 7433 | VIPR1 |
| 0.057801183 | 1.97029E-07 | 10203 | CALCRL |
| 0.057791062 | 1.97999E-07 | 81037 | CLPTM1L |
| 0.057788555 | 1.9824E-07 | 28998 | MRPL13 |
| 0.057787441 | 1.98347E-07 | 2052 | EPHX1 |
| 0.057774439 | 1.99602E-07 | 8357 | HIST1H3H |
| 0.057620373 | 2.15068E-07 | 4254 | KITLG |
| 0.05760533 | 2.16639E-07 | 11227 | GALNT5 |
| 0.057584062 | 2.18878E-07 | 2857 | GPR34 |
| 0.057521287 | 2.2562E-07 | 10726 | NUDC |
| 0.05749974 | 2.2798E-07 | 2010 | EMD |
| 0.057478011 | 2.30383E-07 | 124590 | USH1G |
| 0.057439379 | 2.34718E-07 | 23308 | ICOSLG |
| 0.057430647 | 2.35709E-07 | 51366 | UBR5 |
| 0.057380222 | 2.41509E-07 | 2115 | ETV1 |
| 0.057266925 | 2.55047E-07 | 253980 | KCTD13 |
| 0.057255223 | 2.56487E-07 | 1464 | CSPG4 |
| 0.057231452 | 2.59435E-07 | 219736 | STOX1 |
| 0.057189662 | 2.64698E-07 | 221504 | ZBTB9 |
| 0.057188828 | 2.64804E-07 | 9681 | DEPDC5 |
| 0.057171367 | 2.67034E-07 | 10949 | HNRNPA0 |
| 0.057168301 | 2.67427E-07 | 51014 | TMED7 |
| 0.057160407 | 2.68443E-07 | 3396 | ICT1 |
| 0.057108589 | 2.75203E-07 | 100506243 | RP11-141M3.1 |
| 0.057084445 | 2.78408E-07 | 64755 | C16orf58 |
| 0.057066709 | 2.80786E-07 | 9039 | UBA3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.03063063 | 0.859087884 | 0.862 | 1 | 29796 | UCRC |
| 0.03063063 | 0.859087884 | 0.857 | 1 | 55856 | ACOT13 |
| 0.03063063 | 0.859087884 | 0.863 | 1 | 56899 | ANKS1B |
| 0.03063063 | 0.859087884 | 0.873 | 1 | 57144 | PAK7 |
| 0.03063063 | 0.859087884 | 0.864 | 1 | 64693 | CTAGE1 |
| 0.03063063 | 0.859087884 | 0.867 | 1 | 219409 | GSX1 |
| 0.03063063 | 0.859087884 | 0.862 | 1 | 400986 | ANKRD36C |
| 0.030373231 | 0.860265017 | 0.87 | 1 | 6203 | RPS9 |
| 0.030373231 | 0.860265017 | 0.864 | 1 | 146691 | TOM1L2 |
| 0.030373231 | 0.860265017 | 0.881 | 1 | 150383 | C22orf40 |
| 0.030115828 | 0.861442983 | 0.889 | 1 | 23483 | TGDS |
| 0.030115828 | 0.861442983 | 0.882 | 1 | 51290 | ERGIC2 |
| 0.030115828 | 0.861442983 | 0.888 | 1 | 81567 | TXNDC5 |
| 0.030115828 | 0.861442983 | 0.864 | 1 | 136647 | C7orf11 |
| 0.030115828 | 0.861442983 | 0.877 | 1 | 266727 | MDGA1 |
| 0.029858429 | 0.862620711 | 0.859 | 1 | 2019 | EN1 |
| 0.029858429 | 0.862620711 | 0.887 | 1 | 8634 | RTCD1 |
| 0.029858429 | 0.862620711 | 0.861 | 1 | 26001 | RNF167 |
| 0.029858429 | 0.862620711 | 0.875 | 1 | 65003 | MRPL11 |
| 0.029858429 | 0.862620711 | 0.891 | 1 | 79846 | C7orf63 |
| 0.029858429 | 0.862620711 | 0.866 | 1 | 440026 | TMEM41B |
| 0.029858429 | 0.862620711 | 0.88 | 1 | 441191 | RNF216L |
| 0.02960103 | 0.863798738 | 0.853 | 1 | 650 | BMP2 |
| 0.02960103 | 0.863798738 | 0.873 | 1 | 11120 | BTN2A1 |
| 0.02960103 | 0.863798738 | 0.867 | 1 | 26492 | OR8G2 |
| 0.02960103 | 0.863798738 | 0.872 | 1 | 80714 | PBX4 |
| 0.02960103 | 0.863798738 | 0.903 | 1 | 124401 | ANKS3 |
| 0.029343629 | 0.864977062 | 0.867 | 1 | 3795 | KHK |
| 0.029343629 | 0.864977062 | 0.869 | 1 | 4250 | SCGB2A2 |
| 0.029343629 | 0.864977062 | 0.874 | 1 | 6741 | SSB |
| 0.029343629 | 0.864977062 | 0.878 | 1 | 8828 | NRP2 |
| 0.029343629 | 0.864977062 | 0.873 | 1 | 10369 | CACNG2 |
| 0.029343629 | 0.864977062 | 0.863 | 1 | 11337 | GABARAP |
| 0.029343629 | 0.864977062 | 0.868 | 1 | 85021 | REPS1 |
| 0.029086228 | 0.866156161 | 0.881 | 1 | 6840 | SVIL |
| 0.029086228 | 0.866156161 | 0.872 | 1 | 22985 | ACIN1 |
| 0.029086228 | 0.866156161 | 0.869 | 1 | 25871 | C3orf17 |
| 0.029086228 | 0.866156161 | 0.884 | 1 | 26301 | GBGT1 |
| 0.029086228 | 0.866156161 | 0.893 | 1 | 51659 | GINS2 |
| 0.029086228 | 0.866156161 | 0.883 | 1 | 283518 | KCNRG |
| 0.029086228 | 0.866156161 | 0.873 | 1 | 731220 | AC099797.1 |
| 0.028828828 | 0.867335081 | 0.869 | 1 | 1611 | DAP |
| 0.028828828 | 0.867335081 | 0.882 | 1 | 5533 | PPP3CC |
| 0.028828828 | 0.867335081 | 0.871 | 1 | 11007 | CCDC85B |
| 0.028828828 | 0.867335081 | 0.866 | 1 | 11148 | HHLA2 |
| 0.028828828 | 0.867335081 | 0.874 | 1 | 57171 | DOLPP1 |
| 0.028828828 | 0.867335081 | 0.879 | 1 | 114134 | SLC2A13 |
| 0.028571429 | 0.86851424 | 0.876 | 1 | 23614 | PPY2 |
| 0.028571429 | 0.86851424 | 0.892 | 1 | 57335 | ZNF286 |
| 0.028571429 | 0.86851424 | 0.879 | 1 | 79012 | CAMKV |
| 0.028314028 | 0.869693696 | 0.885 | 1 | 10606 | PAICS |
| 0.028314028 | 0.869693696 | 0.872 | 1 | 284106 | CISD3 |
| 0.028314028 | 0.869693696 | 0.868 | 1 | 541468 | C1orf190 |
| 0.028056627 | 0.870873988 | 0.898 | 1 | 57511 | COG6 |
| 0.028056627 | 0.870873988 | 0.879 | 1 | 57532 | NUFIP2 |
| 0.028056627 | 0.870873988 | 0.901 | 1 | 90233 | ZNF551 |
| 0.027799228 | 0.872053981 | 0.891 | 1 | 10922 | FASTK |
| 0.027799228 | 0.872053981 | 0.903 | 1 | 26330 | GAPDHS |
| 0.027799228 | 0.872053981 | 0.878 | 1 | 56254 | RNF20 |
| 0.027799228 | 0.872053981 | 0.885 | 1 | 57053 | CHRNA10 |
| 0.027799228 | 0.872053981 | 0.872 | 1 | 131870 | NUDT16 |
| 0.027799228 | 0.872053981 | 0.894 | 1 | 197335 | WDR90 |
| 0.027799228 | 0.872053981 | 0.87 | 1 | 201292 | TRIM65 |
| 0.027799228 | 0.872053981 | 0.894 | 1 | 337976 | KRTAP20-2 |
| 0.027541827 | 0.873234272 | 0.894 | 1 | 4773 | NFATC2 |
| 0.027541827 | 0.873234272 | 0.884 | 1 | 5711 | PSMD5 |
| 0.027541827 | 0.873234272 | 0.89 | 1 | 26469 | PTPN18 |
| 0.027541827 | 0.873234272 | 0.872 | 1 | 345757 | FAM174A |
| 0.027541827 | 0.873234272 | 0.891 | 1 | 100506164 | HSFX1 |
| 0.027284427 | 0.874414861 | 0.884 | 1 | 2077 | ERF |
| 0.027284427 | 0.874414861 | 0.876 | 1 | 10838 | ZNF275 |
| 0.027284427 | 0.874414861 | 0.883 | 1 | 11031 | RAB31 |
| 0.027284427 | 0.874414861 | 0.881 | 1 | 23040 | MYT1L |
| 0.027284427 | 0.874414861 | 0.882 | 1 | 27349 | MCAT |
| 0.027284427 | 0.874414861 | 0.895 | 1 | 84705 | GTPBP3 |
| 0.027284427 | 0.874414861 | 0.882 | 1 | 100132062 | LOC100132062 |
| 0.027027028 | 0.875595689 | 0.878 | 1 | 2186 | BPTF |
| 0.027027028 | 0.875595689 | 0.894 | 1 | 8031 | NCOA4 |
| 0.027027028 | 0.875595689 | 0.888 | 1 | 29072 | SETD2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.057029653 | 2.85816E-07 | 5984 | RFC4 |
| 0.056950346 | 2.96879E-07 | 6293 | VPS52 |
| 0.056898713 | 3.04302E-07 | 30001 | ERO1L |
| 0.056877073 | 3.07464E-07 | 55658 | RNF126 |
| 0.056852188 | 3.11143E-07 | 2185 | PTK2B |
| 0.056837793 | 3.1329E-07 | 23768 | FLRT2 |
| 0.056831572 | 3.14222E-07 | 643236 | TMEM72 |
| 0.056808259 | 3.17739E-07 | 3364 | HUS1 |
| 0.056797769 | 3.19334E-07 | 2042 | EPHA3 |
| 0.056796003 | 3.19603E-07 | 57876 | MUC3B |
| 0.056794517 | 3.19829E-07 | 4059 | BCAM |
| 0.056791544 | 3.20283E-07 | 3476 | IGBP1 |
| 0.056669332 | 3.39498E-07 | 2644 | GCHFR |
| 0.056666549 | 3.39949E-07 | 7343 | UBTF |
| 0.056617144 | 3.48039E-07 | 196527 | ANO6 |
| 0.056588724 | 3.52776E-07 | 54957 | TXNL4B |
| 0.05658761 | 3.52963E-07 | 9101 | USP8 |
| 0.056562722 | 3.57165E-07 | 100507135 | AL139377.1 |
| 0.056499016 | 3.68142E-07 | 23582 | CCNDBP1 |
| 0.056479886 | 3.71501E-07 | 10933 | MORF4L1 |
| 0.056448776 | 3.77028E-07 | 84634 | KISS1R |
| 0.056437541 | 3.79043E-07 | 2195 | FAT1 |
| 0.056404293 | 3.85067E-07 | 8085 | MLL2 |
| 0.056394823 | 3.868E-07 | 1953 | MEGF6 |
| 0.056377642 | 3.89963E-07 | 122042 | RXFP2 |
| 0.056370396 | 3.91304E-07 | 1875 | E2F5 |
| 0.0562324 | 4.17717E-07 | 147645 | AC063977.1 |
| 0.056177143 | 4.28769E-07 | 4665 | NAB2 |
| 0.056142598 | 4.35821E-07 | 55970 | GNG12 |
| 0.056137305 | 4.36912E-07 | 55529 | TMEM55A |
| 0.056070071 | 4.50992E-07 | 28958 | CCDC56 |
| 0.056052331 | 4.54781E-07 | 100507530 | LOC100507530 |
| 0.056049917 | 4.55298E-07 | 54814 | QPCTL |
| 0.056016766 | 4.62466E-07 | 23042 | PDXDC1 |
| 0.055988718 | 4.68616E-07 | 64940 | STAG3L4 |
| 0.055986118 | 4.6919E-07 | 389336 | C5orf46 |
| 0.055973675 | 4.71946E-07 | 3593 | IL12B |
| 0.055911548 | 4.85946E-07 | 8818 | DPM2 |
| 0.055903003 | 4.87903E-07 | 57406 | ABHD6 |
| 0.055858985 | 4.98102E-07 | 54849 | DEF8 |
| 0.055839483 | 5.02686E-07 | 1230 | CCR1 |
| 0.055807445 | 5.10305E-07 | 124221 | TMPRSS8 |
| 0.055794813 | 5.13341E-07 | 153572 | IRX2 |
| 0.055743832 | 5.25767E-07 | 84243 | ZDHHC18 |
| 0.055737518 | 5.27326E-07 | 10193 | RNF41 |
| 0.05568774 | 5.39772E-07 | 55374 | TMCO6 |
| 0.055654123 | 5.48339E-07 | 343035 | RD3 |
| 0.055608898 | 5.6007E-07 | 153339 | TMEM167A |
| 0.055574816 | 5.69071E-07 | 79596 | RNF219 |
| 0.055567756 | 5.70952E-07 | 794 | CALB2 |
| 0.055566177 | 5.71373E-07 | 1536 | CYBB |
| 0.055553827 | 5.74681E-07 | 79065 | ATG9A |
| 0.0555503 | 5.75629E-07 | 6543 | SLC8A2 |
| 0.055535998 | 5.7949E-07 | 5662 | PSD |
| 0.055510458 | 5.86446E-07 | 53947 | A4GALT |
| 0.055428736 | 6.09249E-07 | 6349 | CCL3L1 |
| 0.055368651 | 6.26557E-07 | 25864 | ABHD14A |
| 0.055249412 | 6.62318E-07 | 2952 | GSTT1 |
| 0.055242542 | 6.64436E-07 | 821 | CANX |
| 0.055239104 | 6.655E-07 | 8241 | RBM10 |
| 0.055188026 | 6.81487E-07 | 5430 | POLR2A |
| 0.055185243 | 6.82368E-07 | 2245 | FGD1 |
| 0.055126086 | 7.01369E-07 | 8367 | HIST1H4E |
| 0.055068694 | 7.20292E-07 | 390260 | OR6X1 |
| 0.054992266 | 7.46255E-07 | 9720 | CCDC144A |
| 0.054988179 | 7.47666E-07 | 6953 | TCP10 |
| 0.054969884 | 7.54024E-07 | 253725 | FAM21C |
| 0.054903951 | 7.77376E-07 | 4345 | CD200 |
| 0.054874513 | 7.88025E-07 | 114791 | TUBGCP5 |
| 0.054856867 | 7.94478E-07 | 1053 | CEBPE |
| 0.054836903 | 8.01834E-07 | 84901 | NFATC2IP |
| 0.054833557 | 8.03075E-07 | 4299 | AFF1 |
| 0.054816194 | 8.09539E-07 | 6850 | SYK |
| 0.054797526 | 8.16544E-07 | 197350 | AC108134.5 |
| 0.054779138 | 8.23502E-07 | 2318 | FLNC |
| 0.05476521 | 8.28809E-07 | 5792 | PTPRF |
| 0.054741248 | 8.38017E-07 | 257000 | PLAC2 |
| 0.054715898 | 8.47866E-07 | 844 | CASQ1 |
| 0.054676242 | 8.63499E-07 | 1184 | CLCN5 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.027027028 | 0.875595689 | 0.871 | 1 | 51307 | FAM53C |
| 0.026769627 | 0.876777291 | 0.871 | 1 | 8555 | CDC14B |
| 0.026769627 | 0.876777291 | 0.881 | 1 | 10642 | IGF2BP1 |
| 0.026769627 | 0.876777291 | 0.893 | 1 | 57472 | CNOT6 |
| 0.026769627 | 0.876777291 | 0.872 | 1 | 81609 | SNX27 |
| 0.026769627 | 0.876777291 | 0.878 | 1 | 130355 | C2orf76 |
| 0.026769627 | 0.876777291 | 0.877 | 1 | 339665 | SLC35E4 |
| 0.026769627 | 0.876777291 | 0.905 | 1 | 388692 | LOC388692 |
| 0.026512226 | 0.877958715 | 0.889 | 1 | 720 | C4A |
| 0.026512226 | 0.877958715 | 0.878 | 1 | 951 | CD37 |
| 0.026512226 | 0.877958715 | 0.894 | 1 | 1474 | CST6 |
| 0.026512226 | 0.877958715 | 0.884 | 1 | 5446 | PON3 |
| 0.026512226 | 0.877958715 | 0.88 | 1 | 5536 | PPP5C |
| 0.026512226 | 0.877958715 | 0.875 | 1 | 7840 | ALMS1 |
| 0.026512226 | 0.877958715 | 0.887 | 1 | 57515 | SERINC1 |
| 0.026512226 | 0.877958715 | 0.89 | 1 | 80308 | FLAD1 |
| 0.026512226 | 0.877958715 | 0.885 | 1 | 83444 | INO80B |
| 0.026512226 | 0.877958715 | 0.896 | 1 | 93621 | MRFAP1 |
| 0.026512226 | 0.877958715 | 0.915 | 1 | 219431 | OR4S2 |
| 0.026512226 | 0.877958715 | 0.877 | 1 | 648791 | PPP1R3G |
| 0.026254825 | 0.879140317 | 0.901 | 1 | 6433 | SFRS8 |
| 0.026254825 | 0.879140317 | 0.882 | 1 | 94235 | GNG8 |
| 0.026254825 | 0.879140317 | 0.906 | 1 | 116039 | OSR2 |
| 0.026254825 | 0.879140317 | 0.888 | 1 | 283807 | FBXL22 |
| 0.025997426 | 0.880322218 | 0.904 | 1 | 8915 | BCL10 |
| 0.025997426 | 0.880322218 | 0.903 | 1 | 115265 | DDIT4L |
| 0.025997426 | 0.880322218 | 0.899 | 1 | 162387 | MFSD6L |
| 0.025997426 | 0.880322218 | 0.889 | 1 | 255809 | C19orf38 |
| 0.025740024 | 0.881504893 | 0.898 | 1 | 509 | ATP5C1 |
| 0.025740024 | 0.881504893 | 0.879 | 1 | 4261 | CIITA |
| 0.025740024 | 0.881504893 | 0.896 | 1 | 9527 | GOSR1 |
| 0.025740024 | 0.881504893 | 0.88 | 1 | 10778 | ZNF271 |
| 0.025740024 | 0.881504893 | 0.884 | 1 | 388512 | CLEC17A |
| 0.025740024 | 0.881504893 | 0.888 | 1 | 440556 | RP1-163G9.1 |
| 0.025482625 | 0.88268733 | 0.888 | 1 | 5343 | PLGLB1 |
| 0.025482625 | 0.88268733 | 0.893 | 1 | 5373 | PMM2 |
| 0.025482625 | 0.88268733 | 0.893 | 1 | 84678 | KDM2B |
| 0.025482625 | 0.88268733 | 0.89 | 1 | 400406 | LOC400406 |
| 0.025225226 | 0.883869946 | 0.883 | 1 | 2946 | GSTM2 |
| 0.025225226 | 0.883869946 | 0.901 | 1 | 10379 | IRF9 |
| 0.025225226 | 0.883869946 | 0.902 | 1 | 55277 | FGGY |
| 0.025225226 | 0.883869946 | 0.915 | 1 | 126917 | IFFO2 |
| 0.025225226 | 0.883869946 | 0.892 | 1 | 100287049 | RP11-574F21.2 |
| 0.024967825 | 0.88505286 | 0.892 | 1 | 4009 | LMX1A |
| 0.024967825 | 0.88505286 | 0.887 | 1 | 10456 | HAX1 |
| 0.024967825 | 0.88505286 | 0.887 | 1 | 143678 | AC068385.1 |
| 0.024967825 | 0.88505286 | 0.9 | 1 | 445582 | POTEE |
| 0.024710424 | 0.886236548 | 0.899 | 1 | 8737 | RIPK1 |
| 0.024710424 | 0.886236548 | 0.896 | 1 | 10669 | CGREF1 |
| 0.024710424 | 0.886236548 | 0.875 | 1 | 80124 | VCPIP1 |
| 0.024710424 | 0.886236548 | 0.901 | 1 | 81034 | SLC25A32 |
| 0.024710424 | 0.886236548 | 0.901 | 1 | 92960 | PEX11G |
| 0.024710424 | 0.886236548 | 0.889 | 1 | 221079 | ARL5B |
| 0.024710424 | 0.886236548 | 0.895 | 1 | 441052 | LOC441052 |
| 0.024453023 | 0.887419939 | 0.91 | 1 | 955 | ENTPD6 |
| 0.024453023 | 0.887419939 | 0.878 | 1 | 7031 | TFF1 |
| 0.024453023 | 0.887419939 | 0.898 | 1 | 9815 | GIT2 |
| 0.024453023 | 0.887419939 | 0.896 | 1 | 10260 | DENND4A |
| 0.024453023 | 0.887419939 | 0.898 | 1 | 84073 | MYCBPAP |
| 0.024453023 | 0.887419939 | 0.904 | 1 | 85294 | KRTAP2-4 |
| 0.024195625 | 0.888603628 | 0.895 | 1 | 1894 | ECT2 |
| 0.024195625 | 0.888603628 | 0.904 | 1 | 51696 | HECA |
| 0.024195625 | 0.888603628 | 0.922 | 1 | 112487 | C14orf126 |
| 0.023938224 | 0.889787495 | 0.908 | 1 | 1761 | DMRT1 |
| 0.023938224 | 0.889787495 | 0.891 | 1 | 26035 | GLCE |
| 0.023938224 | 0.889787495 | 0.9 | 1 | 26058 | GIGYF2 |
| 0.023938224 | 0.889787495 | 0.905 | 1 | 64083 | GOLPH3 |
| 0.023680823 | 0.890971541 | 0.895 | 1 | 814 | CAMK4 |
| 0.023680823 | 0.890971541 | 0.895 | 1 | 4641 | MYO1C |
| 0.023680823 | 0.890971541 | 0.916 | 1 | 22888 | UBOX5 |
| 0.023680823 | 0.890971541 | 0.893 | 1 | 100287932 | TIMM23 |
| 0.023423424 | 0.892156482 | 0.896 | 1 | 4502 | MT2A |
| 0.023423424 | 0.892156482 | 0.897 | 1 | 10658 | CUGBP1 |
| 0.023423424 | 0.892156482 | 0.91 | 1 | 11216 | AKAP10 |
| 0.023423424 | 0.892156482 | 0.914 | 1 | 51174 | TUBD1 |
| 0.023423424 | 0.892156482 | 0.909 | 1 | 51304 | ZDHHC3 |
| 0.023423424 | 0.892156482 | 0.899 | 1 | 51375 | SNX7 |
| 0.023423424 | 0.892156482 | 0.919 | 1 | 51807 | TUBA8 |
| 0.023423424 | 0.892156482 | 0.902 | 1 | 79149 | ZSCAN5A |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.054663241 | 8.68682E-07 | 26001 | RNF167 |
| 0.054653212 | 8.72704E-07 | 23127 | GLT25D2 |
| 0.054474447 | 9.47437E-07 | 64928 | MRPL14 |
| 0.054431912 | 9.66106E-07 | 23635 | SSBP2 |
| 0.054396253 | 9.82029E-07 | 121601 | AC079953.2 |
| 0.054391887 | 9.83996E-07 | 6692 | SPINT1 |
| 0.054379631 | 9.89536E-07 | 5518 | PPP2R1A |
| 0.054337561 | 1.00879E-06 | 576 | BAI2 |
| 0.054337282 | 1.00892E-06 | 285958 | C7orf40 |
| 0.05430153 | 1.02557E-06 | 8482 | SEMA7A |
| 0.054198448 | 1.07505E-06 | 114569 | MAL2 |
| 0.054183312 | 1.08251E-06 | 8623 | ASMTL |
| 0.054157864 | 1.09516E-06 | 9655 | SOCS5 |
| 0.054154336 | 1.09692E-06 | 339398 | LINGO4 |
| 0.054144681 | 1.10176E-06 | 5636 | PRPSAP2 |
| 0.054143008 | 1.1026E-06 | 6452 | SH3BP2 |
| 0.054137435 | 1.10541E-06 | 4594 | MUT |
| 0.054122206 | 1.11312E-06 | 7225 | TRPC6 |
| 0.054118678 | 1.11491E-06 | 6001 | RGS10 |
| 0.054097131 | 1.12592E-06 | 1965 | EIF2S1 |
| 0.054003242 | 1.17513E-06 | 100131187 | RP11-544M22.1 |
| 0.053984299 | 1.1853E-06 | 22978 | NT5C2 |
| 0.053966563 | 1.1949E-06 | 653361 | NCF1 |
| 0.05395003 | 1.20393E-06 | 51196 | PLCE1 |
| 0.053949937 | 1.20398E-06 | 79366 | NSBP1 |
| 0.053937122 | 1.21101E-06 | 945 | CD33 |
| 0.053894125 | 1.23491E-06 | 2356 | FPGS |
| 0.053856794 | 1.25603E-06 | 653121 | ZBTB8A |
| 0.05382745 | 1.27287E-06 | 56000 | NXF3 |
| 0.053751022 | 1.31776E-06 | 8336 | HIST1H2AM |
| 0.053730495 | 1.33008E-06 | 5783 | PTPN13 |
| 0.053717125 | 1.33816E-06 | 60561 | RINT1 |
| 0.053707838 | 1.3438E-06 | 1002 | CDH4 |
| 0.053649981 | 1.37946E-06 | 6286 | S100P |
| 0.05362853 | 1.39291E-06 | 64236 | PDLIM2 |
| 0.053601414 | 1.41009E-06 | 9148 | NEURL |
| 0.053555537 | 1.43963E-06 | 747 | DAGLA |
| 0.053513654 | 1.46711E-06 | 55213 | RCBTB1 |
| 0.053378627 | 1.55919E-06 | 56900 | TMEM167B |
| 0.053357176 | 1.57432E-06 | 8269 | TMEM187 |
| 0.053343616 | 1.58396E-06 | 440836 | ODF3B |
| 0.05330294 | 1.61321E-06 | 283902 | HTA |
| 0.053296257 | 1.61806E-06 | 9520 | NPEPPS |
| 0.053295325 | 1.61874E-06 | 56112 | PCDHGA3 |
| 0.053261895 | 1.64325E-06 | 283635 | FAM177A1 |
| 0.053256135 | 1.64751E-06 | 1432 | MAPK14 |
| 0.053253815 | 1.64922E-06 | 26015 | RPAP1 |
| 0.053133555 | 1.7407E-06 | 140947 | C5ORF20 |
| 0.053102165 | 1.76536E-06 | 119358 | SNRPD2P1 |
| 0.05309483 | 1.77117E-06 | 631 | BFSP1 |
| 0.053079136 | 1.78367E-06 | 55279 | ZNF654 |
| 0.053037532 | 1.81721E-06 | 84439 | HHIPL1 |
| 0.053020723 | 1.83092E-06 | 257044 | C1orf101 |
| 0.05291792 | 1.91704E-06 | 10876 | FAM12A |
| 0.052895073 | 1.93669E-06 | 3005 | H1F0 |
| 0.052885417 | 1.94506E-06 | 388551 | CEACAM16 |
| 0.052880865 | 1.94902E-06 | 127254 | C1orf173 |
| 0.052842513 | 1.98266E-06 | 50808 | AK3 |
| 0.052789394 | 2.03018E-06 | 284800 | C20orf91 |
| 0.052783079 | 2.0359E-06 | 353332 | KRTAP12-1 |
| 0.052780848 | 2.03793E-06 | 84815 | MGC12916 |
| 0.052739058 | 2.07622E-06 | 160065 | PATE1 |
| 0.052735344 | 2.07965E-06 | 353140 | LCE2C |
| 0.052726988 | 2.0874E-06 | 65062 | ALS2CR4 |
| 0.052677583 | 2.1338E-06 | 51247 | PAIP2 |
| 0.052654274 | 2.15603E-06 | 201305 | SPNS3 |
| 0.052595861 | 2.21272E-06 | 2631 | GBAS |
| 0.052563079 | 2.24517E-06 | 284677 | C1orf204 |
| 0.052545249 | 2.263E-06 | 64794 | DDX31 |
| 0.05244096 | 2.37008E-06 | 9249 | DHRS3 |
| 0.052402884 | 2.41038E-06 | 5277 | PIGA |
| 0.052384682 | 2.42988E-06 | 353088 | ZNF429 |
| 0.052368987 | 2.44681E-06 | 7706 | TRIM25 |
| 0.052353758 | 2.46334E-06 | 3846 | KRTAP5-9 |
| 0.052350231 | 2.46718E-06 | 6729 | SRP54 |
| 0.052313734 | 2.50731E-06 | 10916 | MAGED2 |
| 0.052300639 | 2.52186E-06 | 64799 | IQCH |
| 0.052298967 | 2.52372E-06 | 80740 | LY6G6C |
| 0.052293394 | 2.52995E-06 | 51214 | IGF2AS |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.023423424 | 0.892156482 | 0.907 | 1 | 541466 | CT45A1 |
| 0.023166021 | 0.893341064 | 0.907 | 1 | 51645 | PPIL1 |
| 0.023166021 | 0.893341064 | 0.894 | 1 | 140902 | R3HDML |
| 0.022908622 | 0.894525886 | 0.895 | 1 | 899 | CCNF |
| 0.022908622 | 0.894525886 | 0.909 | 1 | 22902 | RUFY3 |
| 0.022908622 | 0.894525886 | 0.906 | 1 | 90025 | UBE2CBP |
| 0.022908622 | 0.894525886 | 0.904 | 1 | 284697 | BTBD8 |
| 0.022651222 | 0.895710945 | 0.886 | 1 | 4921 | DDR2 |
| 0.022651222 | 0.895710945 | 0.887 | 1 | 9716 | AQR |
| 0.022651222 | 0.895710945 | 0.902 | 1 | 23363 | OBSL1 |
| 0.022651222 | 0.895710945 | 0.898 | 1 | 55740 | ENAH |
| 0.022393823 | 0.89689672 | 0.905 | 1 | 2787 | GNG5 |
| 0.022393823 | 0.89689672 | 0.899 | 1 | 5499 | PPP1CA |
| 0.022393823 | 0.89689672 | 0.914 | 1 | 5551 | PRF1 |
| 0.022393823 | 0.89689672 | 0.895 | 1 | 5994 | RFXAP |
| 0.022393823 | 0.89689672 | 0.902 | 1 | 23767 | FLRT3 |
| 0.022136422 | 0.898082256 | 0.912 | 1 | 4287 | ATXN3 |
| 0.022136422 | 0.898082256 | 0.928 | 1 | 4291 | MLF1 |
| 0.022136422 | 0.898082256 | 0.916 | 1 | 9831 | ZNF623 |
| 0.022136422 | 0.898082256 | 0.913 | 1 | 51438 | MAGEC2 |
| 0.022136422 | 0.898082256 | 0.914 | 1 | 58508 | MLL3 |
| 0.021879021 | 0.899267972 | 0.899 | 1 | 3139 | HLA-L |
| 0.021879021 | 0.899267972 | 0.925 | 1 | 3646 | EIF3E |
| 0.021879021 | 0.899267972 | 0.904 | 1 | 4853 | NOTCH2 |
| 0.021879021 | 0.899267972 | 0.907 | 1 | 6240 | RRM1 |
| 0.021879021 | 0.899267972 | 0.897 | 1 | 10347 | ABCA7 |
| 0.021879021 | 0.899267972 | 0.919 | 1 | 55054 | ATG16L1 |
| 0.021879021 | 0.899267972 | 0.915 | 1 | 64858 | DCLRE1B |
| 0.021879021 | 0.899267972 | 0.911 | 1 | 84572 | GNPTG |
| 0.021879021 | 0.899267972 | 0.889 | 1 | 84791 | C1orf97 |
| 0.021879021 | 0.899267972 | 0.918 | 1 | 91289 | LMF2 |
| 0.021879021 | 0.899267972 | 0.9 | 1 | 94241 | TP53INP1 |
| 0.021621622 | 0.900453925 | 0.906 | 1 | 3956 | LGALS1 |
| 0.021621622 | 0.900453925 | 0.902 | 1 | 7349 | UCN |
| 0.021621622 | 0.900453925 | 0.91 | 1 | 9638 | FEZ1 |
| 0.021621622 | 0.900453925 | 0.913 | 1 | 79153 | GDPD3 |
| 0.021364219 | 0.901640594 | 0.919 | 1 | 2177 | FANCD2 |
| 0.021364219 | 0.901640594 | 0.904 | 1 | 3055 | HCK |
| 0.021364219 | 0.901640594 | 0.908 | 1 | 3663 | IRF5 |
| 0.021364219 | 0.901640594 | 0.914 | 1 | 7620 | ZNF69 |
| 0.021364219 | 0.901640594 | 0.918 | 1 | 8019 | BRD3 |
| 0.021364219 | 0.901640594 | 0.921 | 1 | 54805 | CNNM2 |
| 0.021364219 | 0.901640594 | 0.917 | 1 | 54962 | TIPIN |
| 0.021364219 | 0.901640594 | 0.916 | 1 | 55100 | WDR70 |
| 0.021364219 | 0.901640594 | 0.908 | 1 | 55272 | IMP3 |
| 0.021364219 | 0.901640594 | 0.917 | 1 | 81614 | NIPA2 |
| 0.021106821 | 0.902826905 | 0.904 | 1 | 27333 | GOLIM4 |
| 0.021106821 | 0.902826905 | 0.9 | 1 | 221830 | TWISTNB |
| 0.021106821 | 0.902826905 | 0.903 | 1 | 283796 | GOLGA9P |
| 0.021106821 | 0.902826905 | 0.915 | 1 | 651746 | ANKRD33B |
| 0.021106821 | 0.902826905 | 0.901 | 1 | 751071 | METTL12 |
| 0.020849422 | 0.904013515 | 0.916 | 1 | 2937 | GSS |
| 0.020849422 | 0.904013515 | 0.904 | 1 | 3070 | HELLS |
| 0.020849422 | 0.904013515 | 0.935 | 1 | 10935 | PRDX3 |
| 0.020849422 | 0.904013515 | 0.919 | 1 | 22824 | HSPA4L |
| 0.020849422 | 0.904013515 | 0.909 | 1 | 91942 | NDUFAF2 |
| 0.020849422 | 0.904013515 | 0.91 | 1 | 126520 | PLK5P |
| 0.020849422 | 0.904013515 | 0.911 | 1 | 254028 | LOC254028 |
| 0.020849422 | 0.904013515 | 0.912 | 1 | 283248 | RCOR2 |
| 0.020592021 | 0.905200243 | 0.911 | 1 | 248 | ALPI |
| 0.020592021 | 0.905200243 | 0.909 | 1 | 482 | ATP1B2 |
| 0.020592021 | 0.905200243 | 0.912 | 1 | 1787 | TRDMT1 |
| 0.020592021 | 0.905200243 | 0.904 | 1 | 8411 | EEA1 |
| 0.020592021 | 0.905200243 | 0.91 | 1 | 79412 | KREMEN2 |
| 0.020592021 | 0.905200243 | 0.902 | 1 | 401149 | FLJ14186 |
| 0.02033462 | 0.906387269 | 0.923 | 1 | 115 | ADCY9 |
| 0.02033462 | 0.906387269 | 0.907 | 1 | 154 | ADRB2 |
| 0.02033462 | 0.906387269 | 0.907 | 1 | 945 | CD33 |
| 0.02033462 | 0.906387269 | 0.904 | 1 | 4035 | LRP1 |
| 0.02033462 | 0.906387269 | 0.918 | 1 | 4086 | SMAD1 |
| 0.02033462 | 0.906387269 | 0.912 | 1 | 54988 | ACSM5 |
| 0.02033462 | 0.906387269 | 0.913 | 1 | 170622 | COMMD6 |
| 0.02033462 | 0.906387269 | 0.911 | 1 | 286380 | FOXD4L3 |
| 0.020077219 | 0.907574952 | 0.913 | 1 | 6143 | RPL19P12 |
| 0.020077219 | 0.907574952 | 0.9 | 1 | 8078 | USP5 |
| 0.020077219 | 0.907574952 | 0.919 | 1 | 8820 | HESX1 |
| 0.020077219 | 0.907574952 | 0.905 | 1 | 58485 | TRAPPC1 |
| 0.020077219 | 0.907574952 | 0.908 | 1 | 80161 | ASMTL-AS1 |
| 0.020077219 | 0.907574952 | 0.924 | 1 | 113178 | SCAMP4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.052287266 | 2.53681E-06 | 8615 | USO1 |
| 0.052131716 | 2.71696E-06 | 4036 | LRP2 |
| 0.052114349 | 2.73783E-06 | 653483 | C6orf124 |
| 0.052098468 | 2.75703E-06 | 7913 | DEK |
| 0.052088812 | 2.76878E-06 | 284433 | OR10H5 |
| 0.052087139 | 2.77082E-06 | 9064 | MAP3K6 |
| 0.052068289 | 2.7939E-06 | 5130 | PCYT1A |
| 0.052040614 | 2.82812E-06 | 90246 | LOC90246 |
| 0.052010711 | 2.86554E-06 | 10572 | SIVA1 |
| 0.052010246 | 2.86613E-06 | 651430 | FLJ38576 |
| 0.051986102 | 2.8967E-06 | 144402 | CPNE8 |
| 0.051985081 | 2.898E-06 | 8313 | AXIN2 |
| 0.051854417 | 3.06901E-06 | 9182 | RASSF9 |
| 0.051837329 | 3.09208E-06 | 219858 | OR8B12 |
| 0.051830273 | 3.10166E-06 | 619189 | SERINC4 |
| 0.051775575 | 3.17684E-06 | 55520 | ELAC1 |
| 0.051761087 | 3.19705E-06 | 4440 | MSI1 |
| 0.051754121 | 3.20681E-06 | 100130794 | NDUFS5P7 |
| 0.0517492 | 3.21373E-06 | 7443 | VRK1 |
| 0.05174493 | 3.21973E-06 | 318 | NUDT2 |
| 0.051737498 | 3.23021E-06 | 7705 | ZNF146 |
| 0.051698033 | 3.28644E-06 | 388955 | LOC388955 |
| 0.05166943 | 3.32777E-06 | 706 | TSPO |
| 0.051649556 | 3.35679E-06 | 24147 | FJX1 |
| 0.051630333 | 3.38507E-06 | 26145 | IRF2BP1 |
| 0.051605351 | 3.42219E-06 | 4604 | MYBPC1 |
| 0.051591516 | 3.4429E-06 | 3745 | KCNB1 |
| 0.051579721 | 3.46067E-06 | 374860 | C21orf110 |
| 0.051574335 | 3.4688E-06 | 146562 | C16orf71 |
| 0.051373929 | 3.78501E-06 | 10842 | C7orf16 |
| 0.051312637 | 3.88711E-06 | 117166 | WFIKKN1 |
| 0.051283754 | 3.93614E-06 | 8563 | THOC5 |
| 0.051229987 | 4.02898E-06 | 4724 | NDUFS4 |
| 0.051221073 | 4.04457E-06 | 7918 | BAT4 |
| 0.05118281 | 4.11216E-06 | 4247 | MGAT2 |
| 0.051171202 | 4.13289E-06 | 91612 | CHURC1 |
| 0.051150121 | 4.17076E-06 | 144132 | DNHD1 |
| 0.051144827 | 4.18034E-06 | 3958 | LGALS3 |
| 0.051111396 | 4.24123E-06 | 29126 | CD274 |
| 0.051035527 | 4.3826E-06 | 79893 | GGNBP2 |
| 0.051008131 | 4.43474E-06 | 28970 | C11orf54 |
| 0.050926778 | 4.59313E-06 | 140545 | RNF32 |
| 0.050907835 | 4.63077E-06 | 64598 | MOSPD3 |
| 0.050892696 | 4.66108E-06 | 2695 | GIP |
| 0.05089112 | 4.66424E-06 | 56181 | FAM54B |
| 0.050871152 | 4.70453E-06 | 5078 | PAX4 |
| 0.050867993 | 4.71093E-06 | 51503 | CWC15 |
| 0.05082212 | 4.80484E-06 | 51001 | MTERFD1 |
| 0.050778564 | 4.8957E-06 | 9990 | SLC12A6 |
| 0.050700929 | 5.06171E-06 | 7466 | WFS1 |
| 0.050651245 | 5.17077E-06 | 6698 | SPRR1A |
| 0.050471921 | 5.5834E-06 | 135152 | B3GAT2 |
| 0.050467744 | 5.59338E-06 | 1135 | CHRNA2 |
| 0.050408587 | 5.73653E-06 | 23194 | FBXL7 |
| 0.05039512 | 5.76961E-06 | 22994 | AZI1 |
| 0.050285909 | 6.04466E-06 | 5571 | PRKAG1 |
| 0.050268825 | 6.0888E-06 | 10170 | DHRS9 |
| 0.050260838 | 6.10954E-06 | 407835 | LOC407835 |
| 0.050220255 | 6.216E-06 | 478 | ATP1A3 |
| 0.050219327 | 6.21845E-06 | 1635 | DCTD |
| 0.050140299 | 6.43094E-06 | 10498 | CARM1 |
| 0.050078355 | 6.60232E-06 | 91404 | SESTD1 |
| 0.050062105 | 6.648E-06 | 92799 | SHKBP1 |
| 0.050056811 | 6.66294E-06 | 11037 | STON1 |
| 0.050034616 | 6.72597E-06 | 60490 | PPCDC |
| 0.050028488 | 6.74346E-06 | 4189 | DNAJB9 |
| 0.050001185 | 6.82196E-06 | 9751 | SNPH |
| 0.049993567 | 6.84401E-06 | 123803 | NTAN1 |
| 0.049966082 | 6.92416E-06 | 202309 | GAPT |
| 0.049964037 | 6.93016E-06 | 23283 | CSTF2T |
| 0.049918719 | 7.06439E-06 | 10308 | ZNF267 |
| 0.04982641 | 7.3455E-06 | 59352 | LGR6 |
| 0.049757876 | 7.56112E-06 | 89849 | ATG16L2 |
| 0.049676802 | 7.82398E-06 | 84326 | C16orf13 |
| 0.049672533 | 7.83807E-06 | 57715 | SEMA4G |
| 0.04966566 | 7.8608E-06 | 8170 | SLC14A2 |
| 0.049662687 | 7.87064E-06 | 388323 | GLTPD2 |
| 0.049639005 | 7.94951E-06 | 51073 | MRPL4 |
| 0.049622197 | 8.00593E-06 | 254427 | C10orf47 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.01981982 | 0.908762395 | 0.913 | 1 | 286 | ANK1 |
| 0.01981982 | 0.908762395 | 0.914 | 1 | 22954 | TRIM32 |
| 0.01981982 | 0.908762395 | 0.907 | 1 | 25948 | KBTBD2 |
| 0.01981982 | 0.908762395 | 0.917 | 1 | 55074 | OXR1 |
| 0.01981982 | 0.908762395 | 0.923 | 1 | 130749 | CPO |
| 0.01981982 | 0.908762395 | 0.92 | 1 | 353144 | LCE3C |
| 0.01981982 | 0.908762395 | 0.907 | 1 | 440574 | C1orf151 |
| 0.019562418 | 0.909949899 | 0.91 | 1 | 5586 | PKN2 |
| 0.019562418 | 0.909949899 | 0.928 | 1 | 79897 | RPP21 |
| 0.019562418 | 0.909949899 | 0.922 | 1 | 222696 | ZSCAN23 |
| 0.019305019 | 0.91113776 | 0.924 | 1 | 905 | CCNT2 |
| 0.019305019 | 0.91113776 | 0.909 | 1 | 9583 | ENTPD4 |
| 0.019305019 | 0.91113776 | 0.937 | 1 | 22994 | AZI1 |
| 0.019305019 | 0.91113776 | 0.923 | 1 | 57531 | HACE1 |
| 0.019305019 | 0.91113776 | 0.928 | 1 | 285600 | C5orf36 |
| 0.01904762 | 0.912326217 | 0.916 | 1 | 1677 | DFFB |
| 0.01904762 | 0.912326217 | 0.91 | 1 | 5089 | PBX2 |
| 0.01904762 | 0.912326217 | 0.901 | 1 | 153478 | PLEKHG4B |
| 0.01904762 | 0.912326217 | 0.921 | 1 | 374897 | SBSN |
| 0.018790217 | 0.913514376 | 0.914 | 1 | 7019 | TFAM |
| 0.018790217 | 0.913514376 | 0.922 | 1 | 7994 | MYST3 |
| 0.018790217 | 0.913514376 | 0.927 | 1 | 9730 | VPRBP |
| 0.018790217 | 0.913514376 | 0.924 | 1 | 200373 | AC069154.2 |
| 0.018532818 | 0.914702773 | 0.915 | 1 | 3630 | INS |
| 0.018532818 | 0.914702773 | 0.921 | 1 | 5611 | DNAJC3 |
| 0.018532818 | 0.914702773 | 0.924 | 1 | 51719 | CAB39 |
| 0.018532818 | 0.914702773 | 0.931 | 1 | 100506060 | LOC100506060 |
| 0.018275417 | 0.91589123 | 0.928 | 1 | 1185 | CLCN6 |
| 0.018275417 | 0.91589123 | 0.924 | 1 | 29964 | PRICKLE4 |
| 0.018275417 | 0.91589123 | 0.918 | 1 | 284367 | SIGLECP3 |
| 0.018275417 | 0.91589123 | 0.913 | 1 | 387597 | ILDR2 |
| 0.018018018 | 0.917080581 | 0.926 | 1 | 989 | SEPTIN7 |
| 0.018018018 | 0.917080581 | 0.912 | 1 | 3232 | HOXD3 |
| 0.018018018 | 0.917080581 | 0.924 | 1 | 4007 | PRICKLE3 |
| 0.018018018 | 0.917080581 | 0.915 | 1 | 10575 | CCT4 |
| 0.018018018 | 0.917080581 | 0.932 | 1 | 25909 | AHCTF1 |
| 0.018018018 | 0.917080581 | 0.918 | 1 | 51008 | ASCC1 |
| 0.018018018 | 0.917080581 | 0.928 | 1 | 93100 | NAPRT1 |
| 0.018018018 | 0.917080581 | 0.924 | 1 | 132660 | LIN54 |
| 0.018018018 | 0.917080581 | 0.929 | 1 | 253982 | ASPHD1 |
| 0.018018018 | 0.917080581 | 0.921 | 1 | 388566 | ZNF470 |
| 0.017760618 | 0.918269455 | 0.916 | 1 | 433 | ASGR2 |
| 0.017760618 | 0.918269455 | 0.931 | 1 | 7009 | TMBIM6 |
| 0.017760618 | 0.918269455 | 0.937 | 1 | 8192 | CLPP |
| 0.017760618 | 0.918269455 | 0.934 | 1 | 51185 | CRBN |
| 0.017760618 | 0.918269455 | 0.918 | 1 | 57677 | ZFP14 |
| 0.017760618 | 0.918269455 | 0.94 | 1 | 83932 | C1orf124 |
| 0.017760618 | 0.918269455 | 0.937 | 1 | 84553 | FAXC |
| 0.017503217 | 0.919458449 | 0.918 | 1 | 2623 | GATA1 |
| 0.017503217 | 0.919458449 | 0.93 | 1 | 5479 | PPIB |
| 0.017503217 | 0.919458449 | 0.926 | 1 | 6615 | SNAI1 |
| 0.017503217 | 0.919458449 | 0.942 | 1 | 26539 | OR10H1 |
| 0.017503217 | 0.919458449 | 0.924 | 1 | 51639 | AC008073.1 |
| 0.017503217 | 0.919458449 | 0.922 | 1 | 84964 | ALKBH6 |
| 0.017503217 | 0.919458449 | 0.942 | 1 | 643310 | ST13P18 |
| 0.017245818 | 0.92064774 | 0.925 | 1 | 2212 | FCGR2A |
| 0.017245818 | 0.92064774 | 0.938 | 1 | 50651 | SLC45A1 |
| 0.017245818 | 0.92064774 | 0.927 | 1 | 78992 | YIPF2 |
| 0.017245818 | 0.92064774 | 0.918 | 1 | 84515 | MCM8 |
| 0.017245818 | 0.92064774 | 0.909 | 1 | 171024 | SYNPO2 |
| 0.017245818 | 0.92064774 | 0.941 | 1 | 400684 | LOC400684 |
| 0.016988415 | 0.921837151 | 0.928 | 1 | 762 | CA4 |
| 0.016988415 | 0.921837151 | 0.937 | 1 | 7283 | TUBG1 |
| 0.016988415 | 0.921837151 | 0.919 | 1 | 23484 | LEPROTL1 |
| 0.016988415 | 0.921837151 | 0.933 | 1 | 81578 | COL21A1 |
| 0.016988415 | 0.921837151 | 0.93 | 1 | 91319 | DERL3 |
| 0.016988415 | 0.921837151 | 0.933 | 1 | 283208 | P4HA3 |
| 0.016988415 | 0.921837151 | 0.928 | 1 | 341883 | LRRC9 |
| 0.016988415 | 0.921837151 | 0.942 | 1 | 441228 | LOC441228 |
| 0.016731016 | 0.923027277 | 0.924 | 1 | 4738 | NEDD8 |
| 0.016731016 | 0.923027277 | 0.92 | 1 | 6233 | RPS27A |
| 0.016731016 | 0.923027277 | 0.926 | 1 | 25824 | PRDX5 |
| 0.016731016 | 0.923027277 | 0.932 | 1 | 29092 | LINC00339 |
| 0.016731016 | 0.923027277 | 0.917 | 1 | 55041 | PLEKHB2 |
| 0.016731016 | 0.923027277 | 0.932 | 1 | 57560 | IFT80 |
| 0.016731016 | 0.923027277 | 0.931 | 1 | 113746 | ODF3 |
| 0.016731016 | 0.923027277 | 0.931 | 1 | 115950 | ZNF653 |
| 0.016473617 | 0.924217045 | 0.945 | 1 | 27022 | FOXD3 |
| 0.016473617 | 0.924217045 | 0.935 | 1 | 28969 | BZW2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.049615882 | 8.02724E-06 | 56983 | KTELC1 |
| 0.04961421 | 8.0329E-06 | 64943 | NT5DC2 |
| 0.049611147 | 8.04323E-06 | 9824 | ARHGAP11A |
| 0.049603347 | 8.06968E-06 | 79632 | FAM184A |
| 0.049594801 | 8.09873E-06 | 81850 | KRTAP1-3 |
| 0.049506485 | 8.40494E-06 | 56623 | INPP5E |
| 0.049486335 | 8.47635E-06 | 90288 | C3orf25 |
| 0.049453273 | 8.59476E-06 | 23242 | COBL |
| 0.049435444 | 8.65928E-06 | 8574 | AKR7A2 |
| 0.049384367 | 8.84665E-06 | 9040 | UBE2M |
| 0.049355023 | 8.95603E-06 | 8834 | TMEM11 |
| 0.04933162 | 9.04421E-06 | 26033 | ATRNL1 |
| 0.049254447 | 9.34086E-06 | 10207 | INADL |
| 0.049221296 | 9.47116E-06 | 23431 | AP4E1 |
| 0.04920198 | 9.54784E-06 | 439916 | C12orf37 |
| 0.049187679 | 9.60501E-06 | 373863 | DND1 |
| 0.049130846 | 9.83545E-06 | 117177 | RAB3IP |
| 0.048979845 | 1.04737E-05 | 4015 | LOX |
| 0.048949011 | 1.06088E-05 | 79033 | ERI3 |
| 0.048945669 | 1.06235E-05 | 54870 | QRICH1 |
| 0.048900258 | 1.08258E-05 | 127435 | PODN |
| 0.048896916 | 1.08408E-05 | 5747 | PTK2 |
| 0.048873883 | 1.09449E-05 | 896 | CCND3 |
| 0.048843518 | 1.10837E-05 | 900 | CCNG1 |
| 0.04871954 | 1.16677E-05 | 128866 | CHMP4B |
| 0.048718985 | 1.16704E-05 | 978 | CDA |
| 0.048704959 | 1.17383E-05 | 4544 | MTNR1B |
| 0.048689451 | 1.18138E-05 | 93183 | PIGM |
| 0.048662055 | 1.19484E-05 | 2710 | GK |
| 0.048645806 | 1.20289E-05 | 6594 | SMARCA1 |
| 0.048644599 | 1.20349E-05 | 114049 | WBSCR22 |
| 0.048441034 | 1.30887E-05 | 51548 | SIRT6 |
| 0.048433233 | 1.31308E-05 | 26190 | FBXW2 |
| 0.048408717 | 1.32639E-05 | 91433 | RCCD1 |
| 0.048391353 | 1.33589E-05 | 3910 | LAMA4 |
| 0.048208963 | 1.43974E-05 | 7100 | TLR5 |
| 0.048178226 | 1.45798E-05 | 54069 | C21orf45 |
| 0.04813569 | 1.48359E-05 | 4948 | OCA2 |
| 0.048133835 | 1.48472E-05 | 2834 | PRLHR |
| 0.04800605 | 1.56431E-05 | 729873 | TBC1D3E |
| 0.047994256 | 1.57186E-05 | 5538 | PPT1 |
| 0.047925815 | 1.61634E-05 | 8440 | NCK2 |
| 0.047863316 | 1.65801E-05 | 2992 | GYG1 |
| 0.047849387 | 1.66744E-05 | 7584 | ZNF35 |
| 0.047836848 | 1.67597E-05 | 10043 | TOM1 |
| 0.047720954 | 1.75679E-05 | 5794 | PTPRH |
| 0.04771176 | 1.76336E-05 | 55805 | LRP2BP |
| 0.047650933 | 1.80741E-05 | 79645 | EFCAB1 |
| 0.047625486 | 1.82614E-05 | 342357 | ZKSCAN2 |
| 0.047462042 | 1.95097E-05 | 112464 | PRKCDBP |
| 0.047315687 | 2.0696E-05 | 2868 | GRK4 |
| 0.047306769 | 2.07705E-05 | 51699 | VPS29 |
| 0.047253836 | 2.12178E-05 | 686 | BTD |
| 0.047148898 | 2.21317E-05 | 23070 | FTSJD2 |
| 0.047044702 | 2.30762E-05 | 7274 | TTPA |
| 0.046992324 | 2.35653E-05 | 541465 | CT45A4 |
| 0.046971153 | 2.37658E-05 | 124842 | TMEM132E |
| 0.046959173 | 2.38799E-05 | 56892 | C8orf4 |
| 0.046953231 | 2.39368E-05 | 64147 | KIF9 |
| 0.046946451 | 2.40018E-05 | 1266 | CNN3 |
| 0.04691859 | 2.42707E-05 | 118812 | MORN4 |
| 0.046876058 | 2.46865E-05 | 613212 | CTXN3 |
| 0.04681031 | 2.53429E-05 | 820 | CAMP |
| 0.046758212 | 2.58747E-05 | 200150 | PLD5 |
| 0.046751246 | 2.59466E-05 | 401264 | FLJ37798 |
| 0.046672124 | 2.67768E-05 | 9016 | SLC25A14 |
| 0.046572201 | 2.78613E-05 | 92345 | NAF1 |
| 0.046554647 | 2.80562E-05 | 84179 | MFSD7 |
| 0.04654694 | 2.81421E-05 | 84669 | USP32 |
| 0.046538953 | 2.82314E-05 | 140462 | ASB9 |
| 0.046497535 | 2.86989E-05 | 10199 | MPHOSPH10 |
| 0.046478499 | 2.89163E-05 | 79074 | C2orf49 |
| 0.0464238 | 2.95495E-05 | 6121 | RPE65 |
| 0.046414327 | 2.96605E-05 | 10797 | MTHFD2 |
| 0.046372537 | 3.01549E-05 | 113612 | CYP2U1 |
| 0.046259243 | 3.15349E-05 | 127687 | C1orf122 |
| 0.046254784 | 3.15905E-05 | 126661 | RP11-291L19.1 |
| 0.046251163 | 3.16356E-05 | 81624 | DIAPH3 |
| 0.04625079 | 3.16403E-05 | 56243 | KIAA1217 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.016473617 | 0.924217045 | 0.937 | 1 | 51079 | NDUFA13 |
| 0.016473617 | 0.924217045 | 0.913 | 1 | 56941 | C3orf37 |
| 0.016473617 | 0.924217045 | 0.935 | 1 | 731157 | LOC731157 |
| 0.016216217 | 0.925406933 | 0.918 | 1 | 389 | RHOC |
| 0.016216217 | 0.925406933 | 0.932 | 1 | 7258 | TSPY1 |
| 0.016216217 | 0.925406933 | 0.922 | 1 | 8344 | HIST1H2BE |
| 0.016216217 | 0.925406933 | 0.94 | 1 | 9094 | UNC119 |
| 0.016216217 | 0.925406933 | 0.938 | 1 | 284434 | NWD1 |
| 0.016216217 | 0.925406933 | 0.929 | 1 | 339122 | RAB43 |
| 0.016216217 | 0.925406933 | 0.919 | 1 | 442444 | FAM47C |
| 0.016216217 | 0.925406933 | 0.935 | 1 | 100128190 | SLC9B1P1 |
| 0.016216217 | 0.925406933 | 0.929 | 1 | 100129726 | LOC100129726 |
| 0.015958816 | 0.926596999 | 0.932 | 1 | 5744 | PTHLH |
| 0.015958816 | 0.926596999 | 0.946 | 1 | 6477 | SIAH1 |
| 0.015958816 | 0.926596999 | 0.938 | 1 | 11335 | CBX3 |
| 0.015958816 | 0.926596999 | 0.932 | 1 | 50839 | TAS2R10 |
| 0.015958816 | 0.926596999 | 0.92 | 1 | 219541 | MED19 |
| 0.015958816 | 0.926596999 | 0.935 | 1 | 220429 | CTAGE10P |
| 0.015701415 | 0.927787781 | 0.935 | 1 | 9880 | ZBTB39 |
| 0.015701415 | 0.927787781 | 0.928 | 1 | 23462 | HEY1 |
| 0.015701415 | 0.927787781 | 0.93 | 1 | 26689 | AC005962.2 |
| 0.015701415 | 0.927787781 | 0.944 | 1 | 29104 | N6AMT1 |
| 0.015701415 | 0.927787781 | 0.923 | 1 | 66002 | CYP4F12 |
| 0.015701415 | 0.927787781 | 0.918 | 1 | 115939 | C16orf42 |
| 0.015701415 | 0.927787781 | 0.932 | 1 | 134553 | C5orf24 |
| 0.015701415 | 0.927787781 | 0.926 | 1 | 644511 | RPL13AP6 |
| 0.015444015 | 0.928978145 | 0.934 | 1 | 5324 | PLAG1 |
| 0.015444015 | 0.928978145 | 0.929 | 1 | 5723 | PSPH |
| 0.015444015 | 0.928978145 | 0.925 | 1 | 10257 | ABCC4 |
| 0.015444015 | 0.928978145 | 0.925 | 1 | 11251 | GPR44 |
| 0.015444015 | 0.928978145 | 0.923 | 1 | 51298 | THEG |
| 0.015444015 | 0.928978145 | 0.923 | 1 | 120787 | OR52W1 |
| 0.015444015 | 0.928978145 | 0.922 | 1 | 137872 | ADHFE1 |
| 0.015444015 | 0.928978145 | 0.939 | 1 | 147007 | TMEM199 |
| 0.015444015 | 0.928978145 | 0.927 | 1 | 728470 | LOC728470 |
| 0.015186615 | 0.930168748 | 0.938 | 1 | 8303 | SNN |
| 0.015186615 | 0.930168748 | 0.928 | 1 | 8720 | MBTPS1 |
| 0.015186615 | 0.930168748 | 0.935 | 1 | 10209 | EIF1 |
| 0.015186615 | 0.930168748 | 0.933 | 1 | 11317 | RBPJL |
| 0.014929214 | 0.93135941 | 0.938 | 1 | 5128 | PCTK2 |
| 0.014929214 | 0.93135941 | 0.939 | 1 | 23392 | KIAA0368 |
| 0.014929214 | 0.93135941 | 0.938 | 1 | 80724 | ACAD10 |
| 0.014929214 | 0.93135941 | 0.932 | 1 | 85004 | RERG |
| 0.014929214 | 0.93135941 | 0.936 | 1 | 92170 | MTG1 |
| 0.014929214 | 0.93135941 | 0.936 | 1 | 112970 | KTI12 |
| 0.014929214 | 0.93135941 | 0.94 | 1 | 728643 | RP11-314P12.3 |
| 0.014671815 | 0.932550788 | 0.948 | 1 | 4634 | MYL3 |
| 0.014671815 | 0.932550788 | 0.935 | 1 | 5298 | PI4KB |
| 0.014671815 | 0.932550788 | 0.932 | 1 | 9455 | HOMER2 |
| 0.014671815 | 0.932550788 | 0.944 | 1 | 9739 | SETD1A |
| 0.014671815 | 0.932550788 | 0.926 | 1 | 51495 | PTPLAD1 |
| 0.014671815 | 0.932550788 | 0.934 | 1 | 90423 | ATP6V1E2 |
| 0.014671815 | 0.932550788 | 0.931 | 1 | 91683 | SYT12 |
| 0.014671815 | 0.932550788 | 0.942 | 1 | 144110 | TMEM86A |
| 0.014414414 | 0.933741808 | 0.954 | 1 | 2353 | FOS |
| 0.014414414 | 0.933741808 | 0.938 | 1 | 124975 | GGT6 |
| 0.014414414 | 0.933741808 | 0.947 | 1 | 138804 | OR13C4 |
| 0.014157014 | 0.934932947 | 0.932 | 1 | 11138 | TBC1D8 |
| 0.014157014 | 0.934932947 | 0.929 | 1 | 27112 | FAM155B |
| 0.014157014 | 0.934932947 | 0.944 | 1 | 29126 | CD274 |
| 0.014157014 | 0.934932947 | 0.948 | 1 | 51147 | ING4 |
| 0.014157014 | 0.934932947 | 0.951 | 1 | 51265 | CDKL3 |
| 0.014157014 | 0.934932947 | 0.935 | 1 | 54345 | SOX18 |
| 0.014157014 | 0.934932947 | 0.936 | 1 | 80270 | HSD3B7 |
| 0.014157014 | 0.934932947 | 0.94 | 1 | 161823 | ADAL |
| 0.014157014 | 0.934932947 | 0.945 | 1 | 442721 | LMOD2 |
| 0.013899614 | 0.936124146 | 0.937 | 1 | 1602 | DACH1 |
| 0.013899614 | 0.936124146 | 0.937 | 1 | 6133 | RPL9 |
| 0.013899614 | 0.936124146 | 0.945 | 1 | 6702 | SPRR2C |
| 0.013899614 | 0.936124146 | 0.939 | 1 | 30844 | EHD4 |
| 0.013642213 | 0.937315583 | 0.928 | 1 | 5434 | POLR2E |
| 0.013642213 | 0.937315583 | 0.943 | 1 | 8862 | APLN |
| 0.013642213 | 0.937315583 | 0.957 | 1 | 9180 | OSMR |
| 0.013642213 | 0.937315583 | 0.951 | 1 | 9315 | C5orf13 |
| 0.013642213 | 0.937315583 | 0.934 | 1 | 23731 | C9orf5 |
| 0.013642213 | 0.937315583 | 0.94 | 1 | 140730 | RIMS4 |
| 0.013642213 | 0.937315583 | 0.95 | 1 | 146850 | PIK3R6 |
| 0.013384813 | 0.938507736 | 0.933 | 1 | 783 | CACNB2 |
| 0.013384813 | 0.938507736 | 0.943 | 1 | 2706 | GJB2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.046215318 | 3.20859E-05 | 9889 | ZBED4 |
| 0.046208724 | 3.21695E-05 | 196740 | C10orf72 |
| 0.046120036 | 3.33128E-05 | 339291 | LRRC30 |
| 0.046111584 | 3.34238E-05 | 291 | SLC25A4 |
| 0.046105549 | 3.35032E-05 | 80148 | PQLC1 |
| 0.046076573 | 3.38872E-05 | 201164 | PLD6 |
| 0.046066917 | 3.4016E-05 | 6271 | S100A1 |
| 0.046012033 | 3.47574E-05 | 10575 | CCT4 |
| 0.045914058 | 3.61191E-05 | 134218 | DNAJC21 |
| 0.04590895 | 3.61914E-05 | 50632 | CALY |
| 0.04585091 | 3.70234E-05 | 84548 | TMEM185A |
| 0.045816179 | 3.75298E-05 | 162073 | ITPRIPL2 |
| 0.045784511 | 3.79974E-05 | 221079 | ARL5B |
| 0.045704924 | 3.9197E-05 | 6195 | RPS6KA1 |
| 0.045692388 | 3.93893E-05 | 374928 | ZNF773 |
| 0.045684494 | 3.95107E-05 | 440461 | LOC440461 |
| 0.045621533 | 4.04924E-05 | 2250 | FGF5 |
| 0.045597572 | 4.08721E-05 | 80028 | FBXL18 |
| 0.045594692 | 4.09179E-05 | 7748 | ZNF195 |
| 0.045388717 | 4.43274E-05 | 497661 | C18orf32 |
| 0.045385186 | 4.43882E-05 | 126 | ADH1C |
| 0.04538101 | 4.446E-05 | 3359 | HTR3A |
| 0.045378409 | 4.45049E-05 | 134288 | TMEM174 |
| 0.045360856 | 4.48088E-05 | 9750 | FAM65B |
| 0.04533764 | 4.52136E-05 | 282966 | C10orf53 |
| 0.045324732 | 4.54402E-05 | 57407 | NMRAL1 |
| 0.045323152 | 4.5468E-05 | 4628 | MYH10 |
| 0.045307551 | 4.57435E-05 | 9943 | OXSR1 |
| 0.045304764 | 4.57929E-05 | 2692 | GHRHR |
| 0.045286007 | 4.61266E-05 | 112840 | WDR89 |
| 0.045273934 | 4.63426E-05 | 169981 | SPIN3 |
| 0.045233257 | 4.70773E-05 | 1983 | EIF5 |
| 0.045165095 | 4.83333E-05 | 4490 | MT1B |
| 0.045069166 | 5.01549E-05 | 286053 | NSMCE2 |
| 0.045067959 | 5.01782E-05 | 283150 | FOXR1 |
| 0.045053191 | 5.04646E-05 | 440017 | DUX4L15 |
| 0.045003694 | 5.14354E-05 | 27044 | SND1 |
| 0.044943515 | 5.26395E-05 | 283116 | AC084851.1 |
| 0.044933114 | 5.28503E-05 | 347148 | QRFP |
| 0.044874981 | 5.40434E-05 | 494141 | AC090099.4 |
| 0.044842664 | 5.47175E-05 | 11031 | RAB31 |
| 0.044821955 | 5.51539E-05 | 58489 | FAM108C1 |
| 0.044799201 | 5.5637E-05 | 55109 | AGGF1 |
| 0.04479716 | 5.56804E-05 | 89857 | KLHL6 |
| 0.044721104 | 5.73258E-05 | 341947 | COX8C |
| 0.044714604 | 5.74684E-05 | 79884 | MAP9 |
| 0.044689715 | 5.80181E-05 | 219445 | OR7E5P |
| 0.044673 | 5.839E-05 | 4496 | MT1H |
| 0.044647366 | 5.89647E-05 | 4184 | SMCP |
| 0.044515871 | 6.19981E-05 | 54756 | IL17RD |
| 0.044503704 | 6.22862E-05 | 7353 | UFD1L |
| 0.044480022 | 6.28504E-05 | 163033 | ZNF579 |
| 0.044474915 | 6.29727E-05 | 2125 | EVPL |
| 0.044453185 | 6.34957E-05 | 79646 | PANK3 |
| 0.044435818 | 6.39166E-05 | 3081 | HGD |
| 0.044411767 | 6.45039E-05 | 400043 | RP11-834C11.4 |
| 0.044394027 | 6.49403E-05 | 6774 | STAT3 |
| 0.044375457 | 6.54002E-05 | 54499 | TMCO1 |
| 0.044330228 | 6.65331E-05 | 6838 | SURF6 |
| 0.044299584 | 6.73112E-05 | 389400 | GFRAL |
| 0.044170778 | 7.0677E-05 | 644591 | PPIAL4G |
| 0.044141527 | 7.14632E-05 | 1087 | CEACAM7 |
| 0.044141248 | 7.14707E-05 | 64132 | XYLT2 |
| 0.044106979 | 7.24024E-05 | 100129272 | LOC100129272 |
| 0.043994054 | 7.55546E-05 | 26503 | SLC17A5 |
| 0.043935362 | 7.72436E-05 | 85464 | SSH2 |
| 0.04389859 | 7.83202E-05 | 81790 | RNF170 |
| 0.043858193 | 7.95189E-05 | 133746 | JMY |
| 0.043856613 | 7.95662E-05 | 1070 | CETN3 |
| 0.043774892 | 8.2046E-05 | 5594 | MAPK1 |
| 0.043672737 | 8.52488E-05 | 54676 | GTPBP2 |
| 0.043665774 | 8.54713E-05 | 387628 | FAM88A |
| 0.043650635 | 8.59569E-05 | 90488 | C12orf23 |
| 0.04365008 | 8.59749E-05 | 27344 | PCSK1N |
| 0.043616462 | 8.7063E-05 | 283008 | FAM22E |
| 0.043579686 | 8.82685E-05 | 284306 | ZNF547 |
| 0.043566965 | 8.86891E-05 | 202052 | DNAJC18 |
| 0.043494437 | 9.11234E-05 | 23569 | PADI4 |
| 0.043484129 | 9.14744E-05 | 125150 | ZSWIM7 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.013384813 | 0.938507736 | 0.937 | 1 | 53981 | CPSF2 |
| 0.013384813 | 0.938507736 | 0.931 | 1 | 83901 | KRTAP9-8 |
| 0.013384813 | 0.938507736 | 0.956 | 1 | 128954 | GAB4 |
| 0.013384813 | 0.938507736 | 0.944 | 1 | 267002 | PGBD2 |
| 0.013127413 | 0.939699411 | 0.947 | 1 | 348 | APOE |
| 0.013127413 | 0.939699411 | 0.943 | 1 | 2939 | GSTA2 |
| 0.013127413 | 0.939699411 | 0.948 | 1 | 4588 | MUC6 |
| 0.013127413 | 0.939699411 | 0.939 | 1 | 5954 | RCN1 |
| 0.013127413 | 0.939699411 | 0.932 | 1 | 6502 | SKP2 |
| 0.013127413 | 0.939699411 | 0.93 | 1 | 6880 | TAF9 |
| 0.013127413 | 0.939699411 | 0.954 | 1 | 29948 | OSGIN1 |
| 0.013127413 | 0.939699411 | 0.948 | 1 | 83446 | CCDC70 |
| 0.013127413 | 0.939699411 | 0.946 | 1 | 441601 | LOC441601 |
| 0.012870012 | 0.940891147 | 0.947 | 1 | 2678 | GGT1 |
| 0.012870012 | 0.940891147 | 0.946 | 1 | 3754 | KCNF1 |
| 0.012870012 | 0.940891147 | 0.954 | 1 | 27120 | DKKL1 |
| 0.012870012 | 0.940891147 | 0.952 | 1 | 55704 | CCDC88A |
| 0.012870012 | 0.940891147 | 0.955 | 1 | 57501 | KIAA1257 |
| 0.012870012 | 0.940891147 | 0.948 | 1 | 79726 | WDR59 |
| 0.012870012 | 0.940891147 | 0.939 | 1 | 80726 | KIAA1683 |
| 0.012870012 | 0.940891147 | 0.942 | 1 | 100131897 | AC008449.1 |
| 0.012612613 | 0.94208312 | 0.952 | 1 | 8724 | SNX3 |
| 0.012612613 | 0.94208312 | 0.944 | 1 | 10660 | LBX1 |
| 0.012612613 | 0.94208312 | 0.952 | 1 | 25833 | POU2F3 |
| 0.012612613 | 0.94208312 | 0.948 | 1 | 29801 | ZDHHC8 |
| 0.012612613 | 0.94208312 | 0.956 | 1 | 54463 | FAM134B |
| 0.012612613 | 0.94208312 | 0.955 | 1 | 55101 | ATP5SL |
| 0.012612613 | 0.94208312 | 0.949 | 1 | 128486 | FITM2 |
| 0.012612613 | 0.94208312 | 0.953 | 1 | 284836 | LINC00319 |
| 0.012355212 | 0.94327569 | 0.96 | 1 | 6850 | SYK |
| 0.012355212 | 0.94327569 | 0.941 | 1 | 10540 | DCTN2 |
| 0.012355212 | 0.94327569 | 0.949 | 1 | 23440 | OTP |
| 0.012355212 | 0.94327569 | 0.943 | 1 | 57710 | KIAA1614 |
| 0.012355212 | 0.94327569 | 0.939 | 1 | 150159 | NHEDC1 |
| 0.012355212 | 0.94327569 | 0.935 | 1 | 204010 | RPSAP52 |
| 0.012355212 | 0.94327569 | 0.951 | 1 | 391267 | C21orf81 |
| 0.012097812 | 0.944467962 | 0.943 | 1 | 81552 | VOPP1 |
| 0.012097812 | 0.944467962 | 0.954 | 1 | 81559 | TRIM11 |
| 0.012097812 | 0.944467962 | 0.937 | 1 | 84616 | KRTAP4-4 |
| 0.011840411 | 0.945660233 | 0.953 | 1 | 1471 | CST3 |
| 0.011840411 | 0.945660233 | 0.958 | 1 | 27302 | BMP10 |
| 0.011840411 | 0.945660233 | 0.938 | 1 | 84542 | KIAA1841 |
| 0.011583011 | 0.946852624 | 0.943 | 1 | 710 | SERPING1 |
| 0.011583011 | 0.946852624 | 0.945 | 1 | 11117 | EMILIN1 |
| 0.011583011 | 0.946852624 | 0.958 | 1 | 23211 | ZC3H4 |
| 0.011583011 | 0.946852624 | 0.948 | 1 | 54726 | OTUD4 |
| 0.011583011 | 0.946852624 | 0.939 | 1 | 80148 | PQLC1 |
| 0.011325611 | 0.948045731 | 0.935 | 1 | 5806 | PTX3 |
| 0.011325611 | 0.948045731 | 0.95 | 1 | 7789 | ZXDA |
| 0.011325611 | 0.948045731 | 0.944 | 1 | 80758 | PRR7 |
| 0.011325611 | 0.948045731 | 0.95 | 1 | 81689 | ISCA1 |
| 0.011325611 | 0.948045731 | 0.959 | 1 | 128826 | C20orf166 |
| 0.011325611 | 0.948045731 | 0.958 | 1 | 345222 | MSANTD1 |
| 0.011068211 | 0.94923842 | 0.955 | 1 | 1163 | CKS1B |
| 0.011068211 | 0.94923842 | 0.949 | 1 | 6844 | VAMP2 |
| 0.011068211 | 0.94923842 | 0.952 | 1 | 9812 | KIAA0141 |
| 0.010810811 | 0.950431168 | 0.954 | 1 | 166 | AES |
| 0.010810811 | 0.950431168 | 0.96 | 1 | 9636 | ISG15 |
| 0.010810811 | 0.950431168 | 0.954 | 1 | 26355 | FAM162A |
| 0.010810811 | 0.950431168 | 0.955 | 1 | 84302 | TMEM246 |
| 0.010810811 | 0.950431168 | 0.94 | 1 | 90990 | KIFC2 |
| 0.010810811 | 0.950431168 | 0.954 | 1 | 115704 | EVI5L |
| 0.010810811 | 0.950431168 | 0.957 | 1 | 145200 | LINC00239 |
| 0.010810811 | 0.950431168 | 0.969 | 1 | 284383 | OR2Z1 |
| 0.01055341 | 0.951624036 | 0.961 | 1 | 5708 | PSMD2 |
| 0.01055341 | 0.951624036 | 0.951 | 1 | 54751 | FBLIM1 |
| 0.01055341 | 0.951624036 | 0.968 | 1 | 57407 | NMRAL1 |
| 0.01055341 | 0.951624036 | 0.95 | 1 | 84983 | MGC14436 |
| 0.01055341 | 0.951624036 | 0.953 | 1 | 117178 | SSX2IP |
| 0.01055341 | 0.951624036 | 0.953 | 1 | 126075 | AC024575.3 |
| 0.01055341 | 0.951624036 | 0.947 | 1 | 100270746 | LOC100270746 |
| 0.01029601 | 0.952816963 | 0.951 | 1 | 5639 | PRRG2 |
| 0.01029601 | 0.952816963 | 0.96 | 1 | 10247 | HRSP12 |
| 0.01029601 | 0.952816963 | 0.961 | 1 | 10587 | TXNRD2 |
| 0.01029601 | 0.952816963 | 0.954 | 1 | 11228 | RASSF8 |
| 0.01029601 | 0.952816963 | 0.961 | 1 | 57486 | NLN |
| 0.01029601 | 0.952816963 | 0.964 | 1 | 285834 | HCG22 |
| 0.01029601 | 0.952816963 | 0.944 | 1 | 341019 | DCDC1 |
| 0.01029601 | 0.952816963 | 0.958 | 1 | 729830 | FAM160A1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.043482922 | 9.15156E-05 | 94005 | PIGS |
| 0.043461002 | 9.22667E-05 | 26578 | OSTF1 |
| 0.043419123 | 9.37181E-05 | 5062 | PAK2 |
| 0.043406397 | 9.41633E-05 | 10085 | EDIL3 |
| 0.043364052 | 9.56593E-05 | 55205 | ZNF532 |
| 0.043266822 | 9.91796E-05 | 129138 | ANKRD54 |
| 0.043263108 | 9.93165E-05 | 26057 | ANKRD17 |
| 0.043246299 | 9.9938E-05 | 7414 | VCL |
| 0.043211196 | 0.000101248 | 641977 | SEPTIN7P2 |
| 0.043195035 | 0.000101857 | 51647 | FAM96B |
| 0.04319058 | 0.000102025 | 3730 | KAL1 |
| 0.043161232 | 0.000103141 | 246126 | CYorf15B |
| 0.043096691 | 0.000105635 | 65005 | MRPL9 |
| 0.043068551 | 0.00010674 | 9683 | N4BP1 |
| 0.043057874 | 0.000107163 | 55890 | GPRC5C |
| 0.042987201 | 0.000109997 | 51439 | FAM8A1 |
| 0.042942163 | 0.00011184 | 6542 | SLC7A2 |
| 0.042888485 | 0.000114075 | 197342 | EME2 |
| 0.042811036 | 0.000117374 | 91894 | C11orf52 |
| 0.04281085 | 0.000117382 | 343505 | NBPF7 |
| 0.042781409 | 0.00011866 | 91151 | TIGD7 |
| 0.042695973 | 0.000122442 | 10011 | SRA1 |
| 0.042663377 | 0.000123914 | 64428 | NARFL |
| 0.042663191 | 0.000123923 | 3575 | IL7R |
| 0.042647313 | 0.000124646 | 8549 | LGR5 |
| 0.042622611 | 0.000125779 | 37 | ACADVL |
| 0.042608958 | 0.00012641 | 26658 | OR7C2 |
| 0.042607196 | 0.000126491 | 89883 | OR6W1P |
| 0.042544045 | 0.000129449 | 375307 | C2orf62 |
| 0.042498078 | 0.000131642 | 554202 | MIR31HG |
| 0.042463716 | 0.000133305 | 51160 | VPS28 |
| 0.042281605 | 0.000142451 | 11054 | OGFR |
| 0.042278357 | 0.000142619 | 136157 | SSU72P8 |
| 0.042247616 | 0.000144223 | 399959 | MIR100HG |
| 0.042235728 | 0.000144847 | 81605 | URM1 |
| 0.042224307 | 0.000145449 | 9413 | C9orf61 |
| 0.042201184 | 0.000146676 | 91860 | CALML4 |
| 0.042194217 | 0.000147047 | 763 | CA5A |
| 0.042169515 | 0.000148371 | 10228 | STX6 |
| 0.042124383 | 0.00015082 | 2070 | EYA4 |
| 0.042120021 | 0.000151058 | 4236 | MFAP1 |
| 0.042109154 | 0.000151654 | 9675 | KIAA0406 |
| 0.042033747 | 0.000155852 | 2837 | UTS2R |
| 0.042011552 | 0.000157108 | 85417 | CCNB3 |
| 0.041979883 | 0.000158917 | 284346 | ZNF575 |
| 0.041947287 | 0.000160799 | 145978 | NCRNA00052 |
| 0.041946918 | 0.000160821 | 9227 | LRAT |
| 0.04186631 | 0.000165567 | 147744 | TMEM190 |
| 0.041819967 | 0.000168354 | 915 | CD3D |
| 0.04178793 | 0.000170307 | 4481 | MSR1 |
| 0.041753199 | 0.000172449 | 2475 | MTOR |
| 0.041746698 | 0.000172852 | 4255 | MGMT |
| 0.041738339 | 0.000173373 | 432 | ASGR1 |
| 0.041736204 | 0.000173506 | 54971 | BANP |
| 0.04158093 | 0.000183449 | 392309 | OR13J1 |
| 0.041564494 | 0.000184532 | 89832 | CHRFAM7A |
| 0.041525584 | 0.000187121 | 51411 | BIN2 |
| 0.041462064 | 0.00019142 | 29781 | NCAPH2 |
| 0.041442748 | 0.000192746 | 29959 | NRBP1 |
| 0.04141758 | 0.000194486 | 5800 | PTPRO |
| 0.041373283 | 0.000197585 | 581 | BAX |
| 0.041370127 | 0.000197807 | 645027 | EVPLL |
| 0.041368548 | 0.000197918 | 440730 | TRIM67 |
| 0.041288033 | 0.000203679 | 1043 | CD52 |
| 0.041217361 | 0.000208865 | 4146 | MATN1 |
| 0.041178357 | 0.00021178 | 85009 | MGC16025 |
| 0.041155141 | 0.000213533 | 57574 | MARCHF4 |
| 0.041127745 | 0.000215619 | 283600 | C14orf68 |
| 0.041057259 | 0.000221075 | 131965 | METTL6 |
| 0.041034043 | 0.000222901 | 26053 | AUTS2 |
| 0.041022714 | 0.000223796 | 404281 | YY2 |
| 0.041019835 | 0.000224024 | 23596 | OPN3 |
| 0.040984176 | 0.000226869 | 124401 | ANKS3 |
| 0.040888708 | 0.000234652 | 374768 | SPEM1 |
| 0.040858619 | 0.000237156 | 9026 | HIP1R |
| 0.040857784 | 0.000237226 | 283491 | OR7E156P |
| 0.040835403 | 0.000239106 | 79077 | DCTPP1 |
| 0.040830109 | 0.000239552 | 6573 | SLC19A1 |
| 0.040769283 | 0.000244741 | 10671 | DCTN6 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.01003861 | 0.954010606 | 0.952 | 1 | 2806 | GOT2 |
| 0.01003861 | 0.954010606 | 0.958 | 1 | 3061 | HCRTR1 |
| 0.01003861 | 0.954010606 | 0.959 | 1 | 4841 | NONO |
| 0.01003861 | 0.954010606 | 0.962 | 1 | 55229 | PANK4 |
| 0.01003861 | 0.954010606 | 0.958 | 1 | 91947 | ARRDC4 |
| 0.01003861 | 0.954010606 | 0.96 | 1 | 135398 | C6ORF141 |
| 0.01003861 | 0.954010606 | 0.945 | 1 | 341405 | ANKRD33 |
| 0.01003861 | 0.954010606 | 0.954 | 1 | 390916 | NUDT19 |
| 0.009781209 | 0.955203831 | 0.965 | 1 | 47 | ACLY |
| 0.009781209 | 0.955203831 | 0.946 | 1 | 2671 | GFER |
| 0.009781209 | 0.955203831 | 0.96 | 1 | 3695 | ITGB7 |
| 0.009781209 | 0.955203831 | 0.949 | 1 | 5571 | PRKAG1 |
| 0.009781209 | 0.955203831 | 0.945 | 1 | 23184 | MESDC2 |
| 0.009781209 | 0.955203831 | 0.962 | 1 | 64839 | FBXL17 |
| 0.009781209 | 0.955203831 | 0.965 | 1 | 79979 | TRMT2B |
| 0.009781209 | 0.955203831 | 0.963 | 1 | 144165 | PRICKLE1 |
| 0.00952381 | 0.956397116 | 0.959 | 1 | 224 | ALDH3A2 |
| 0.00952381 | 0.956397116 | 0.964 | 1 | 6635 | SNRPE |
| 0.00952381 | 0.956397116 | 0.96 | 1 | 55844 | PPP2R2D |
| 0.00952381 | 0.956397116 | 0.96 | 1 | 56905 | C15orf39 |
| 0.00952381 | 0.956397116 | 0.952 | 1 | 79778 | MICALL2 |
| 0.00952381 | 0.956397116 | 0.961 | 1 | 100128108 | RP11-89K11.1 |
| 0.009266409 | 0.957590461 | 0.971 | 1 | 3501 | IGHG2 |
| 0.009266409 | 0.957590461 | 0.968 | 1 | 6916 | TBXAS1 |
| 0.009266409 | 0.957590461 | 0.966 | 1 | 9601 | PDIA4 |
| 0.009266409 | 0.957590461 | 0.965 | 1 | 56900 | TMEM167B |
| 0.009266409 | 0.957590461 | 0.96 | 1 | 79001 | VKORC1 |
| 0.009266409 | 0.957590461 | 0.978 | 1 | 124245 | ZC3H18 |
| 0.009266409 | 0.957590461 | 0.951 | 1 | 131118 | DNAJC19 |
| 0.009266409 | 0.957590461 | 0.949 | 1 | 388955 | LOC388955 |
| 0.009009009 | 0.958784461 | 0.963 | 1 | 9671 | WSCD2 |
| 0.009009009 | 0.958784461 | 0.952 | 1 | 10802 | SEC24A |
| 0.009009009 | 0.958784461 | 0.969 | 1 | 23475 | QPRT |
| 0.009009009 | 0.958784461 | 0.963 | 1 | 83723 | FAM57B |
| 0.009009009 | 0.958784461 | 0.97 | 1 | 341880 | SLC35F4 |
| 0.009009009 | 0.958784461 | 0.964 | 1 | 374977 | C1orf175 |
| 0.008751608 | 0.959978044 | 0.96 | 1 | 744 | MPPED2 |
| 0.008751608 | 0.959978044 | 0.96 | 1 | 6230 | RPS25 |
| 0.008751608 | 0.959978044 | 0.967 | 1 | 8263 | F8A1 |
| 0.008751608 | 0.959978044 | 0.966 | 1 | 84839 | RAX2 |
| 0.008751608 | 0.959978044 | 0.966 | 1 | 283375 | SLC39A5 |
| 0.008494208 | 0.961171627 | 0.957 | 1 | 2585 | GALK2 |
| 0.008494208 | 0.961171627 | 0.958 | 1 | 51129 | ANGPTL4 |
| 0.008494208 | 0.961171627 | 0.958 | 1 | 63917 | GALNT11 |
| 0.008494208 | 0.961171627 | 0.962 | 1 | 79801 | SHCBP1 |
| 0.008494208 | 0.961171627 | 0.967 | 1 | 85014 | TMEM141 |
| 0.008494208 | 0.961171627 | 0.955 | 1 | 163175 | LGI4 |
| 0.008494208 | 0.961171627 | 0.967 | 1 | 387338 | NSUN4 |
| 0.008494208 | 0.961171627 | 0.973 | 1 | 400935 | IL17REL |
| 0.008236809 | 0.962365389 | 0.965 | 1 | 4049 | LTA |
| 0.008236809 | 0.962365389 | 0.956 | 1 | 6939 | TCF15 |
| 0.008236809 | 0.962365389 | 0.971 | 1 | 9603 | NFE2L3 |
| 0.008236809 | 0.962365389 | 0.96 | 1 | 10475 | TRIM38 |
| 0.008236809 | 0.962365389 | 0.971 | 1 | 51399 | TRAPPC4 |
| 0.008236809 | 0.962365389 | 0.965 | 1 | 126364 | LRRC25 |
| 0.008236809 | 0.962365389 | 0.962 | 1 | 255919 | TMEM188 |
| 0.007979408 | 0.963559151 | 0.962 | 1 | 26095 | PTPN20B |
| 0.007979408 | 0.963559151 | 0.957 | 1 | 27255 | CNTN6 |
| 0.007979408 | 0.963559151 | 0.965 | 1 | 29066 | ZC3H7A |
| 0.007979408 | 0.963559151 | 0.963 | 1 | 54806 | AHI1 |
| 0.007979408 | 0.963559151 | 0.968 | 1 | 57665 | RDH14 |
| 0.007979408 | 0.963559151 | 0.966 | 1 | 64110 | MAGEF1 |
| 0.007979408 | 0.963559151 | 0.97 | 1 | 84970 | C1orf94 |
| 0.007979408 | 0.963559151 | 0.974 | 1 | 170082 | TCEANC |
| 0.007979408 | 0.963559151 | 0.969 | 1 | 100130890 | LOC100130890 |
| 0.007722008 | 0.964753568 | 0.968 | 1 | 22837 | COBLL1 |
| 0.007722008 | 0.964753568 | 0.97 | 1 | 22899 | ARHGEF15 |
| 0.007722008 | 0.964753568 | 0.97 | 1 | 55780 | C6orf70 |
| 0.007722008 | 0.964753568 | 0.965 | 1 | 79682 | MLF1IP |
| 0.007722008 | 0.964753568 | 0.971 | 1 | 85445 | CNTNAP4 |
| 0.007722008 | 0.964753568 | 0.964 | 1 | 284252 | KCTD1 |
| 0.007722008 | 0.964753568 | 0.961 | 1 | 347853 | TBX10 |
| 0.007464607 | 0.965947568 | 0.967 | 1 | 3054 | HCFC1 |
| 0.007464607 | 0.965947568 | 0.965 | 1 | 4113 | MAGEB2 |
| 0.007464607 | 0.965947568 | 0.962 | 1 | 5411 | PNN |
| 0.007464607 | 0.965947568 | 0.968 | 1 | 6168 | RPL37A |
| 0.007464607 | 0.965947568 | 0.971 | 1 | 51306 | FAM13B |
| 0.007464607 | 0.965947568 | 0.975 | 1 | 100131998 | RRN3P3 |
| 0.007207207 | 0.967141628 | 0.974 | 1 | 5977 | DPF2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.04070669 | 0.00025019 | 9353 | SLIT2 |
| 0.040663324 | 0.000254031 | 7709 | ZBTB17 |
| 0.040640108 | 0.000256111 | 6861 | SYT5 |
| 0.04060556 | 0.000259235 | 9528 | TMEM59 |
| 0.040599618 | 0.000259775 | 23588 | KLHDC2 |
| 0.040559683 | 0.000263438 | 2519 | FUCA2 |
| 0.040522724 | 0.00026687 | 160777 | CCDC60 |
| 0.040296689 | 0.000288793 | 84775 | ZNF607 |
| 0.040267158 | 0.000291779 | 83639 | TEX101 |
| 0.040224995 | 0.000296092 | 440570 | LOC440570 |
| 0.040219329 | 0.000296675 | 56605 | ERO1LB |
| 0.040207814 | 0.000297866 | 93107 | KCNG4 |
| 0.040134914 | 0.000305506 | 254028 | LOC254028 |
| 0.040069353 | 0.000312534 | 26277 | TINF2 |
| 0.040041216 | 0.000315597 | 55108 | BSDC1 |
| 0.039942034 | 0.000326617 | 285989 | ZNF789 |
| 0.039900895 | 0.000331292 | 56122 | PCDHB14 |
| 0.039893929 | 0.00033209 | 163049 | ZNF791 |
| 0.039877862 | 0.000333937 | 392196 | RP11-1236K1.8 |
| 0.039795585 | 0.000343549 | 81502 | HM13 |
| 0.03979196 | 0.000343978 | 2252 | FGF7 |
| 0.039684795 | 0.000356899 | 114134 | SLC2A13 |
| 0.039675694 | 0.000358017 | 28966 | SNX24 |
| 0.039633438 | 0.000363251 | 83986 | ITFG3 |
| 0.039544288 | 0.000374529 | 150726 | FBXO41 |
| 0.039509371 | 0.000379035 | 1610 | DAO |
| 0.039490055 | 0.000381549 | 56034 | PDGFC |
| 0.039441019 | 0.000388002 | 388796 | RP4-564F22.1 |
| 0.039423097 | 0.000390386 | 100129455 | LOC100129455 |
| 0.039375365 | 0.000396801 | 285834 | HCG22 |
| 0.039351869 | 0.000399995 | 5080 | PAX6 |
| 0.039344534 | 0.000400998 | 57763 | ANKRA2 |
| 0.039342396 | 0.00040129 | 84989 | LOC84989 |
| 0.039215542 | 0.000419007 | 6570 | SLC18A1 |
| 0.039213222 | 0.000419338 | 26531 | OR11A1 |
| 0.03919762 | 0.000421569 | 8894 | EIF2S2 |
| 0.039175797 | 0.000424708 | 7165 | TPD52L2 |
| 0.039092403 | 0.000436902 | 55505 | NOP10 |
| 0.039080795 | 0.000438626 | 100288911 | LOC100288911 |
| 0.039067701 | 0.000440577 | 27069 | GHITM |
| 0.03906092 | 0.000441591 | 90332 | EXOC3L2 |
| 0.039035011 | 0.000445484 | 84916 | CIRH1A |
| 0.03900845 | 0.000449509 | 55081 | IFT57 |
| 0.038973164 | 0.000454908 | 79857 | AC024940.3 |
| 0.038945116 | 0.000459243 | 374454 | KRT77 |
| 0.038941961 | 0.000459733 | 93659 | CGB5 |
| 0.038904626 | 0.000465569 | 60526 | C2orf43 |
| 0.038849466 | 0.000474317 | 5464 | PPA1 |
| 0.038804889 | 0.000481499 | 84067 | FAM160A2 |
| 0.038755856 | 0.000489515 | 90135 | BTBD6 |
| 0.038748518 | 0.000490726 | 83716 | CRISPLD2 |
| 0.038716573 | 0.000496028 | 84983 | MGC14436 |
| 0.038708773 | 0.000497331 | 91862 | MARVELD3 |
| 0.038585726 | 0.000518307 | 159296 | NKX2-3 |
| 0.03854505 | 0.000525419 | 85301 | COL27A1 |
| 0.038510505 | 0.000531532 | 25878 | MXRA5 |
| 0.038509391 | 0.00053173 | 114770 | PGLYRP2 |
| 0.038501959 | 0.000533055 | 125919 | ZNF543 |
| 0.03848571 | 0.00053596 | 1737 | DLAT |
| 0.038464628 | 0.000539753 | 2064 | ERBB2 |
| 0.038437698 | 0.000544633 | 330 | BIRC3 |
| 0.038427018 | 0.00054658 | 118460 | EXOSC6 |
| 0.038374361 | 0.000556273 | 64137 | ABCG4 |
| 0.038350496 | 0.00056072 | 84808 | C1orf170 |
| 0.038324494 | 0.0005656 | 10208 | USPL1 |
| 0.038236272 | 0.000582459 | 2280 | FKBP1A |
| 0.038208131 | 0.000587935 | 26952 | SMR3A |
| 0.038190953 | 0.000591301 | 126969 | SLC44A3 |
| 0.038187701 | 0.00059194 | 122664 | TPPP2 |
| 0.038166992 | 0.000596025 | 5890 | RAD51L1 |
| 0.038101893 | 0.00060904 | 54620 | FBXL19 |
| 0.038078398 | 0.000613802 | 25775 | C22orf24 |
| 0.038070597 | 0.000615391 | 11174 | ADAMTS6 |
| 0.037909105 | 0.00064915 | 8780 | RIOK3 |
| 0.037871122 | 0.000657337 | 90441 | ZNF622 |
| 0.037851155 | 0.000661679 | 56548 | CHST7 |
| 0.03783416 | 0.000665396 | 2907 | GRINA |
| 0.037815031 | 0.000669602 | 55831 | EMC3 |
| 0.037763953 | 0.000680956 | 9969 | MED13 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.007207207 | 0.967141628 | 0.957 | 1 | 56919 | DHX33 |
| 0.007207207 | 0.967141628 | 0.971 | 1 | 84541 | KBTBD8 |
| 0.006949807 | 0.968335688 | 0.976 | 1 | 4111 | MAGEA12 |
| 0.006949807 | 0.968335688 | 0.972 | 1 | 9491 | PSMF1 |
| 0.006949807 | 0.968335688 | 0.98 | 1 | 64236 | PDLIM2 |
| 0.006949807 | 0.968335688 | 0.967 | 1 | 84920 | ALG10 |
| 0.006949807 | 0.968335688 | 0.967 | 1 | 158055 | C9orf163 |
| 0.006949807 | 0.968335688 | 0.964 | 1 | 283726 | FAM154B |
| 0.006949807 | 0.968335688 | 0.964 | 1 | 346525 | OR2A12 |
| 0.006949807 | 0.968335688 | 0.971 | 1 | 386674 | KRTAP10-6 |
| 0.006692407 | 0.969530404 | 0.962 | 1 | 533 | ATP6V0B |
| 0.006692407 | 0.969530404 | 0.969 | 1 | 1964 | EIF1AX |
| 0.006692407 | 0.969530404 | 0.965 | 1 | 5530 | PPP3CA |
| 0.006692407 | 0.969530404 | 0.971 | 1 | 8408 | ULK1 |
| 0.006692407 | 0.969530404 | 0.968 | 1 | 10654 | PMVK |
| 0.006692407 | 0.969530404 | 0.966 | 1 | 27090 | ST6GALNAC4 |
| 0.006692407 | 0.969530404 | 0.972 | 1 | 50854 | C6orf48 |
| 0.006692407 | 0.969530404 | 0.967 | 1 | 51738 | GHRL |
| 0.006692407 | 0.969530404 | 0.971 | 1 | 144124 | OR10A5 |
| 0.006692407 | 0.969530404 | 0.972 | 1 | 201158 | FAM18B2 |
| 0.006692407 | 0.969530404 | 0.969 | 1 | 222161 | DKFZP586I1420 |
| 0.006692407 | 0.969530404 | 0.969 | 1 | 400027 | LOC400027 |
| 0.006692407 | 0.969530404 | 0.965 | 1 | 431705 | ASTL |
| 0.006435006 | 0.970724702 | 0.983 | 1 | 4935 | GPR143 |
| 0.006435006 | 0.970724702 | 0.963 | 1 | 6193 | RPS5 |
| 0.006435006 | 0.970724702 | 0.969 | 1 | 9287 | TAAR2 |
| 0.006435006 | 0.970724702 | 0.978 | 1 | 23316 | CUX2 |
| 0.006435006 | 0.970724702 | 0.972 | 1 | 57092 | PCNP |
| 0.006435006 | 0.970724702 | 0.977 | 1 | 387509 | GPR153 |
| 0.006177606 | 0.971918941 | 0.975 | 1 | 3910 | LAMA4 |
| 0.006177606 | 0.971918941 | 0.965 | 1 | 23492 | CBX7 |
| 0.006177606 | 0.971918941 | 0.976 | 1 | 54704 | PDP1 |
| 0.006177606 | 0.971918941 | 0.966 | 1 | 151246 | SGOL2 |
| 0.005920206 | 0.973113298 | 0.979 | 1 | 3305 | HSPA1L |
| 0.005920206 | 0.973113298 | 0.968 | 1 | 5261 | PHKG2 |
| 0.005920206 | 0.973113298 | 0.979 | 1 | 9211 | LGI1 |
| 0.005920206 | 0.973113298 | 0.977 | 1 | 116442 | RAB39B |
| 0.005920206 | 0.973113298 | 0.979 | 1 | 399473 | SPRED3 |
| 0.005920206 | 0.973113298 | 0.976 | 1 | 641649 | TMEM91 |
| 0.005920206 | 0.973113298 | 0.97 | 1 | 100130746 | LOC100130746 |
| 0.005662805 | 0.974308312 | 0.982 | 1 | 1760 | DMPK |
| 0.005662805 | 0.974308312 | 0.966 | 1 | 4594 | MUT |
| 0.005662805 | 0.974308312 | 0.968 | 1 | 6777 | STAT5B |
| 0.005662805 | 0.974308312 | 0.982 | 1 | 8292 | COLQ |
| 0.005662805 | 0.974308312 | 0.981 | 1 | 10023 | FRAT1 |
| 0.005662805 | 0.974308312 | 0.971 | 1 | 23596 | OPN3 |
| 0.005662805 | 0.974308312 | 0.977 | 1 | 55614 | KIF16B |
| 0.005662805 | 0.974308312 | 0.977 | 1 | 59284 | CACNG7 |
| 0.005662805 | 0.974308312 | 0.974 | 1 | 139324 | HDX |
| 0.005662805 | 0.974308312 | 0.976 | 1 | 353142 | LCE3A |
| 0.005662805 | 0.974308312 | 0.974 | 1 | 100130274 | CCDC166 |
| 0.005405406 | 0.975502789 | 0.985 | 1 | 1519 | CTSO |
| 0.005405406 | 0.975502789 | 0.972 | 1 | 5148 | PDE6G |
| 0.005405406 | 0.975502789 | 0.975 | 1 | 7092 | TLL1 |
| 0.005405406 | 0.975502789 | 0.979 | 1 | 23240 | KIAA0922 |
| 0.005405406 | 0.975502789 | 0.971 | 1 | 64112 | MOAP1 |
| 0.005405406 | 0.975502789 | 0.974 | 1 | 79784 | MYH14 |
| 0.005405406 | 0.975502789 | 0.978 | 1 | 147948 | ZNF582 |
| 0.005148005 | 0.976697326 | 0.979 | 1 | 6349 | CCL3L1 |
| 0.005148005 | 0.976697326 | 0.975 | 1 | 64067 | NPAS3 |
| 0.005148005 | 0.976697326 | 0.976 | 1 | 200316 | APOBEC3F |
| 0.005148005 | 0.976697326 | 0.985 | 1 | 344967 | AC098591.2 |
| 0.005148005 | 0.976697326 | 0.981 | 1 | 348793 | WDR53 |
| 0.004890604 | 0.977891862 | 0.98 | 1 | 2046 | EPHA8 |
| 0.004890604 | 0.977891862 | 0.978 | 1 | 11232 | POLG2 |
| 0.004890604 | 0.977891862 | 0.984 | 1 | 55334 | SLC39A9 |
| 0.004890604 | 0.977891862 | 0.982 | 1 | 391190 | OR2L8 |
| 0.004890604 | 0.977891862 | 0.98 | 1 | 643421 | LOC643421 |
| 0.004633205 | 0.979086518 | 0.983 | 1 | 9825 | SPATA2 |
| 0.004633205 | 0.979086518 | 0.985 | 1 | 84300 | MNF1 |
| 0.004633205 | 0.979086518 | 0.975 | 1 | 145482 | PTGR2 |
| 0.004633205 | 0.979086518 | 0.979 | 1 | 163154 | PRR22 |
| 0.004633205 | 0.979086518 | 0.98 | 1 | 343472 | BARHL2 |
| 0.004633205 | 0.979086518 | 0.979 | 1 | 399815 | LOC399815 |
| 0.004633205 | 0.979086518 | 0.976 | 1 | 729992 | ST13P1 |
| 0.004633205 | 0.979086518 | 0.982 | 1 | 100131138 | AC002351.1 |
| 0.004375804 | 0.98028177 | 0.98 | 1 | 53944 | CSNK1G1 |
| 0.004375804 | 0.98028177 | 0.972 | 1 | 55700 | MAP7D1 |
| 0.004375804 | 0.98028177 | 0.986 | 1 | 145508 | C14orf145 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.037747145 | 0.000684731 | 160287 | LDHAL6A |
| 0.037683811 | 0.000699131 | 23060 | ZNF609 |
| 0.037650656 | 0.000706782 | 221322 | C6orf170 |
| 0.037537456 | 0.000733491 | 6331 | SCN5A |
| 0.037500959 | 0.000742301 | 10329 | TMEM5 |
| 0.037474211 | 0.000748819 | 11183 | MAP4K5 |
| 0.037472632 | 0.000749205 | 390072 | OR52N4 |
| 0.037414405 | 0.000763587 | 57128 | LYRM4 |
| 0.037359338 | 0.000777423 | 2569 | GABRR1 |
| 0.037345685 | 0.000780889 | 284365 | AC010325.3 |
| 0.037341323 | 0.000782 | 26272 | FBXO4 |
| 0.037334263 | 0.0007838 | 92359 | CRB3 |
| 0.037296839 | 0.000793408 | 10196 | PRMT3 |
| 0.037269998 | 0.000800366 | 79754 | ASB13 |
| 0.037250035 | 0.000805578 | 11132 | CAPN10 |
| 0.037241768 | 0.000807746 | 646892 | SH2D7 |
| 0.037221432 | 0.0008131 | 9920 | KBTBD11 |
| 0.037165988 | 0.000827867 | 151313 | FAHD2B |
| 0.037154939 | 0.000830841 | 9331 | B4GALT6 |
| 0.037106927 | 0.000843871 | 79725 | THAP9 |
| 0.037031241 | 0.0008648 | 843 | CASP10 |
| 0.036995117 | 0.000874958 | 51250 | C6orf203 |
| 0.036965493 | 0.00088337 | 9265 | CYTH3 |
| 0.036867611 | 0.000911702 | 144455 | E2F7 |
| 0.036866032 | 0.000912165 | 338755 | OR2AG2 |
| 0.036860276 | 0.000913859 | 56997 | CABC1 |
| 0.036841054 | 0.000919532 | 9489 | PGS1 |
| 0.036797125 | 0.000932623 | 6612 | SUMO3 |
| 0.036777068 | 0.000938656 | 6608 | SMO |
| 0.036743727 | 0.000948766 | 2911 | GRM1 |
| 0.036651976 | 0.000977111 | 6832 | SUPV3L1 |
| 0.036622725 | 0.000986312 | 9910 | RABGAP1L |
| 0.036618639 | 0.000987604 | 10644 | IGF2BP2 |
| 0.036586042 | 0.000997962 | 83461 | CDCA3 |
| 0.036546018 | 0.00101082 | 345778 | MTX3 |
| 0.036501907 | 0.001025169 | 2104 | ESRRG |
| 0.036467731 | 0.001036414 | 83854 | ANGPTL6 |
| 0.036466524 | 0.001036813 | 9406 | ZRANB2 |
| 0.036460765 | 0.001038721 | 354 | KLK3 |
| 0.036453709 | 0.00104106 | 84162 | KIAA1109 |
| 0.036453336 | 0.001041185 | 23533 | PIK3R5 |
| 0.036338925 | 0.001079832 | 255394 | TCP11L2 |
| 0.036243089 | 0.00111322 | 6749 | SSRP1 |
| 0.036211047 | 0.001124595 | 57584 | ARHGAP21 |
| 0.036204178 | 0.001127046 | 283143 | LOC283143 |
| 0.036147993 | 0.001147293 | 3363 | HTR7 |
| 0.036111776 | 0.001160521 | 84124 | ZNF394 |
| 0.036110569 | 0.001160964 | 10410 | IFITM3 |
| 0.036058005 | 0.001180419 | 219743 | TYSND1 |
| 0.036044817 | 0.001185348 | 3937 | LCP2 |
| 0.036040362 | 0.001187016 | 5896 | RAG1 |
| 0.036015846 | 0.001196241 | 65993 | MRPS34 |
| 0.036005352 | 0.001200209 | 54535 | CCHCR1 |
| 0.035982691 | 0.001208822 | 57711 | ZNF529 |
| 0.035956781 | 0.001218737 | 55672 | NBPF1 |
| 0.035942759 | 0.001224134 | 51043 | ZBTB7B |
| 0.035864104 | 0.001254824 | 6932 | TCF7 |
| 0.035837635 | 0.00126531 | 54467 | ANKIB1 |
| 0.035829183 | 0.001268675 | 23385 | NCSTN |
| 0.035807826 | 0.001277215 | 10730 | YME1L1 |
| 0.035677999 | 0.001330286 | 283208 | P4HA3 |
| 0.035575196 | 0.001373744 | 124808 | CCDC43 |
| 0.035574082 | 0.001374224 | 284615 | ANKRD34A |
| 0.035478152 | 0.001415967 | 30000 | TNPO2 |
| 0.035465427 | 0.00142159 | 90326 | THAP3 |
| 0.035455771 | 0.001425872 | 7403 | KDM6A |
| 0.03534656 | 0.001475132 | 79171 | RBM42 |
| 0.035228621 | 0.001530084 | 267 | AMFR |
| 0.035218496 | 0.001534889 | 54581 | SCAND2 |
| 0.035183951 | 0.001551387 | 347862 | PDDC1 |
| 0.03512888 | 0.001578024 | 3166 | HMX1 |
| 0.035118852 | 0.001582919 | 54487 | DGCR8 |
| 0.035107151 | 0.00158865 | 9117 | SEC22C |
| 0.035107151 | 0.00158865 | 259292 | TAS2R46 |
| 0.034995433 | 0.001644326 | 89932 | PAPLN |
| 0.034968689 | 0.001657917 | 144108 | SPTY2D1 |
| 0.03492764 | 0.001678982 | 7580 | ZNF32 |
| 0.034909163 | 0.001688541 | 94241 | TP53INP1 |
| 0.034858271 | 0.001715135 | 728441 | GGT2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.004375804 | 0.98028177 | 0.984 | 1 | 145873 | MESP2 |
| 0.004375804 | 0.98028177 | 0.984 | 1 | 146880 | AC132812.1 |
| 0.004375804 | 0.98028177 | 0.987 | 1 | 153090 | DAB2IP |
| 0.004375804 | 0.98028177 | 0.977 | 1 | 283635 | FAM177A1 |
| 0.004118404 | 0.981476426 | 0.979 | 1 | 6748 | SSR4 |
| 0.004118404 | 0.981476426 | 0.985 | 1 | 55719 | FAM178A |
| 0.004118404 | 0.981476426 | 0.987 | 1 | 84905 | ZNF341 |
| 0.003861004 | 0.982671201 | 0.978 | 1 | 5540 | PPYR1 |
| 0.003861004 | 0.982671201 | 0.981 | 1 | 7850 | IL1R2 |
| 0.003861004 | 0.982671201 | 0.986 | 1 | 64180 | DPEP3 |
| 0.003861004 | 0.982671201 | 0.983 | 1 | 138199 | C9orf41 |
| 0.003603603 | 0.983865976 | 0.983 | 1 | 9776 | ATG13 |
| 0.003603603 | 0.983865976 | 0.987 | 1 | 387885 | CCDC42B |
| 0.003603603 | 0.983865976 | 0.993 | 1 | 389816 | LRRC26 |
| 0.003603603 | 0.983865976 | 0.985 | 1 | 574407 | C1orf145 |
| 0.003346203 | 0.985061347 | 0.981 | 1 | 537 | ATP6AP1 |
| 0.003346203 | 0.985061347 | 0.981 | 1 | 2834 | PRLHR |
| 0.003346203 | 0.985061347 | 0.987 | 1 | 9411 | ARHGAP29 |
| 0.003346203 | 0.985061347 | 0.983 | 1 | 22843 | PPM1E |
| 0.003346203 | 0.985061347 | 0.98 | 1 | 83881 | MIXL1 |
| 0.003346203 | 0.985061347 | 0.982 | 1 | 728637 | LOC728637 |
| 0.003088803 | 0.986256242 | 0.987 | 1 | 3014 | H2AFX |
| 0.003088803 | 0.986256242 | 0.982 | 1 | 23178 | PASK |
| 0.003088803 | 0.986256242 | 0.98 | 1 | 219986 | OR4D11 |
| 0.003088803 | 0.986256242 | 0.988 | 1 | 729196 | UNC93B5 |
| 0.002831403 | 0.987451136 | 0.993 | 1 | 473 | RERE |
| 0.002831403 | 0.987451136 | 0.984 | 1 | 2307 | FOXS1 |
| 0.002831403 | 0.987451136 | 0.986 | 1 | 2330 | FMO5 |
| 0.002831403 | 0.987451136 | 0.989 | 1 | 7479 | WNT8B |
| 0.002831403 | 0.987451136 | 0.99 | 1 | 8898 | MTMR2 |
| 0.002831403 | 0.987451136 | 0.984 | 1 | 9308 | CD83 |
| 0.002831403 | 0.987451136 | 0.984 | 1 | 57592 | ZNF687 |
| 0.002831403 | 0.987451136 | 0.992 | 1 | 57657 | HCN3 |
| 0.002831403 | 0.987451136 | 0.984 | 1 | 80139 | ZNF703 |
| 0.002831403 | 0.987451136 | 0.989 | 1 | 390927 | ZNF793 |
| 0.002831403 | 0.987451136 | 0.986 | 1 | 441554 | DUSPP |
| 0.002574003 | 0.98864603 | 0.992 | 1 | 1161 | ERCC8 |
| 0.002574003 | 0.98864603 | 0.987 | 1 | 5071 | PARK2 |
| 0.002574003 | 0.98864603 | 0.979 | 1 | 5520 | PPP2R2A |
| 0.002574003 | 0.98864603 | 0.989 | 1 | 8708 | B3GALT1 |
| 0.002574003 | 0.98864603 | 0.991 | 1 | 26031 | OSBPL3 |
| 0.002574003 | 0.98864603 | 0.995 | 1 | 83732 | RIOK1 |
| 0.002574003 | 0.98864603 | 0.984 | 1 | 348013 | FAM70B |
| 0.002574003 | 0.98864603 | 0.992 | 1 | 642587 | MIR205HG |
| 0.002574003 | 0.98864603 | 0.992 | 1 | 100131816 | RP1-215K18.2 |
| 0.002316602 | 0.989841521 | 0.992 | 1 | 5333 | PLCD1 |
| 0.002316602 | 0.989841521 | 0.992 | 1 | 6652 | SORD |
| 0.002316602 | 0.989841521 | 0.998 | 1 | 11201 | POLI |
| 0.002316602 | 0.989841521 | 0.992 | 1 | 84519 | ACRBP |
| 0.002316602 | 0.989841521 | 0.982 | 1 | 284338 | PRR19 |
| 0.002316602 | 0.989841521 | 0.992 | 1 | 442582 | STAG3L2 |
| 0.002059202 | 0.991036534 | 0.993 | 1 | 1991 | ELANE |
| 0.002059202 | 0.991036534 | 0.989 | 1 | 7112 | TMPO |
| 0.002059202 | 0.991036534 | 0.988 | 1 | 118932 | ANKRD22 |
| 0.002059202 | 0.991036534 | 0.993 | 1 | 138474 | TAF1L |
| 0.002059202 | 0.991036534 | 0.994 | 1 | 257101 | ZNF683 |
| 0.001801802 | 0.992231488 | 0.991 | 1 | 613 | BCR |
| 0.001801802 | 0.992231488 | 0.992 | 1 | 4694 | NDUFA1 |
| 0.001801802 | 0.992231488 | 0.991 | 1 | 8045 | RASSF7 |
| 0.001801802 | 0.992231488 | 0.994 | 1 | 94234 | FOXQ1 |
| 0.001801802 | 0.992231488 | 0.991 | 1 | 120526 | DNAJC24 |
| 0.001801802 | 0.992231488 | 0.988 | 1 | 148430 | LOC148430 |
| 0.001801802 | 0.992231488 | 0.991 | 1 | 253650 | ANKRD18A |
| 0.001801802 | 0.992231488 | 0.995 | 1 | 100289026 | LOC100289026 |
| 0.001544402 | 0.993426502 | 0.994 | 1 | 5166 | PDK4 |
| 0.001544402 | 0.993426502 | 0.987 | 1 | 57720 | GPR107 |
| 0.001544402 | 0.993426502 | 0.995 | 1 | 64951 | MRPS24 |
| 0.001544402 | 0.993426502 | 0.993 | 1 | 85352 | KIAA1644 |
| 0.001544402 | 0.993426502 | 0.994 | 1 | 120776 | OR2D2 |
| 0.001544402 | 0.993426502 | 0.99 | 1 | 128989 | C22orf25 |
| 0.001544402 | 0.993426502 | 0.996 | 1 | 137994 | LETM2 |
| 0.001287001 | 0.994621456 | 0.989 | 1 | 3750 | KCND1 |
| 0.001287001 | 0.994621456 | 0.996 | 1 | 6320 | CLEC11A |
| 0.001287001 | 0.994621456 | 0.995 | 1 | 22879 | MON1B |
| 0.001287001 | 0.994621456 | 0.997 | 1 | 63933 | CCDC90A |
| 0.001287001 | 0.994621456 | 0.992 | 1 | 85441 | RP4-697K14.1 |
| 0.001287001 | 0.994621456 | 0.991 | 1 | 286053 | NSMCE2 |
| 0.001029601 | 0.995817065 | 0.991 | 1 | 1389 | CREBL2 |
| 0.001029601 | 0.995817065 | 0.997 | 1 | 22845 | DOLK |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.034852233 | 0.001718316 | 170850 | KCNG3 |
| 0.034845546 | 0.001721846 | 91687 | CENPL |
| 0.034577817 | 0.001868727 | 84306 | PDCD2L |
| 0.034535188 | 0.001893149 | 10670 | RRAGA |
| 0.034489777 | 0.001919486 | 79724 | ZNF768 |
| 0.034471761 | 0.001930028 | 10519 | CIB1 |
| 0.03446006 | 0.001936902 | 283450 | C12orf51 |
| 0.034437403 | 0.001950281 | 8443 | GNPAT |
| 0.03432652 | 0.002016976 | 79036 | C19orf50 |
| 0.034312867 | 0.002025332 | 51115 | FAM82B |
| 0.034275442 | 0.002048399 | 8312 | AXIN1 |
| 0.03424396 | 0.002067989 | 79022 | TMEM106C |
| 0.034228083 | 0.002077932 | 284739 | LINC00176 |
| 0.034207094 | 0.002091147 | 347733 | TUBB2B |
| 0.034197066 | 0.002097487 | 10586 | MAB21L2 |
| 0.034153696 | 0.002125112 | 6911 | TBX6 |
| 0.034140788 | 0.002133399 | 64599 | GIGYF1 |
| 0.034109958 | 0.002153311 | 9659 | PDE4DIP |
| 0.034101039 | 0.002159103 | 255275 | MYADML2 |
| 0.034075409 | 0.002175827 | 1973 | EIF4A1 |
| 0.034050338 | 0.002192299 | 55036 | CCDC40 |
| 0.033996474 | 0.00222808 | 93129 | ORAI3 |
| 0.033961929 | 0.002251306 | 165918 | RNF168 |
| 0.033731062 | 0.002412322 | 26019 | UPF2 |
| 0.033721868 | 0.002418947 | 115548 | FCHO2 |
| 0.033700418 | 0.002434468 | 55997 | CFC1 |
| 0.033676736 | 0.002451712 | 8328 | GFI1B |
| 0.033637453 | 0.002480556 | 388815 | C21orf34 |
| 0.033625845 | 0.002489143 | 54494 | C11orf71 |
| 0.03361563 | 0.002496719 | 284186 | TMEM105 |
| 0.033607457 | 0.002502794 | 85019 | C18orf45 |
| 0.033600863 | 0.002507707 | 348110 | C15orf38 |
| 0.033575978 | 0.002526326 | 55540 | IL17RB |
| 0.033532515 | 0.00255915 | 79004 | CUEDC2 |
| 0.033509579 | 0.002576628 | 203076 | C8orf74 |
| 0.033360157 | 0.002693192 | 51234 | TMEM85 |
| 0.033323288 | 0.002722682 | 84057 | MND1 |
| 0.033299699 | 0.002741703 | 2014 | EMP3 |
| 0.03329413 | 0.002746215 | 139431 | FTH1P14 |
| 0.033263762 | 0.002770921 | 10946 | SF3A3 |
| 0.033236086 | 0.002793611 | 80726 | KIAA1683 |
| 0.033195041 | 0.002827582 | 8161 | COIL |
| 0.033188354 | 0.00283315 | 84131 | CEP78 |
| 0.033148516 | 0.002866541 | 51227 | PIGP |
| 0.033137556 | 0.002875787 | 3960 | LGALS4 |
| 0.033130035 | 0.002882152 | 94059 | LENG9 |
| 0.033075802 | 0.002928409 | 10944 | C11orf58 |
| 0.033068929 | 0.002934321 | 353274 | ZNF445 |
| 0.033061683 | 0.002940566 | 521 | ATP5I |
| 0.033061035 | 0.002941123 | 1504 | CTRB1 |
| 0.033047382 | 0.00295292 | 338382 | RAB7B |
| 0.033001322 | 0.002993045 | 64081 | PBLD |
| 0.032909386 | 0.003074619 | 85285 | KRTAP4-1 |
| 0.032881338 | 0.003099909 | 10273 | STUB1 |
| 0.032875858 | 0.003104871 | 10036 | CHAF1A |
| 0.032743338 | 0.00322711 | 8476 | CDC42BPA |
| 0.032659482 | 0.003306712 | 136288 | C7orf57 |
| 0.032620572 | 0.003344253 | 9397 | NMT2 |
| 0.032568846 | 0.003394757 | 10250 | SRRM1 |
| 0.03249418 | 0.003468883 | 9358 | ITGBL1 |
| 0.032489166 | 0.003473915 | 112802 | KRT71 |
| 0.032429546 | 0.003534237 | 4735 | SEPTIN2 |
| 0.032331388 | 0.003635633 | 11184 | MAP4K1 |
| 0.032322101 | 0.003645362 | 146713 | AC021534.2 |
| 0.032286253 | 0.003683138 | 83903 | GSG2 |
| 0.032240193 | 0.003732193 | 23384 | CYTSA |
| 0.032238986 | 0.003733491 | 7786 | MAP3K12 |
| 0.032062449 | 0.003927137 | 59338 | PLEKHA1 |
| 0.032054923 | 0.003935587 | 147808 | ZNF784 |
| 0.032045916 | 0.003945728 | 642513 | LOC642513 |
| 0.032024372 | 0.003970076 | 10239 | AP3S2 |
| 0.032014064 | 0.003981777 | 26266 | SLC13A4 |
| 0.032005798 | 0.003991181 | 22803 | XRN2 |
| 0.031842634 | 0.004180981 | 84268 | RPAIN |
| 0.031838175 | 0.004186281 | 10475 | TRIM38 |
| 0.03177122 | 0.004266601 | 55000 | TUG1 |
| 0.031755246 | 0.004285968 | 225 | ABCD2 |
| 0.031752553 | 0.004289239 | 63895 | FAM38B |
| 0.031739179 | 0.004305527 | 1232 | CCR3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.001029601 | 0.995817065 | 0.999 | 1 | 23327 | NEDD4L |
| 0.001029601 | 0.995817065 | 0.996 | 1 | 54734 | RAB39 |
| 0.001029601 | 0.995817065 | 0.994 | 1 | 57643 | ZSWIM5 |
| 0.001029601 | 0.995817065 | 0.994 | 1 | 165140 | OXER1 |
| 0.001029601 | 0.995817065 | 0.988 | 1 | 767811 | H2BFXP |
| 0.000772201 | 0.997012079 | 0.998 | 1 | 5002 | SLC22A18 |
| 0.000772201 | 0.997012079 | 0.997 | 1 | 440585 | FAM183A |
| 0.000514801 | 0.998207152 | 0.999 | 1 | 7166 | TPH1 |
| 0.000514801 | 0.998207152 | 0.997 | 1 | 27242 | TNFRSF21 |
| 0.000514801 | 0.998207152 | 0.997 | 1 | 51164 | DCTN4 |
| 0.000514801 | 0.998207152 | 0.997 | 1 | 51690 | LSM7 |
| 0.000514801 | 0.998207152 | 1 | 1 | 57717 | PCDHB16 |
| 0.000514801 | 0.998207152 | 0.999 | 1 | 399671 | HEATR4 |
| 0.0002574 | 0.999402225 | 0.998 | 1 | 1982 | EIF4G2 |
| 0.0002574 | 0.999402225 | 0.999 | 1 | 4607 | MYBPC3 |
| 0.0002574 | 0.999402225 | 0.998 | 1 | 7297 | TYK2 |
| 0.0002574 | 0.999402225 | 0.997 | 1 | 7709 | ZBTB17 |
| 0.0002574 | 0.999402225 | 0.996 | 1 | 8834 | TMEM11 |
| 0.0002574 | 0.999402225 | 0.999 | 1 | 57162 | PELI1 |
| 0.0002574 | 0.999402225 | 0.998 | 1 | 84250 | ANKRD32 |
| 0.0002574 | 0.999402225 | 0.999 | 1 | 116092 | DNTTIP1 |
| 0.0002574 | 0.999402225 | 0.997 | 1 | 287015 | TRIM42 |
| < 0.001 | 1 | 1 | 1 | 9746 | CLSTN3 |
| < 0.001 | 1 | 0.999 | 1 | 9962 | SLC23A2 |
| < 0.001 | 1 | 1 | 1 | 51063 | CALHM2 |
| < 0.001 | 1 | 1 | 1 | 55257 | C20orf20 |
| < 0.001 | 1 | 0.998 | 1 | 57614 | KIAA1468 |
| < 0.001 | 1 | 1 | 1 | 83550 | GPR101 |
| < 0.001 | 1 | 1 | 1 | 84064 | HDHD2 |
| < 0.001 | 1 | 0.998 | 1 | 84900 | RNFT2 |
| -0.0002574 | 0.999402225 | 1 | 1 | 7005 | TEAD3 |
| -0.0002574 | 0.999402225 | 0.998 | 1 | 9840 | KIAA0748 |
| -0.0002574 | 0.999402225 | 0.998 | 1 | 55149 | MTPAP |
| -0.0002574 | 0.999402225 | 0.997 | 1 | 203414 | CXorf24 |
| -0.000514801 | 0.998207152 | 0.996 | 1 | 4129 | MAOB |
| -0.000514801 | 0.998207152 | 0.992 | 1 | 4625 | MYH7 |
| -0.000514801 | 0.998207152 | 0.997 | 1 | 5965 | RECQL |
| -0.000514801 | 0.998207152 | 1 | 1 | 54867 | TMEM214 |
| -0.000514801 | 0.998207152 | 0.998 | 1 | 147463 | ANKRD29 |
| -0.000514801 | 0.998207152 | 0.997 | 1 | 197407 | ZNF48 |
| -0.000514801 | 0.998207152 | 0.996 | 1 | 222662 | LHFPL5 |
| -0.000514801 | 0.998207152 | 0.995 | 1 | 387755 | INSC |
| -0.000772201 | 0.997012079 | 0.996 | 1 | 142 | PARP1 |
| -0.000772201 | 0.997012079 | 0.996 | 1 | 3959 | LGALS3BP |
| -0.000772201 | 0.997012079 | 0.998 | 1 | 4750 | NEK1 |
| -0.000772201 | 0.997012079 | 0.996 | 1 | 4919 | ROR1 |
| -0.000772201 | 0.997012079 | 0.997 | 1 | 6367 | CCL22 |
| -0.000772201 | 0.997012079 | 0.995 | 1 | 57722 | IGDCC4 |
| -0.000772201 | 0.997012079 | 0.998 | 1 | 79087 | ALG12 |
| -0.000772201 | 0.997012079 | 0.998 | 1 | 80339 | PNPLA3 |
| -0.000772201 | 0.997012079 | 0.998 | 1 | 164284 | APCDD1L |
| -0.001029601 | 0.995817065 | 0.996 | 1 | 3560 | IL2RB |
| -0.001029601 | 0.995817065 | 0.995 | 1 | 55750 | AGK |
| -0.001287001 | 0.994621456 | 0.993 | 1 | 430 | ASCL2 |
| -0.001287001 | 0.994621456 | 0.995 | 1 | 1137 | CHRNA4 |
| -0.001287001 | 0.994621456 | 0.994 | 1 | 8568 | RRP1 |
| -0.001287001 | 0.994621456 | 0.992 | 1 | 9277 | WDR46 |
| -0.001287001 | 0.994621456 | 0.993 | 1 | 25978 | CHMP2B |
| -0.001287001 | 0.994621456 | 0.994 | 1 | 116412 | ZNF837 |
| -0.001287001 | 0.994621456 | 0.993 | 1 | 285141 | AC007405.8 |
| -0.001287001 | 0.994621456 | 0.995 | 1 | 100131315 | LOC100131315 |
| -0.001544402 | 0.993426502 | 0.995 | 1 | 11095 | ADAMTS8 |
| -0.001544402 | 0.993426502 | 0.993 | 1 | 26470 | SEZ6L2 |
| -0.001544402 | 0.993426502 | 0.991 | 1 | 375759 | C9orf50 |
| -0.001801802 | 0.992231488 | 0.997 | 1 | 8934 | RAB7L1 |
| -0.001801802 | 0.992231488 | 0.992 | 1 | 9231 | DLG5 |
| -0.001801802 | 0.992231488 | 0.992 | 1 | 29800 | ZDHHC1 |
| -0.001801802 | 0.992231488 | 0.994 | 1 | 30012 | TLX3 |
| -0.001801802 | 0.992231488 | 0.992 | 1 | 55582 | KIF27 |
| -0.001801802 | 0.992231488 | 0.995 | 1 | 118430 | MUCL1 |
| -0.001801802 | 0.992231488 | 0.993 | 1 | 124222 | PAQR4 |
| -0.002059202 | 0.991036534 | 0.992 | 1 | 169436 | C9orf96 |
| -0.002059202 | 0.991036534 | 0.991 | 1 | 100128416 | LOC100128416 |
| -0.002316602 | 0.989841521 | 0.988 | 1 | 5049 | PAFAH1B2 |
| -0.002316602 | 0.989841521 | 0.986 | 1 | 7844 | RNF103 |
| -0.002316602 | 0.989841521 | 0.99 | 1 | 9782 | MATR3 |
| -0.002316602 | 0.989841521 | 0.987 | 1 | 23366 | KIAA0895 |
| -0.002316602 | 0.989841521 | 0.993 | 1 | 26003 | GORASP2 |
| -0.002316602 | 0.989841521 | 0.987 | 1 | 56945 | MRPS22 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.031726643 | 0.004320844 | 2192 | FBLN1 |
| 0.031722743 | 0.004325623 | 2804 | GOLGB1 |
| 0.03169442 | 0.004360449 | 161582 | DYX1C1-CCPG1 |
| 0.031645201 | 0.004421572 | 220359 | TIGD3 |
| 0.031616785 | 0.004457209 | 80308 | FLAD1 |
| 0.031612232 | 0.004462945 | 143879 | KBTBD3 |
| 0.031598952 | 0.004479713 | 144983 | RP11-78J21.3 |
| 0.03154286 | 0.004551157 | 60509 | AGBL5 |
| 0.031503394 | 0.004602043 | 6908 | TBP |
| 0.031450462 | 0.004671099 | 28972 | SPCS1 |
| 0.031393811 | 0.004746043 | 8714 | ABCC3 |
| 0.031388983 | 0.004752481 | 23373 | CRTC1 |
| 0.031325184 | 0.004838292 | 51187 | RSL24D1 |
| 0.031323884 | 0.004840053 | 403315 | FAM92A3 |
| 0.031323697 | 0.004840305 | 123606 | NIPA1 |
| 0.031322118 | 0.00484245 | 392264 | LOC392264 |
| 0.031296488 | 0.00487734 | 10322 | SMYD5 |
| 0.031281628 | 0.004897676 | 7342 | UBP1 |
| 0.031270951 | 0.004912334 | 158219 | TTC39B |
| 0.03126993 | 0.004913734 | 26287 | ANKRD2 |
| 0.031256836 | 0.004931768 | 54058 | C21orf58 |
| 0.031239932 | 0.004955138 | 30010 | NXPH1 |
| 0.031229904 | 0.004969054 | 79680 | C22orf29 |
| 0.031221081 | 0.00498132 | 388574 | AC139099.1 |
| 0.031037392 | 0.00524305 | 10238 | DCAF7 |
| 0.030928368 | 0.005404206 | 23566 | LPAR3 |
| 0.03091806 | 0.005419664 | 9477 | MED20 |
| 0.030898929 | 0.005448478 | 1949 | EFNB3 |
| 0.03087729 | 0.005481228 | 4072 | EPCAM |
| 0.030823801 | 0.005562957 | 1613 | DAPK3 |
| 0.030804299 | 0.005593025 | 10501 | SEMA6B |
| 0.030777832 | 0.005634067 | 55329 | MNS1 |
| 0.030662213 | 0.005816565 | 23424 | TDRD7 |
| 0.030638626 | 0.005854443 | 27238 | GPKOW |
| 0.030633889 | 0.005862074 | 55246 | CCDC25 |
| 0.030514464 | 0.006057525 | 2130 | EWSR1 |
| 0.030506756 | 0.006070332 | 55131 | RBM28 |
| 0.03044175 | 0.006179381 | 220064 | ORAOV1 |
| 0.030428285 | 0.006202188 | 10226 | M6PRBP1 |
| 0.030322881 | 0.006383344 | 100169750 | PRINS |
| 0.030307837 | 0.006409582 | 55739 | CARKD |
| 0.030269947 | 0.006476101 | 6524 | SLC5A2 |
| 0.030246638 | 0.006517337 | 100128775 | LOC100128775 |
| 0.030181725 | 0.006633402 | 132001 | C3orf31 |
| 0.030175967 | 0.006643787 | 2023 | ENO1 |
| 0.030082915 | 0.006813646 | 10713 | USP39 |
| 0.030056635 | 0.00686232 | 84892 | C3orf39 |
| 0.030042518 | 0.006888601 | 646817 | SETP18 |
| 0.030026639 | 0.006918261 | 64087 | MCCC2 |
| 0.029937394 | 0.007087114 | 5149 | PDE6H |
| 0.02990164 | 0.007155801 | 2300 | FOXL1 |
| 0.029856229 | 0.00724389 | 492311 | C5orf53 |
| 0.029797353 | 0.007359553 | 391257 | SUMO1P1 |
| 0.029763363 | 0.007427079 | 7770 | ZNF227 |
| 0.029759927 | 0.007433932 | 116986 | AGAP2 |
| 0.029639481 | 0.007677911 | 10335 | MRVI1 |
| 0.029638737 | 0.007679433 | 1180 | CLCN1 |
| 0.029621279 | 0.007715402 | 23608 | MKRN1 |
| 0.029513739 | 0.007940244 | 22853 | LMTK2 |
| 0.029508818 | 0.007950672 | 10910 | SUGT1 |
| 0.029491916 | 0.007986579 | 388272 | C16orf87 |
| 0.029458856 | 0.00805724 | 54890 | ALKBH5 |
| 0.029435081 | 0.008108404 | 79805 | VASH2 |
| 0.029410938 | 0.008160651 | 115426 | UHRF2 |
| 0.029407501 | 0.008168107 | 57636 | ARHGAP23 |
| 0.029375184 | 0.008238574 | 84627 | ZNF469 |
| 0.029347045 | 0.008300376 | 9753 | ZSCAN12 |
| 0.029338965 | 0.008318204 | 57539 | WDR35 |
| 0.029338688 | 0.008318815 | 157927 | C9orf62 |
| 0.02932615 | 0.008346534 | 10389 | SCML2 |
| 0.029248422 | 0.008520264 | 7179 | TPTE |
| 0.029187409 | 0.00865889 | 54840 | APTX |
| 0.029161777 | 0.008717728 | 143279 | HECTD2 |
| 0.02908962 | 0.008885278 | 285381 | DPH3 |
| 0.029016536 | 0.009057917 | 58509 | C19orf29 |
| 0.02889256 | 0.009357614 | 100418883 | LOC100418883 |
| 0.02882356 | 0.009528218 | 84328 | LZIC |
| 0.028804244 | 0.009576472 | 23196 | FAM120A |
| 0.028682403 | 0.009885903 | 4306 | NR3C2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.002316602 | 0.989841521 | 0.992 | 1 | 137964 | AGPAT6 |
| -0.002316602 | 0.989841521 | 0.996 | 1 | 245973 | ATP6V1C2 |
| -0.002316602 | 0.989841521 | 0.983 | 1 | 340348 | TSPAN33 |
| -0.002316602 | 0.989841521 | 0.989 | 1 | 342897 | NCCRP1 |
| -0.002316602 | 0.989841521 | 0.984 | 1 | 100507135 | AL139377.1 |
| -0.002574003 | 0.98864603 | 0.99 | 1 | 123 | ADFP |
| -0.002574003 | 0.98864603 | 0.996 | 1 | 3171 | FOXA3 |
| -0.002574003 | 0.98864603 | 0.994 | 1 | 3817 | KLK2 |
| -0.002574003 | 0.98864603 | 0.988 | 1 | 4762 | NEUROG1 |
| -0.002574003 | 0.98864603 | 0.99 | 1 | 6167 | RPL37 |
| -0.002574003 | 0.98864603 | 0.989 | 1 | 9038 | TAAR5 |
| -0.002574003 | 0.98864603 | 0.992 | 1 | 9118 | INA |
| -0.002574003 | 0.98864603 | 0.991 | 1 | 10856 | RUVBL2 |
| -0.002574003 | 0.98864603 | 0.989 | 1 | 23236 | PLCB1 |
| -0.002574003 | 0.98864603 | 0.989 | 1 | 23400 | ATP13A2 |
| -0.002574003 | 0.98864603 | 0.989 | 1 | 57153 | SLC44A2 |
| -0.002574003 | 0.98864603 | 0.992 | 1 | 57541 | ZNF398 |
| -0.002574003 | 0.98864603 | 0.991 | 1 | 57575 | PCDH10 |
| -0.002574003 | 0.98864603 | 0.988 | 1 | 161635 | CSNK1A1P1 |
| -0.002831403 | 0.987451136 | 0.993 | 1 | 54947 | LPCAT2 |
| -0.002831403 | 0.987451136 | 0.982 | 1 | 55279 | ZNF654 |
| -0.002831403 | 0.987451136 | 0.991 | 1 | 65220 | NADK |
| -0.002831403 | 0.987451136 | 0.987 | 1 | 129881 | C2orf77 |
| -0.002831403 | 0.987451136 | 0.986 | 1 | 138652 | PRSS47 |
| -0.002831403 | 0.987451136 | 0.987 | 1 | 246176 | GAS2L2 |
| -0.002831403 | 0.987451136 | 0.988 | 1 | 256006 | ANKRD31 |
| -0.002831403 | 0.987451136 | 0.99 | 1 | 285971 | ZNF775 |
| -0.003088803 | 0.986256242 | 0.988 | 1 | 1520 | CTSS |
| -0.003088803 | 0.986256242 | 0.986 | 1 | 10277 | UBE4B |
| -0.003088803 | 0.986256242 | 0.986 | 1 | 11079 | RER1 |
| -0.003088803 | 0.986256242 | 0.991 | 1 | 144245 | ALG10B |
| -0.003088803 | 0.986256242 | 0.984 | 1 | 197370 | NSMCE1 |
| -0.003346203 | 0.985061347 | 0.982 | 1 | 4580 | MTX1 |
| -0.003346203 | 0.985061347 | 0.982 | 1 | 28959 | TMEM176B |
| -0.003346203 | 0.985061347 | 0.986 | 1 | 55384 | MEG3 |
| -0.003346203 | 0.985061347 | 0.983 | 1 | 56951 | C5orf15 |
| -0.003346203 | 0.985061347 | 0.985 | 1 | 80321 | CEP70 |
| -0.003346203 | 0.985061347 | 0.98 | 1 | 85416 | ZIC5 |
| -0.003346203 | 0.985061347 | 0.99 | 1 | 85452 | C1orf222 |
| -0.003346203 | 0.985061347 | 0.986 | 1 | 201725 | C4orf46 |
| -0.003346203 | 0.985061347 | 0.985 | 1 | 644563 | LOC644563 |
| -0.003603603 | 0.983865976 | 0.986 | 1 | 10164 | CHST4 |
| -0.003603603 | 0.983865976 | 0.987 | 1 | 115825 | WDFY2 |
| -0.003603603 | 0.983865976 | 0.977 | 1 | 353134 | LCE1D |
| -0.003861004 | 0.982671201 | 0.981 | 1 | 972 | CD74 |
| -0.003861004 | 0.982671201 | 0.982 | 1 | 9501 | RPH3AL |
| -0.003861004 | 0.982671201 | 0.983 | 1 | 91419 | XRCC6BP1 |
| -0.003861004 | 0.982671201 | 0.981 | 1 | 117156 | SCGB3A2 |
| -0.003861004 | 0.982671201 | 0.982 | 1 | 118856 | MMP21 |
| -0.004118404 | 0.981476426 | 0.984 | 1 | 56 | ACRV1 |
| -0.004118404 | 0.981476426 | 0.982 | 1 | 6228 | RPS23 |
| -0.004118404 | 0.981476426 | 0.983 | 1 | 26000 | TBC1D10B |
| -0.004118404 | 0.981476426 | 0.98 | 1 | 26275 | HIBCH |
| -0.004118404 | 0.981476426 | 0.987 | 1 | 60468 | BACH2 |
| -0.004118404 | 0.981476426 | 0.983 | 1 | 122042 | RXFP2 |
| -0.004375804 | 0.98028177 | 0.98 | 1 | 3419 | IDH3A |
| -0.004375804 | 0.98028177 | 0.98 | 1 | 27121 | DKK4 |
| -0.004375804 | 0.98028177 | 0.971 | 1 | 284366 | KLK9 |
| -0.004633205 | 0.979086518 | 0.976 | 1 | 7161 | TP73 |
| -0.004633205 | 0.979086518 | 0.972 | 1 | 55975 | KLHL7 |
| -0.004633205 | 0.979086518 | 0.989 | 1 | 63914 | C6orf164 |
| -0.004633205 | 0.979086518 | 0.97 | 1 | 79836 | LONRF3 |
| -0.004633205 | 0.979086518 | 0.978 | 1 | 149420 | PDIK1L |
| -0.004633205 | 0.979086518 | 0.984 | 1 | 221527 | ZBTB12 |
| -0.004633205 | 0.979086518 | 0.987 | 1 | 100287825 | LOC100287825 |
| -0.004633205 | 0.979086518 | 0.984 | 1 | 100505929 | C21orf37 |
| -0.004890604 | 0.977891862 | 0.975 | 1 | 719 | C3AR1 |
| -0.004890604 | 0.977891862 | 0.977 | 1 | 2768 | GNA12 |
| -0.004890604 | 0.977891862 | 0.987 | 1 | 50832 | TAS2R4 |
| -0.004890604 | 0.977891862 | 0.981 | 1 | 261734 | NPHP4 |
| -0.005148005 | 0.976697326 | 0.974 | 1 | 1113 | CHGA |
| -0.005148005 | 0.976697326 | 0.984 | 1 | 1350 | COX7C |
| -0.005148005 | 0.976697326 | 0.972 | 1 | 4714 | NDUFB8 |
| -0.005148005 | 0.976697326 | 0.97 | 1 | 6508 | SLC4A3 |
| -0.005148005 | 0.976697326 | 0.97 | 1 | 23277 | KIAA0664 |
| -0.005148005 | 0.976697326 | 0.981 | 1 | 221937 | FOXK1 |
| -0.005148005 | 0.976697326 | 0.977 | 1 | 256051 | ZNF549 |
| -0.005148005 | 0.976697326 | 0.983 | 1 | 440097 | DBX2 |
| -0.005148005 | 0.976697326 | 0.982 | 1 | 442590 | SPDYE5 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.028673116 | 0.009909847 | 29902 | C12orf24 |
| 0.028625291 | 0.010033984 | 81671 | TMEM49 |
| 0.028600032 | 0.01010011 | 8913 | CACNA1G |
| 0.028597988 | 0.010105474 | 6041 | RNASEL |
| 0.028596224 | 0.010110107 | 199870 | FAM76A |
| 0.0285809 | 0.010150444 | 284309 | ZNF776 |
| 0.028564092 | 0.01019485 | 10859 | LILRB1 |
| 0.02852416 | 0.010301047 | 5156 | PDGFRA |
| 0.028521653 | 0.01030775 | 79663 | HSPBAP1 |
| 0.028515244 | 0.010324904 | 22949 | PTGR1 |
| 0.028486921 | 0.010400978 | 51522 | TMEM14C |
| 0.028423585 | 0.010572909 | 58 | ACTA1 |
| 0.028404269 | 0.010625842 | 6867 | TACC1 |
| 0.02837511 | 0.0107062 | 59277 | NTN4 |
| 0.028336663 | 0.010812989 | 1468 | SLC25A10 |
| 0.028232653 | 0.01110661 | 646450 | C3orf71 |
| 0.028208323 | 0.011176314 | 1994 | ELAVL1 |
| 0.028167089 | 0.011295313 | 10613 | ERLIN1 |
| 0.028157895 | 0.011322012 | 7936 | RDBP |
| 0.028029185 | 0.011701559 | 5303 | PIN4 |
| 0.028017947 | 0.011735225 | 221477 | C6orf89 |
| 0.027927682 | 0.012008794 | 11014 | KDELR2 |
| 0.027888305 | 0.012129887 | 440354 | AC009086.2 |
| 0.027853761 | 0.012237013 | 8731 | RNMT |
| 0.027843544 | 0.012268861 | 7546 | ZIC2 |
| 0.027830265 | 0.012310362 | 25911 | RP11-529I10.1 |
| 0.027823672 | 0.012331013 | 128414 | NKAIN4 |
| 0.027810764 | 0.012371533 | 84545 | MRPL43 |
| 0.027803613 | 0.012394032 | 26092 | TOR1AIP1 |
| 0.027779004 | 0.012471721 | 7799 | PRDM2 |
| 0.027721891 | 0.012653712 | 139728 | PNCK |
| 0.027709074 | 0.012694882 | 22854 | NTNG1 |
| 0.027698582 | 0.012728655 | 84868 | HAVCR2 |
| 0.027629767 | 0.012952228 | 55156 | ARMC1 |
| 0.027618809 | 0.01298814 | 83540 | NUF2 |
| 0.027611565 | 0.013011931 | 84898 | PLXDC2 |
| 0.027497156 | 0.013392848 | 1871 | E2F3 |
| 0.02746948 | 0.013486453 | 286205 | SCAI |
| 0.027349962 | 0.013897398 | 5995 | RGR |
| 0.027331853 | 0.013960617 | 169693 | C9orf71 |
| 0.027268983 | 0.014182076 | 9123 | SLC16A3 |
| 0.027166367 | 0.014550177 | 51493 | C22orf28 |
| 0.027152343 | 0.014601142 | 7417 | VDAC2 |
| 0.027151972 | 0.014602492 | 115752 | DIS3L |
| 0.02712987 | 0.014683129 | 7101 | NR2E1 |
| 0.027113248 | 0.014744022 | 25888 | ZNF473 |
| 0.027084922 | 0.014848322 | 7473 | WNT3 |
| 0.027059849 | 0.014941174 | 388591 | RNF207 |
| 0.027004872 | 0.015146584 | 10261 | IGSF6 |
| 0.026987229 | 0.015213025 | 84433 | CARD11 |
| 0.026939774 | 0.015393003 | 7086 | TKT |
| 0.026914978 | 0.015487798 | 4060 | LUM |
| 0.026889903 | 0.015584169 | 79879 | CCDC134 |
| 0.026843749 | 0.015762957 | 55676 | SLC30A6 |
| 0.026825733 | 0.015833227 | 10464 | PIBF1 |
| 0.026767785 | 0.016061122 | 441263 | DTX2P1-UPK3BP1-PMS2P11 |
| 0.026746055 | 0.016147323 | 29999 | FSCN3 |
| 0.026724417 | 0.016233573 | 90506 | LRRC46 |
| 0.026706772 | 0.016304187 | 79166 | LILRP2 |
| 0.026678542 | 0.016417736 | 100506164 | HSFX1 |
| 0.02665226 | 0.016524082 | 151230 | KLHL23 |
| 0.02652717 | 0.017038552 | 10598 | AHSA1 |
| 0.026515376 | 0.017087778 | 9183 | ZW10 |
| 0.0264578 | 0.017329866 | 9632 | SEC24C |
| 0.026434304 | 0.017429527 | 29904 | EEF2K |
| 0.026390564 | 0.017616389 | 57154 | SMURF1 |
| 0.026356017 | 0.017765209 | 117854 | TRIM6 |
| 0.02629129 | 0.018047003 | 8359 | HIST1H4A |
| 0.026210682 | 0.018403422 | 8061 | FOSL1 |
| 0.026108623 | 0.018863508 | 6002 | RGS12 |
| 0.026031358 | 0.019218476 | 5580 | PRKCD |
| 0.026028294 | 0.019232672 | 84320 | ACBD6 |
| 0.026022071 | 0.019261539 | 8365 | HIST1H4H |
| 0.026019193 | 0.019274892 | 1738 | DLD |
| 0.026002012 | 0.01935483 | 201798 | TIGD4 |
| 0.025960222 | 0.019550437 | 2495 | FTHL16 |
| 0.025934592 | 0.019671265 | 8214 | DGCR6 |
| 0.025911003 | 0.019783035 | 440068 | CARD17 |
| 0.025712643 | 0.02074514 | 80315 | CPEB4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.005148005 | 0.976697326 | 0.978 | 1 | 100129387 | GABPB1-AS1 |
| -0.005405406 | 0.975502789 | 0.975 | 1 | 2539 | G6PD |
| -0.005405406 | 0.975502789 | 0.977 | 1 | 6451 | SH3BGRL |
| -0.005405406 | 0.975502789 | 0.971 | 1 | 7317 | UBA1 |
| -0.005405406 | 0.975502789 | 0.983 | 1 | 9912 | AC005277.1 |
| -0.005662805 | 0.974308312 | 0.977 | 1 | 1445 | CSK |
| -0.005662805 | 0.974308312 | 0.968 | 1 | 8911 | CACNA1I |
| -0.005662805 | 0.974308312 | 0.971 | 1 | 60493 | FASTKD5 |
| -0.005662805 | 0.974308312 | 0.973 | 1 | 161436 | EML5 |
| -0.005920206 | 0.973113298 | 0.972 | 1 | 379 | ARL4D |
| -0.005920206 | 0.973113298 | 0.98 | 1 | 950 | SCARB2 |
| -0.005920206 | 0.973113298 | 0.973 | 1 | 1158 | CKM |
| -0.005920206 | 0.973113298 | 0.972 | 1 | 3773 | KCNJ16 |
| -0.005920206 | 0.973113298 | 0.973 | 1 | 10296 | MAEA |
| -0.005920206 | 0.973113298 | 0.969 | 1 | 23765 | IL17RA |
| -0.005920206 | 0.973113298 | 0.968 | 1 | 25879 | DCAF13 |
| -0.005920206 | 0.973113298 | 0.976 | 1 | 26958 | COPG2 |
| -0.005920206 | 0.973113298 | 0.968 | 1 | 29922 | NME7 |
| -0.005920206 | 0.973113298 | 0.974 | 1 | 55578 | FAM48A |
| -0.005920206 | 0.973113298 | 0.97 | 1 | 57590 | WDFY1 |
| -0.005920206 | 0.973113298 | 0.974 | 1 | 80036 | TRPM3 |
| -0.005920206 | 0.973113298 | 0.971 | 1 | 153222 | C5orf41 |
| -0.005920206 | 0.973113298 | 0.98 | 1 | 646508 | AC092070.5 |
| -0.006177606 | 0.971918941 | 0.982 | 1 | 7805 | LAPTM5 |
| -0.006177606 | 0.971918941 | 0.976 | 1 | 140893 | C20orf151 |
| -0.006177606 | 0.971918941 | 0.98 | 1 | 162282 | ANKFN1 |
| -0.006177606 | 0.971918941 | 0.979 | 1 | 399967 | PATE2 |
| -0.006177606 | 0.971918941 | 0.975 | 1 | 100128203 | ENSAP3 |
| -0.006435006 | 0.970724702 | 0.966 | 1 | 7353 | UFD1L |
| -0.006435006 | 0.970724702 | 0.964 | 1 | 645367 | GGT8P |
| -0.006435006 | 0.970724702 | 0.963 | 1 | 731789 | RP13-16H11.1 |
| -0.006692407 | 0.969530404 | 0.972 | 1 | 2900 | GRIK4 |
| -0.006692407 | 0.969530404 | 0.971 | 1 | 4292 | MLH1 |
| -0.006692407 | 0.969530404 | 0.968 | 1 | 51100 | SH3GLB1 |
| -0.006692407 | 0.969530404 | 0.974 | 1 | 121981 | PPIAP26 |
| -0.006692407 | 0.969530404 | 0.978 | 1 | 122706 | PSMB11 |
| -0.006692407 | 0.969530404 | 0.972 | 1 | 255082 | CASC2 |
| -0.006692407 | 0.969530404 | 0.964 | 1 | 387066 | SNHG5 |
| -0.006949807 | 0.968335688 | 0.956 | 1 | 1038 | CDR1 |
| -0.006949807 | 0.968335688 | 0.972 | 1 | 4747 | NEFL |
| -0.006949807 | 0.968335688 | 0.967 | 1 | 55055 | ZWILCH |
| -0.007207207 | 0.967141628 | 0.971 | 1 | 2707 | GJB3 |
| -0.007207207 | 0.967141628 | 0.973 | 1 | 4585 | MUC4 |
| -0.007207207 | 0.967141628 | 0.968 | 1 | 7142 | TNP2 |
| -0.007207207 | 0.967141628 | 0.978 | 1 | 201255 | LRRC45 |
| -0.007207207 | 0.967141628 | 0.965 | 1 | 284131 | AC120024.1 |
| -0.007207207 | 0.967141628 | 0.981 | 1 | 387590 | AC005301.1 |
| -0.007464607 | 0.965947568 | 0.966 | 1 | 55966 | AJAP1 |
| -0.007464607 | 0.965947568 | 0.973 | 1 | 139081 | MAGEC3 |
| -0.007722008 | 0.964753568 | 0.979 | 1 | 80320 | SP6 |
| -0.007722008 | 0.964753568 | 0.964 | 1 | 150147 | C21orf128 |
| -0.007979408 | 0.963559151 | 0.962 | 1 | 1836 | SLC26A2 |
| -0.007979408 | 0.963559151 | 0.965 | 1 | 79999 | AC007952.2 |
| -0.007979408 | 0.963559151 | 0.966 | 1 | 89910 | UBE3B |
| -0.008236809 | 0.962365389 | 0.958 | 1 | 1580 | CYP4B1 |
| -0.008236809 | 0.962365389 | 0.969 | 1 | 4784 | NFIX |
| -0.008236809 | 0.962365389 | 0.963 | 1 | 51258 | MRPL51 |
| -0.008236809 | 0.962365389 | 0.958 | 1 | 79819 | WDR78 |
| -0.008236809 | 0.962365389 | 0.962 | 1 | 389692 | MAFA |
| -0.008494208 | 0.961171627 | 0.954 | 1 | 4544 | MTNR1B |
| -0.008494208 | 0.961171627 | 0.963 | 1 | 50624 | CUZD1 |
| -0.008494208 | 0.961171627 | 0.96 | 1 | 92799 | SHKBP1 |
| -0.008494208 | 0.961171627 | 0.961 | 1 | 94056 | SYAP1 |
| -0.008494208 | 0.961171627 | 0.976 | 1 | 374659 | HDDC3 |
| -0.008494208 | 0.961171627 | 0.965 | 1 | 729920 | ISPD |
| -0.008751608 | 0.959978044 | 0.956 | 1 | 6665 | SOX15 |
| -0.008751608 | 0.959978044 | 0.96 | 1 | 6723 | SRM |
| -0.008751608 | 0.959978044 | 0.954 | 1 | 8379 | MAD1L1 |
| -0.008751608 | 0.959978044 | 0.962 | 1 | 51239 | ANKRD39 |
| -0.008751608 | 0.959978044 | 0.956 | 1 | 57148 | KIAA1219 |
| -0.008751608 | 0.959978044 | 0.961 | 1 | 79171 | RBM42 |
| -0.008751608 | 0.959978044 | 0.953 | 1 | 645431 | LOC645431 |
| -0.009009009 | 0.958784461 | 0.958 | 1 | 492 | ATP2B3 |
| -0.009009009 | 0.958784461 | 0.96 | 1 | 4237 | MFAP2 |
| -0.009009009 | 0.958784461 | 0.961 | 1 | 9677 | HISPPD2A |
| -0.009009009 | 0.958784461 | 0.961 | 1 | 23015 | GOLGA8A |
| -0.009009009 | 0.958784461 | 0.948 | 1 | 23023 | TMCC1 |
| -0.009009009 | 0.958784461 | 0.958 | 1 | 54954 | FAM120C |
| -0.009009009 | 0.958784461 | 0.96 | 1 | 55831 | EMC3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.025662865 | 0.020992888 | 196403 | DTX3 |
| 0.025616061 | 0.021228172 | 136319 | MTPN |
| 0.025615411 | 0.02123145 | 83451 | ABHD11 |
| 0.025606589 | 0.021276066 | 166 | AES |
| 0.025603246 | 0.021292992 | 9156 | EXO1 |
| 0.025600366 | 0.021307591 | 64777 | RMND5B |
| 0.025584394 | 0.021388667 | 124093 | CCDC78 |
| 0.025538703 | 0.02162208 | 5335 | PLCG1 |
| 0.025533132 | 0.021650705 | 26648 | OR7E24 |
| 0.025465896 | 0.021998642 | 222161 | DKFZP586I1420 |
| 0.025454754 | 0.022056766 | 283420 | CLEC9A |
| 0.025450388 | 0.022079578 | 652968 | GATSL3 |
| 0.025430052 | 0.022186104 | 64800 | EFCAB6 |
| 0.02540479 | 0.022319058 | 26696 | OR2T1 |
| 0.025359195 | 0.022560783 | 991 | CDC20 |
| 0.025300689 | 0.022874285 | 55845 | BRK1 |
| 0.02523271 | 0.023243286 | 81848 | SPRY4 |
| 0.02522946 | 0.023261052 | 100129138 | RP11-364B6.1 |
| 0.025218131 | 0.02332308 | 3687 | ITGAX |
| 0.025216181 | 0.023333786 | 91661 | ZNF765 |
| 0.025013082 | 0.024471005 | 80233 | C17orf70 |
| 0.024993766 | 0.024581639 | 89891 | WDR34 |
| 0.024873411 | 0.025280664 | 91227 | GGTLC2 |
| 0.024824843 | 0.025567591 | 5313 | PKLR |
| 0.024738107 | 0.026087016 | 55328 | RNLS |
| 0.024701703 | 0.026307721 | 57019 | CIAPIN1 |
| 0.024675144 | 0.026469762 | 23621 | BACE1 |
| 0.0246666 | 0.026522074 | 57708 | MIER1 |
| 0.024637347 | 0.02670184 | 5788 | PTPRC |
| 0.024616452 | 0.026830904 | 389740 | GPR116P1 |
| 0.024603264 | 0.026912637 | 57338 | JPH3 |
| 0.024578005 | 0.027069762 | 64121 | RRAGC |
| 0.024572155 | 0.02710627 | 55107 | ANO1 |
| 0.024546709 | 0.027265567 | 116238 | TLCD1 |
| 0.024544202 | 0.027281294 | 51361 | HOOK1 |
| 0.024541788 | 0.027296472 | 9962 | SLC23A2 |
| 0.024512906 | 0.027478414 | 140 | ADORA3 |
| 0.024479661 | 0.027689146 | 115817 | DHRS1 |
| 0.024471581 | 0.027740574 | 392352 | LOC392352 |
| 0.02442942 | 0.028010255 | 84418 | CYSTM1 |
| 0.024397288 | 0.028217312 | 3978 | LIG1 |
| 0.024396174 | 0.0282245 | 9228 | DLGAP2 |
| 0.024388187 | 0.028276181 | 147949 | ZNF583 |
| 0.024384659 | 0.028299034 | 203328 | SUSD3 |
| 0.024372401 | 0.028378567 | 246213 | SLC17A8 |
| 0.024328381 | 0.028665749 | 22856 | CHSY1 |
| 0.02432541 | 0.028685234 | 5523 | PPP2R3A |
| 0.024287056 | 0.028937632 | 2719 | GPC3 |
| 0.024210906 | 0.029444458 | 5100 | PCDH8 |
| 0.024205798 | 0.029478727 | 84295 | PHF6 |
| 0.02420227 | 0.029502416 | 63901 | FAM111A |
| 0.024174968 | 0.029686285 | 730291 | ZNF735 |
| 0.024120176 | 0.030058265 | 121364 | OR10A7 |
| 0.024086744 | 0.030287195 | 27292 | DIMT1 |
| 0.023952646 | 0.031220559 | 57228 | AC139768.2 |
| 0.023949953 | 0.03123956 | 56904 | SH3GLB2 |
| 0.023946146 | 0.03126644 | 4922 | NTS |
| 0.023933051 | 0.031358998 | 197370 | NSMCE1 |
| 0.02392943 | 0.031384643 | 9015 | TAF1A |
| 0.023894977 | 0.03162951 | 118429 | ANTXR2 |
| 0.023877146 | 0.031756863 | 26063 | DECR2 |
| 0.023821611 | 0.032156345 | 54221 | SNTG2 |
| 0.023798211 | 0.032325961 | 57642 | COL20A1 |
| 0.023778336 | 0.032470636 | 9739 | SETD1A |
| 0.023774622 | 0.03249773 | 221711 | SYCP2L |
| 0.023768958 | 0.032539085 | 5169 | ENPP3 |
| 0.023748526 | 0.032688644 | 84446 | BRSK1 |
| 0.023741005 | 0.032743864 | 81543 | LRRC3 |
| 0.02371528 | 0.032933276 | 4085 | MAD2L1 |
| 0.023686677 | 0.033144981 | 26260 | FBXO25 |
| 0.023640709 | 0.033487681 | 148156 | ZNF558 |
| 0.023629194 | 0.033573985 | 4267 | CD99 |
| 0.023622878 | 0.033621434 | 80228 | ORAI2 |
| 0.023560101 | 0.034095921 | 6576 | SLC25A1 |
| 0.023511253 | 0.03446909 | 28976 | ACAD9 |
| 0.023503175 | 0.034531124 | 54716 | SLC6A20 |
| 0.023496488 | 0.034582581 | 389558 | FAM180A |
| 0.023397865 | 0.035348766 | 6527 | SLC5A4 |
| 0.023355611 | 0.035681441 | 100271715 | AC019171.4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.009009009 | 0.958784461 | 0.95 | 1 | 116071 | BATF2 |
| -0.009266409 | 0.957590461 | 0.953 | 1 | 344 | APOC2 |
| -0.009266409 | 0.957590461 | 0.957 | 1 | 5293 | PIK3CD |
| -0.009266409 | 0.957590461 | 0.965 | 1 | 6189 | RPS3AP47 |
| -0.009266409 | 0.957590461 | 0.956 | 1 | 10269 | ZMPSTE24 |
| -0.009266409 | 0.957590461 | 0.959 | 1 | 29125 | C11orf21 |
| -0.009266409 | 0.957590461 | 0.964 | 1 | 55172 | C14orf104 |
| -0.009266409 | 0.957590461 | 0.959 | 1 | 79816 | TLE6 |
| -0.009266409 | 0.957590461 | 0.96 | 1 | 84914 | ZNF587 |
| -0.009266409 | 0.957590461 | 0.963 | 1 | 374395 | TMEM179B |
| -0.00952381 | 0.956397116 | 0.961 | 1 | 1133 | CHRM5 |
| -0.00952381 | 0.956397116 | 0.958 | 1 | 10427 | SEC24B |
| -0.00952381 | 0.956397116 | 0.963 | 1 | 203859 | ANO5 |
| -0.00952381 | 0.956397116 | 0.959 | 1 | 100294362 | LOC100294362 |
| -0.009781209 | 0.955203831 | 0.958 | 1 | 3385 | ICAM3 |
| -0.009781209 | 0.955203831 | 0.954 | 1 | 4724 | NDUFS4 |
| -0.01003861 | 0.954010606 | 0.963 | 1 | 5866 | RAB3IL1 |
| -0.01003861 | 0.954010606 | 0.957 | 1 | 6271 | S100A1 |
| -0.01003861 | 0.954010606 | 0.959 | 1 | 7565 | ZNF17 |
| -0.01003861 | 0.954010606 | 0.962 | 1 | 10810 | WASF3 |
| -0.01003861 | 0.954010606 | 0.969 | 1 | 80775 | TMEM177 |
| -0.01003861 | 0.954010606 | 0.955 | 1 | 84883 | AIFM2 |
| -0.01029601 | 0.952816963 | 0.946 | 1 | 10693 | CCT6B |
| -0.01029601 | 0.952816963 | 0.97 | 1 | 26036 | ZNF451 |
| -0.01029601 | 0.952816963 | 0.952 | 1 | 283902 | HTA |
| -0.01029601 | 0.952816963 | 0.964 | 1 | 767846 | PFN1P2 |
| -0.01055341 | 0.951624036 | 0.947 | 1 | 27 | ABL2 |
| -0.01055341 | 0.951624036 | 0.952 | 1 | 2697 | GJA1 |
| -0.01055341 | 0.951624036 | 0.948 | 1 | 6835 | SURF2 |
| -0.01055341 | 0.951624036 | 0.948 | 1 | 23138 | AC136632.1 |
| -0.01055341 | 0.951624036 | 0.96 | 1 | 143162 | FRMPD2 |
| -0.01055341 | 0.951624036 | 0.954 | 1 | 144097 | C11orf84 |
| -0.010810811 | 0.950431168 | 0.958 | 1 | 961 | CD47 |
| -0.010810811 | 0.950431168 | 0.942 | 1 | 6293 | VPS52 |
| -0.010810811 | 0.950431168 | 0.961 | 1 | 26115 | TANC2 |
| -0.010810811 | 0.950431168 | 0.945 | 1 | 51752 | ERAP1 |
| -0.010810811 | 0.950431168 | 0.961 | 1 | 57546 | PDP2 |
| -0.010810811 | 0.950431168 | 0.945 | 1 | 91948 | RP11-82I10.1 |
| -0.010810811 | 0.950431168 | 0.964 | 1 | 145741 | FAM148A |
| -0.010810811 | 0.950431168 | 0.956 | 1 | 387712 | C10orf134 |
| -0.011068211 | 0.94923842 | 0.96 | 1 | 4735 | SEPTIN2 |
| -0.011068211 | 0.94923842 | 0.957 | 1 | 5009 | OTC |
| -0.011068211 | 0.94923842 | 0.949 | 1 | 10168 | ZNF197 |
| -0.011068211 | 0.94923842 | 0.957 | 1 | 23766 | GABARAPL3 |
| -0.011068211 | 0.94923842 | 0.951 | 1 | 26995 | TRUB2 |
| -0.011068211 | 0.94923842 | 0.953 | 1 | 728658 | RPL13AP5 |
| -0.011325611 | 0.948045731 | 0.96 | 1 | 23658 | LSM5 |
| -0.011325611 | 0.948045731 | 0.96 | 1 | 65987 | KCTD14 |
| -0.011325611 | 0.948045731 | 0.954 | 1 | 84777 | MGC11082 |
| -0.011325611 | 0.948045731 | 0.953 | 1 | 392376 | OR13C2 |
| -0.011325611 | 0.948045731 | 0.958 | 1 | 402665 | IGLON5 |
| -0.011583011 | 0.946852624 | 0.954 | 1 | 2737 | GLI3 |
| -0.011583011 | 0.946852624 | 0.951 | 1 | 6898 | TAT |
| -0.011583011 | 0.946852624 | 0.949 | 1 | 7324 | UBE2E1 |
| -0.011583011 | 0.946852624 | 0.947 | 1 | 8355 | HIST1H3G |
| -0.011583011 | 0.946852624 | 0.957 | 1 | 26056 | RAB11FIP5 |
| -0.011583011 | 0.946852624 | 0.943 | 1 | 151613 | TTC14 |
| -0.011840411 | 0.945660233 | 0.955 | 1 | 7617 | ZNF66P |
| -0.011840411 | 0.945660233 | 0.941 | 1 | 51092 | SIDT2 |
| -0.011840411 | 0.945660233 | 0.951 | 1 | 57462 | KIAA1161 |
| -0.011840411 | 0.945660233 | 0.942 | 1 | 79639 | TMEM53 |
| -0.011840411 | 0.945660233 | 0.951 | 1 | 83896 | KRTAP3-1 |
| -0.011840411 | 0.945660233 | 0.943 | 1 | 91147 | TMEM67 |
| -0.011840411 | 0.945660233 | 0.947 | 1 | 149466 | C1ORF210 |
| -0.011840411 | 0.945660233 | 0.959 | 1 | 373856 | USP41 |
| -0.012097812 | 0.944467962 | 0.942 | 1 | 775 | CACNA1C |
| -0.012097812 | 0.944467962 | 0.943 | 1 | 3937 | LCP2 |
| -0.012097812 | 0.944467962 | 0.942 | 1 | 79168 | LILRA6 |
| -0.012097812 | 0.944467962 | 0.944 | 1 | 83443 | SF3B5 |
| -0.012097812 | 0.944467962 | 0.951 | 1 | 160777 | CCDC60 |
| -0.012355212 | 0.94327569 | 0.949 | 1 | 3975 | LHX1 |
| -0.012355212 | 0.94327569 | 0.941 | 1 | 4909 | AC008687.3 |
| -0.012355212 | 0.94327569 | 0.934 | 1 | 5436 | POLR2G |
| -0.012355212 | 0.94327569 | 0.948 | 1 | 85360 | SYDE1 |
| -0.012355212 | 0.94327569 | 0.942 | 1 | 161502 | C15orf26 |
| -0.012355212 | 0.94327569 | 0.933 | 1 | 390243 | FOLR4 |
| -0.012355212 | 0.94327569 | 0.944 | 1 | 653162 | RPSAP9 |
| -0.012612613 | 0.94208312 | 0.937 | 1 | 3958 | LGALS3 |
| -0.012612613 | 0.94208312 | 0.949 | 1 | 5789 | PTPRD |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.023307599 | 0.036062691 | 10856 | RUVBL2 |
| 0.023274167 | 0.036330212 | 100129794 | RP11-537P22.1 |
| 0.023249093 | 0.036531944 | 55002 | TMCO3 |
| 0.02320916 | 0.036855232 | 983 | CDC2 |
| 0.023091871 | 0.037818842 | 22982 | DIP2C |
| 0.022984982 | 0.038715601 | 170487 | C20orf134 |
| 0.02297941 | 0.03876286 | 8458 | TTF2 |
| 0.022974953 | 0.038800661 | 25796 | PGLS |
| 0.022968266 | 0.038857464 | 2538 | G6PC |
| 0.022966223 | 0.03887482 | 8224 | SYN3 |
| 0.02293985 | 0.039099637 | 164127 | C1orf65 |
| 0.022812624 | 0.040199663 | 4129 | MAOB |
| 0.022806494 | 0.040253326 | 257169 | C9orf43 |
| 0.022783834 | 0.040452201 | 729852 | LOC729852 |
| 0.022747617 | 0.040771779 | 54934 | C12orf41 |
| 0.022723936 | 0.040981896 | 131177 | FAM3D |
| 0.022690319 | 0.041281741 | 57834 | CYP4F11 |
| 0.022688739 | 0.041295905 | 293 | SLC25A6 |
| 0.022678154 | 0.041390732 | 58492 | ZNF77 |
| 0.022675924 | 0.041410714 | 54544 | CRCT1 |
| 0.022633949 | 0.041788742 | 9112 | MTA1 |
| 0.02263302 | 0.041797157 | 55743 | CHFR |
| 0.022624662 | 0.041872747 | 4796 | NFKBIL2 |
| 0.022620205 | 0.041913155 | 91947 | ARRDC4 |
| 0.022587979 | 0.042206075 | 126070 | ZNF440 |
| 0.022489913 | 0.04310815 | 84148 | MYST1 |
| 0.022465676 | 0.043333594 | 79031 | PDCL3 |
| 0.022433173 | 0.043637495 | 64762 | FAM59A |
| 0.022368537 | 0.044247169 | 3155 | HMGCL |
| 0.022345228 | 0.044468779 | 255758 | TCTEX1D2 |
| 0.022337614 | 0.044541378 | 10051 | SMC4 |
| 0.02232099 | 0.044700246 | 1462 | VCAN |
| 0.022250969 | 0.045374561 | 57050 | UTP3 |
| 0.022217909 | 0.045695912 | 643905 | PRR21 |
| 0.022147888 | 0.046382848 | 23731 | C9orf5 |
| 0.02209904 | 0.046867218 | 284323 | ZNF780A |
| 0.022009054 | 0.047770619 | 1783 | DYNC1LI2 |
| 0.022007011 | 0.047791306 | 50511 | SYCP3 |
| 0.021992246 | 0.047940992 | 3678 | ITGA5 |
| 0.021978129 | 0.048084449 | 830 | CAPZA2 |
| 0.021936154 | 0.048513174 | 29087 | THYN1 |
| 0.02183233 | 0.049587447 | 1767 | DNAH5 |
| 0.02165607 | 0.051456884 | 54872 | PIGG |
| 0.021634988 | 0.05168438 | 8861 | LDB1 |
| 0.021593664 | 0.052132744 | 112936 | VPS26B |
| 0.021566268 | 0.052431788 | 8971 | H1FX |
| 0.021547139 | 0.05264144 | 7434 | VIPR2 |
| 0.021544259 | 0.052673064 | 283297 | OR10A4 |
| 0.021529214 | 0.052838523 | 149934 | NCOR1P1 |
| 0.021440342 | 0.053824823 | 54539 | NDUFB11 |
| 0.021428177 | 0.053961005 | 3605 | IL17A |
| 0.021370692 | 0.054608498 | 9236 | CCPG1 |
| 0.021341996 | 0.054934122 | 442249 | LOC442249 |
| 0.021340696 | 0.054948907 | 4148 | MATN3 |
| 0.021302065 | 0.05538993 | 55835 | CENPJ |
| 0.02125749 | 0.055902485 | 3190 | HNRNPK |
| 0.021226471 | 0.05626148 | 837 | CASP4 |
| 0.021195734 | 0.056619108 | 4974 | OMG |
| 0.021193318 | 0.056647282 | 9149 | DYRK1B |
| 0.021147722 | 0.057181504 | 9953 | HS3ST3B1 |
| 0.021106396 | 0.057669301 | 168667 | BMPER |
| 0.021105746 | 0.057676986 | 55722 | CEP72 |
| 0.02107445 | 0.058048744 | 9711 | KIAA0226 |
| 0.021027552 | 0.058609534 | 3295 | HSD17B4 |
| 0.020881381 | 0.060386352 | 55152 | DALRD3 |
| 0.020867173 | 0.060561389 | 7479 | WNT8B |
| 0.020808017 | 0.061294809 | 5331 | PLCB3 |
| 0.020764278 | 0.061841793 | 23247 | KIAA0556 |
| 0.020684691 | 0.06284745 | 283951 | C16orf91 |
| 0.020613741 | 0.063755326 | 286256 | LCN12 |
| 0.020598419 | 0.063952811 | 54795 | TRPM4 |
| 0.020562479 | 0.064417996 | 729220 | FLJ45513 |
| 0.020562295 | 0.064420387 | 139322 | APOOL |
| 0.020541493 | 0.064690918 | 55716 | LMBR1L |
| 0.02047723 | 0.065532602 | 539 | ATP5O |
| 0.020454384 | 0.065834008 | 83937 | RASSF4 |
| 0.020389749 | 0.066692866 | 7465 | WEE1 |
| 0.020383898 | 0.066771053 | 337867 | UBAC2 |
| 0.020261595 | 0.068423077 | 57561 | ARRDC3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.012612613 | 0.94208312 | 0.955 | 1 | 7106 | TSPAN4 |
| -0.012612613 | 0.94208312 | 0.942 | 1 | 10914 | PAPOLA |
| -0.012612613 | 0.94208312 | 0.947 | 1 | 54511 | HMGCLL1 |
| -0.012612613 | 0.94208312 | 0.947 | 1 | 122773 | KLHDC1 |
| -0.012612613 | 0.94208312 | 0.955 | 1 | 100507530 | LOC100507530 |
| -0.012870012 | 0.940891147 | 0.951 | 1 | 4907 | NT5E |
| -0.012870012 | 0.940891147 | 0.94 | 1 | 7399 | USH2A |
| -0.012870012 | 0.940891147 | 0.952 | 1 | 9581 | PREPL |
| -0.012870012 | 0.940891147 | 0.934 | 1 | 26097 | C1orf77 |
| -0.012870012 | 0.940891147 | 0.95 | 1 | 64506 | CPEB1 |
| -0.013127413 | 0.939699411 | 0.95 | 1 | 23061 | TBC1D9B |
| -0.013127413 | 0.939699411 | 0.937 | 1 | 54807 | ZNF586 |
| -0.013127413 | 0.939699411 | 0.957 | 1 | 55180 | LINS |
| -0.013127413 | 0.939699411 | 0.947 | 1 | 57537 | SORCS2 |
| -0.013127413 | 0.939699411 | 0.94 | 1 | 79004 | CUEDC2 |
| -0.013127413 | 0.939699411 | 0.943 | 1 | 84075 | FSCB |
| -0.013127413 | 0.939699411 | 0.946 | 1 | 283345 | RPL13P5 |
| -0.013384813 | 0.938507736 | 0.953 | 1 | 5027 | P2RX7 |
| -0.013384813 | 0.938507736 | 0.93 | 1 | 6830 | SUPT6H |
| -0.013384813 | 0.938507736 | 0.957 | 1 | 8669 | EIF3J |
| -0.013384813 | 0.938507736 | 0.942 | 1 | 26354 | GNL3 |
| -0.013384813 | 0.938507736 | 0.928 | 1 | 27141 | CIDEB |
| -0.013384813 | 0.938507736 | 0.948 | 1 | 169792 | GLIS3 |
| -0.013642213 | 0.937315583 | 0.949 | 1 | 331 | XIAP |
| -0.013642213 | 0.937315583 | 0.94 | 1 | 55200 | PLEKHG6 |
| -0.013642213 | 0.937315583 | 0.944 | 1 | 57175 | CORO1B |
| -0.013642213 | 0.937315583 | 0.942 | 1 | 64423 | INF2 |
| -0.013642213 | 0.937315583 | 0.934 | 1 | 64714 | PDIA2 |
| -0.013642213 | 0.937315583 | 0.942 | 1 | 163590 | TOR1AIP2 |
| -0.013899614 | 0.936124146 | 0.934 | 1 | 891 | CCNB1 |
| -0.013899614 | 0.936124146 | 0.943 | 1 | 2357 | FPR1 |
| -0.013899614 | 0.936124146 | 0.937 | 1 | 5979 | RET |
| -0.013899614 | 0.936124146 | 0.951 | 1 | 6993 | DYNLT1 |
| -0.013899614 | 0.936124146 | 0.92 | 1 | 10648 | SCGB1D1 |
| -0.014157014 | 0.934932947 | 0.928 | 1 | 1442 | CSH1 |
| -0.014157014 | 0.934932947 | 0.941 | 1 | 4284 | MIP |
| -0.014157014 | 0.934932947 | 0.955 | 1 | 22978 | NT5C2 |
| -0.014157014 | 0.934932947 | 0.939 | 1 | 84133 | ZNRF3 |
| -0.014157014 | 0.934932947 | 0.94 | 1 | 84867 | PTPN5 |
| -0.014157014 | 0.934932947 | 0.944 | 1 | 128653 | C20ORF141 |
| -0.014157014 | 0.934932947 | 0.938 | 1 | 284618 | RUSC1-AS1 |
| -0.014414414 | 0.933741808 | 0.946 | 1 | 301 | ANXA1 |
| -0.014414414 | 0.933741808 | 0.925 | 1 | 1153 | CIRBP |
| -0.014414414 | 0.933741808 | 0.947 | 1 | 5195 | PEX14 |
| -0.014414414 | 0.933741808 | 0.943 | 1 | 6942 | TCF20 |
| -0.014414414 | 0.933741808 | 0.931 | 1 | 9312 | KCNB2 |
| -0.014414414 | 0.933741808 | 0.932 | 1 | 10390 | CEPT1 |
| -0.014414414 | 0.933741808 | 0.945 | 1 | 10461 | MERTK |
| -0.014414414 | 0.933741808 | 0.958 | 1 | 29980 | DONSON |
| -0.014414414 | 0.933741808 | 0.939 | 1 | 54832 | VPS13C |
| -0.014414414 | 0.933741808 | 0.941 | 1 | 56413 | LTB4R2 |
| -0.014671815 | 0.932550788 | 0.934 | 1 | 1553 | CYP2A13 |
| -0.014671815 | 0.932550788 | 0.923 | 1 | 6210 | RPS15A |
| -0.014671815 | 0.932550788 | 0.927 | 1 | 11104 | KATNA1 |
| -0.014671815 | 0.932550788 | 0.936 | 1 | 146167 | SLC38A8 |
| -0.014671815 | 0.932550788 | 0.941 | 1 | 389705 | LOC389705 |
| -0.014671815 | 0.932550788 | 0.937 | 1 | 641977 | SEPTIN7P2 |
| -0.014929214 | 0.93135941 | 0.937 | 1 | 1892 | ECHS1 |
| -0.014929214 | 0.93135941 | 0.925 | 1 | 5422 | POLA1 |
| -0.014929214 | 0.93135941 | 0.929 | 1 | 8225 | GTPBP6 |
| -0.014929214 | 0.93135941 | 0.928 | 1 | 8888 | MCM3AP |
| -0.014929214 | 0.93135941 | 0.948 | 1 | 63910 | SLC17A9 |
| -0.014929214 | 0.93135941 | 0.929 | 1 | 150368 | FAM109B |
| -0.014929214 | 0.93135941 | 0.951 | 1 | 401264 | FLJ37798 |
| -0.014929214 | 0.93135941 | 0.927 | 1 | 442117 | GALNTL6 |
| -0.015186615 | 0.930168748 | 0.932 | 1 | 6548 | SLC9A1 |
| -0.015186615 | 0.930168748 | 0.932 | 1 | 10929 | SRSF8 |
| -0.015186615 | 0.930168748 | 0.938 | 1 | 79621 | RNASEH2B |
| -0.015444015 | 0.928978145 | 0.94 | 1 | 1366 | CLDN7 |
| -0.015444015 | 0.928978145 | 0.933 | 1 | 2259 | FGF14 |
| -0.015444015 | 0.928978145 | 0.93 | 1 | 23633 | KPNA6 |
| -0.015444015 | 0.928978145 | 0.923 | 1 | 54600 | UGT1A9 |
| -0.015444015 | 0.928978145 | 0.943 | 1 | 139231 | CXorf39 |
| -0.015444015 | 0.928978145 | 0.945 | 1 | 157378 | TMEM65 |
| -0.015701415 | 0.927787781 | 0.925 | 1 | 84752 | B3GNT9 |
| -0.015701415 | 0.927787781 | 0.925 | 1 | 140832 | WFDC10A |
| -0.015701415 | 0.927787781 | 0.947 | 1 | 285641 | SLC36A3 |
| -0.015701415 | 0.927787781 | 0.937 | 1 | 348840 | AC073135.1 |
| -0.015958816 | 0.926596999 | 0.929 | 1 | 9604 | RNF14 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.020222683 | 0.068955675 | 199 | AIF1 |
| 0.020207824 | 0.069159947 | 54918 | CMTM6 |
| 0.02016037 | 0.069815643 | 54881 | TEX10 |
| 0.020038344 | 0.071525201 | 64374 | SIL1 |
| 0.020027293 | 0.071681716 | 151354 | FAM84A |
| 0.020008627 | 0.071946688 | 55345 | C4orf21 |
| 0.020006491 | 0.071977057 | 158 | ADSL |
| 0.02000222 | 0.072037823 | 54784 | ALKBH4 |
| 0.019990982 | 0.072197907 | 100289410 | MCF2L-AS1 |
| 0.019968603 | 0.072517566 | 27327 | TNRC6A |
| 0.019940741 | 0.072917171 | 10880 | ACTL7B |
| 0.019930063 | 0.073070817 | 374907 | B3GNT8 |
| 0.019827724 | 0.074556567 | 92293 | TMEM132C |
| 0.019770427 | 0.075399131 | 284288 | RSL24D1P11 |
| 0.019707741 | 0.07632982 | 27006 | FGF22 |
| 0.019665487 | 0.076962434 | 7919 | BAT1 |
| 0.01965685 | 0.07709226 | 596 | BCL2 |
| 0.019631313 | 0.077477179 | 22876 | INPP5F |
| 0.019629177 | 0.077509485 | 22868 | FASTKD2 |
| 0.019573644 | 0.078352205 | 25886 | WDR51A |
| 0.019544855 | 0.078792043 | 79100 | RP1-10C16.2 |
| 0.019524053 | 0.079111099 | 8883 | NAE1 |
| 0.019505851 | 0.079391122 | 11133 | KPTN |
| 0.019446231 | 0.080313995 | 28964 | GIT1 |
| 0.019434344 | 0.080499023 | 283659 | PRTG |
| 0.019431464 | 0.080543905 | 26064 | RAI14 |
| 0.0194271 | 0.080611952 | 389827 | TMEM8C |
| 0.019419579 | 0.080729365 | 220382 | FAM181B |
| 0.019406112 | 0.080939926 | 100132977 | LOC100132977 |
| 0.019375375 | 0.081422128 | 1760 | DMPK |
| 0.019340642 | 0.081969827 | 23272 | C3orf63 |
| 0.019333214 | 0.082087353 | 5378 | PMS1 |
| 0.019329591 | 0.082144715 | 1508 | CTSB |
| 0.01924824 | 0.083441474 | 384 | ARG2 |
| 0.019185556 | 0.084451936 | 8763 | CD164 |
| 0.019168098 | 0.08473511 | 5657 | PRTN3 |
| 0.019141445 | 0.08516892 | 113201 | CASC4 |
| 0.01912055 | 0.085510269 | 6687 | SPG7 |
| 0.019100027 | 0.085846588 | 55748 | CNDP2 |
| 0.019058423 | 0.086531714 | 2121 | EVC |
| 0.019050807 | 0.086657621 | 7753 | ZNF202 |
| 0.019040778 | 0.086823612 | 23423 | TMED3 |
| 0.019032978 | 0.08695291 | 144608 | C12orf60 |
| 0.019016169 | 0.087232031 | 3329 | HSPD1 |
| 0.019005861 | 0.087403573 | 63924 | CIDEC |
| 0.019005675 | 0.087406673 | 23499 | MACF1 |
| 0.018955247 | 0.088249788 | 23096 | IQSEC2 |
| 0.018859411 | 0.0898702 | 55798 | METTL2B |
| 0.018853189 | 0.089976221 | 3881 | KRT31 |
| 0.018797655 | 0.090927012 | 22977 | AKR7A3 |
| 0.018777039 | 0.09128204 | 4552 | MTRR |
| 0.018726705 | 0.092153475 | 148229 | ATP8B3 |
| 0.018715933 | 0.09234082 | 341567 | H1FNT |
| 0.018697731 | 0.092658088 | 79839 | CCDC102B |
| 0.018594092 | 0.094481401 | 9266 | CYTH2 |
| 0.01850977 | 0.095985986 | 4714 | NDUFB8 |
| 0.018475782 | 0.096597835 | 26166 | RGS22 |
| 0.018471416 | 0.096676677 | 9771 | RAPGEF5 |
| 0.018403346 | 0.097912237 | 116844 | LRG1 |
| 0.018396288 | 0.09804105 | 219972 | MPEG1 |
| 0.018373257 | 0.098462395 | 389 | RHOC |
| 0.018351713 | 0.098857857 | 91057 | CCDC34 |
| 0.018332025 | 0.099220313 | 26589 | MRPL46 |
| 0.018204242 | 0.101598777 | 9723 | SEMA3E |
| 0.018113604 | 0.103313252 | 5283 | PIGH |
| 0.018095959 | 0.103649683 | 399761 | BMS1P5 |
| 0.017955082 | 0.10636694 | 9727 | RAB11FIP3 |
| 0.017950717 | 0.106452025 | 57593 | EBF4 |
| 0.017918121 | 0.10708914 | 2124 | EVI2B |
| 0.017912457 | 0.107200168 | 375287 | RBM43 |
| 0.01790995 | 0.10724929 | 55788 | LMBRD1 |
| 0.017898155 | 0.107480854 | 11118 | BTN3A2 |
| 0.017880788 | 0.107822493 | 1200 | TPP1 |
| 0.017821448 | 0.108996384 | 25996 | REXO2 |
| 0.01781179 | 0.109188385 | 10079 | ATP9A |
| 0.017795539 | 0.109512083 | 10775 | POP4 |
| 0.017781144 | 0.10979943 | 286103 | C8ORF77 |
| 0.01778068 | 0.109808683 | 100506060 | LOC100506060 |
| 0.017612221 | 0.113216214 | 83879 | CDCA7 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.015958816 | 0.926596999 | 0.927 | 1 | 283820 | NOMO2 |
| -0.015958816 | 0.926596999 | 0.943 | 1 | 728489 | DNLZ |
| -0.016216217 | 0.925406933 | 0.927 | 1 | 4026 | LPP |
| -0.016216217 | 0.925406933 | 0.922 | 1 | 6231 | RPS26P20 |
| -0.016216217 | 0.925406933 | 0.924 | 1 | 9113 | LATS1 |
| -0.016216217 | 0.925406933 | 0.928 | 1 | 56902 | PNO1 |
| -0.016216217 | 0.925406933 | 0.932 | 1 | 84146 | ZNF644 |
| -0.016216217 | 0.925406933 | 0.932 | 1 | 283687 | AC015871.2 |
| -0.016473617 | 0.924217045 | 0.923 | 1 | 3709 | ITPR2 |
| -0.016473617 | 0.924217045 | 0.93 | 1 | 22908 | SACM1L |
| -0.016473617 | 0.924217045 | 0.923 | 1 | 89876 | C3orf15 |
| -0.016473617 | 0.924217045 | 0.923 | 1 | 221303 | FAM162B |
| -0.016473617 | 0.924217045 | 0.907 | 1 | 441161 | OOEP |
| -0.016731016 | 0.923027277 | 0.923 | 1 | 1815 | DRD4 |
| -0.016731016 | 0.923027277 | 0.919 | 1 | 7392 | USF2 |
| -0.016731016 | 0.923027277 | 0.93 | 1 | 22852 | ANKRD26 |
| -0.016731016 | 0.923027277 | 0.921 | 1 | 56243 | KIAA1217 |
| -0.016731016 | 0.923027277 | 0.933 | 1 | 79650 | C16orf57 |
| -0.016731016 | 0.923027277 | 0.933 | 1 | 165186 | FAM179A |
| -0.016731016 | 0.923027277 | 0.919 | 1 | 333926 | PPM1J |
| -0.016988415 | 0.921837151 | 0.93 | 1 | 5984 | RFC4 |
| -0.016988415 | 0.921837151 | 0.923 | 1 | 10814 | CPLX2 |
| -0.016988415 | 0.921837151 | 0.924 | 1 | 23135 | KDM6B |
| -0.016988415 | 0.921837151 | 0.943 | 1 | 26018 | LRIG1 |
| -0.016988415 | 0.921837151 | 0.919 | 1 | 54943 | DNAJC28 |
| -0.016988415 | 0.921837151 | 0.929 | 1 | 164714 | TTLL8 |
| -0.016988415 | 0.921837151 | 0.927 | 1 | 653390 | AC009093.1 |
| -0.017245818 | 0.92064774 | 0.93 | 1 | 3108 | HLA-DMA |
| -0.017245818 | 0.92064774 | 0.918 | 1 | 5250 | SLC25A3 |
| -0.017245818 | 0.92064774 | 0.925 | 1 | 64377 | CHST8 |
| -0.017245818 | 0.92064774 | 0.925 | 1 | 171586 | ABHD3 |
| -0.017503217 | 0.919458449 | 0.919 | 1 | 3281 | HSBP1 |
| -0.017503217 | 0.919458449 | 0.921 | 1 | 23382 | AHCYL2 |
| -0.017503217 | 0.919458449 | 0.916 | 1 | 116254 | C6orf72 |
| -0.017503217 | 0.919458449 | 0.924 | 1 | 283989 | TSEN54 |
| -0.017503217 | 0.919458449 | 0.918 | 1 | 338321 | NLRP9 |
| -0.017503217 | 0.919458449 | 0.931 | 1 | 441795 | HMGB3P27 |
| -0.017760618 | 0.918269455 | 0.938 | 1 | 970 | CD70 |
| -0.017760618 | 0.918269455 | 0.929 | 1 | 4076 | CAPRIN1 |
| -0.017760618 | 0.918269455 | 0.927 | 1 | 7508 | XPC |
| -0.017760618 | 0.918269455 | 0.925 | 1 | 9607 | CARTPT |
| -0.017760618 | 0.918269455 | 0.918 | 1 | 54886 | PPAPR3 |
| -0.017760618 | 0.918269455 | 0.923 | 1 | 79577 | CDC73 |
| -0.017760618 | 0.918269455 | 0.935 | 1 | 83882 | TSPAN10 |
| -0.017760618 | 0.918269455 | 0.919 | 1 | 84109 | QRFPR |
| -0.018018018 | 0.917080581 | 0.917 | 1 | 326 | AIRE |
| -0.018018018 | 0.917080581 | 0.91 | 1 | 2042 | EPHA3 |
| -0.018018018 | 0.917080581 | 0.927 | 1 | 79661 | NEIL1 |
| -0.018275417 | 0.91589123 | 0.913 | 1 | 26993 | AKAP8L |
| -0.018275417 | 0.91589123 | 0.915 | 1 | 56154 | TEX15 |
| -0.018275417 | 0.91589123 | 0.915 | 1 | 79947 | DHDDS |
| -0.018275417 | 0.91589123 | 0.918 | 1 | 388325 | SCIMP |
| -0.018532818 | 0.914702773 | 0.928 | 1 | 1258 | CNGB1 |
| -0.018532818 | 0.914702773 | 0.921 | 1 | 4054 | LTBP3 |
| -0.018532818 | 0.914702773 | 0.93 | 1 | 5970 | RELA |
| -0.018532818 | 0.914702773 | 0.92 | 1 | 9179 | AP4M1 |
| -0.018532818 | 0.914702773 | 0.928 | 1 | 9538 | EI24 |
| -0.018532818 | 0.914702773 | 0.933 | 1 | 10599 | SLCO1B1 |
| -0.018532818 | 0.914702773 | 0.923 | 1 | 55520 | ELAC1 |
| -0.018532818 | 0.914702773 | 0.947 | 1 | 340390 | KIAA1875 |
| -0.018790217 | 0.913514376 | 0.911 | 1 | 690 | BTF3P11 |
| -0.018790217 | 0.913514376 | 0.923 | 1 | 5264 | PHYH |
| -0.018790217 | 0.913514376 | 0.911 | 1 | 10671 | DCTN6 |
| -0.018790217 | 0.913514376 | 0.919 | 1 | 28978 | TMEM14A |
| -0.018790217 | 0.913514376 | 0.919 | 1 | 81551 | STMN4 |
| -0.018790217 | 0.913514376 | 0.921 | 1 | 119692 | OR51S1 |
| -0.01904762 | 0.912326217 | 0.913 | 1 | 10945 | KDELR1 |
| -0.01904762 | 0.912326217 | 0.923 | 1 | 27301 | APEX2 |
| -0.01904762 | 0.912326217 | 0.927 | 1 | 57396 | CLK4 |
| -0.01904762 | 0.912326217 | 0.924 | 1 | 127544 | RNF19B |
| -0.01904762 | 0.912326217 | 0.915 | 1 | 100288252 | LOC100288252 |
| -0.019305019 | 0.91113776 | 0.925 | 1 | 4609 | MYC |
| -0.019305019 | 0.91113776 | 0.925 | 1 | 10342 | TFG |
| -0.019305019 | 0.91113776 | 0.931 | 1 | 57084 | SLC17A6 |
| -0.019305019 | 0.91113776 | 0.911 | 1 | 66000 | TMEM108 |
| -0.019305019 | 0.91113776 | 0.926 | 1 | 80045 | GPR157 |
| -0.019305019 | 0.91113776 | 0.921 | 1 | 162394 | SLFN5 |
| -0.019562418 | 0.909949899 | 0.929 | 1 | 5890 | RAD51L1 |
| -0.019562418 | 0.909949899 | 0.918 | 1 | 9476 | NAPSA |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| 0.017492702 | 0.115683816 | 26750 | RPS6KC1 |
| 0.017487872 | 0.115784451 | 50804 | MYEF2 |
| 0.017441161 | 0.116760969 | 8518 | IKBKAP |
| 0.017361669 | 0.118437618 | 57393 | TMEM27 |
| 0.017357768 | 0.118520372 | 91949 | COG7 |
| 0.017345788 | 0.118774801 | 51163 | DBR1 |
| 0.017331116 | 0.11908704 | 51265 | CDKL3 |
| 0.017280782 | 0.120163001 | 23101 | MCF2L2 |
| 0.017204538 | 0.121807307 | 55503 | TRPV6 |
| 0.017186059 | 0.122208461 | 27333 | GOLIM4 |
| 0.017160427 | 0.122766629 | 85478 | CCDC65 |
| 0.017156526 | 0.122851714 | 23770 | FKBP8 |
| 0.017121052 | 0.123627901 | 5438 | POLR2I |
| 0.017104615 | 0.123988844 | 340260 | UNCX |
| 0.017081955 | 0.12448775 | 9209 | LRRFIP2 |
| 0.017067747 | 0.12480142 | 283726 | FAM154B |
| 0.01698621 | 0.12661323 | 253738 | EBF3 |
| 0.016944699 | 0.127543435 | 79144 | PPDPF |
| 0.016940614 | 0.12763527 | 1748 | DLX4 |
| 0.016916746 | 0.128172845 | 10576 | CCT2 |
| 0.016877186 | 0.129067734 | 4946 | OAZ1 |
| 0.016876722 | 0.129078254 | 661 | POLR3D |
| 0.016872915 | 0.129164636 | 283953 | TMEM114 |
| 0.016829638 | 0.130149707 | 83549 | UCK1 |
| 0.016742809 | 0.132143676 | 729317 | LOC729317 |
| 0.016736308 | 0.13229391 | 337963 | KRTAP23-1 |
| 0.016731201 | 0.132412031 | 79739 | TTLL7 |
| 0.016703341 | 0.133057833 | 57659 | ZBTB4 |
| 0.016627004 | 0.134839758 | 27347 | STK39 |
| 0.016576115 | 0.136037871 | 121130 | OR10P1 |
| 0.016567757 | 0.136235446 | 25758 | C11orf41 |
| 0.016563484 | 0.13633655 | 55353 | LAPTM4B |
| 0.01652188 | 0.137323812 | 23089 | PEG10 |
| 0.016477583 | 0.138381109 | 26267 | FBXO10 |
| 0.016436815 | 0.139359608 | 90527 | DUOXA1 |
| 0.01635333 | 0.141380057 | 780776 | FAM18A |
| 0.016314046 | 0.142338574 | 151188 | ARL6IP6 |
| 0.016282657 | 0.14310801 | 79998 | ANKRD53 |
| 0.016255263 | 0.143782139 | 51016 | FAM158A |
| 0.016255263 | 0.143782139 | 121256 | TMEM132D |
| 0.016224617 | 0.144539148 | 23336 | SYNM |
| 0.016223503 | 0.1445667 | 81442 | OR6N2 |
| 0.016204372 | 0.145040914 | 8887 | TAX1BP1 |
| 0.016057551 | 0.148719877 | 149685 | ADIG |
| 0.016054951 | 0.148785651 | 5825 | ABCD3 |
| 0.016038699 | 0.14919737 | 731220 | AC099797.1 |
| 0.016012697 | 0.149857923 | 55286 | C4orf19 |
| 0.015942212 | 0.151659608 | 25904 | CNOT10 |
| 0.015934411 | 0.151860014 | 580 | BARD1 |
| 0.015857518 | 0.153846294 | 5625 | PRODH |
| 0.015841359 | 0.154266179 | 84904 | C9orf100 |
| 0.015821207 | 0.154791102 | 147081 | AC126544.1 |
| 0.015815914 | 0.154929176 | 401551 | WDR38 |
| 0.015806349 | 0.155178934 | 1112 | FOXN3 |
| 0.015758244 | 0.156439781 | 7323 | UBE2D3 |
| 0.015725184 | 0.157310784 | 219771 | CCNY |
| 0.015696859 | 0.15805997 | 22796 | COG2 |
| 0.015676707 | 0.158594623 | 23245 | ASTN2 |
| 0.015665656 | 0.158888429 | 390010 | NKX1-2 |
| 0.015641976 | 0.159519255 | 9941 | EXOG |
| 0.015603436 | 0.160550073 | 24150 | TP53TG3 |
| 0.015523015 | 0.162717298 | 605 | BCL7A |
| 0.015518836 | 0.162830502 | 1674 | DES |
| 0.015401174 | 0.166042596 | 152078 | C3orf55 |
| 0.015369878 | 0.166904971 | 79587 | CARS2 |
| 0.015367093 | 0.166981846 | 4736 | RPL10A |
| 0.015355855 | 0.167292401 | 751071 | METTL12 |
| 0.015311837 | 0.168513104 | 51564 | HDAC7 |
| 0.015259832 | 0.169963881 | 23112 | TNRC6B |
| 0.015253982 | 0.17012766 | 53938 | PPIL3 |
| 0.01525166 | 0.170192733 | 55785 | FGD6 |
| 0.015250453 | 0.170226544 | 51399 | TRAPPC4 |
| 0.015235965 | 0.170632854 | 8602 | NOP14 |
| 0.01518721 | 0.172005475 | 8564 | KMO |
| 0.01518684 | 0.17201592 | 259296 | TAS2R50 |
| 0.01516678 | 0.172583103 | 51481 | VCX3A |
| 0.015105767 | 0.174316764 | 84077 | C3orf20 |
| 0.015017823 | 0.176838547 | 440905 | AC018865.8 |
| 0.014932665 | 0.179306209 | 400013 | TCP1P3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.019562418 | 0.909949899 | 0.924 | 1 | 10607 | TBL3 |
| -0.019562418 | 0.909949899 | 0.914 | 1 | 23217 | ZFR2 |
| -0.019562418 | 0.909949899 | 0.927 | 1 | 29802 | VPREB3 |
| -0.019562418 | 0.909949899 | 0.921 | 1 | 57555 | NLGN2 |
| -0.019562418 | 0.909949899 | 0.924 | 1 | 92737 | DNER |
| -0.019562418 | 0.909949899 | 0.923 | 1 | 150372 | NFAM1 |
| -0.019562418 | 0.909949899 | 0.928 | 1 | 390151 | OR8H2 |
| -0.019562418 | 0.909949899 | 0.931 | 1 | 100131733 | USP30-AS1 |
| -0.01981982 | 0.908762395 | 0.908 | 1 | 5606 | MAP2K3 |
| -0.01981982 | 0.908762395 | 0.92 | 1 | 6518 | SLC2A5 |
| -0.01981982 | 0.908762395 | 0.905 | 1 | 9149 | DYRK1B |
| -0.01981982 | 0.908762395 | 0.907 | 1 | 10926 | DBF4 |
| -0.01981982 | 0.908762395 | 0.912 | 1 | 22877 | MLXIP |
| -0.01981982 | 0.908762395 | 0.92 | 1 | 79830 | ZMYM1 |
| -0.01981982 | 0.908762395 | 0.909 | 1 | 81876 | RAB1B |
| -0.01981982 | 0.908762395 | 0.928 | 1 | 199699 | DAND5 |
| -0.01981982 | 0.908762395 | 0.913 | 1 | 282617 | IL28B |
| -0.01981982 | 0.908762395 | 0.909 | 1 | 389813 | AL355987.1 |
| -0.020077219 | 0.907574952 | 0.909 | 1 | 6547 | SLC8A3 |
| -0.020077219 | 0.907574952 | 0.918 | 1 | 10637 | LEFTY1 |
| -0.020077219 | 0.907574952 | 0.899 | 1 | 10948 | STARD3 |
| -0.020077219 | 0.907574952 | 0.917 | 1 | 259282 | BOD1L |
| -0.020077219 | 0.907574952 | 0.914 | 1 | 282809 | WDR51B |
| -0.020077219 | 0.907574952 | 0.937 | 1 | 440193 | CCDC88C |
| -0.02033462 | 0.906387269 | 0.919 | 1 | 4045 | LSAMP |
| -0.02033462 | 0.906387269 | 0.904 | 1 | 5101 | PCDH9 |
| -0.02033462 | 0.906387269 | 0.926 | 1 | 8844 | KSR1 |
| -0.02033462 | 0.906387269 | 0.917 | 1 | 22849 | CPEB3 |
| -0.02033462 | 0.906387269 | 0.921 | 1 | 43847 | KLK14 |
| -0.02033462 | 0.906387269 | 0.935 | 1 | 55972 | SLC25A40 |
| -0.02033462 | 0.906387269 | 0.921 | 1 | 129531 | MITD1 |
| -0.02033462 | 0.906387269 | 0.904 | 1 | 135941 | OR2A14 |
| -0.02033462 | 0.906387269 | 0.923 | 1 | 497661 | C18orf32 |
| -0.020592021 | 0.905200243 | 0.895 | 1 | 2741 | GLRA1 |
| -0.020592021 | 0.905200243 | 0.922 | 1 | 27306 | PGDS |
| -0.020849422 | 0.904013515 | 0.924 | 1 | 5923 | RASGRF1 |
| -0.020849422 | 0.904013515 | 0.921 | 1 | 94086 | HSPB9 |
| -0.020849422 | 0.904013515 | 0.902 | 1 | 284800 | C20orf91 |
| -0.021106821 | 0.902826905 | 0.911 | 1 | 3972 | LHB |
| -0.021106821 | 0.902826905 | 0.913 | 1 | 11107 | PRDM5 |
| -0.021106821 | 0.902826905 | 0.924 | 1 | 23357 | ANGEL1 |
| -0.021106821 | 0.902826905 | 0.912 | 1 | 54718 | BTN2A3 |
| -0.021106821 | 0.902826905 | 0.902 | 1 | 89801 | PPP1R3F |
| -0.021106821 | 0.902826905 | 0.911 | 1 | 112616 | CMTM7 |
| -0.021364219 | 0.901640594 | 0.912 | 1 | 5539 | PPY |
| -0.021364219 | 0.901640594 | 0.906 | 1 | 9143 | SYNGR3 |
| -0.021364219 | 0.901640594 | 0.917 | 1 | 11244 | ZHX1 |
| -0.021364219 | 0.901640594 | 0.916 | 1 | 23590 | PDSS1 |
| -0.021364219 | 0.901640594 | 0.901 | 1 | 57035 | C1orf63 |
| -0.021364219 | 0.901640594 | 0.906 | 1 | 643376 | AP001931.1 |
| -0.021621622 | 0.900453925 | 0.916 | 1 | 2248 | FGF3 |
| -0.021621622 | 0.900453925 | 0.902 | 1 | 3704 | ITPA |
| -0.021621622 | 0.900453925 | 0.898 | 1 | 23304 | UBR2 |
| -0.021621622 | 0.900453925 | 0.914 | 1 | 113179 | ADAT3 |
| -0.021621622 | 0.900453925 | 0.904 | 1 | 121340 | SP7 |
| -0.021621622 | 0.900453925 | 0.906 | 1 | 203069 | R3HCC1 |
| -0.021621622 | 0.900453925 | 0.902 | 1 | 441818 | WBP11P1 |
| -0.021621622 | 0.900453925 | 0.909 | 1 | 442075 | AC034193.5 |
| -0.021621622 | 0.900453925 | 0.873 | 1 | 728666 | PRELID1P1 |
| -0.021879021 | 0.899267972 | 0.902 | 1 | 6192 | RPS4Y1 |
| -0.021879021 | 0.899267972 | 0.921 | 1 | 10445 | MCRS1 |
| -0.021879021 | 0.899267972 | 0.896 | 1 | 25828 | TXN2 |
| -0.021879021 | 0.899267972 | 0.92 | 1 | 25862 | USP49 |
| -0.021879021 | 0.899267972 | 0.918 | 1 | 27102 | EIF2AK1 |
| -0.021879021 | 0.899267972 | 0.907 | 1 | 317754 | POTED |
| -0.022136422 | 0.898082256 | 0.894 | 1 | 900 | CCNG1 |
| -0.022136422 | 0.898082256 | 0.917 | 1 | 3227 | HOXC11 |
| -0.022136422 | 0.898082256 | 0.905 | 1 | 4734 | NEDD4 |
| -0.022136422 | 0.898082256 | 0.913 | 1 | 6239 | RREB1 |
| -0.022136422 | 0.898082256 | 0.896 | 1 | 23194 | FBXL7 |
| -0.022136422 | 0.898082256 | 0.901 | 1 | 64319 | FBRS |
| -0.022136422 | 0.898082256 | 0.906 | 1 | 161145 | C14orf83 |
| -0.022136422 | 0.898082256 | 0.906 | 1 | 196463 | PLBD2 |
| -0.022136422 | 0.898082256 | 0.904 | 1 | 203245 | NAIF1 |
| -0.022393823 | 0.89689672 | 0.904 | 1 | 777 | CACNA1E |
| -0.022393823 | 0.89689672 | 0.9 | 1 | 6992 | PPP1R11 |
| -0.022393823 | 0.89689672 | 0.907 | 1 | 10107 | TRIM10 |
| -0.022393823 | 0.89689672 | 0.905 | 1 | 80256 | KIAA1539 |
| -0.022393823 | 0.89689672 | 0.89 | 1 | 116379 | IL22RA2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.01486088 | 0.181406185 | 202151 | RANBP3L |
| 0.014800517 | 0.183186069 | 84891 | ZSCAN10 |
| 0.014793366 | 0.18339777 | 137492 | VPS37A |
| 0.014765785 | 0.184216022 | 5875 | RABGGTA |
| 0.014716473 | 0.185685724 | 64645 | HIAT1 |
| 0.014708951 | 0.185910702 | 55222 | LRRC20 |
| 0.01470245 | 0.186105281 | 6730 | SRP68 |
| 0.01467942 | 0.186795801 | 22919 | MAPRE1 |
| 0.014659082 | 0.187407166 | 284802 | FRG1B |
| 0.014608656 | 0.188929319 | 81488 | GRINL1A |
| 0.014545135 | 0.19085972 | 9092 | SART1 |
| 0.014509382 | 0.191952631 | 23095 | KIF1B |
| 0.014502789 | 0.192154661 | 30011 | SH3KBP1 |
| 0.014437689 | 0.194157988 | 8892 | EIF2B2 |
| 0.014434811 | 0.194246963 | 5212 | VIT |
| 0.014408065 | 0.195074692 | 643332 | AL355922.1 |
| 0.014382434 | 0.195870399 | 9419 | CRIPT |
| 0.014312877 | 0.198041677 | 129446 | XIRP2 |
| 0.014302198 | 0.198376611 | 83694 | RPS6KL1 |
| 0.014276845 | 0.199173316 | 56704 | JPH1 |
| 0.014205338 | 0.201433167 | 3184 | HNRNPD |
| 0.014125288 | 0.20398508 | 29928 | TIMM22 |
| 0.014105415 | 0.204622254 | 92129 | RIPPLY1 |
| 0.014103093 | 0.204696819 | 151835 | CPNE9 |
| 0.014061489 | 0.206035748 | 26471 | NUPR1 |
| 0.014058517 | 0.206131622 | 23625 | FAM89B |
| 0.014052667 | 0.20632048 | 645996 | NAP1L6 |
| 0.014039852 | 0.206734583 | 440278 | CATSPER2P1 |
| 0.013980696 | 0.208654061 | 27089 | UQCRQ |
| 0.013966209 | 0.209126055 | 115908 | CTHRC1 |
| 0.013962494 | 0.209247202 | 8607 | RUVBL1 |
| 0.013921262 | 0.210595474 | 84332 | DYDC2 |
| 0.013917733 | 0.210711122 | 26683 | OR4F3 |
| 0.013880401 | 0.211937815 | 79134 | TMEM185B |
| 0.0138752 | 0.212109044 | 57107 | PDSS2 |
| 0.013855699 | 0.212752298 | 55143 | CDCA8 |
| 0.013746395 | 0.216383293 | 10071 | MUC12 |
| 0.013734694 | 0.216774598 | 23381 | SMG5 |
| 0.013718628 | 0.217312753 | 10647 | SCGB1D2 |
| 0.013625948 | 0.220435932 | 8794 | TNFRSF10C |
| 0.01361954 | 0.220653042 | 79794 | C12orf49 |
| 0.013592609 | 0.221567228 | 2827 | GPR3 |
| 0.013541626 | 0.223305255 | 64106 | NPFFR1 |
| 0.013521845 | 0.2239822 | 5631 | PRPS1 |
| 0.013508008 | 0.224456653 | 494470 | RNF165 |
| 0.01336778 | 0.229305059 | 729359 | KIAA1881 |
| 0.013327848 | 0.230699241 | 83478 | ARHGAP24 |
| 0.013301474 | 0.231623396 | 3163 | HMOX2 |
| 0.013285779 | 0.232174546 | 6120 | RPE |
| 0.013249841 | 0.233440146 | 26149 | ZNF658 |
| 0.013232196 | 0.234063357 | 10254 | STAM2 |
| 0.013212973 | 0.23474355 | 51528 | JKAMP |
| 0.013134966 | 0.237518385 | 64429 | ZDHHC6 |
| 0.013077945 | 0.23956123 | 1524 | CX3CR1 |
| 0.013056122 | 0.240346387 | 64145 | ZFYVE20 |
| 0.013037549 | 0.241016045 | 6018 | RLF |
| 0.012990559 | 0.242716104 | 79987 | SVEP1 |
| 0.012944312 | 0.244397432 | 55064 | C9orf68 |
| 0.012816343 | 0.249092445 | 121551 | BTBD11 |
| 0.012785882 | 0.250219285 | 64174 | DPEP2 |
| 0.012664042 | 0.254761875 | 501 | ALDH7A1 |
| 0.012613988 | 0.256644636 | 146 | ADRA1D |
| 0.012594114 | 0.257394791 | 9491 | PSMF1 |
| 0.012574426 | 0.258139431 | 5589 | PRKCSH |
| 0.012563375 | 0.258558124 | 344657 | LRRIQ4 |
| 0.012545545 | 0.259234518 | 57117 | INTS12 |
| 0.012531336 | 0.259774446 | 63894 | C14orf133 |
| 0.01243392 | 0.263497353 | 83460 | TMEM93 |
| 0.012417668 | 0.264121979 | 10438 | C1D |
| 0.012416647 | 0.264161289 | 554226 | NCRNA00164 |
| 0.012398631 | 0.264854968 | 219623 | TMEM26 |
| 0.012395381 | 0.264980257 | 80011 | C16orf94 |
| 0.01236975 | 0.265969634 | 10109 | ARPC2 |
| 0.012360278 | 0.266335994 | 10114 | HIPK3 |
| 0.012317837 | 0.26798138 | 282974 | STK32C |
| 0.012232865 | 0.271296769 | 90624 | LYRM7 |
| 0.012217357 | 0.271904916 | 8751 | ADAM15 |
| 0.012190518 | 0.272959441 | 6624 | FSCN1 |
| 0.012183925 | 0.27321896 | 5352 | PLOD2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.022651222 | 0.895710945 | 0.908 | 1 | 5457 | POU4F1 |
| -0.022651222 | 0.895710945 | 0.898 | 1 | 11316 | COPE |
| -0.022651222 | 0.895710945 | 0.902 | 1 | 79094 | CHAC1 |
| -0.022651222 | 0.895710945 | 0.894 | 1 | 80210 | ARMC9 |
| -0.022651222 | 0.895710945 | 0.914 | 1 | 124460 | SNX20 |
| -0.022651222 | 0.895710945 | 0.885 | 1 | 284521 | OR2L13 |
| -0.022908622 | 0.894525886 | 0.909 | 1 | 957 | ENTPD5 |
| -0.022908622 | 0.894525886 | 0.901 | 1 | 9464 | HAND2 |
| -0.022908622 | 0.894525886 | 0.899 | 1 | 89866 | SEC16B |
| -0.022908622 | 0.894525886 | 0.915 | 1 | 100272217 | LOC100272217 |
| -0.023166021 | 0.893341064 | 0.904 | 1 | 9700 | ESPL1 |
| -0.023166021 | 0.893341064 | 0.898 | 1 | 10330 | CNPY2 |
| -0.023166021 | 0.893341064 | 0.897 | 1 | 55958 | KLHL9 |
| -0.023166021 | 0.893341064 | 0.903 | 1 | 643418 | LIPN |
| -0.023423424 | 0.892156482 | 0.897 | 1 | 23071 | ERP44 |
| -0.023423424 | 0.892156482 | 0.898 | 1 | 27030 | MLH3 |
| -0.023423424 | 0.892156482 | 0.896 | 1 | 51084 | CRYL1 |
| -0.023423424 | 0.892156482 | 0.902 | 1 | 51727 | CMPK1 |
| -0.023423424 | 0.892156482 | 0.905 | 1 | 64773 | FAM113A |
| -0.023423424 | 0.892156482 | 0.905 | 1 | 148266 | ZNF569 |
| -0.023423424 | 0.892156482 | 0.909 | 1 | 163049 | ZNF791 |
| -0.023423424 | 0.892156482 | 0.897 | 1 | 284114 | TMEM102 |
| -0.023423424 | 0.892156482 | 0.89 | 1 | 677769 | SCARNA17 |
| -0.023680823 | 0.890971541 | 0.896 | 1 | 727 | C5 |
| -0.023680823 | 0.890971541 | 0.896 | 1 | 5701 | PSMC2 |
| -0.023680823 | 0.890971541 | 0.879 | 1 | 9421 | HAND1 |
| -0.023680823 | 0.890971541 | 0.899 | 1 | 65124 | ANKRD57 |
| -0.023680823 | 0.890971541 | 0.919 | 1 | 83540 | NUF2 |
| -0.023680823 | 0.890971541 | 0.901 | 1 | 92293 | TMEM132C |
| -0.023680823 | 0.890971541 | 0.899 | 1 | 283643 | C14orf80 |
| -0.023938224 | 0.889787495 | 0.897 | 1 | 3017 | HIST1H2BD |
| -0.023938224 | 0.889787495 | 0.917 | 1 | 28998 | MRPL13 |
| -0.023938224 | 0.889787495 | 0.886 | 1 | 284371 | ZNF841 |
| -0.023938224 | 0.889787495 | 0.887 | 1 | 100038246 | TLX1NB |
| -0.023938224 | 0.889787495 | 0.896 | 1 | 100130958 | AC009139.1 |
| -0.023938224 | 0.889787495 | 0.894 | 1 | 100132733 | ANKRD20A13P |
| -0.024195625 | 0.888603628 | 0.911 | 1 | 1454 | CSNK1E |
| -0.024195625 | 0.888603628 | 0.905 | 1 | 6236 | RRAD |
| -0.024453023 | 0.887419939 | 0.887 | 1 | 686 | BTD |
| -0.024453023 | 0.887419939 | 0.891 | 1 | 29107 | NXT1 |
| -0.024453023 | 0.887419939 | 0.895 | 1 | 51406 | NOL7 |
| -0.024453023 | 0.887419939 | 0.9 | 1 | 113130 | CDCA5 |
| -0.024710424 | 0.886236548 | 0.904 | 1 | 5819 | PVRL2 |
| -0.024710424 | 0.886236548 | 0.894 | 1 | 58500 | ZNF250 |
| -0.024710424 | 0.886236548 | 0.882 | 1 | 81558 | FAM117A |
| -0.024710424 | 0.886236548 | 0.897 | 1 | 652904 | CKS1BP6 |
| -0.024967825 | 0.88505286 | 0.891 | 1 | 51127 | TRIM17 |
| -0.024967825 | 0.88505286 | 0.909 | 1 | 55721 | IQCC |
| -0.024967825 | 0.88505286 | 0.902 | 1 | 93650 | ACPT |
| -0.024967825 | 0.88505286 | 0.905 | 1 | 151325 | MYADML |
| -0.025225226 | 0.883869946 | 0.892 | 1 | 4849 | CNOT3 |
| -0.025225226 | 0.883869946 | 0.9 | 1 | 6978 | TRGV5 |
| -0.025225226 | 0.883869946 | 0.904 | 1 | 8665 | EIF3F |
| -0.025225226 | 0.883869946 | 0.902 | 1 | 9152 | SLC6A5 |
| -0.025225226 | 0.883869946 | 0.878 | 1 | 25831 | HECTD1 |
| -0.025225226 | 0.883869946 | 0.881 | 1 | 50846 | DHH |
| -0.025225226 | 0.883869946 | 0.882 | 1 | 54344 | DPM3 |
| -0.025225226 | 0.883869946 | 0.891 | 1 | 56971 | CEACAM19 |
| -0.025225226 | 0.883869946 | 0.899 | 1 | 64753 | CCDC136 |
| -0.025225226 | 0.883869946 | 0.896 | 1 | 83884 | SLC25A2 |
| -0.025225226 | 0.883869946 | 0.896 | 1 | 387856 | C12orf68 |
| -0.025482625 | 0.88268733 | 0.872 | 1 | 229 | ALDOB |
| -0.025482625 | 0.88268733 | 0.883 | 1 | 2889 | RAPGEF1 |
| -0.025482625 | 0.88268733 | 0.889 | 1 | 4899 | NRF1 |
| -0.025482625 | 0.88268733 | 0.895 | 1 | 9726 | ZNF646 |
| -0.025482625 | 0.88268733 | 0.896 | 1 | 27327 | TNRC6A |
| -0.025482625 | 0.88268733 | 0.889 | 1 | 54856 | GON4L |
| -0.025482625 | 0.88268733 | 0.882 | 1 | 57130 | ATP13A1 |
| -0.025482625 | 0.88268733 | 0.877 | 1 | 79102 | RNF26 |
| -0.025482625 | 0.88268733 | 0.889 | 1 | 140290 | TCP10L |
| -0.025740024 | 0.881504893 | 0.918 | 1 | 4131 | MAP1B |
| -0.025740024 | 0.881504893 | 0.898 | 1 | 51363 | CHST15 |
| -0.025740024 | 0.881504893 | 0.884 | 1 | 123876 | ACSM2A |
| -0.025997426 | 0.880322218 | 0.868 | 1 | 8174 | MADCAM1 |
| -0.025997426 | 0.880322218 | 0.886 | 1 | 11020 | RABL4 |
| -0.025997426 | 0.880322218 | 0.9 | 1 | 256355 | RPS2P32 |
| -0.025997426 | 0.880322218 | 0.892 | 1 | 389197 | C4orf50 |
| -0.025997426 | 0.880322218 | 0.9 | 1 | 100240734 | LOC100240734 |
| -0.026254825 | 0.879140317 | 0.895 | 1 | 27291 | C10orf28 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.012114832 | 0.275948524 | 171389 | NLRP6 |
| 0.012073693 | 0.277582556 | 22993 | HMGXB3 |
| 0.012009894 | 0.280129611 | 133482 | SLCO6A1 |
| 0.011987791 | 0.281015664 | 4993 | OR2C1 |
| 0.011974883 | 0.281534076 | 112476 | PRRT2 |
| 0.011916564 | 0.283884168 | 3770 | KCNJ14 |
| 0.01184385 | 0.286832899 | 131831 | C3orf44 |
| 0.011837813 | 0.287078589 | 201158 | FAM18B2 |
| 0.011836234 | 0.287142873 | 155060 | RP4-800G7.1 |
| 0.011820911 | 0.287767321 | 5319 | PLA2G1B |
| 0.011795931 | 0.288787365 | 344328 | ST13P2 |
| 0.011781351 | 0.289383799 | 80224 | NUBPL |
| 0.011748662 | 0.290724069 | 9880 | ZBTB39 |
| 0.011712072 | 0.292229235 | 23358 | USP24 |
| 0.011711515 | 0.292252183 | 11099 | PTPN21 |
| 0.011701671 | 0.292658061 | 23633 | KPNA6 |
| 0.01168802 | 0.293221503 | 200014 | CC2D1B |
| 0.011653567 | 0.2946468 | 340578 | DCAF12L2 |
| 0.011575281 | 0.297902673 | 339559 | ZNF642 |
| 0.011499874 | 0.301061302 | 23041 | MON2 |
| 0.011477307 | 0.302010983 | 158801 | NKAPP1 |
| 0.011462728 | 0.302625597 | 11107 | PRDM5 |
| 0.011426509 | 0.304155886 | 118987 | PDZD8 |
| 0.011347109 | 0.307528675 | 3799 | KIF5B |
| 0.011273652 | 0.310671031 | 83876 | MRO |
| 0.011243378 | 0.311972231 | 9897 | KIAA0196 |
| 0.011241706 | 0.312044144 | 7356 | SCGB1A1 |
| 0.011215147 | 0.313188821 | 154810 | AMOTL1 |
| 0.011117823 | 0.317406893 | 388135 | C15orf59 |
| 0.011116059 | 0.317483753 | 55311 | ZNF444 |
| 0.01111578 | 0.317495853 | 2645 | GCK |
| 0.011101757 | 0.3181068 | 222194 | RSBN1L |
| 0.011018735 | 0.321739554 | 55308 | DDX19A |
| 0.010961623 | 0.324254215 | 11062 | DUS4L |
| 0.01091909 | 0.326135248 | 9512 | PMPCB |
| 0.010878229 | 0.327949077 | 84833 | USMG5 |
| 0.010869221 | 0.328349799 | 286528 | SSU72P1 |
| 0.010828453 | 0.330167323 | 673 | BRAF |
| 0.010788149 | 0.331970632 | 6628 | SNRPB |
| 0.010753231 | 0.333538085 | 4495 | MT1G |
| 0.010709213 | 0.335520774 | 57691 | KIAA1586 |
| 0.010656651 | 0.337898284 | 55070 | DET1 |
| 0.010638542 | 0.338719904 | 6507 | SLC1A3 |
| 0.010629441 | 0.339133263 | 56006 | C19orf61 |
| 0.01062229 | 0.339458346 | 1163 | CKS1B |
| 0.010562113 | 0.342201591 | 7472 | WNT2 |
| 0.010557285 | 0.342422307 | 55114 | ARHGAP17 |
| 0.010530353 | 0.343655139 | 80852 | GRIP2 |
| 0.010512709 | 0.344464332 | 64149 | C17orf75 |
| 0.010503329 | 0.344895005 | 23114 | NFASC |
| 0.010477048 | 0.346103489 | 7270 | TTF1 |
| 0.010466276 | 0.346599638 | 116983 | ACAP3 |
| 0.010449653 | 0.347366124 | 283349 | RASSF3 |
| 0.01042755 | 0.348386943 | 6667 | SP1 |
| 0.010417799 | 0.348837912 | 644157 | DND1P1 |
| 0.010337285 | 0.352575719 | 85377 | MICALL1 |
| 0.010318247 | 0.353463233 | 89958 | C9orf140 |
| 0.010298374 | 0.354391158 | 113251 | LARP4 |
| 0.010274972 | 0.355485857 | 11314 | CD300A |
| 0.010072524 | 0.365044683 | 147872 | CCDC155 |
| 0.010064538 | 0.36542505 | 30 | ACAA1 |
| 0.009996003 | 0.368699193 | 10922 | FASTK |
| 0.009976686 | 0.369625241 | 2670 | GFAP |
| 0.009928118 | 0.371960193 | 50613 | UBQLN3 |
| 0.009898215 | 0.373402327 | 9692 | KIAA0391 |
| 0.009803212 | 0.378006846 | 140290 | TCP10L |
| 0.009796712 | 0.378323138 | 64816 | CYP3A43 |
| 0.009754272 | 0.380392402 | 23057 | NMNAT2 |
| 0.009733749 | 0.381395549 | 29086 | C19orf62 |
| 0.009684437 | 0.383812487 | 5298 | PI4KB |
| 0.009656763 | 0.385172993 | 5264 | PHYH |
| 0.009646826 | 0.385662228 | 64098 | PARVG |
| 0.009634382 | 0.38627544 | 10683 | DLL3 |
| 0.009591663 | 0.388385028 | 120071 | GYLTL1B |
| 0.009578941 | 0.389014632 | 57567 | ZNF319 |
| 0.009546902 | 0.390602976 | 5460 | POU5F1 |
| 0.009533715 | 0.391257793 | 284111 | SLC13A5 |
| 0.0095261 | 0.391636282 | 7503 | XIST |
| 0.009496476 | 0.393110782 | 54732 | TMED9 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.026254825 | 0.879140317 | 0.879 | 1 | 342574 | KRT27 |
| -0.026512226 | 0.877958715 | 0.87 | 1 | 794 | CALB2 |
| -0.026512226 | 0.877958715 | 0.894 | 1 | 4854 | NOTCH3 |
| -0.026512226 | 0.877958715 | 0.894 | 1 | 6472 | SHMT2 |
| -0.026512226 | 0.877958715 | 0.873 | 1 | 28977 | MRPL42 |
| -0.026512226 | 0.877958715 | 0.896 | 1 | 51362 | CDC40 |
| -0.026512226 | 0.877958715 | 0.88 | 1 | 79085 | SLC25A23 |
| -0.026512226 | 0.877958715 | 0.894 | 1 | 92579 | G6PC3 |
| -0.026512226 | 0.877958715 | 0.888 | 1 | 256714 | MAP7D2 |
| -0.026769627 | 0.876777291 | 0.882 | 1 | 89 | ACTN3 |
| -0.026769627 | 0.876777291 | 0.884 | 1 | 240 | ALOX5 |
| -0.026769627 | 0.876777291 | 0.877 | 1 | 3178 | HNRNPA1P2 |
| -0.026769627 | 0.876777291 | 0.886 | 1 | 6329 | SCN4A |
| -0.026769627 | 0.876777291 | 0.875 | 1 | 9138 | ARHGEF1 |
| -0.026769627 | 0.876777291 | 0.89 | 1 | 29074 | MRPL18 |
| -0.026769627 | 0.876777291 | 0.884 | 1 | 54987 | C1orf123 |
| -0.027027028 | 0.875595689 | 0.889 | 1 | 6122 | RPL3 |
| -0.027027028 | 0.875595689 | 0.859 | 1 | 6339 | SCNN1D |
| -0.027027028 | 0.875595689 | 0.884 | 1 | 10493 | VAT1 |
| -0.027027028 | 0.875595689 | 0.867 | 1 | 27244 | SESN1 |
| -0.027027028 | 0.875595689 | 0.896 | 1 | 51143 | DYNC1LI1 |
| -0.027027028 | 0.875595689 | 0.874 | 1 | 100134713 | RP4-726N20.2 |
| -0.027284427 | 0.874414861 | 0.875 | 1 | 10128 | LRPPRC |
| -0.027284427 | 0.874414861 | 0.872 | 1 | 23576 | DDAH1 |
| -0.027284427 | 0.874414861 | 0.883 | 1 | 25790 | CCDC19 |
| -0.027284427 | 0.874414861 | 0.874 | 1 | 25898 | RCHY1 |
| -0.027284427 | 0.874414861 | 0.891 | 1 | 51337 | C8orf55 |
| -0.027284427 | 0.874414861 | 0.875 | 1 | 80705 | TSGA10 |
| -0.027284427 | 0.874414861 | 0.875 | 1 | 162515 | SLC16A11 |
| -0.027284427 | 0.874414861 | 0.886 | 1 | 100125288 | AC011511.1 |
| -0.027541827 | 0.873234272 | 0.872 | 1 | 750 | C16orf3 |
| -0.027541827 | 0.873234272 | 0.881 | 1 | 1604 | CD55 |
| -0.027541827 | 0.873234272 | 0.883 | 1 | 9104 | RGN |
| -0.027541827 | 0.873234272 | 0.875 | 1 | 51244 | C3orf19 |
| -0.027541827 | 0.873234272 | 0.885 | 1 | 65062 | ALS2CR4 |
| -0.027541827 | 0.873234272 | 0.861 | 1 | 84188 | FAR1 |
| -0.027541827 | 0.873234272 | 0.895 | 1 | 157769 | FAM91A1 |
| -0.027541827 | 0.873234272 | 0.884 | 1 | 286101 | ZNF252P |
| -0.027799228 | 0.872053981 | 0.884 | 1 | 140 | ADORA3 |
| -0.027799228 | 0.872053981 | 0.871 | 1 | 4316 | MMP7 |
| -0.027799228 | 0.872053981 | 0.876 | 1 | 4494 | MT1F |
| -0.027799228 | 0.872053981 | 0.895 | 1 | 8140 | SLC7A5 |
| -0.027799228 | 0.872053981 | 0.856 | 1 | 55502 | HES6 |
| -0.027799228 | 0.872053981 | 0.88 | 1 | 57711 | ZNF529 |
| -0.027799228 | 0.872053981 | 0.887 | 1 | 91978 | C19orf20 |
| -0.027799228 | 0.872053981 | 0.882 | 1 | 139604 | MAGEB16 |
| -0.027799228 | 0.872053981 | 0.876 | 1 | 286411 | RP1-177G6.1 |
| -0.028056627 | 0.870873988 | 0.881 | 1 | 7079 | TIMP4 |
| -0.028314028 | 0.869693696 | 0.896 | 1 | 5032 | P2RY11 |
| -0.028314028 | 0.869693696 | 0.881 | 1 | 8357 | HIST1H3H |
| -0.028314028 | 0.869693696 | 0.882 | 1 | 22984 | PDCD11 |
| -0.028314028 | 0.869693696 | 0.881 | 1 | 79759 | ZNF668 |
| -0.028314028 | 0.869693696 | 0.881 | 1 | 79831 | JMJD5 |
| -0.028571429 | 0.86851424 | 0.891 | 1 | 1673 | DEFB4 |
| -0.028571429 | 0.86851424 | 0.878 | 1 | 6768 | ST14 |
| -0.028571429 | 0.86851424 | 0.87 | 1 | 23334 | KIAA0467 |
| -0.028571429 | 0.86851424 | 0.898 | 1 | 51673 | TPPP3 |
| -0.028571429 | 0.86851424 | 0.886 | 1 | 81858 | SHARPIN |
| -0.028571429 | 0.86851424 | 0.878 | 1 | 140947 | C5ORF20 |
| -0.028571429 | 0.86851424 | 0.888 | 1 | 400618 | AC005152.2 |
| -0.028571429 | 0.86851424 | 0.898 | 1 | 653657 | AC010606.4 |
| -0.028828828 | 0.867335081 | 0.88 | 1 | 5427 | POLE2 |
| -0.028828828 | 0.867335081 | 0.881 | 1 | 7780 | SLC30A2 |
| -0.028828828 | 0.867335081 | 0.868 | 1 | 10939 | AFG3L2 |
| -0.028828828 | 0.867335081 | 0.879 | 1 | 55258 | THNSL2 |
| -0.028828828 | 0.867335081 | 0.88 | 1 | 80755 | AARSD1 |
| -0.028828828 | 0.867335081 | 0.887 | 1 | 125931 | CEACAM20 |
| -0.028828828 | 0.867335081 | 0.893 | 1 | 169270 | ZNF596 |
| -0.029086228 | 0.866156161 | 0.891 | 1 | 678 | ZFP36L2 |
| -0.029086228 | 0.866156161 | 0.867 | 1 | 6003 | RGS13 |
| -0.029086228 | 0.866156161 | 0.845 | 1 | 8224 | SYN3 |
| -0.029086228 | 0.866156161 | 0.885 | 1 | 170589 | GPHA2 |
| -0.029343629 | 0.864977062 | 0.866 | 1 | 3268 | AGFG2 |
| -0.029343629 | 0.864977062 | 0.85 | 1 | 55891 | LENEP |
| -0.029343629 | 0.864977062 | 0.883 | 1 | 386683 | KRTAP12-3 |
| -0.029343629 | 0.864977062 | 0.874 | 1 | 441864 | TARM1 |
| -0.02960103 | 0.863798738 | 0.871 | 1 | 10512 | SEMA3C |
| -0.02960103 | 0.863798738 | 0.853 | 1 | 23589 | CARHSP1 |
| -0.02960103 | 0.863798738 | 0.872 | 1 | 64220 | STRA6 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.009490997 | 0.39338389 | 349565 | NMNAT3 |
| 0.009483474 | 0.393758953 | 8568 | RRP1 |
| 0.009470938 | 0.394384563 | 1315 | COPB1 |
| 0.009415219 | 0.397172421 | 5333 | PLCD1 |
| 0.009363399 | 0.399775714 | 5064 | PALM |
| 0.009346776 | 0.40061304 | 11169 | WDHD1 |
| 0.009313622 | 0.402286083 | 8013 | NR4A3 |
| 0.00929765 | 0.403093636 | 125981 | ACER1 |
| 0.009234316 | 0.406305134 | 79695 | GALNT12 |
| 0.00915445 | 0.410376698 | 677769 | SCARNA17 |
| 0.009123155 | 0.411978722 | 6621 | SNAPC4 |
| 0.009048211 | 0.415830106 | 10785 | WDR4 |
| 0.009041432 | 0.416179568 | 26133 | TRPC4AP |
| 0.009032889 | 0.416620135 | 2110 | ETFDH |
| 0.008990264 | 0.418822646 | 135293 | PM20D2 |
| 0.008876967 | 0.424709916 | 353219 | KAAG1 |
| 0.008873995 | 0.424864948 | 3998 | LMAN1 |
| 0.008845486 | 0.426354349 | 2153 | F5 |
| 0.008759584 | 0.430860251 | 5744 | PTHLH |
| 0.00868362 | 0.434867799 | 9915 | ARNT2 |
| 0.008637372 | 0.437318116 | 375719 | AQP7P1 |
| 0.008612763 | 0.438625216 | 54553 | DKFZP434I0714 |
| 0.008572738 | 0.440755934 | 401720 | FIGNL2 |
| 0.008490366 | 0.445159525 | 6747 | SSR3 |
| 0.008477272 | 0.445861787 | 56147 | PCDHA1 |
| 0.008469471 | 0.446280509 | 26637 | OR7E36P |
| 0.008442911 | 0.447707772 | 1795 | DOCK3 |
| 0.008425638 | 0.448637396 | 8431 | NR0B2 |
| 0.008383012 | 0.450936049 | 2158 | F9 |
| 0.008374376 | 0.451402634 | 341276 | OR10A2 |
| 0.008313177 | 0.454716504 | 6039 | RNASE6 |
| 0.008260523 | 0.45757857 | 123016 | TTC8 |
| 0.008237399 | 0.458838731 | 2897 | GRIK1 |
| 0.008234149 | 0.459016025 | 342933 | ZSCAN5B |
| 0.008231362 | 0.459167987 | 8456 | FOXN1 |
| 0.008178615 | 0.462050885 | 9846 | GAB2 |
| 0.008163942 | 0.462854624 | 199990 | C1orf86 |
| 0.008156513 | 0.463261843 | 6847 | SYCP1 |
| 0.008117694 | 0.465392977 | 59286 | UBL5 |
| 0.00809262 | 0.466772437 | 84054 | PCDHB19P |
| 0.00808742 | 0.467058837 | 6830 | SUPT6H |
| 0.007990561 | 0.47241056 | 22795 | NID2 |
| 0.007967809 | 0.473672599 | 91133 | L3MBTL4 |
| 0.007881536 | 0.478474736 | 5096 | PCCB |
| 0.007878286 | 0.478656143 | 729956 | AC135592.2 |
| 0.007787463 | 0.483741224 | 10420 | TESK2 |
| 0.007724036 | 0.487309784 | 148898 | C1ORF213 |
| 0.007533382 | 0.498121291 | 9789 | SPCS2 |
| 0.007524931 | 0.498603463 | 3104 | ZBTB48 |
| 0.007493821 | 0.500380516 | 27297 | CRCP |
| 0.007480912 | 0.501118958 | 731157 | LOC731157 |
| 0.007440702 | 0.503422678 | 6799 | SULT1A2 |
| 0.007429558 | 0.504062116 | 6604 | SMARCD3 |
| 0.007429186 | 0.504083455 | 26534 | OR10G2 |
| 0.007380246 | 0.506896794 | 54815 | GATAD2A |
| 0.007369566 | 0.507511795 | 285282 | RABL3 |
| 0.007189035 | 0.517967165 | 55233 | MOB1A |
| 0.007170276 | 0.519059956 | 79927 | GRRP1 |
| 0.007114463 | 0.522318244 | 5434 | POLR2E |
| 0.007106198 | 0.522801638 | 5034 | P4HB |
| 0.007081496 | 0.524247766 | 162282 | ANKFN1 |
| 0.007038034 | 0.526797056 | 9873 | FCHSD2 |
| 0.006997359 | 0.529188633 | 7574 | ZNF26 |
| 0.006995316 | 0.529308975 | 56269 | IRGC |
| 0.006955013 | 0.531684339 | 3778 | KCNMA1 |
| 0.006919816 | 0.53376323 | 22880 | MORC2 |
| 0.006800855 | 0.540819824 | 387032 | ZKSCAN4 |
| 0.006785254 | 0.541748762 | 91351 | DDX60L |
| 0.006760087 | 0.543248773 | 644762 | LOC644762 |
| 0.006737056 | 0.544623375 | 1153 | CIRBP |
| 0.006573148 | 0.554455757 | 916 | CD3E |
| 0.00656934 | 0.554685235 | 5126 | PCSK2 |
| 0.006516406 | 0.557879627 | 6693 | SPN |
| 0.006509535 | 0.558294952 | 140258 | KRTAP13-1 |
| 0.006506377 | 0.558485925 | 126917 | IFFO2 |
| 0.006481396 | 0.55999732 | 9903 | KLHL21 |
| 0.006465237 | 0.560976088 | 7020 | TFAP2A |
| 0.006463566 | 0.561077356 | 3939 | LDHA |
| 0.006456694 | 0.561493874 | 27023 | FOXB1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.02960103 | 0.863798738 | 0.865 | 1 | 89886 | SLAMF9 |
| -0.029858429 | 0.862620711 | 0.87 | 1 | 6626 | SNRPA |
| -0.029858429 | 0.862620711 | 0.886 | 1 | 9894 | TELO2 |
| -0.029858429 | 0.862620711 | 0.868 | 1 | 26167 | PCDHB5 |
| -0.029858429 | 0.862620711 | 0.866 | 1 | 55244 | SLC47A1 |
| -0.029858429 | 0.862620711 | 0.874 | 1 | 81569 | ACTL8 |
| -0.029858429 | 0.862620711 | 0.855 | 1 | 89839 | ARHGAP11B |
| -0.029858429 | 0.862620711 | 0.878 | 1 | 402117 | VWC2L |
| -0.030115828 | 0.861442983 | 0.884 | 1 | 984 | CDC2L1 |
| -0.030115828 | 0.861442983 | 0.861 | 1 | 3762 | KCNJ5 |
| -0.030115828 | 0.861442983 | 0.861 | 1 | 7358 | UGDH |
| -0.030115828 | 0.861442983 | 0.893 | 1 | 255057 | C19orf26 |
| -0.030373231 | 0.860265017 | 0.874 | 1 | 1794 | DOCK2 |
| -0.030373231 | 0.860265017 | 0.871 | 1 | 4063 | LY9 |
| -0.030373231 | 0.860265017 | 0.866 | 1 | 22944 | KIN |
| -0.030373231 | 0.860265017 | 0.87 | 1 | 51352 | WT1-AS |
| -0.030373231 | 0.860265017 | 0.888 | 1 | 92086 | GGTLA3 |
| -0.03063063 | 0.859087884 | 0.864 | 1 | 2850 | GPR27 |
| -0.03063063 | 0.859087884 | 0.871 | 1 | 54813 | KLHL28 |
| -0.03063063 | 0.859087884 | 0.864 | 1 | 147372 | CCBE1 |
| -0.03088803 | 0.85791105 | 0.871 | 1 | 3228 | HOXC12 |
| -0.03088803 | 0.85791105 | 0.857 | 1 | 23036 | ZNF292 |
| -0.03088803 | 0.85791105 | 0.87 | 1 | 84256 | FLYWCH1 |
| -0.03088803 | 0.85791105 | 0.875 | 1 | 124056 | NOXO1 |
| -0.03088803 | 0.85791105 | 0.876 | 1 | 392335 | MYO5BP2 |
| -0.03088803 | 0.85791105 | 0.871 | 1 | 654502 | IQCJ |
| -0.031145431 | 0.856734633 | 0.864 | 1 | 11100 | HNRNPUL1 |
| -0.031145431 | 0.856734633 | 0.863 | 1 | 55830 | GLT8D1 |
| -0.031145431 | 0.856734633 | 0.868 | 1 | 124221 | TMPRSS8 |
| -0.031145431 | 0.856734633 | 0.875 | 1 | 147837 | ZNF563 |
| -0.031145431 | 0.856734633 | 0.864 | 1 | 390980 | ZNF805 |
| -0.03140283 | 0.855558395 | 0.877 | 1 | 10865 | ARID5A |
| -0.03140283 | 0.855558395 | 0.875 | 1 | 57569 | ARHGAP20 |
| -0.031660229 | 0.854381919 | 0.86 | 1 | 4481 | MSR1 |
| -0.031660229 | 0.854381919 | 0.845 | 1 | 10057 | ABCC5 |
| -0.031660229 | 0.854381919 | 0.874 | 1 | 147172 | LRRC37BP1 |
| -0.031660229 | 0.854381919 | 0.849 | 1 | 285097 | FLJ38379 |
| -0.031660229 | 0.854381919 | 0.874 | 1 | 100131532 | LOC100131532 |
| -0.031917632 | 0.853206336 | 0.854 | 1 | 4522 | MTHFD1 |
| -0.031917632 | 0.853206336 | 0.874 | 1 | 5051 | PAFAH2 |
| -0.031917632 | 0.853206336 | 0.877 | 1 | 79664 | NARG2 |
| -0.031917632 | 0.853206336 | 0.873 | 1 | 81894 | SLC25A28 |
| -0.031917632 | 0.853206336 | 0.87 | 1 | 84167 | C19orf44 |
| -0.031917632 | 0.853206336 | 0.879 | 1 | 85007 | AGXT2L2 |
| -0.032175031 | 0.852031112 | 0.849 | 1 | 6464 | SHC1 |
| -0.032175031 | 0.852031112 | 0.85 | 1 | 7305 | TYROBP |
| -0.032175031 | 0.852031112 | 0.848 | 1 | 8386 | OR1D5 |
| -0.032175031 | 0.852031112 | 0.858 | 1 | 127707 | KLHDC7A |
| -0.032175031 | 0.852031112 | 0.857 | 1 | 285282 | RABL3 |
| -0.032175031 | 0.852031112 | 0.875 | 1 | 337974 | KRTAP19-7 |
| -0.032175031 | 0.852031112 | 0.869 | 1 | 375791 | C9orf169 |
| -0.032432433 | 0.850856185 | 0.871 | 1 | 2332 | FMR1 |
| -0.032432433 | 0.850856185 | 0.848 | 1 | 5073 | PARN |
| -0.032432433 | 0.850856185 | 0.873 | 1 | 6348 | CCL3 |
| -0.032432433 | 0.850856185 | 0.865 | 1 | 7564 | ZNF16 |
| -0.032432433 | 0.850856185 | 0.856 | 1 | 53335 | BCL11A |
| -0.032432433 | 0.850856185 | 0.853 | 1 | 55179 | FAIM |
| -0.032432433 | 0.850856185 | 0.844 | 1 | 79807 | GSTCD |
| -0.032432433 | 0.850856185 | 0.861 | 1 | 84458 | LCOR |
| -0.032432433 | 0.850856185 | 0.867 | 1 | 148252 | DIRAS1 |
| -0.032432433 | 0.850856185 | 0.873 | 1 | 220929 | ZNF438 |
| -0.032432433 | 0.850856185 | 0.851 | 1 | 644604 | EEF1A1P12 |
| -0.032689832 | 0.84968096 | 0.866 | 1 | 9783 | RIMS3 |
| -0.032689832 | 0.84968096 | 0.851 | 1 | 152015 | ROPN1B |
| -0.032947235 | 0.848506689 | 0.859 | 1 | 3110 | MNX1 |
| -0.032947235 | 0.848506689 | 0.849 | 1 | 7062 | TCHH |
| -0.032947235 | 0.848506689 | 0.829 | 1 | 11102 | RPP14 |
| -0.032947235 | 0.848506689 | 0.859 | 1 | 27123 | DKK2 |
| -0.032947235 | 0.848506689 | 0.873 | 1 | 89958 | C9orf140 |
| -0.032947235 | 0.848506689 | 0.859 | 1 | 440461 | LOC440461 |
| -0.033204634 | 0.847332716 | 0.866 | 1 | 5153 | PDE1B |
| -0.033204634 | 0.847332716 | 0.875 | 1 | 9092 | SART1 |
| -0.033204634 | 0.847332716 | 0.869 | 1 | 23348 | DOCK9 |
| -0.033204634 | 0.847332716 | 0.858 | 1 | 55799 | CACNA2D3 |
| -0.033204634 | 0.847332716 | 0.874 | 1 | 64582 | GPR135 |
| -0.033204634 | 0.847332716 | 0.865 | 1 | 122046 | TEX26 |
| -0.033462033 | 0.846159041 | 0.883 | 1 | 3860 | KRT13 |
| -0.033462033 | 0.846159041 | 0.847 | 1 | 8370 | HIST2H4A |
| -0.033462033 | 0.846159041 | 0.873 | 1 | 9721 | GPRIN2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.006448614 | 0.561983764 | 150142 | ZNF295-AS1 |
| 0.00635742 | 0.567527592 | 7775 | ZNF232 |
| 0.006347483 | 0.568133235 | 1794 | DOCK2 |
| 0.006326124 | 0.569436073 | 594855 | CPLX3 |
| 0.006317209 | 0.569980323 | 10458 | BAIAP2 |
| 0.006219607 | 0.575954676 | 51175 | TUBE1 |
| 0.006216357 | 0.576154172 | 11201 | POLI |
| 0.006207813 | 0.576678634 | 2547 | XRCC6 |
| 0.006193511 | 0.577557087 | 1512 | CTSH |
| 0.006156365 | 0.579841554 | 553115 | PEF1 |
| 0.006132777 | 0.581294417 | 51602 | NOP58 |
| 0.006125162 | 0.581763804 | 7561 | ZNF14 |
| 0.006124791 | 0.581786692 | 84749 | USP30 |
| 0.006102317 | 0.583173096 | 339352 | LOC339352 |
| 0.006090709 | 0.583889782 | 57158 | JPH2 |
| 0.00603146 | 0.587554157 | 8633 | UNC5C |
| 0.006027188 | 0.587818742 | 220929 | ZNF438 |
| 0.00601623 | 0.588497758 | 259289 | TAS2R43 |
| 0.005978898 | 0.590813816 | 6198 | RPS6KB1 |
| 0.005976484 | 0.590963781 | 5676 | PSG7 |
| 0.005967104 | 0.591546416 | 54813 | KLHL28 |
| 0.00596664 | 0.591575325 | 8639 | AOC3 |
| 0.005960603 | 0.591950357 | 1654 | DDX3X |
| 0.005950017 | 0.592608511 | 374395 | TMEM179B |
| 0.005927172 | 0.594029844 | 54974 | THG1L |
| 0.005893554 | 0.596124232 | 152503 | SH3D19 |
| 0.005873309 | 0.597387075 | 10892 | MALT1 |
| 0.00585195 | 0.598720789 | 124491 | TMEM170A |
| 0.005844242 | 0.599202454 | 4069 | LYZ |
| 0.005840528 | 0.599434614 | 5928 | RBBP4 |
| 0.005802546 | 0.601810932 | 150297 | C22orf42 |
| 0.005743668 | 0.605502844 | 167410 | LIX1 |
| 0.005684327 | 0.609234095 | 374819 | LRRC37A3 |
| 0.005625172 | 0.612963796 | 148109 | FAM187B |
| 0.005581339 | 0.615733862 | 26175 | C14orf109 |
| 0.005549764 | 0.617732763 | 7171 | TPM4 |
| 0.00552014 | 0.619610667 | 6227 | RPS21 |
| 0.005495995 | 0.621143103 | 8123 | PAR5 |
| 0.005468228 | 0.62290746 | 387763 | C11orf96 |
| 0.00545857 | 0.623521626 | 3652 | IPP |
| 0.005428296 | 0.625448585 | 373156 | GSTK1 |
| 0.005415944 | 0.626235485 | 90313 | TP53I13 |
| 0.005369047 | 0.629227161 | 55208 | DCUN1D2 |
| 0.005360689 | 0.629760981 | 51232 | CRIM1 |
| 0.0053202 | 0.63234973 | 10481 | HOXB13 |
| 0.005304505 | 0.633354425 | 5816 | PVALB |
| 0.005197245 | 0.640238583 | 8115 | TCL1A |
| 0.005139575 | 0.643952847 | 64853 | AIDA |
| 0.005113109 | 0.6456604 | 54665 | RSBN1 |
| 0.005051724 | 0.649627984 | 63931 | MRPS14 |
| 0.00488633 | 0.660367608 | 2844 | GPR21 |
| 0.004875186 | 0.661093771 | 23005 | MAPKBP1 |
| 0.004802657 | 0.665827692 | 9836 | LCMT2 |
| 0.004747123 | 0.66946137 | 80763 | C12orf39 |
| 0.004705705 | 0.67217654 | 9994 | CASP8AP2 |
| 0.00462454 | 0.677509606 | 11328 | FKBP9 |
| 0.004536968 | 0.683281958 | 89944 | GLB1L2 |
| 0.004461932 | 0.688242614 | 9256 | BZRAP1 |
| 0.004448466 | 0.68913424 | 337876 | CHSY3 |
| 0.00440937 | 0.691725612 | 64787 | EPS8L2 |
| 0.004379653 | 0.693697691 | 105 | ADARB2 |
| 0.004377331 | 0.693851829 | 9730 | VPRBP |
| 0.004337677 | 0.696486771 | 56135 | PCDHAC1 |
| 0.004336377 | 0.696573198 | 25875 | LETMD1 |
| 0.00431056 | 0.698290765 | 126295 | ZNF57 |
| 0.004208129 | 0.705120444 | 6351 | CCL4 |
| 0.004189742 | 0.706348956 | 4987 | OPRL1 |
| 0.004167175 | 0.707857728 | 5229 | PGGT1B |
| 0.004161325 | 0.708249092 | 84861 | KLHL22 |
| 0.004146002 | 0.709274471 | 23054 | NCOA6 |
| 0.004139408 | 0.709715843 | 170371 | C10orf128 |
| 0.004124086 | 0.710741937 | 64900 | LPIN3 |
| 0.004123528 | 0.71077925 | 80723 | TMEM22 |
| 0.004123157 | 0.710804164 | 121793 | C13orf16 |
| 0.004119721 | 0.711034298 | 284467 | FAM19A3 |
| 0.004031777 | 0.716934443 | 400798 | RP5-990P15.1 |
| 0.004028527 | 0.717152774 | 55258 | THNSL2 |
| 0.003921081 | 0.724385023 | 57794 | SF4 |
| 0.003894893 | 0.726151526 | 54788 | DNAJB12 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.033462033 | 0.846159041 | 0.849 | 1 | 54777 | C10orf92 |
| -0.033462033 | 0.846159041 | 0.861 | 1 | 114049 | WBSCR22 |
| -0.033462033 | 0.846159041 | 0.872 | 1 | 140886 | PABPC5 |
| -0.033462033 | 0.846159041 | 0.865 | 1 | 348158 | ACSM2 |
| -0.033719432 | 0.844985723 | 0.859 | 1 | 573 | BAG1 |
| -0.033719432 | 0.844985723 | 0.849 | 1 | 4924 | NUCB1 |
| -0.033719432 | 0.844985723 | 0.872 | 1 | 9182 | RASSF9 |
| -0.033719432 | 0.844985723 | 0.855 | 1 | 57721 | METTL14 |
| -0.033719432 | 0.844985723 | 0.853 | 1 | 340286 | FAM183B |
| -0.033976831 | 0.843812227 | 0.857 | 1 | 1394 | CRHR1 |
| -0.033976831 | 0.843812227 | 0.841 | 1 | 27122 | DKK3 |
| -0.033976831 | 0.843812227 | 0.861 | 1 | 64847 | SPATA20 |
| -0.033976831 | 0.843812227 | 0.859 | 1 | 79366 | NSBP1 |
| -0.033976831 | 0.843812227 | 0.848 | 1 | 84948 | TIGD5 |
| -0.033976831 | 0.843812227 | 0.851 | 1 | 119016 | AGAP4 |
| -0.033976831 | 0.843812227 | 0.851 | 1 | 140767 | NRSN1 |
| -0.033976831 | 0.843812227 | 0.845 | 1 | 200959 | GABRR3 |
| -0.033976831 | 0.843812227 | 0.853 | 1 | 729059 | RP4-805N21.1 |
| -0.034234237 | 0.842639565 | 0.859 | 1 | 6884 | TAF13 |
| -0.034234237 | 0.842639565 | 0.862 | 1 | 55841 | WWC3 |
| -0.034234237 | 0.842639565 | 0.856 | 1 | 137797 | LYPD2 |
| -0.034234237 | 0.842639565 | 0.862 | 1 | 158931 | TCEAL6 |
| -0.034234237 | 0.842639565 | 0.864 | 1 | 162083 | C16orf82 |
| -0.034234237 | 0.842639565 | 0.852 | 1 | 100130776 | RP11-571M6.6 |
| -0.034491636 | 0.841467202 | 0.857 | 1 | 5266 | PI3 |
| -0.034491636 | 0.841467202 | 0.87 | 1 | 22876 | INPP5F |
| -0.034491636 | 0.841467202 | 0.841 | 1 | 25800 | SLC39A6 |
| -0.034491636 | 0.841467202 | 0.843 | 1 | 55296 | TBC1D19 |
| -0.034491636 | 0.841467202 | 0.837 | 1 | 81796 | SLCO5A1 |
| -0.034749035 | 0.840295255 | 0.838 | 1 | 2159 | F10 |
| -0.034749035 | 0.840295255 | 0.859 | 1 | 6629 | SNRPB2 |
| -0.034749035 | 0.840295255 | 0.862 | 1 | 9857 | CEP350 |
| -0.034749035 | 0.840295255 | 0.872 | 1 | 51720 | UIMC1 |
| -0.034749035 | 0.840295255 | 0.84 | 1 | 91750 | LIN52 |
| -0.034749035 | 0.840295255 | 0.864 | 1 | 220963 | SLC16A9 |
| -0.034749035 | 0.840295255 | 0.846 | 1 | 285220 | EPHA6 |
| -0.035006434 | 0.83912307 | 0.863 | 1 | 1850 | DUSP8 |
| -0.035006434 | 0.83912307 | 0.872 | 1 | 6336 | SCN10A |
| -0.035006434 | 0.83912307 | 0.841 | 1 | 7918 | BAT4 |
| -0.035006434 | 0.83912307 | 0.826 | 1 | 10013 | HDAC6 |
| -0.035006434 | 0.83912307 | 0.858 | 1 | 64718 | C16orf28 |
| -0.035006434 | 0.83912307 | 0.857 | 1 | 79572 | ATP13A3 |
| -0.035006434 | 0.83912307 | 0.859 | 1 | 83715 | ESPN |
| -0.035006434 | 0.83912307 | 0.868 | 1 | 284232 | ANKRD20A9P |
| -0.035006434 | 0.83912307 | 0.831 | 1 | 390212 | GPR152 |
| -0.035263833 | 0.837951779 | 0.85 | 1 | 8295 | TRRAP |
| -0.035263833 | 0.837951779 | 0.843 | 1 | 54467 | ANKIB1 |
| -0.035263833 | 0.837951779 | 0.841 | 1 | 79989 | TTC26 |
| -0.035263833 | 0.837951779 | 0.845 | 1 | 127579 | DCST2 |
| -0.035263833 | 0.837951779 | 0.853 | 1 | 139189 | DGKK |
| -0.035263833 | 0.837951779 | 0.84 | 1 | 162962 | ZNF836 |
| -0.035521235 | 0.836780846 | 0.849 | 1 | 50 | ACO2 |
| -0.035521235 | 0.836780846 | 0.865 | 1 | 1524 | CX3CR1 |
| -0.035521235 | 0.836780846 | 0.86 | 1 | 2130 | EWSR1 |
| -0.035521235 | 0.836780846 | 0.874 | 1 | 6672 | SP100 |
| -0.035521235 | 0.836780846 | 0.864 | 1 | 29102 | RNASEN |
| -0.035521235 | 0.836780846 | 0.844 | 1 | 55616 | ASAP3 |
| -0.035521235 | 0.836780846 | 0.857 | 1 | 56344 | CABP5 |
| -0.035521235 | 0.836780846 | 0.851 | 1 | 391192 | OR2L3 |
| -0.035778634 | 0.835610271 | 0.853 | 1 | 334 | APLP2 |
| -0.035778634 | 0.835610271 | 0.844 | 1 | 7156 | TOP3A |
| -0.035778634 | 0.835610271 | 0.834 | 1 | 23423 | TMED3 |
| -0.035778634 | 0.835610271 | 0.847 | 1 | 57211 | GPR126 |
| -0.035778634 | 0.835610271 | 0.841 | 1 | 64397 | ZFP106 |
| -0.035778634 | 0.835610271 | 0.853 | 1 | 91355 | LRP5L |
| -0.035778634 | 0.835610271 | 0.836 | 1 | 151174 | AC016757.1 |
| -0.035778634 | 0.835610271 | 0.843 | 1 | 219293 | ATAD3C |
| -0.036036037 | 0.834439456 | 0.851 | 1 | 4000 | LMNA |
| -0.036036037 | 0.834439456 | 0.845 | 1 | 7553 | ZNF7 |
| -0.036036037 | 0.834439456 | 0.844 | 1 | 10464 | PIBF1 |
| -0.036036037 | 0.834439456 | 0.847 | 1 | 51157 | ZNF580 |
| -0.036036037 | 0.834439456 | 0.818 | 1 | 79783 | C7orf10 |
| -0.036036037 | 0.834439456 | 0.841 | 1 | 122525 | C14orf28 |
| -0.036036037 | 0.834439456 | 0.839 | 1 | 133522 | PPARGC1B |
| -0.036036037 | 0.834439456 | 0.855 | 1 | 151742 | PPM1L |
| -0.036293436 | 0.833269536 | 0.844 | 1 | 10804 | GJB6 |
| -0.036293436 | 0.833269536 | 0.832 | 1 | 83850 | ESYT3 |
| -0.036293436 | 0.833269536 | 0.865 | 1 | 84450 | ZNF512 |
| -0.036293436 | 0.833269536 | 0.85 | 1 | 254272 | TBC1D28 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.003877434 | 0.727330029 | 124044 | SPATA2L |
| 0.003863411 | 0.728277028 | 84233 | TMEM126A |
| 0.003789582 | 0.733269751 | 6944 | VPS72 |
| 0.003759122 | 0.735332906 | 25802 | LMOD1 |
| 0.003747421 | 0.736126006 | 92667 | C20orf72 |
| 0.003641461 | 0.743320465 | 113178 | SCAMP4 |
| 0.003619545 | 0.744811356 | 64798 | DEPDC6 |
| 0.003480524 | 0.754290521 | 162333 | MARCHF10 |
| 0.00346418 | 0.755407512 | 388630 | LOC388630 |
| 0.003414682 | 0.758793056 | 256051 | ZNF549 |
| 0.003402146 | 0.759651303 | 90580 | C19orf52 |
| 0.003286992 | 0.767548203 | 7779 | SLC30A1 |
| 0.003260432 | 0.769373059 | 100129094 | BTNL10 |
| 0.00321047 | 0.772809327 | 84314 | TMEM107 |
| 0.003151407 | 0.776877165 | 54537 | FAM35B |
| 0.003131441 | 0.778253734 | 340393 | AF205589.3 |
| 0.003126241 | 0.778612375 | 401 | PHOX2A |
| 0.003059656 | 0.783208609 | 10568 | SLC34A2 |
| 0.003033932 | 0.784986317 | 122618 | PLD4 |
| 0.002998457 | 0.787439704 | 181 | AGRP |
| 0.00283687 | 0.798641264 | 160298 | C11orf42 |
| 0.002744097 | 0.805091441 | 83692 | CD99L2 |
| 0.002724874 | 0.806429625 | 8694 | DGAT1 |
| 0.002723388 | 0.806533098 | 79728 | PALB2 |
| 0.002720138 | 0.806759417 | 728927 | RP11-468B6.3 |
| 0.002701007 | 0.808091819 | 4179 | CD46 |
| 0.002680855 | 0.809495986 | 201625 | DNAH12 |
| 0.002664047 | 0.810667694 | 11096 | ADAMTS5 |
| 0.002640923 | 0.812280297 | 6882 | TAF11 |
| 0.002609349 | 0.814483523 | 23071 | ERP44 |
| 0.002486487 | 0.823070407 | 22895 | RPH3A |
| 0.002479708 | 0.82354486 | 115286 | SLC25A26 |
| 0.00243021 | 0.82701081 | 90529 | C1orf201 |
| 0.002423338 | 0.827492297 | 7694 | ZNF135 |
| 0.002341523 | 0.833229303 | 4829 | NMBR |
| 0.002340316 | 0.833314061 | 9662 | CEP135 |
| 0.002302891 | 0.835941374 | 23645 | PPP1R15A |
| 0.00223157 | 0.84095341 | 9245 | GCNT3 |
| 0.002229062 | 0.84112972 | 83590 | TMUB1 |
| 0.002205289 | 0.842801929 | 84869 | CBR4 |
| 0.002087999 | 0.851062119 | 23229 | ARHGEF9 |
| 0.002073512 | 0.852083504 | 7486 | WRN |
| 0.002061625 | 0.852921784 | 5224 | PGAM2 |
| 0.002027822 | 0.855306506 | 161823 | ADAL |
| 0.002017235 | 0.85605365 | 26229 | B3GAT3 |
| 0.002007113 | 0.856768131 | 84335 | AKT1S1 |
| 0.001992068 | 0.857830226 | 161145 | C14orf83 |
| 0.00198919 | 0.858033538 | 254910 | LCE5A |
| 0.001866699 | 0.866691053 | 5914 | RARA |
| 0.001841997 | 0.868438959 | 84330 | ZNF414 |
| 0.001824538 | 0.869674742 | 120863 | DEPDC4 |
| 0.001676881 | 0.880138576 | 7070 | THY1 |
| 0.001627291 | 0.883657575 | 5693 | PSMB5 |
| 0.001586615 | 0.886545718 | 51130 | ASB3 |
| 0.001586523 | 0.886552334 | 201134 | CCDC46 |
| 0.001562099 | 0.888287246 | 50999 | TMED5 |
| 0.001552998 | 0.888933837 | 9900 | SV2A |
| 0.001517895 | 0.891428649 | 868 | CBLB |
| 0.001509815 | 0.892003 | 7827 | NPHS2 |
| 0.001495421 | 0.893026352 | 50837 | TAS2R7 |
| 0.001457717 | 0.895707846 | 57118 | CAMK1D |
| 0.001400512 | 0.899778605 | 2773 | GNAI3 |
| 0.001329377 | 0.904844224 | 129880 | BBS5 |
| 0.001293902 | 0.907371879 | 23620 | NTSR2 |
| 0.001281086 | 0.90828526 | 8398 | PLA2G6 |
| 0.001227967 | 0.912072361 | 8548 | BLZF1 |
| 0.001168254 | 0.916331947 | 79133 | C20orf7 |
| 0.001159803 | 0.916934967 | 387733 | IFITM5 |
| 0.001129715 | 0.919082463 | 115196 | ZNF554 |
| 0.001120242 | 0.919758618 | 645121 | CCNI2 |
| 0.001077803 | 0.922788799 | 338675 | OR5AP2 |
| 0.001051336 | 0.924679101 | 5387 | PMS2L3 |
| 0.000952434 | 0.931746602 | 51567 | TTRAP |
| 0.000911665 | 0.934661448 | 4821 | NKX2-2 |
| 0.000830222 | 0.940487087 | 80757 | TMEM121 |
| 0.000806727 | 0.942168295 | 328 | APEX1 |
| 0.000777195 | 0.944281757 | 10634 | GAS2L1 |
| 0.000724076 | 0.948084414 | 84725 | PLEKHA8 |
| 0.000702438 | 0.949633718 | 474382 | H2AFB1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.036550835 | 0.832100034 | 0.842 | 1 | 51 | ACOX1 |
| -0.036550835 | 0.832100034 | 0.848 | 1 | 22905 | EPN2 |
| -0.036550835 | 0.832100034 | 0.835 | 1 | 81872 | KRTAP2-3 |
| -0.036550835 | 0.832100034 | 0.833 | 1 | 150677 | OTOS |
| -0.036550835 | 0.832100034 | 0.85 | 1 | 441212 | RP9P |
| -0.036808237 | 0.830930889 | 0.853 | 1 | 741 | ZNHIT2 |
| -0.036808237 | 0.830930889 | 0.833 | 1 | 3309 | HSPA5 |
| -0.036808237 | 0.830930889 | 0.854 | 1 | 10808 | HSPH1 |
| -0.036808237 | 0.830930889 | 0.839 | 1 | 10973 | ASCC3 |
| -0.036808237 | 0.830930889 | 0.853 | 1 | 25782 | RAB3GAP2 |
| -0.036808237 | 0.830930889 | 0.852 | 1 | 153579 | BTNL9 |
| -0.037065636 | 0.829762101 | 0.853 | 1 | 598 | BCL2L1 |
| -0.037065636 | 0.829762101 | 0.825 | 1 | 113146 | AHNAK2 |
| -0.037065636 | 0.829762101 | 0.831 | 1 | 127687 | C1orf122 |
| -0.037065636 | 0.829762101 | 0.843 | 1 | 221443 | C6orf130 |
| -0.037065636 | 0.829762101 | 0.84 | 1 | 441531 | PGAM4 |
| -0.037323035 | 0.828593135 | 0.859 | 1 | 4249 | MGAT5 |
| -0.037323035 | 0.828593135 | 0.848 | 1 | 6715 | SRD5A1 |
| -0.037323035 | 0.828593135 | 0.847 | 1 | 84650 | EBPL |
| -0.037323035 | 0.828593135 | 0.854 | 1 | 130617 | ZFAND2B |
| -0.037323035 | 0.828593135 | 0.854 | 1 | 728373 | AC116655.15 |
| -0.037580434 | 0.827425003 | 0.833 | 1 | 6790 | AURKA |
| -0.037580434 | 0.827425003 | 0.845 | 1 | 64925 | CCDC71 |
| -0.037580434 | 0.827425003 | 0.835 | 1 | 283514 | SIAH3 |
| -0.037580434 | 0.827425003 | 0.839 | 1 | 284358 | MAMSTR |
| -0.037580434 | 0.827425003 | 0.837 | 1 | 386685 | KRTAP10-12 |
| -0.037580434 | 0.827425003 | 0.846 | 1 | 442229 | SLC25A51P1 |
| -0.037837837 | 0.826257288 | 0.839 | 1 | 2735 | GLI1 |
| -0.037837837 | 0.826257288 | 0.862 | 1 | 6733 | SRPK2 |
| -0.037837837 | 0.826257288 | 0.83 | 1 | 7791 | ZYX |
| -0.03809524 | 0.825089991 | 0.847 | 1 | 3219 | HOXB9 |
| -0.03809524 | 0.825089991 | 0.835 | 1 | 4255 | MGMT |
| -0.03809524 | 0.825089991 | 0.832 | 1 | 6000 | RGS7 |
| -0.03809524 | 0.825089991 | 0.863 | 1 | 6865 | TACR2 |
| -0.03809524 | 0.825089991 | 0.828 | 1 | 43849 | KLK12 |
| -0.03809524 | 0.825089991 | 0.849 | 1 | 54476 | RNF216 |
| -0.03809524 | 0.825089991 | 0.837 | 1 | 55154 | MSTO1 |
| -0.03809524 | 0.825089991 | 0.844 | 1 | 56912 | C11orf60 |
| -0.03809524 | 0.825089991 | 0.843 | 1 | 57658 | CALCOCO1 |
| -0.03809524 | 0.825089991 | 0.838 | 1 | 79071 | ELOVL6 |
| -0.03809524 | 0.825089991 | 0.819 | 1 | 116935 | RPL3P2 |
| -0.038352638 | 0.823922455 | 0.834 | 1 | 32 | ACACB |
| -0.038352638 | 0.823922455 | 0.817 | 1 | 2249 | FGF4 |
| -0.038352638 | 0.823922455 | 0.836 | 1 | 27429 | HTRA2 |
| -0.038352638 | 0.823922455 | 0.829 | 1 | 139341 | FUNDC1 |
| -0.038610037 | 0.822755873 | 0.837 | 1 | 3280 | HES1 |
| -0.038610037 | 0.822755873 | 0.843 | 1 | 4931 | NVL |
| -0.038610037 | 0.822755873 | 0.859 | 1 | 9732 | DOCK4 |
| -0.038610037 | 0.822755873 | 0.827 | 1 | 10015 | PDCD6IP |
| -0.038610037 | 0.822755873 | 0.822 | 1 | 23288 | IQCE |
| -0.038610037 | 0.822755873 | 0.839 | 1 | 55064 | C9orf68 |
| -0.038610037 | 0.822755873 | 0.841 | 1 | 84068 | SLC10A7 |
| -0.038610037 | 0.822755873 | 0.844 | 1 | 400710 | AC010624.2 |
| -0.038610037 | 0.822755873 | 0.825 | 1 | 643827 | LOC643827 |
| -0.038867436 | 0.821589649 | 0.842 | 1 | 1788 | DNMT3A |
| -0.038867436 | 0.821589649 | 0.835 | 1 | 9520 | NPEPPS |
| -0.038867436 | 0.821589649 | 0.822 | 1 | 10462 | CLEC10A |
| -0.038867436 | 0.821589649 | 0.838 | 1 | 146057 | TTBK2 |
| -0.038867436 | 0.821589649 | 0.833 | 1 | 147991 | DPY19L3 |
| -0.039124835 | 0.820423901 | 0.846 | 1 | 517 | ATP5G2 |
| -0.039124835 | 0.820423901 | 0.833 | 1 | 5627 | PROS1 |
| -0.039124835 | 0.820423901 | 0.826 | 1 | 81693 | AMN |
| -0.039124835 | 0.820423901 | 0.839 | 1 | 124491 | TMEM170A |
| -0.039124835 | 0.820423901 | 0.827 | 1 | 221710 | C6ORF228 |
| -0.039124835 | 0.820423901 | 0.848 | 1 | 375775 | PNPLA7 |
| -0.039382242 | 0.819257915 | 0.833 | 1 | 6009 | RHEB |
| -0.039382242 | 0.819257915 | 0.817 | 1 | 50636 | ANO7 |
| -0.039382242 | 0.819257915 | 0.851 | 1 | 84991 | RBM17 |
| -0.039382242 | 0.819257915 | 0.821 | 1 | 440348 | NPIPL2 |
| -0.039639641 | 0.818092823 | 0.836 | 1 | 25917 | THUMPD3 |
| -0.039639641 | 0.818092823 | 0.819 | 1 | 80255 | SLC35F5 |
| -0.039639641 | 0.818092823 | 0.813 | 1 | 81037 | CLPTM1L |
| -0.03989704 | 0.816928148 | 0.853 | 1 | 1762 | DMWD |
| -0.03989704 | 0.816928148 | 0.832 | 1 | 2643 | GCH1 |
| -0.03989704 | 0.816928148 | 0.846 | 1 | 4803 | NGF |
| -0.03989704 | 0.816928148 | 0.832 | 1 | 11180 | WDR6 |
| -0.03989704 | 0.816928148 | 0.857 | 1 | 55157 | DARS2 |
| -0.03989704 | 0.816928148 | 0.831 | 1 | 55331 | ACER3 |
| -0.03989704 | 0.816928148 | 0.84 | 1 | 348110 | C15orf38 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.000651641 | 0.953271687 | 2904 | GRIN2B |
| 0.000620809 | 0.955480218 | 79581 | GPR172A |
| 0.000605672 | 0.956564665 | 51200 | CPA4 |
| 0.000585241 | 0.958028436 | 8202 | NCOA3 |
| 0.000576141 | 0.95868057 | 55150 | C19orf73 |
| 0.000572426 | 0.958946705 | 9886 | RHOBTB1 |
| 0.000568618 | 0.959219515 | 51244 | C3orf19 |
| 0.000553296 | 0.960317552 | 10234 | LRRC17 |
| 0.000507327 | 0.96361202 | 55937 | APOM |
| 0.000505284 | 0.963758469 | 54777 | C10orf92 |
| 0.00042514 | 0.969503701 | 6645 | SNTB2 |
| 0.000338311 | 0.975730002 | 285973 | ATG9B |
| 0.000305343 | 0.978094459 | 598 | BCL2L1 |
| 0.000245445 | 0.982390821 | 57007 | CXCR7 |
| 0.000229843 | 0.983509958 | 6742 | SSBP1 |
| 0.000128527 | 0.990778446 | 144233 | BCDIN3D |
| 0.00010011 | 0.992817283 | 140609 | NEK7 |
| 7.68002E-05 | 0.99448967 | 135932 | TMEM139 |
| -6.50062E-07 | 0.99995333 | 522 | ATP5J |
| -3.3989E-05 | 0.997561276 | 517 | ATP5G2 |
| -6.14773E-05 | 0.995589018 | 79571 | GCC1 |
| -6.31489E-05 | 0.995469093 | 55515 | ACCN4 |
| -9.74164E-05 | 0.993010461 | 8859 | STK19 |
| -0.000153415 | 0.98899287 | 283820 | NOMO2 |
| -0.000156479 | 0.988773048 | 8360 | HIST1H4D |
| -0.000163537 | 0.988266706 | 27341 | RRP7A |
| -0.000171802 | 0.987673759 | 23082 | PPRC1 |
| -0.000242009 | 0.982637286 | 55745 | MUDENG |
| -0.000248695 | 0.982157648 | 54623 | PAF1 |
| -0.000257146 | 0.981551468 | 83752 | LONP2 |
| -0.000309522 | 0.977794707 | 128439 | SNHG11 |
| -0.000329767 | 0.976342738 | 11338 | U2AF2 |
| -0.000343604 | 0.97535044 | 90522 | YIF1B |
| -0.000357627 | 0.97434479 | 100288367 | LOC100288367 |
| -0.000577905 | 0.958554089 | 4000 | LMNA |
| -0.000667521 | 0.952134311 | 159371 | TMEM20 |
| -0.000735684 | 0.947253287 | 83941 | TM2D1 |
| -0.00073912 | 0.947007298 | 23506 | KIAA0240 |
| -0.000823071 | 0.940998733 | 361 | AQP4 |
| -0.000884641 | 0.936594069 | 57718 | PPP4R4 |
| -0.000902843 | 0.935292304 | 7750 | ZMYM2 |
| -0.000914451 | 0.93446219 | 58490 | RPRD1B |
| -0.000938782 | 0.932722509 | 126129 | CPT1C |
| -0.000940175 | 0.93262291 | 59339 | PLEKHA2 |
| -0.00101874 | 0.927007735 | 114796 | AC093734.11 |
| -0.001066937 | 0.923564792 | 8531 | CSDAP1 |
| -0.001186177 | 0.915053189 | 9364 | RAB28 |
| -0.001334391 | 0.904486954 | 8453 | CUL2 |
| -0.001493006 | 0.893198073 | 25890 | ABI3BP |
| -0.001493564 | 0.893158436 | 387923 | SERP2 |
| -0.001494864 | 0.893065989 | 57530 | CGN |
| -0.001557363 | 0.888623774 | 55894 | DEFB103B |
| -0.00160881 | 0.884969592 | 150223 | YDJC |
| -0.001625341 | 0.883796036 | 10491 | CRTAP |
| -0.00163797 | 0.882899523 | 57232 | ZNF630 |
| -0.001695361 | 0.878827751 | 122011 | CSNK1A1L |
| -0.001697869 | 0.87864989 | 54765 | TRIM44 |
| -0.001723964 | 0.876799583 | 9679 | FAM53B |
| -0.001885551 | 0.865357518 | 55352 | C17orf79 |
| -0.001900781 | 0.864280522 | 84992 | PIGY |
| -0.001954457 | 0.860486686 | 85451 | UNK |
| -0.002007484 | 0.856741905 | 7844 | RNF103 |
| -0.002008599 | 0.856663227 | 84450 | ZNF512 |
| -0.002018628 | 0.855955303 | 3162 | HMOX1 |
| -0.002019464 | 0.855896354 | 81567 | TXNDC5 |
| -0.002098028 | 0.850355089 | 79577 | CDC73 |
| -0.002113166 | 0.849288344 | 285636 | C5orf51 |
| -0.002171671 | 0.845167696 | 8797 | TNFRSF10A |
| -0.002273731 | 0.837989807 | 79368 | FCRL2 |
| -0.002275495 | 0.837865829 | 284293 | HMSD |
| -0.002295183 | 0.836482763 | 91603 | ZNF830 |
| -0.002297876 | 0.836293578 | 6596 | HLTF |
| -0.002397707 | 0.829288602 | 9416 | DDX23 |
| -0.002417209 | 0.827921748 | 79651 | RHBDF2 |
| -0.002421574 | 0.827615917 | 1592 | CYP26A1 |
| -0.002511932 | 0.821290255 | 11157 | LSM6 |
| -0.0025501 | 0.818621755 | 7305 | TYROBP |
| -0.002571831 | 0.817103386 | 26128 | KIAA1279 |
| -0.002620121 | 0.81373167 | 833 | CARS |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.040154438 | 0.815763891 | 0.838 | 1 | 8740 | TNFSF14 |
| -0.040154438 | 0.815763891 | 0.813 | 1 | 53841 | MUPCDH |
| -0.040154438 | 0.815763891 | 0.829 | 1 | 81555 | YIPF5 |
| -0.040154438 | 0.815763891 | 0.84 | 1 | 84734 | FAM167B |
| -0.040154438 | 0.815763891 | 0.83 | 1 | 84904 | C9orf100 |
| -0.040154438 | 0.815763891 | 0.825 | 1 | 116228 | FAM36A |
| -0.040154438 | 0.815763891 | 0.821 | 1 | 100132594 | PGAM1P5 |
| -0.040411841 | 0.814599931 | 0.823 | 1 | 4343 | MOV10 |
| -0.040411841 | 0.814599931 | 0.835 | 1 | 5301 | PIN1P1 |
| -0.040411841 | 0.814599931 | 0.836 | 1 | 10565 | ARFGEF1 |
| -0.040411841 | 0.814599931 | 0.84 | 1 | 22869 | ZNF510 |
| -0.040411841 | 0.814599931 | 0.829 | 1 | 27236 | ARFIP1 |
| -0.040411841 | 0.814599931 | 0.833 | 1 | 27241 | BBS9 |
| -0.040411841 | 0.814599931 | 0.834 | 1 | 57147 | SCYL3 |
| -0.040411841 | 0.814599931 | 0.818 | 1 | 390892 | OR7A10 |
| -0.040411841 | 0.814599931 | 0.819 | 1 | 449520 | GGNBP1 |
| -0.04066924 | 0.813435972 | 0.816 | 1 | 9585 | KIF20B |
| -0.04066924 | 0.813435972 | 0.823 | 1 | 54212 | SNTG1 |
| -0.04066924 | 0.813435972 | 0.816 | 1 | 55119 | PRPF38B |
| -0.04066924 | 0.813435972 | 0.834 | 1 | 65082 | VPS33A |
| -0.04066924 | 0.813435972 | 0.804 | 1 | 79848 | CSPP1 |
| -0.04066924 | 0.813435972 | 0.83 | 1 | 91373 | UAP1L1 |
| -0.04066924 | 0.813435972 | 0.843 | 1 | 126231 | ZNF573 |
| -0.040926639 | 0.812272847 | 0.813 | 1 | 1017 | CDK2 |
| -0.040926639 | 0.812272847 | 0.82 | 1 | 8351 | HIST1H3D |
| -0.040926639 | 0.812272847 | 0.816 | 1 | 26503 | SLC17A5 |
| -0.040926639 | 0.812272847 | 0.844 | 1 | 54985 | HCFC1R1 |
| -0.040926639 | 0.812272847 | 0.828 | 1 | 64786 | TBC1D15 |
| -0.041184042 | 0.811110198 | 0.798 | 1 | 2108 | ETFA |
| -0.041184042 | 0.811110198 | 0.806 | 1 | 3491 | CYR61 |
| -0.041184042 | 0.811110198 | 0.83 | 1 | 5313 | PKLR |
| -0.041184042 | 0.811110198 | 0.827 | 1 | 7132 | TNFRSF1A |
| -0.041184042 | 0.811110198 | 0.822 | 1 | 9159 | PCSK7 |
| -0.041184042 | 0.811110198 | 0.818 | 1 | 26223 | FBXL21 |
| -0.041184042 | 0.811110198 | 0.833 | 1 | 54433 | GAR1 |
| -0.041184042 | 0.811110198 | 0.838 | 1 | 55140 | ELP3 |
| -0.041184042 | 0.811110198 | 0.837 | 1 | 56135 | PCDHAC1 |
| -0.041184042 | 0.811110198 | 0.832 | 1 | 64403 | CDH24 |
| -0.041184042 | 0.811110198 | 0.827 | 1 | 83659 | TEKT1 |
| -0.041184042 | 0.811110198 | 0.858 | 1 | 339977 | LRRC66 |
| -0.041441441 | 0.809947908 | 0.809 | 1 | 3360 | HTR4 |
| -0.041441441 | 0.809947908 | 0.844 | 1 | 4891 | SLC11A2 |
| -0.041441441 | 0.809947908 | 0.812 | 1 | 6599 | SMARCC1 |
| -0.041441441 | 0.809947908 | 0.809 | 1 | 54453 | RIN2 |
| -0.041441441 | 0.809947908 | 0.82 | 1 | 57828 | C19orf15 |
| -0.041441441 | 0.809947908 | 0.826 | 1 | 79760 | GEMIN7 |
| -0.041698843 | 0.808785498 | 0.827 | 1 | 10266 | RAMP2 |
| -0.041698843 | 0.808785498 | 0.841 | 1 | 11235 | PDCD10 |
| -0.041698843 | 0.808785498 | 0.836 | 1 | 83699 | SH3BGRL2 |
| -0.041698843 | 0.808785498 | 0.837 | 1 | 122416 | ANKRD9 |
| -0.041698843 | 0.808785498 | 0.833 | 1 | 353137 | LCE1F |
| -0.041698843 | 0.808785498 | 0.806 | 1 | 374900 | ZNF568 |
| -0.041956242 | 0.807623982 | 0.82 | 1 | 23394 | ADNP |
| -0.041956242 | 0.807623982 | 0.817 | 1 | 26032 | SUSD5 |
| -0.041956242 | 0.807623982 | 0.836 | 1 | 55659 | ZNF416 |
| -0.041956242 | 0.807623982 | 0.818 | 1 | 78988 | MRP63 |
| -0.041956242 | 0.807623982 | 0.853 | 1 | 85443 | DCLK3 |
| -0.042213641 | 0.806462944 | 0.808 | 1 | 2568 | GABRP |
| -0.042213641 | 0.806462944 | 0.807 | 1 | 4638 | MYLK |
| -0.042213641 | 0.806462944 | 0.834 | 1 | 4689 | NCF4 |
| -0.042213641 | 0.806462944 | 0.816 | 1 | 10287 | RGS19 |
| -0.042213641 | 0.806462944 | 0.826 | 1 | 11247 | NXPH4 |
| -0.042213641 | 0.806462944 | 0.851 | 1 | 126119 | JOSD2 |
| -0.042213641 | 0.806462944 | 0.834 | 1 | 644139 | PIRT |
| -0.04247104 | 0.805302262 | 0.809 | 1 | 120824 | TRIM51GP |
| -0.04247104 | 0.805302262 | 0.806 | 1 | 168474 | SEPHS1P1 |
| -0.042728439 | 0.804141581 | 0.822 | 1 | 4015 | LOX |
| -0.042728439 | 0.804141581 | 0.823 | 1 | 27124 | INPP5J |
| -0.042728439 | 0.804141581 | 0.812 | 1 | 49861 | CLDN20 |
| -0.042728439 | 0.804141581 | 0.822 | 1 | 54953 | C1orf27 |
| -0.042728439 | 0.804141581 | 0.83 | 1 | 55633 | TBC1D22B |
| -0.042728439 | 0.804141581 | 0.813 | 1 | 115653 | KIR3DL3 |
| -0.042728439 | 0.804141581 | 0.819 | 1 | 399670 | RPL13AP17 |
| -0.042728439 | 0.804141581 | 0.805 | 1 | 494119 | SPANXN2 |
| -0.042728439 | 0.804141581 | 0.827 | 1 | 728262 | FAM157A |
| -0.042985845 | 0.802981734 | 0.822 | 1 | 1188 | CLCNKB |
| -0.042985845 | 0.802981734 | 0.827 | 1 | 1958 | EGR1 |
| -0.042985845 | 0.802981734 | 0.822 | 1 | 23272 | C3orf63 |
| -0.042985845 | 0.802981734 | 0.815 | 1 | 337882 | KRTAP19-1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.002623186 | 0.813517809 | 54919 | HEATR2 |
| -0.002649095 | 0.811710298 | 25874 | BRP44 |
| -0.00265996 | 0.810952604 | 9741 | LAPTM4A |
| -0.00268847 | 0.808965325 | 54982 | CLN6 |
| -0.002729053 | 0.806138635 | 142 | PARP1 |
| -0.00275747 | 0.804160833 | 161779 | PGBD4 |
| -0.002759327 | 0.80403161 | 2738 | GLI4 |
| -0.002768707 | 0.803379118 | 643253 | CCT6P1 |
| -0.0027714 | 0.803191781 | 196541 | C13orf39 |
| -0.002786258 | 0.802158415 | 9214 | FAIM3 |
| -0.002817833 | 0.799963772 | 23028 | KDM1 |
| -0.002871231 | 0.796255767 | 51601 | LIPT1 |
| -0.002911441 | 0.793466508 | 57510 | XPO5 |
| -0.00300115 | 0.78725338 | 56731 | SLC2A4RG |
| -0.003012015 | 0.786501765 | 10089 | KCNK7 |
| -0.003083522 | 0.781560302 | 6648 | SOD2 |
| -0.003200905 | 0.77346772 | 3581 | IL9R |
| -0.003382551 | 0.760993302 | 8678 | BECN1 |
| -0.003423319 | 0.758202016 | 51475 | CABP2 |
| -0.003441149 | 0.756982148 | 64151 | NCAPG |
| -0.003486932 | 0.753852785 | 161291 | TMEM30B |
| -0.003489068 | 0.753706932 | 387509 | GPR153 |
| -0.003500955 | 0.752895117 | 390407 | EIF4A1P6 |
| -0.003664028 | 0.741786361 | 3785 | KCNQ2 |
| -0.003683344 | 0.740473986 | 2969 | GTF2I |
| -0.003699688 | 0.739364147 | 5948 | RBP2 |
| -0.003728941 | 0.737379134 | 168451 | THAP5 |
| -0.003741199 | 0.736547828 | 3012 | HIST1H2AE |
| -0.003808156 | 0.73201263 | 3182 | HNRNPAB |
| -0.003909751 | 0.725149095 | 51150 | SDF4 |
| -0.003922938 | 0.724259794 | 4327 | MMP19 |
| -0.003993887 | 0.719481647 | 65243 | ZNF643 |
| -0.004102634 | 0.712179303 | 6886 | TAL1 |
| -0.004176648 | 0.70722425 | 53940 | FTHL17 |
| -0.004183705 | 0.706752419 | 246778 | IL27 |
| -0.0042697 | 0.701012313 | 90627 | STARD13 |
| -0.004275086 | 0.700653315 | 152877 | FAM53A |
| -0.004283072 | 0.700121164 | 79400 | NOX5 |
| -0.004294495 | 0.699360371 | 6936 | C2orf3 |
| -0.004333406 | 0.696770787 | 150568 | AC013402.2 |
| -0.004536039 | 0.683343232 | 646577 | HMGB1P16 |
| -0.004538639 | 0.683171511 | 129303 | TMEM150A |
| -0.00454189 | 0.682956934 | 9719 | ADAMTSL2 |
| -0.004609867 | 0.678475499 | 901 | CCNG2 |
| -0.00468091 | 0.673803985 | 9377 | COX5A |
| -0.004815937 | 0.664959848 | 10236 | HNRNPR |
| -0.004837389 | 0.663559079 | 27153 | ZNF777 |
| -0.004870171 | 0.661420643 | 149499 | C1orf92 |
| -0.004895895 | 0.659744561 | 3885 | KRT34 |
| -0.004909175 | 0.658879995 | 5692 | PSMB4 |
| -0.004924219 | 0.657901049 | 7019 | TFAM |
| -0.004924869 | 0.657858729 | 7978 | MTERF |
| -0.004927934 | 0.657659411 | 2934 | GSN |
| -0.004981517 | 0.654178023 | 3030 | HADHA |
| -0.005049867 | 0.649748206 | 890 | CCNA2 |
| -0.005070576 | 0.648408473 | 2079 | ERH |
| -0.005073362 | 0.648228288 | 644246 | AC217773.2 |
| -0.005109951 | 0.645864248 | 7013 | TERF1 |
| -0.005130103 | 0.644563735 | 57178 | ZMIZ1 |
| -0.00516047 | 0.64260608 | 8351 | HIST1H3D |
| -0.005225476 | 0.638423562 | 5694 | PSMB6 |
| -0.005263551 | 0.635979235 | 22990 | PCNX |
| -0.005296519 | 0.633865952 | 26261 | FBXO24 |
| -0.005305713 | 0.633277118 | 642521 | C1DP3 |
| -0.005312306 | 0.632854998 | 4258 | MGST2 |
| -0.005340909 | 0.631025136 | 113246 | C12orf57 |
| -0.005384927 | 0.628213465 | 6480 | ST6GAL1 |
| -0.005417709 | 0.626123071 | 6474 | SHOX2 |
| -0.005482343 | 0.622010291 | 56123 | PCDHB13 |
| -0.005487823 | 0.62166214 | 440577 | LOC440577 |
| -0.00550296 | 0.620700896 | 10804 | GJB6 |
| -0.00551076 | 0.62020576 | 23527 | ACAP2 |
| -0.005545771 | 0.617985666 | 678 | ZFP36L2 |
| -0.005595826 | 0.614817739 | 3232 | HOXD3 |
| -0.005679498 | 0.609538198 | 91869 | RFT1 |
| -0.005816568 | 0.600933075 | 27335 | EIF3K |
| -0.005978805 | 0.590819597 | 10725 | NFAT5 |
| -0.005998864 | 0.589574635 | 23732 | FRRS1L |
| -0.006087737 | 0.584073305 | 2352 | FOLR3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.042985845 | 0.802981734 | 0.831 | 1 | 400745 | SH2D5 |
| -0.043243244 | 0.801822305 | 0.824 | 1 | 5509 | PPP1R3D |
| -0.043243244 | 0.801822305 | 0.818 | 1 | 8729 | GBF1 |
| -0.043243244 | 0.801822305 | 0.825 | 1 | 10636 | RGS14 |
| -0.043243244 | 0.801822305 | 0.808 | 1 | 23753 | SDF2L1 |
| -0.043243244 | 0.801822305 | 0.825 | 1 | 90187 | EMILIN3 |
| -0.043243244 | 0.801822305 | 0.83 | 1 | 91646 | TDRD12 |
| -0.043243244 | 0.801822305 | 0.841 | 1 | 197135 | PATL2 |
| -0.043500643 | 0.800663352 | 0.803 | 1 | 1016 | CDH18 |
| -0.043500643 | 0.800663352 | 0.812 | 1 | 2632 | GBE1 |
| -0.043500643 | 0.800663352 | 0.809 | 1 | 5236 | PGM1 |
| -0.043500643 | 0.800663352 | 0.817 | 1 | 10002 | NR2E3 |
| -0.043500643 | 0.800663352 | 0.846 | 1 | 80324 | PUS1 |
| -0.043500643 | 0.800663352 | 0.801 | 1 | 90313 | TP53I13 |
| -0.043500643 | 0.800663352 | 0.834 | 1 | 92856 | IMP4 |
| -0.043758042 | 0.799504757 | 0.823 | 1 | 402 | ARL2 |
| -0.043758042 | 0.799504757 | 0.811 | 1 | 1070 | CETN3 |
| -0.043758042 | 0.799504757 | 0.804 | 1 | 6891 | TAP2 |
| -0.043758042 | 0.799504757 | 0.813 | 1 | 50939 | IMPG2 |
| -0.043758042 | 0.799504757 | 0.803 | 1 | 84569 | LYZL1 |
| -0.043758042 | 0.799504757 | 0.818 | 1 | 100128927 | ZBTB42 |
| -0.044015441 | 0.798346102 | 0.817 | 1 | 9785 | DHX38 |
| -0.044015441 | 0.798346102 | 0.82 | 1 | 23355 | VPS8 |
| -0.044015441 | 0.798346102 | 0.811 | 1 | 23649 | POLA2 |
| -0.044272844 | 0.797188401 | 0.803 | 1 | 1468 | SLC25A10 |
| -0.044272844 | 0.797188401 | 0.817 | 1 | 9110 | MTMR4 |
| -0.044272844 | 0.797188401 | 0.798 | 1 | 9550 | ATP6V1G1 |
| -0.044272844 | 0.797188401 | 0.811 | 1 | 79792 | GSDMD |
| -0.044272844 | 0.797188401 | 0.806 | 1 | 83875 | BCO2 |
| -0.044272844 | 0.797188401 | 0.793 | 1 | 283229 | EFCAB4A |
| -0.044272844 | 0.797188401 | 0.817 | 1 | 284359 | IZUMO1 |
| -0.044272844 | 0.797188401 | 0.83 | 1 | 644397 | LOC644397 |
| -0.044272844 | 0.797188401 | 0.818 | 1 | 645715 | EEF1A1P24 |
| -0.044530243 | 0.796031177 | 0.832 | 1 | 2810 | SFN |
| -0.044530243 | 0.796031177 | 0.804 | 1 | 3931 | LCAT |
| -0.044530243 | 0.796031177 | 0.835 | 1 | 4212 | MEIS2 |
| -0.044530243 | 0.796031177 | 0.802 | 1 | 25936 | NSL1 |
| -0.044530243 | 0.796031177 | 0.811 | 1 | 55684 | C9orf86 |
| -0.044530243 | 0.796031177 | 0.804 | 1 | 115861 | NXNL1 |
| -0.044530243 | 0.796031177 | 0.815 | 1 | 440145 | C13orf37 |
| -0.044787645 | 0.79487437 | 0.838 | 1 | 575 | BAI1 |
| -0.044787645 | 0.79487437 | 0.812 | 1 | 1736 | DKC1 |
| -0.044787645 | 0.79487437 | 0.797 | 1 | 7584 | ZNF35 |
| -0.044787645 | 0.79487437 | 0.802 | 1 | 9734 | HDAC9 |
| -0.044787645 | 0.79487437 | 0.798 | 1 | 85358 | SHANK3 |
| -0.044787645 | 0.79487437 | 0.798 | 1 | 259217 | HSPA12A |
| -0.045045044 | 0.793717384 | 0.824 | 1 | 2530 | FUT8 |
| -0.045045044 | 0.793717384 | 0.832 | 1 | 3567 | IL5 |
| -0.045045044 | 0.793717384 | 0.806 | 1 | 54790 | TET2 |
| -0.045045044 | 0.793717384 | 0.827 | 1 | 57587 | KIAA1430 |
| -0.045045044 | 0.793717384 | 0.822 | 1 | 150684 | COMMD1 |
| -0.045045044 | 0.793717384 | 0.814 | 1 | 401466 | C8orf59 |
| -0.045302443 | 0.792561471 | 0.814 | 1 | 2049 | EPHB3 |
| -0.045302443 | 0.792561471 | 0.814 | 1 | 6183 | MRPS12 |
| -0.045302443 | 0.792561471 | 0.816 | 1 | 24148 | PRPF6 |
| -0.045302443 | 0.792561471 | 0.812 | 1 | 25996 | REXO2 |
| -0.045302443 | 0.792561471 | 0.818 | 1 | 125950 | RAVER1 |
| -0.045302443 | 0.792561471 | 0.795 | 1 | 100130932 | LOC100130932 |
| -0.045559846 | 0.791405916 | 0.801 | 1 | 8690 | JRKL |
| -0.045559846 | 0.791405916 | 0.796 | 1 | 9439 | MED23 |
| -0.045559846 | 0.791405916 | 0.808 | 1 | 10024 | TROAP |
| -0.045559846 | 0.791405916 | 0.797 | 1 | 27133 | KCNH5 |
| -0.045559846 | 0.791405916 | 0.788 | 1 | 54928 | IMPAD1 |
| -0.045559846 | 0.791405916 | 0.825 | 1 | 126868 | C1orf161 |
| -0.045559846 | 0.791405916 | 0.798 | 1 | 151306 | GPBAR1 |
| -0.045559846 | 0.791405916 | 0.812 | 1 | 388595 | TMEM82 |
| -0.045817245 | 0.790250838 | 0.796 | 1 | 429 | ASCL1 |
| -0.045817245 | 0.790250838 | 0.801 | 1 | 1382 | CRABP2 |
| -0.045817245 | 0.790250838 | 0.81 | 1 | 4582 | MUC1 |
| -0.045817245 | 0.790250838 | 0.826 | 1 | 6670 | SP3 |
| -0.045817245 | 0.790250838 | 0.798 | 1 | 51046 | ST8SIA3 |
| -0.045817245 | 0.790250838 | 0.808 | 1 | 51533 | PHF7 |
| -0.045817245 | 0.790250838 | 0.805 | 1 | 55311 | ZNF444 |
| -0.045817245 | 0.790250838 | 0.823 | 1 | 57666 | FBRSL1 |
| -0.045817245 | 0.790250838 | 0.81 | 1 | 90993 | CREB3L1 |
| -0.045817245 | 0.790250838 | 0.803 | 1 | 170958 | ZNF525 |
| -0.045817245 | 0.790250838 | 0.81 | 1 | 440352 | SNX29P2 |
| -0.045817245 | 0.790250838 | 0.807 | 1 | 100144596 | LINC00029 |
| -0.046074644 | 0.7890957 | 0.804 | 1 | 910 | CD1B |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.006110582 | 0.582663 | 6388 | SDF2 |
| -0.006113647 | 0.582473934 | 147015 | DHRS13 |
| -0.006171781 | 0.578893006 | 79083 | MLPH |
| -0.006212085 | 0.576416373 | 64693 | CTAGE1 |
| -0.006234373 | 0.575048983 | 9702 | CEP57 |
| -0.006272633 | 0.572705209 | 116071 | BATF2 |
| -0.006298079 | 0.571148932 | 51147 | ING4 |
| -0.006318509 | 0.56990093 | 54796 | BNC2 |
| -0.006361413 | 0.567284286 | 55364 | IMPACT |
| -0.006365128 | 0.567057967 | 84186 | ZCCHC7 |
| -0.006392431 | 0.56539613 | 94101 | ORMDL1 |
| -0.006468766 | 0.560762227 | 6196 | RPS6KA2 |
| -0.006491054 | 0.559412777 | 10988 | METAP2 |
| -0.006519842 | 0.557672024 | 84142 | FAM175A |
| -0.006536187 | 0.556684911 | 313 | AOAH |
| -0.006541387 | 0.556370974 | 84680 | ACCS |
| -0.00658002 | 0.554041803 | 55267 | C22orf26 |
| -0.006629332 | 0.551075697 | 100128239 | AP000911.1 |
| -0.006653384 | 0.549631774 | 5547 | PRCP |
| -0.006654684 | 0.549553812 | 7174 | TPP2 |
| -0.006694802 | 0.547149718 | 64802 | NMNAT1 |
| -0.006809027 | 0.540333569 | 25913 | POT1 |
| -0.006879234 | 0.536165297 | 487 | ATP2A1 |
| -0.00692446 | 0.53348875 | 283948 | NHLRC4 |
| -0.006972193 | 0.53067112 | 64651 | CSRNP1 |
| -0.006998288 | 0.529133976 | 5558 | PRIM2 |
| -0.007023176 | 0.527670085 | 3631 | INPP4A |
| -0.007055958 | 0.525744975 | 79573 | TTC13 |
| -0.007126536 | 0.521612585 | 2941 | GSTA4 |
| -0.007152724 | 0.520083487 | 3784 | KCNQ1 |
| -0.007169347 | 0.519114077 | 729769 | UQCRHP2 |
| -0.007221538 | 0.516076624 | 23389 | MED13L |
| -0.007253112 | 0.514243484 | 100128190 | SLC9B1P1 |
| -0.007264071 | 0.513608038 | 4804 | NGFR |
| -0.007298245 | 0.511629045 | 25884 | CHRDL2 |
| -0.007426586 | 0.504232705 | 340348 | TSPAN33 |
| -0.007481748 | 0.501071095 | 23174 | ZCCHC14 |
| -0.007552048 | 0.49705717 | 55929 | DMAP1 |
| -0.007580279 | 0.49545005 | 3936 | LCP1 |
| -0.007660608 | 0.49089241 | 151195 | CCNYL1 |
| -0.007681224 | 0.489726365 | 440419 | TBC1D3P5 |
| -0.007688747 | 0.489301324 | 355 | FAS |
| -0.007694318 | 0.488986552 | 79925 | SPEF2 |
| -0.007701376 | 0.488588035 | 54961 | SSH3 |
| -0.00772645 | 0.487173617 | 93233 | CCDC114 |
| -0.00778412 | 0.483928978 | 10172 | ZNF256 |
| -0.007793964 | 0.483376265 | 26292 | MYCBP |
| -0.007927691 | 0.475902379 | 157627 | RP11-403C10.2 |
| -0.007936606 | 0.475406319 | 51198 | C9orf53 |
| -0.007948679 | 0.474735111 | 8632 | DNAH17 |
| -0.007967901 | 0.473667473 | 6840 | SVIL |
| -0.008002633 | 0.471741736 | 340286 | FAM183B |
| -0.008043867 | 0.469461113 | 80235 | PIGZ |
| -0.008098564 | 0.466445208 | 2679 | GGT3P |
| -0.008159113 | 0.463119268 | 4090 | SMAD5 |
| -0.008277517 | 0.456653744 | 16 | AARS |
| -0.00830677 | 0.455064207 | 64759 | TNS3 |
| -0.008335559 | 0.453502953 | 346 | APOC4 |
| -0.008341316 | 0.453191102 | 5226 | PGD |
| -0.008382177 | 0.4509812 | 54955 | C1orf109 |
| -0.008396478 | 0.450209171 | 10157 | AASS |
| -0.008412545 | 0.449342757 | 1047 | CLGN |
| -0.008437711 | 0.447987556 | 120796 | OR56A1 |
| -0.008506339 | 0.444303572 | 442590 | SPDYE5 |
| -0.008584997 | 0.440102756 | 100129196 | RP5-1166H10.2 |
| -0.008652974 | 0.436490625 | 387266 | KRTAP5-3 |
| -0.008738875 | 0.431950659 | 80010 | RMI1 |
| -0.008739432 | 0.431921273 | 79767 | ELMO3 |
| -0.00880676 | 0.428382248 | 1727 | CYB5R3 |
| -0.008836849 | 0.426806152 | 8091 | HMGA2 |
| -0.008863408 | 0.425417691 | 9656 | MDC1 |
| -0.008930365 | 0.42192921 | 80013 | C10orf97 |
| -0.008937237 | 0.421572089 | 51091 | SEPSECS |
| -0.008957017 | 0.42054525 | 5648 | MASP1 |
| -0.009008651 | 0.417871743 | 129787 | TMEM18 |
| -0.009085915 | 0.413889885 | 84804 | MFSD9 |
| -0.009095481 | 0.413398474 | 57817 | HAMP |
| -0.009213421 | 0.407368064 | 1960 | EGR3 |
| -0.009264961 | 0.404749304 | 7326 | AC087742.2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.046074644 | 0.7890957 | 0.798 | 1 | 2525 | FUT3 |
| -0.046074644 | 0.7890957 | 0.803 | 1 | 6731 | SRP72 |
| -0.046074644 | 0.7890957 | 0.814 | 1 | 9181 | ARHGEF2 |
| -0.046074644 | 0.7890957 | 0.823 | 1 | 22893 | BAHD1 |
| -0.046074644 | 0.7890957 | 0.809 | 1 | 57336 | ZNF287 |
| -0.046074644 | 0.7890957 | 0.803 | 1 | 79053 | ALG8 |
| -0.046074644 | 0.7890957 | 0.816 | 1 | 387486 | LINC00320 |
| -0.046332043 | 0.787941575 | 0.822 | 1 | 6343 | SCT |
| -0.046332043 | 0.787941575 | 0.788 | 1 | 9091 | PIGQ |
| -0.046332043 | 0.787941575 | 0.799 | 1 | 9881 | LBA1 |
| -0.046332043 | 0.787941575 | 0.819 | 1 | 26011 | ODZ4 |
| -0.046332043 | 0.787941575 | 0.81 | 1 | 339906 | RP11-427P5.1 |
| -0.046332043 | 0.787941575 | 0.797 | 1 | 647030 | LOC647030 |
| -0.046589449 | 0.786787808 | 0.809 | 1 | 56124 | PCDHB12 |
| -0.046589449 | 0.786787808 | 0.786 | 1 | 81890 | QTRT1 |
| -0.046589449 | 0.786787808 | 0.797 | 1 | 84232 | MAF1 |
| -0.046589449 | 0.786787808 | 0.811 | 1 | 149428 | BNIPL |
| -0.046589449 | 0.786787808 | 0.813 | 1 | 285368 | PRRT3 |
| -0.046846848 | 0.785634518 | 0.818 | 1 | 1369 | CPN1 |
| -0.046846848 | 0.785634518 | 0.793 | 1 | 23287 | AGTPBP1 |
| -0.046846848 | 0.785634518 | 0.807 | 1 | 24138 | IFIT5 |
| -0.046846848 | 0.785634518 | 0.801 | 1 | 51764 | GNG13 |
| -0.046846848 | 0.785634518 | 0.785 | 1 | 80789 | INTS5 |
| -0.046846848 | 0.785634518 | 0.803 | 1 | 84647 | PLA2G12B |
| -0.046846848 | 0.785634518 | 0.803 | 1 | 338773 | TMEM119 |
| -0.046846848 | 0.785634518 | 0.808 | 1 | 342371 | ATXN1L |
| -0.046846848 | 0.785634518 | 0.79 | 1 | 374403 | TBC1D10C |
| -0.047104247 | 0.784481704 | 0.775 | 1 | 1191 | CLU |
| -0.047104247 | 0.784481704 | 0.804 | 1 | 5516 | PPP2CB |
| -0.047104247 | 0.784481704 | 0.833 | 1 | 5626 | PROP1 |
| -0.047104247 | 0.784481704 | 0.798 | 1 | 5875 | RABGGTA |
| -0.047104247 | 0.784481704 | 0.801 | 1 | 10942 | PRSS21 |
| -0.047104247 | 0.784481704 | 0.805 | 1 | 51368 | TEX264 |
| -0.047104247 | 0.784481704 | 0.786 | 1 | 79086 | C19orf42 |
| -0.047104247 | 0.784481704 | 0.799 | 1 | 201305 | SPNS3 |
| -0.047361646 | 0.783328772 | 0.808 | 1 | 1627 | DBN1 |
| -0.047361646 | 0.783328772 | 0.805 | 1 | 4637 | MYL6 |
| -0.047361646 | 0.783328772 | 0.794 | 1 | 90288 | C3orf25 |
| -0.047619045 | 0.782176912 | 0.794 | 1 | 1915 | EEF1A1 |
| -0.047619045 | 0.782176912 | 0.789 | 1 | 2215 | FCGR3B |
| -0.047619045 | 0.782176912 | 0.785 | 1 | 6166 | RPL36AL |
| -0.047619045 | 0.782176912 | 0.778 | 1 | 7384 | UQCRC1 |
| -0.047619045 | 0.782176912 | 0.786 | 1 | 23424 | TDRD7 |
| -0.047619045 | 0.782176912 | 0.801 | 1 | 219972 | MPEG1 |
| -0.047619045 | 0.782176912 | 0.799 | 1 | 100507436 | MICA |
| -0.047876447 | 0.781025469 | 0.809 | 1 | 3857 | KRT9 |
| -0.047876447 | 0.781025469 | 0.794 | 1 | 5818 | PVRL1 |
| -0.047876447 | 0.781025469 | 0.803 | 1 | 6820 | SULT2B1 |
| -0.047876447 | 0.781025469 | 0.806 | 1 | 375307 | C2orf62 |
| -0.04813385 | 0.779874504 | 0.795 | 1 | 4134 | MAP4 |
| -0.04813385 | 0.779874504 | 0.808 | 1 | 5579 | PRKCB |
| -0.04813385 | 0.779874504 | 0.804 | 1 | 22895 | RPH3A |
| -0.04813385 | 0.779874504 | 0.815 | 1 | 29907 | SNX15 |
| -0.04813385 | 0.779874504 | 0.792 | 1 | 51068 | NMD3 |
| -0.04813385 | 0.779874504 | 0.788 | 1 | 125965 | COX6B2 |
| -0.04813385 | 0.779874504 | 0.808 | 1 | 219833 | C11orf45 |
| -0.048391249 | 0.778723419 | 0.811 | 1 | 183 | AGT |
| -0.048391249 | 0.778723419 | 0.784 | 1 | 580 | BARD1 |
| -0.048391249 | 0.778723419 | 0.783 | 1 | 3295 | HSD17B4 |
| -0.048391249 | 0.778723419 | 0.804 | 1 | 8549 | LGR5 |
| -0.048391249 | 0.778723419 | 0.815 | 1 | 54551 | MAGEL2 |
| -0.048391249 | 0.778723419 | 0.809 | 1 | 55869 | HDAC8 |
| -0.048391249 | 0.778723419 | 0.795 | 1 | 56913 | C1GALT1 |
| -0.048391249 | 0.778723419 | 0.797 | 1 | 93109 | TMEM44 |
| -0.048391249 | 0.778723419 | 0.792 | 1 | 140596 | DEFB104A |
| -0.048391249 | 0.778723419 | 0.792 | 1 | 152118 | RP11-292E2.1 |
| -0.048391249 | 0.778723419 | 0.808 | 1 | 342865 | VSTM2B |
| -0.048648648 | 0.777573407 | 0.784 | 1 | 410 | ARSA |
| -0.048648648 | 0.777573407 | 0.799 | 1 | 5202 | PFDN2 |
| -0.048648648 | 0.777573407 | 0.79 | 1 | 10874 | NMU |
| -0.048648648 | 0.777573407 | 0.796 | 1 | 79728 | PALB2 |
| -0.048906047 | 0.776423812 | 0.809 | 1 | 50937 | CDON |
| -0.048906047 | 0.776423812 | 0.793 | 1 | 58529 | MYOZ1 |
| -0.048906047 | 0.776423812 | 0.791 | 1 | 81888 | HYI |
| -0.04916345 | 0.775274694 | 0.799 | 1 | 23471 | TRAM1 |
| -0.04916345 | 0.775274694 | 0.786 | 1 | 64943 | NT5DC2 |
| -0.04916345 | 0.775274694 | 0.793 | 1 | 154790 | CLEC2L |
| -0.049420848 | 0.774125576 | 0.791 | 1 | 2533 | FYB |
| -0.049420848 | 0.774125576 | 0.803 | 1 | 57117 | INTS12 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.009297464 | 0.403103054 | 4016 | LOXL1 |
| -0.0093751 | 0.399186999 | 55762 | ZNF701 |
| -0.009427012 | 0.396581322 | 10953 | TOMM34 |
| -0.009444657 | 0.395698011 | 151647 | FAM19A4 |
| -0.009472516 | 0.394305736 | 83744 | ZNF484 |
| -0.009528236 | 0.391530097 | 3139 | HLA-L |
| -0.009599279 | 0.388008416 | 57143 | ADCK1 |
| -0.009605593 | 0.387696326 | 146434 | ZNF597 |
| -0.00963011 | 0.386486113 | 81027 | TUBB1 |
| -0.009648312 | 0.385589033 | 27348 | TOR1B |
| -0.009678865 | 0.384086221 | 375387 | LRRC33 |
| -0.009745171 | 0.380837023 | 10454 | MAP3K7IP1 |
| -0.009792254 | 0.378540188 | 57113 | TRPC7 |
| -0.009816585 | 0.377356559 | 8636 | SSNA1 |
| -0.009914095 | 0.37263605 | 1586 | CYP17A1 |
| -0.009927281 | 0.372000486 | 55277 | FGGY |
| -0.009946319 | 0.371084064 | 81854 | MGC3771 |
| -0.009953841 | 0.370722413 | 7372 | UMPS |
| -0.009961178 | 0.370369852 | 28962 | OSTM1 |
| -0.010056551 | 0.365805686 | 339175 | METTL2A |
| -0.010092954 | 0.364072859 | 55900 | ZNF302 |
| -0.010230117 | 0.35758993 | 1349 | COX7B |
| -0.010240797 | 0.357088298 | 144717 | FAM109A |
| -0.010257605 | 0.356299579 | 1389 | CREBL2 |
| -0.010273857 | 0.35553804 | 60370 | AVPI1 |
| -0.01030636 | 0.354018062 | 155054 | ZNF425 |
| -0.010310539 | 0.353822917 | 10589 | DRAP1 |
| -0.0103501 | 0.351979107 | 7203 | CCT3 |
| -0.010364587 | 0.351305395 | 27177 | IL1F8 |
| -0.010365981 | 0.351240665 | 1132 | CHRM4 |
| -0.010380374 | 0.350572228 | 80267 | EDEM3 |
| -0.010385018 | 0.350356728 | 2657 | GDF1 |
| -0.0104256 | 0.348477095 | 643 | CXCR5 |
| -0.010487449 | 0.345624894 | 9371 | KIF3B |
| -0.01052831 | 0.343748748 | 7813 | EVI5 |
| -0.010546884 | 0.342898101 | 2058 | EPRS |
| -0.01067866 | 0.336901456 | 2961 | GTF2E2 |
| -0.010680982 | 0.336796433 | 2162 | F13A1 |
| -0.010716549 | 0.335189819 | 5146 | PDE6C |
| -0.010734844 | 0.334365398 | 6389 | SDHA |
| -0.010754718 | 0.333471239 | 440275 | EIF2AK4 |
| -0.010785549 | 0.332087159 | 2838 | GPR15 |
| -0.010830125 | 0.330092698 | 54627 | KIAA1383 |
| -0.010841826 | 0.329570383 | 4916 | NTRK3 |
| -0.010842568 | 0.329537272 | 54508 | FLJ11235 |
| -0.010844797 | 0.329437912 | 114803 | MYSM1 |
| -0.010845912 | 0.329388231 | 91452 | ACBD5 |
| -0.010963108 | 0.324188679 | 440307 | TTLL13 |
| -0.011026908 | 0.321380705 | 401397 | AC073346.1 |
| -0.011045481 | 0.320566267 | 285359 | LOC285359 |
| -0.011091728 | 0.318544239 | 202374 | STK32A |
| -0.011120237 | 0.31730181 | 23143 | LRCH1 |
| -0.011225919 | 0.312724203 | 55744 | C7orf44 |
| -0.011226755 | 0.312688231 | 79713 | TMEM149 |
| -0.011234835 | 0.312340081 | 5822 | PWP2H |
| -0.011248393 | 0.311756402 | 23191 | CYFIP1 |
| -0.011332158 | 0.308166564 | 51314 | TXNDC3 |
| -0.011334108 | 0.308083326 | 10569 | SLU7 |
| -0.011361132 | 0.306931227 | 8645 | KCNK5 |
| -0.011382027 | 0.306042403 | 2542 | SLC37A4 |
| -0.0113993 | 0.305308908 | 8697 | CDC23 |
| -0.011407287 | 0.304970205 | 10105 | PPIF |
| -0.011443411 | 0.303441077 | 388403 | YPEL2 |
| -0.011450562 | 0.303139061 | 56111 | PCDHGA4 |
| -0.011464956 | 0.30253157 | 119587 | CPXM2 |
| -0.011529591 | 0.299813896 | 2956 | MSH6 |
| -0.011545379 | 0.299152553 | 91272 | BOD1 |
| -0.011560516 | 0.298519403 | 134187 | POU5F2 |
| -0.011576581 | 0.297848403 | 5413 | SEPTIN5 |
| -0.0116258 | 0.295798838 | 2149 | F2R |
| -0.011631651 | 0.29555586 | 51075 | TMX2 |
| -0.011640473 | 0.295189708 | 4241 | MFI2 |
| -0.011653938 | 0.294631392 | 4726 | NDUFS6 |
| -0.011670933 | 0.293927759 | 84986 | ARHGAP19 |
| -0.011681984 | 0.293470889 | 4360 | MRC1 |
| -0.011718666 | 0.291957617 | 1490 | CTGF |
| -0.011750612 | 0.29064396 | 338323 | NLRP14 |
| -0.011769 | 0.289889663 | 53342 | IL17D |
| -0.011780979 | 0.289399028 | 494119 | SPANXN2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.049420848 | 0.774125576 | 0.794 | 1 | 84981 | MIR22HG |
| -0.049420848 | 0.774125576 | 0.784 | 1 | 124912 | SPACA3 |
| -0.049420848 | 0.774125576 | 0.781 | 1 | 373156 | GSTK1 |
| -0.049420848 | 0.774125576 | 0.782 | 1 | 375757 | C9orf119 |
| -0.049678247 | 0.772977412 | 0.793 | 1 | 2475 | MTOR |
| -0.049678247 | 0.772977412 | 0.789 | 1 | 3594 | IL12RB1 |
| -0.049678247 | 0.772977412 | 0.813 | 1 | 6888 | TALDO1 |
| -0.049678247 | 0.772977412 | 0.792 | 1 | 144699 | FBXL14 |
| -0.04993565 | 0.771829724 | 0.796 | 1 | 6996 | TDG |
| -0.04993565 | 0.771829724 | 0.789 | 1 | 54900 | LAX1 |
| -0.04993565 | 0.771829724 | 0.78 | 1 | 57105 | CYSLTR2 |
| -0.04993565 | 0.771829724 | 0.799 | 1 | 57192 | MCOLN1 |
| -0.04993565 | 0.771829724 | 0.804 | 1 | 391257 | SUMO1P1 |
| -0.04993565 | 0.771829724 | 0.82 | 1 | 401251 | C6orf26 |
| -0.04993565 | 0.771829724 | 0.765 | 1 | 401498 | TMEM215 |
| -0.050193049 | 0.770682633 | 0.796 | 1 | 6774 | STAT3 |
| -0.050450452 | 0.769535899 | 0.799 | 1 | 3822 | KLRC2 |
| -0.050450452 | 0.769535899 | 0.8 | 1 | 8733 | GPAA1 |
| -0.050450452 | 0.769535899 | 0.766 | 1 | 9132 | KCNQ4 |
| -0.050450452 | 0.769535899 | 0.786 | 1 | 81697 | OR2B2 |
| -0.050450452 | 0.769535899 | 0.784 | 1 | 126823 | KLHDC9 |
| -0.050450452 | 0.769535899 | 0.779 | 1 | 220296 | HEPACAM |
| -0.050707851 | 0.768389165 | 0.81 | 1 | 841 | CASP8 |
| -0.050707851 | 0.768389165 | 0.803 | 1 | 6144 | RPL21 |
| -0.050707851 | 0.768389165 | 0.799 | 1 | 8653 | DDX3Y |
| -0.050707851 | 0.768389165 | 0.813 | 1 | 9123 | SLC16A3 |
| -0.050707851 | 0.768389165 | 0.795 | 1 | 9760 | TOX |
| -0.050707851 | 0.768389165 | 0.795 | 1 | 91272 | BOD1 |
| -0.050707851 | 0.768389165 | 0.797 | 1 | 116496 | FAM129A |
| -0.050707851 | 0.768389165 | 0.788 | 1 | 128710 | C20orf94 |
| -0.050707851 | 0.768389165 | 0.793 | 1 | 100128998 | C20orf181 |
| -0.050707851 | 0.768389165 | 0.79 | 1 | 100133150 | LOC100133150 |
| -0.05096525 | 0.767243445 | 0.785 | 1 | 64105 | CENPK |
| -0.05096525 | 0.767243445 | 0.772 | 1 | 84548 | TMEM185A |
| -0.05096525 | 0.767243445 | 0.78 | 1 | 133418 | EMB |
| -0.05096525 | 0.767243445 | 0.797 | 1 | 283129 | C11orf85 |
| -0.051222648 | 0.766098201 | 0.756 | 1 | 3480 | IGF1R |
| -0.051222648 | 0.766098201 | 0.783 | 1 | 8968 | HIST1H3F |
| -0.051222648 | 0.766098201 | 0.79 | 1 | 9150 | CTDP1 |
| -0.051222648 | 0.766098201 | 0.768 | 1 | 10249 | GLYAT |
| -0.051222648 | 0.766098201 | 0.783 | 1 | 26259 | FBXW8 |
| -0.051480047 | 0.764953434 | 0.809 | 1 | 118 | ADD1 |
| -0.051480047 | 0.764953434 | 0.789 | 1 | 1778 | DYNC1H1 |
| -0.051480047 | 0.764953434 | 0.793 | 1 | 3700 | ITIH4 |
| -0.051480047 | 0.764953434 | 0.791 | 1 | 8674 | VAMP4 |
| -0.051480047 | 0.764953434 | 0.763 | 1 | 51762 | RAB8B |
| -0.051480047 | 0.764953434 | 0.774 | 1 | 55686 | MREG |
| -0.051480047 | 0.764953434 | 0.791 | 1 | 123970 | C16orf78 |
| -0.051480047 | 0.764953434 | 0.751 | 1 | 220004 | C11orf66 |
| -0.051737454 | 0.763808727 | 0.8 | 1 | 522 | ATP5J |
| -0.051737454 | 0.763808727 | 0.767 | 1 | 3029 | HAGH |
| -0.051737454 | 0.763808727 | 0.774 | 1 | 27031 | NPHP3 |
| -0.051737454 | 0.763808727 | 0.785 | 1 | 53940 | FTHL17 |
| -0.051737454 | 0.763808727 | 0.758 | 1 | 63970 | TP53AIP1 |
| -0.051737454 | 0.763808727 | 0.749 | 1 | 79447 | C16orf53 |
| -0.051737454 | 0.763808727 | 0.767 | 1 | 90506 | LRRC46 |
| -0.051737454 | 0.763808727 | 0.799 | 1 | 130502 | TTC32 |
| -0.051737454 | 0.763808727 | 0.762 | 1 | 149499 | C1orf92 |
| -0.051737454 | 0.763808727 | 0.776 | 1 | 256297 | PTF1A |
| -0.051737454 | 0.763808727 | 0.786 | 1 | 259307 | IL4I1 |
| -0.051994853 | 0.762664974 | 0.749 | 1 | 23786 | BCL2L13 |
| -0.051994853 | 0.762664974 | 0.772 | 1 | 51614 | ERGIC3 |
| -0.051994853 | 0.762664974 | 0.78 | 1 | 56242 | ZNF253 |
| -0.051994853 | 0.762664974 | 0.769 | 1 | 84278 | HIATL2 |
| -0.051994853 | 0.762664974 | 0.759 | 1 | 84437 | KIAA1826 |
| -0.051994853 | 0.762664974 | 0.788 | 1 | 84517 | AC078802.1 |
| -0.052252252 | 0.761521697 | 0.767 | 1 | 1421 | CRYGD |
| -0.052252252 | 0.761521697 | 0.762 | 1 | 2237 | FEN1 |
| -0.052252252 | 0.761521697 | 0.785 | 1 | 3196 | TLX2 |
| -0.052252252 | 0.761521697 | 0.789 | 1 | 3887 | KRT81 |
| -0.052252252 | 0.761521697 | 0.77 | 1 | 4543 | MTNR1A |
| -0.052252252 | 0.761521697 | 0.793 | 1 | 26152 | ZNF337 |
| -0.052252252 | 0.761521697 | 0.767 | 1 | 79088 | ZNF426 |
| -0.052252252 | 0.761521697 | 0.793 | 1 | 83899 | KRTAP9-2 |
| -0.052509651 | 0.760379016 | 0.795 | 1 | 25825 | BACE2 |
| -0.052509651 | 0.760379016 | 0.772 | 1 | 51001 | MTERFD1 |
| -0.052509651 | 0.760379016 | 0.776 | 1 | 55723 | ASF1B |
| -0.052509651 | 0.760379016 | 0.762 | 1 | 347404 | LANCL3 |
| -0.05276705 | 0.759236217 | 0.805 | 1 | 2968 | GTF2H4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.011791473 | 0.288969606 | 2581 | GALC |
| -0.01183512 | 0.287188292 | 389458 | LOC389458 |
| -0.011898084 | 0.28463164 | 27113 | BBC3 |
| -0.011914985 | 0.283947974 | 1020 | CDK5 |
| -0.012171574 | 0.273705512 | 92196 | DAPL1 |
| -0.012222279 | 0.271711797 | 8999 | CDKL2 |
| -0.01223268 | 0.271303982 | 100506742 | CASP12 |
| -0.012271404 | 0.269789636 | 728492 | SERF1B |
| -0.01233186 | 0.267436951 | 6518 | SLC2A5 |
| -0.012361578 | 0.266285688 | 23413 | FREQ |
| -0.012396588 | 0.264933795 | 79086 | C19orf42 |
| -0.01241479 | 0.264232695 | 1579 | CYP4A11 |
| -0.012487875 | 0.261430889 | 5360 | PLTP |
| -0.012550188 | 0.259058207 | 26122 | EPC2 |
| -0.012599593 | 0.257187843 | 10274 | STAG1 |
| -0.012600893 | 0.257138699 | 2618 | GART |
| -0.012609808 | 0.256802231 | 114088 | TRIM9 |
| -0.012631168 | 0.2559973 | 7805 | LAPTM5 |
| -0.012669243 | 0.254566789 | 8658 | TNKS |
| -0.012673422 | 0.254410148 | 6748 | SSR4 |
| -0.012688559 | 0.253843248 | 1773 | DNASE1 |
| -0.012751615 | 0.2514911 | 136 | ADORA2B |
| -0.012810213 | 0.249318913 | 643037 | LOC643037 |
| -0.012832036 | 0.248513311 | 83642 | RP3-402G11.1 |
| -0.012876705 | 0.246870026 | 427 | ASAH1 |
| -0.012946262 | 0.244326338 | 79191 | IRX3 |
| -0.012985916 | 0.242884472 | 653562 | LOC653562 |
| -0.013040613 | 0.240905479 | 267004 | PGBD3 |
| -0.01305733 | 0.240302876 | 79145 | CHCHD7 |
| -0.013060765 | 0.240179226 | 28959 | TMEM176B |
| -0.01309364 | 0.238997743 | 100132346 | LOC100132346 |
| -0.01316979 | 0.23627679 | 5803 | PTPRZ1 |
| -0.013173783 | 0.236134723 | 6423 | SFRP2 |
| -0.013229967 | 0.23414211 | 55608 | ANKRD10 |
| -0.013249841 | 0.233440146 | 9169 | SCAF11 |
| -0.013264977 | 0.23290655 | 50839 | TAS2R10 |
| -0.013281787 | 0.232314914 | 55806 | HR |
| -0.013291259 | 0.231981993 | 84106 | PRAM1 |
| -0.01330974 | 0.231333479 | 1741 | DLG3 |
| -0.013318654 | 0.231021106 | 2963 | GTF2F2 |
| -0.013320233 | 0.230965793 | 1901 | S1PR1 |
| -0.013353572 | 0.229800433 | 10542 | HBXIP |
| -0.013363973 | 0.229437724 | 100288560 | LOC100288560 |
| -0.013379203 | 0.228907317 | 220074 | AP000812.2 |
| -0.013398797 | 0.228226259 | 26519 | TIMM10 |
| -0.013497143 | 0.224829704 | 84624 | FNDC1 |
| -0.013551934 | 0.222953096 | 23457 | ABCB9 |
| -0.013585644 | 0.221804053 | 51629 | SLC25A39 |
| -0.013655201 | 0.219446674 | 10806 | SDCCAG8 |
| -0.013657336 | 0.219374612 | 387921 | NHLRC3 |
| -0.013659008 | 0.219318211 | 10664 | CTCF |
| -0.01366718 | 0.219042495 | 57129 | MRPL47 |
| -0.013707113 | 0.217699081 | 23216 | TBC1D1 |
| -0.013737202 | 0.216690704 | 8329 | HIST1H2AI |
| -0.013737944 | 0.216665864 | 55356 | SLC22A15 |
| -0.013840004 | 0.213270903 | 257364 | SNX33 |
| -0.013861828 | 0.212549999 | 4584 | MUC3A |
| -0.013879751 | 0.211959183 | 5867 | RAB4A |
| -0.013895074 | 0.211455062 | 6602 | SMARCD1 |
| -0.013953672 | 0.209535152 | 80164 | AC010336.2 |
| -0.013995183 | 0.208182812 | 56616 | DIABLO |
| -0.014078669 | 0.205482066 | 26580 | BSCL2 |
| -0.014115444 | 0.204300568 | 728769 | CTD-2037K23.2 |
| -0.014195867 | 0.201733872 | 3816 | KLK1 |
| -0.014236728 | 0.200438917 | 163688 | CALML6 |
| -0.014240257 | 0.200327322 | 80774 | LIMD2 |
| -0.014240535 | 0.200318545 | 6627 | SNRPA1 |
| -0.014240628 | 0.200315595 | 348327 | ZNF530 |
| -0.014288268 | 0.198814094 | 81875 | ISG20L2 |
| -0.014317242 | 0.197904885 | 23231 | AC092436.3 |
| -0.014322628 | 0.197736219 | 9590 | AKAP12 |
| -0.014330615 | 0.197486296 | 610 | HCN2 |
| -0.014354946 | 0.196726412 | 55755 | CDK5RAP2 |
| -0.014355131 | 0.19672063 | 29095 | ORMDL2 |
| -0.014377048 | 0.196037903 | 1676 | DFFA |
| -0.01439005 | 0.195633739 | 3746 | KCNC1 |
| -0.014445769 | 0.193908557 | 57535 | KIAA1324 |
| -0.014452456 | 0.193702266 | 343990 | C2orf55 |
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| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.05276705 | 0.759236217 | 0.776 | 1 | 4967 | OGDH |
| -0.05276705 | 0.759236217 | 0.765 | 1 | 5167 | ENPP1 |
| -0.05276705 | 0.759236217 | 0.786 | 1 | 8527 | DGKD |
| -0.05276705 | 0.759236217 | 0.77 | 1 | 8649 | MAPKSP1 |
| -0.05276705 | 0.759236217 | 0.795 | 1 | 9236 | CCPG1 |
| -0.05276705 | 0.759236217 | 0.782 | 1 | 9943 | OXSR1 |
| -0.05276705 | 0.759236217 | 0.752 | 1 | 10231 | RCAN2 |
| -0.05276705 | 0.759236217 | 0.786 | 1 | 57804 | POLD4 |
| -0.05276705 | 0.759236217 | 0.765 | 1 | 114131 | UCN3 |
| -0.05276705 | 0.759236217 | 0.782 | 1 | 120892 | LRRK2 |
| -0.05276705 | 0.759236217 | 0.776 | 1 | 152065 | C3orf22 |
| -0.053024452 | 0.758094549 | 0.779 | 1 | 4240 | MFGE8 |
| -0.053024452 | 0.758094549 | 0.783 | 1 | 5379 | PMS2P1 |
| -0.053024452 | 0.758094549 | 0.793 | 1 | 5930 | RBBP6 |
| -0.053024452 | 0.758094549 | 0.785 | 1 | 7703 | PCGF2 |
| -0.053281851 | 0.756953359 | 0.79 | 1 | 6667 | SP1 |
| -0.053281851 | 0.756953359 | 0.777 | 1 | 51175 | TUBE1 |
| -0.053281851 | 0.756953359 | 0.746 | 1 | 54960 | GEMIN8 |
| -0.053281851 | 0.756953359 | 0.782 | 1 | 219527 | LRRC55 |
| -0.053281851 | 0.756953359 | 0.786 | 1 | 284266 | SIGLEC15 |
| -0.053539254 | 0.755812645 | 0.768 | 1 | 3300 | DNAJB2 |
| -0.053539254 | 0.755812645 | 0.775 | 1 | 25813 | SAMM50 |
| -0.053539254 | 0.755812645 | 0.769 | 1 | 80759 | KHDC1 |
| -0.053539254 | 0.755812645 | 0.772 | 1 | 83590 | TMUB1 |
| -0.053539254 | 0.755812645 | 0.767 | 1 | 117285 | DEFB118 |
| -0.053539254 | 0.755812645 | 0.778 | 1 | 140771 | AL135932.1 |
| -0.053539254 | 0.755812645 | 0.789 | 1 | 340980 | OR52B6 |
| -0.053796653 | 0.754672468 | 0.772 | 1 | 6235 | RPS29 |
| -0.053796653 | 0.754672468 | 0.774 | 1 | 7095 | SEC62 |
| -0.053796653 | 0.754672468 | 0.786 | 1 | 29904 | EEF2K |
| -0.053796653 | 0.754672468 | 0.768 | 1 | 56180 | MOSPD1 |
| -0.053796653 | 0.754672468 | 0.782 | 1 | 79727 | LIN28 |
| -0.053796653 | 0.754672468 | 0.767 | 1 | 255967 | PAN3 |
| -0.054054055 | 0.753532231 | 0.754 | 1 | 222 | ALDH3B2 |
| -0.054054055 | 0.753532231 | 0.776 | 1 | 4942 | OAT |
| -0.054054055 | 0.753532231 | 0.778 | 1 | 11057 | ABHD2 |
| -0.054054055 | 0.753532231 | 0.784 | 1 | 161753 | ODF3L1 |
| -0.054054055 | 0.753532231 | 0.788 | 1 | 353139 | LCE2A |
| -0.054311454 | 0.752393067 | 0.769 | 1 | 728 | C5AR1 |
| -0.054311454 | 0.752393067 | 0.77 | 1 | 2124 | EVI2B |
| -0.054311454 | 0.752393067 | 0.773 | 1 | 5613 | PRKX |
| -0.054311454 | 0.752393067 | 0.75 | 1 | 9294 | S1PR2 |
| -0.054311454 | 0.752393067 | 0.775 | 1 | 399940 | AP004607.4 |
| -0.054568853 | 0.751254499 | 0.775 | 1 | 9328 | GTF3C5 |
| -0.054568853 | 0.751254499 | 0.795 | 1 | 55110 | MAGOHB |
| -0.054568853 | 0.751254499 | 0.758 | 1 | 64927 | TTC23 |
| -0.054568853 | 0.751254499 | 0.772 | 1 | 80739 | C6orf25 |
| -0.054568853 | 0.751254499 | 0.766 | 1 | 403282 | OR6C65 |
| -0.054826252 | 0.750116348 | 0.76 | 1 | 10692 | RRH |
| -0.054826252 | 0.750116348 | 0.756 | 1 | 84435 | GPR123 |
| -0.054826252 | 0.750116348 | 0.775 | 1 | 643314 | KIAA0754 |
| -0.055083655 | 0.748978257 | 0.774 | 1 | 70 | ACTC1 |
| -0.055083655 | 0.748978257 | 0.751 | 1 | 27163 | NAAA |
| -0.055083655 | 0.748978257 | 0.767 | 1 | 80217 | C10orf79 |
| -0.055083655 | 0.748978257 | 0.768 | 1 | 196527 | ANO6 |
| -0.055341057 | 0.747841239 | 0.78 | 1 | 9668 | ZNF432 |
| -0.055341057 | 0.747841239 | 0.765 | 1 | 11236 | RNF139 |
| -0.055341057 | 0.747841239 | 0.774 | 1 | 30968 | STOML2 |
| -0.055341057 | 0.747841239 | 0.788 | 1 | 51009 | DERL2 |
| -0.055341057 | 0.747841239 | 0.779 | 1 | 56122 | PCDHB14 |
| -0.055341057 | 0.747841239 | 0.763 | 1 | 56894 | AGPAT3 |
| -0.055341057 | 0.747841239 | 0.749 | 1 | 79692 | ZNF322 |
| -0.055341057 | 0.747841239 | 0.774 | 1 | 158801 | NKAPP1 |
| -0.055598456 | 0.746704698 | 0.769 | 1 | 664 | BNIP3 |
| -0.055598456 | 0.746704698 | 0.794 | 1 | 3177 | SLC29A2 |
| -0.055598456 | 0.746704698 | 0.761 | 1 | 23208 | SYT11 |
| -0.055598456 | 0.746704698 | 0.766 | 1 | 23438 | HARS2 |
| -0.055598456 | 0.746704698 | 0.781 | 1 | 56675 | NRIP3 |
| -0.055598456 | 0.746704698 | 0.764 | 1 | 64225 | ATL2 |
| -0.055598456 | 0.746704698 | 0.778 | 1 | 148304 | C1orf74 |
| -0.055855855 | 0.745568752 | 0.775 | 1 | 2017 | CTTN |
| -0.055855855 | 0.745568752 | 0.774 | 1 | 10586 | MAB21L2 |
| -0.055855855 | 0.745568752 | 0.758 | 1 | 55150 | C19orf73 |
| -0.055855855 | 0.745568752 | 0.779 | 1 | 83737 | ITCH |
| -0.055855855 | 0.745568752 | 0.799 | 1 | 112399 | EGLN3 |
| -0.055855855 | 0.745568752 | 0.79 | 1 | 119695 | OR52R1 |
| -0.055855855 | 0.745568752 | 0.763 | 1 | 256691 | MAMDC2 |
| -0.055855855 | 0.745568752 | 0.763 | 1 | 347088 | GPR144 |
| -0.056113254 | 0.744433284 | 0.768 | 1 | 10659 | CUGBP2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.014571974 | 0.190042332 | 3394 | IRF8 |
| -0.014590361 | 0.189483792 | 22934 | RPIA |
| -0.014659268 | 0.187401533 | 386676 | KRTAP10-9 |
| -0.014714245 | 0.185752407 | 401805 | LOC401805 |
| -0.014733654 | 0.185172752 | 366 | AQP9 |
| -0.014761606 | 0.184340268 | 402644 | LOC402644 |
| -0.014869424 | 0.181155294 | 7088 | TLE1 |
| -0.014869609 | 0.18114984 | 5782 | PTPN12 |
| -0.014879731 | 0.180852935 | 8666 | EIF3G |
| -0.014947245 | 0.178881899 | 347736 | TXNDC6 |
| -0.014988477 | 0.177686051 | 4190 | MDH1 |
| -0.015001665 | 0.177304804 | 9410 | SNRNP40 |
| -0.015048469 | 0.175956681 | 29988 | SLC2A8 |
| -0.015078929 | 0.175083458 | 648359 | FAM108A4P |
| -0.01513372 | 0.173520893 | 55017 | C14orf119 |
| -0.015149321 | 0.173077852 | 84333 | PCGF5 |
| -0.015211634 | 0.171316788 | 80341 | BPIL1 |
| -0.015260389 | 0.169948295 | 240 | ALOX5 |
| -0.015280263 | 0.169392824 | 646498 | RP11-694I15.6 |
| -0.015283141 | 0.169312477 | 5522 | PPP2R2C |
| -0.015334682 | 0.167878777 | 2720 | GLB1 |
| -0.015410275 | 0.165792465 | 3996 | LLGL1 |
| -0.015476024 | 0.163993806 | 1892 | ECHS1 |
| -0.015602879 | 0.160564989 | 84971 | ATG4D |
| -0.015618573 | 0.160144612 | 22925 | PLA2R1 |
| -0.015660642 | 0.159021795 | 2020 | EN2 |
| -0.015777467 | 0.155935019 | 4999 | ORC2 |
| -0.015787311 | 0.155676991 | 5024 | P2RX3 |
| -0.01578889 | 0.155635655 | 93550 | ANUBL1 |
| -0.015859375 | 0.153798088 | 10594 | PRPF8 |
| -0.015862068 | 0.153728187 | 10721 | POLQ |
| -0.015894478 | 0.152889088 | 26751 | SH3YL1 |
| -0.01591751 | 0.152294889 | 54554 | WDR5B |
| -0.015983537 | 0.150601253 | 7802 | DNALI1 |
| -0.01601409 | 0.149822459 | 26167 | PCDHB5 |
| -0.016071852 | 0.148358405 | 55299 | BRIX1 |
| -0.016121071 | 0.147119582 | 122704 | MRPL52 |
| -0.016142245 | 0.146589041 | 25937 | WWTR1 |
| -0.016150231 | 0.14638941 | 55696 | RBM22 |
| -0.01617679 | 0.145726696 | 3592 | IL12A |
| -0.01621338 | 0.144817546 | 80318 | GKAP1 |
| -0.016265107 | 0.143539637 | 90586 | AOC4 |
| -0.016285537 | 0.143037349 | 9188 | DDX21 |
| -0.016287023 | 0.143000841 | 6130 | RPL7A |
| -0.016311632 | 0.142397657 | 163115 | ZNF781 |
| -0.016346829 | 0.141538367 | 51023 | MRPS18C |
| -0.016353237 | 0.141382352 | 25813 | SAMM50 |
| -0.016390476 | 0.140478358 | 644096 | SDHAF1 |
| -0.016394468 | 0.140381709 | 390152 | OR8H3 |
| -0.016447773 | 0.139096081 | 283165 | PRR10 |
| -0.016467368 | 0.138625741 | 135924 | OR9A2 |
| -0.01652058 | 0.137354761 | 374900 | ZNF568 |
| -0.016527453 | 0.137191251 | 56098 | PCDHGC4 |
| -0.016594131 | 0.135612816 | 7109 | TRAPPC10 |
| -0.016640842 | 0.134515405 | 646127 | LOC646127 |
| -0.016669167 | 0.133853287 | 100133150 | LOC100133150 |
| -0.01671987 | 0.132674351 | 286257 | C9orf142 |
| -0.016764354 | 0.131646693 | 53918 | PELO |
| -0.016768811 | 0.131544039 | 2253 | FGF8 |
| -0.016813572 | 0.130516812 | 8905 | AP1S2 |
| -0.016838368 | 0.129950508 | 11006 | LILRB4 |
| -0.016862884 | 0.129392415 | 214 | ALCAM |
| -0.016866971 | 0.129299566 | 8403 | SOX14 |
| -0.016905138 | 0.128434926 | 122786 | FRMD6 |
| -0.016909132 | 0.12834473 | 84059 | GPR98 |
| -0.016986769 | 0.126600727 | 10328 | COX4NB |
| -0.017000511 | 0.126293942 | 23140 | ZZEF1 |
| -0.017073134 | 0.124682434 | 53822 | FXYD7 |
| -0.017073411 | 0.124676324 | 55052 | MRPL20 |
| -0.017123096 | 0.123583093 | 3660 | IRF2 |
| -0.017186059 | 0.122208461 | 6284 | S100A13 |
| -0.017201103 | 0.12188179 | 6419 | SETMAR |
| -0.017239735 | 0.121046074 | 57799 | RAB40C |
| -0.017247442 | 0.120879859 | 10963 | AP005668.1 |
| -0.01726193 | 0.120567963 | 337967 | KRTAP6-2 |
| -0.01727521 | 0.120282546 | 55825 | PECR |
| -0.017297776 | 0.119798861 | 7033 | TFF3 |
| -0.0173274 | 0.11916621 | 9379 | NRXN2 |
| -0.017401507 | 0.117595002 | 54498 | SMOX |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.056113254 | 0.744433284 | 0.754 | 1 | 51667 | NUB1 |
| -0.056113254 | 0.744433284 | 0.77 | 1 | 55512 | SMPD3 |
| -0.056113254 | 0.744433284 | 0.766 | 1 | 65258 | MPPE1 |
| -0.056113254 | 0.744433284 | 0.744 | 1 | 651302 | ZNF192P1 |
| -0.056370653 | 0.743297875 | 0.775 | 1 | 5467 | PPARD |
| -0.056370653 | 0.743297875 | 0.767 | 1 | 7760 | ZNF213 |
| -0.056370653 | 0.743297875 | 0.771 | 1 | 29113 | C6orf15 |
| -0.056370653 | 0.743297875 | 0.774 | 1 | 266722 | HS6ST3 |
| -0.056628056 | 0.74216342 | 0.754 | 1 | 6369 | CCL24 |
| -0.056628056 | 0.74216342 | 0.763 | 1 | 7862 | BRPF1 |
| -0.056628056 | 0.74216342 | 0.763 | 1 | 29034 | CPS1-IT1 |
| -0.056628056 | 0.74216342 | 0.77 | 1 | 81619 | TSPAN14 |
| -0.056628056 | 0.74216342 | 0.749 | 1 | 116534 | MRGPRE |
| -0.056628056 | 0.74216342 | 0.763 | 1 | 117608 | ZNF354B |
| -0.056628056 | 0.74216342 | 0.783 | 1 | 153571 | C5orf38 |
| -0.056628056 | 0.74216342 | 0.767 | 1 | 401612 | MCART6 |
| -0.056885459 | 0.74102962 | 0.757 | 1 | 3747 | KCNC2 |
| -0.056885459 | 0.74102962 | 0.756 | 1 | 7086 | TKT |
| -0.056885459 | 0.74102962 | 0.752 | 1 | 8969 | HIST1H2AG |
| -0.056885459 | 0.74102962 | 0.759 | 1 | 10042 | HMGXB4 |
| -0.056885459 | 0.74102962 | 0.763 | 1 | 55138 | FAM90A1 |
| -0.056885459 | 0.74102962 | 0.783 | 1 | 60598 | KCNK15 |
| -0.056885459 | 0.74102962 | 0.774 | 1 | 115273 | RAB42 |
| -0.056885459 | 0.74102962 | 0.762 | 1 | 653604 | HIST2H3D |
| -0.057142857 | 0.739896357 | 0.739 | 1 | 5822 | PWP2H |
| -0.057142857 | 0.739896357 | 0.745 | 1 | 7292 | TNFSF4 |
| -0.057142857 | 0.739896357 | 0.774 | 1 | 8451 | CUL4A |
| -0.057142857 | 0.739896357 | 0.784 | 1 | 83479 | DDX59 |
| -0.057142857 | 0.739896357 | 0.747 | 1 | 134218 | DNAJC21 |
| -0.057400256 | 0.738763094 | 0.758 | 1 | 2128 | EVX1 |
| -0.057400256 | 0.738763094 | 0.728 | 1 | 2804 | GOLGB1 |
| -0.057400256 | 0.738763094 | 0.761 | 1 | 10153 | CEBPZ |
| -0.057400256 | 0.738763094 | 0.737 | 1 | 51227 | PIGP |
| -0.057400256 | 0.738763094 | 0.725 | 1 | 55539 | KCNQ1DN |
| -0.057400256 | 0.738763094 | 0.736 | 1 | 79934 | ADCK4 |
| -0.057400256 | 0.738763094 | 0.786 | 1 | 147694 | ZNF548 |
| -0.057400256 | 0.738763094 | 0.766 | 1 | 285367 | RPUSD3 |
| -0.057400256 | 0.738763094 | 0.74 | 1 | 285966 | FAM115C |
| -0.057657655 | 0.737630844 | 0.738 | 1 | 3313 | HSPA9 |
| -0.057657655 | 0.737630844 | 0.774 | 1 | 10333 | TLR6 |
| -0.057657655 | 0.737630844 | 0.744 | 1 | 11183 | MAP4K5 |
| -0.057657655 | 0.737630844 | 0.749 | 1 | 55187 | VPS13D |
| -0.057657655 | 0.737630844 | 0.768 | 1 | 63915 | MUTED |
| -0.057657655 | 0.737630844 | 0.781 | 1 | 79906 | MORN1 |
| -0.057657655 | 0.737630844 | 0.755 | 1 | 90632 | LINC00473 |
| -0.057657655 | 0.737630844 | 0.763 | 1 | 219982 | OR5A1 |
| -0.057657655 | 0.737630844 | 0.761 | 1 | 255027 | MPV17L |
| -0.057657655 | 0.737630844 | 0.782 | 1 | 286204 | CRB2 |
| -0.057657655 | 0.737630844 | 0.758 | 1 | 401176 | RP11-19O2.2 |
| -0.057657655 | 0.737630844 | 0.75 | 1 | 405753 | DUOXA2 |
| -0.057915058 | 0.73649925 | 0.756 | 1 | 266 | AMELY |
| -0.057915058 | 0.73649925 | 0.749 | 1 | 1122 | CHML |
| -0.057915058 | 0.73649925 | 0.748 | 1 | 9873 | FCHSD2 |
| -0.057915058 | 0.73649925 | 0.75 | 1 | 83988 | NCALD |
| -0.057915058 | 0.73649925 | 0.754 | 1 | 440017 | DUX4L15 |
| -0.058172457 | 0.735368133 | 0.766 | 1 | 57701 | KIAA1602 |
| -0.058172457 | 0.735368133 | 0.746 | 1 | 114899 | C1QTNF3 |
| -0.058172457 | 0.735368133 | 0.775 | 1 | 136541 | PRSS58 |
| -0.058429856 | 0.734237075 | 0.74 | 1 | 6217 | RPS16P1 |
| -0.058429856 | 0.734237075 | 0.741 | 1 | 7288 | TULP2 |
| -0.058429856 | 0.734237075 | 0.755 | 1 | 9789 | SPCS2 |
| -0.058429856 | 0.734237075 | 0.754 | 1 | 10611 | PDLIM5 |
| -0.058429856 | 0.734237075 | 0.766 | 1 | 11164 | NUDT5 |
| -0.058429856 | 0.734237075 | 0.768 | 1 | 26257 | NKX2-8 |
| -0.058429856 | 0.734237075 | 0.787 | 1 | 51226 | COPZ2 |
| -0.058429856 | 0.734237075 | 0.751 | 1 | 51308 | REEP2 |
| -0.058429856 | 0.734237075 | 0.776 | 1 | 84952 | CGNL1 |
| -0.058429856 | 0.734237075 | 0.743 | 1 | 135927 | C7orf34 |
| -0.058429856 | 0.734237075 | 0.782 | 1 | 349152 | DPY19L2P2 |
| -0.058429856 | 0.734237075 | 0.756 | 1 | 388662 | SLC6A17 |
| -0.058429856 | 0.734237075 | 0.757 | 1 | 474354 | LRRC18 |
| -0.058687259 | 0.73310715 | 0.762 | 1 | 4254 | KITLG |
| -0.058687259 | 0.73310715 | 0.728 | 1 | 10657 | KHDRBS1 |
| -0.058687259 | 0.73310715 | 0.747 | 1 | 51035 | UBXN1 |
| -0.058687259 | 0.73310715 | 0.737 | 1 | 79725 | THAP9 |
| -0.058687259 | 0.73310715 | 0.739 | 1 | 83941 | TM2D1 |
| -0.058687259 | 0.73310715 | 0.767 | 1 | 84669 | USP32 |
| -0.058687259 | 0.73310715 | 0.747 | 1 | 646405 | TPTE2P1 |
| -0.058944657 | 0.731977761 | 0.769 | 1 | 5355 | PLP2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.017421195 | 0.117180303 | 339883 | C3orf35 |
| -0.017584825 | 0.113778129 | 7873 | ARMET |
| -0.017665153 | 0.112136647 | 642658 | SCXB |
| -0.017675554 | 0.111925468 | 10938 | EHD1 |
| -0.017716881 | 0.111089543 | 120526 | DNAJC24 |
| -0.017764335 | 0.110135734 | 51759 | C9orf78 |
| -0.017787365 | 0.109675184 | 54949 | SDHAF2 |
| -0.01784225 | 0.108583741 | 23639 | LRRC6 |
| -0.01786788 | 0.108077005 | 79791 | FBXO31 |
| -0.017885897 | 0.107721895 | 9244 | CRLF1 |
| -0.017894719 | 0.107548386 | 10026 | PIGK |
| -0.017911341 | 0.107222006 | 23061 | TBC1D9B |
| -0.018091781 | 0.103729457 | 6247 | RS1 |
| -0.018120848 | 0.103175387 | 728642 | CDC2L2 |
| -0.018146386 | 0.102690533 | 172 | AFG3L1P |
| -0.018151494 | 0.102593765 | 5439 | POLR2J |
| -0.01817666 | 0.10211812 | 2151 | F2RL2 |
| -0.01820842 | 0.101520345 | 83869 | TTTY14 |
| -0.018267205 | 0.100421235 | 54993 | ZSCAN2 |
| -0.018410033 | 0.097790308 | 401562 | LCNL1 |
| -0.018538279 | 0.09547516 | 56913 | C1GALT1 |
| -0.018587591 | 0.094596714 | 4603 | MYBL1 |
| -0.018606909 | 0.094254367 | 80119 | PIF1 |
| -0.018696059 | 0.092687301 | 65983 | GRAMD3 |
| -0.018697917 | 0.092654832 | 368 | ABCC6 |
| -0.018700425 | 0.092611097 | 5330 | PLCB2 |
| -0.018788924 | 0.091077201 | 54819 | ZCCHC10 |
| -0.018875292 | 0.089600049 | 963 | CD53 |
| -0.018878076 | 0.089552753 | 123591 | C15orf27 |
| -0.018954691 | 0.088259153 | 55707 | NECAP2 |
| -0.019005861 | 0.087403573 | 5368 | PNOC |
| -0.019011153 | 0.0873155 | 2693 | GHSR |
| -0.019140238 | 0.085188627 | 2588 | GALNS |
| -0.019176176 | 0.084604017 | 93081 | C13orf27 |
| -0.019227067 | 0.083781675 | 51562 | MBIP |
| -0.019269042 | 0.083108343 | 6236 | RRAD |
| -0.019387353 | 0.081233919 | 347918 | EP400NL |
| -0.019475577 | 0.079858638 | 55589 | BMP2K |
| -0.019510215 | 0.07932391 | 51428 | DDX41 |
| -0.019536775 | 0.078915842 | 1145 | CHRNE |
| -0.019559713 | 0.078564808 | 51465 | UBE2J1 |
| -0.019579865 | 0.078257442 | 155435 | RBM33 |
| -0.019596023 | 0.078011684 | 6790 | AURKA |
| -0.019602153 | 0.077918649 | 6336 | SCN10A |
| -0.019688519 | 0.076617099 | 25821 | MTO1 |
| -0.019746002 | 0.07576064 | 23420 | NOMO1 |
| -0.019749809 | 0.075704217 | 25879 | DCAF13 |
| -0.019768568 | 0.075426623 | 191585 | PLAC4 |
| -0.019823732 | 0.074615017 | 11262 | SP140 |
| -0.019851126 | 0.074214652 | 1268 | CNR1 |
| -0.019857163 | 0.074126668 | 340602 | CXorf67 |
| -0.019873878 | 0.073883429 | 150275 | CCDC117 |
| -0.019889109 | 0.073662437 | 55661 | DDX27 |
| -0.019947428 | 0.072821096 | 8614 | STC2 |
| -0.019974917 | 0.072427273 | 400720 | ZNF772 |
| -0.020015035 | 0.071855627 | 254973 | OR1L4 |
| -0.020187858 | 0.069435194 | 51398 | WDR83OS |
| -0.020189159 | 0.069417238 | 5494 | PPM1A |
| -0.020190738 | 0.069395453 | 6555 | SLC10A2 |
| -0.020207454 | 0.069165051 | 6921 | TCEB1 |
| -0.020292705 | 0.067999683 | 54973 | CPSF3L |
| -0.020318242 | 0.067653768 | 7525 | YES1 |
| -0.020350095 | 0.067224354 | 348378 | FAM159A |
| -0.02046237 | 0.06572853 | 10009 | ZBTB33 |
| -0.020516604 | 0.065015838 | 9754 | STARD8 |
| -0.020632315 | 0.063516609 | 122773 | KLHDC1 |
| -0.02064253 | 0.063385651 | 343069 | HNRNPCL1 |
| -0.020696115 | 0.062702283 | 6450 | SH3BGR |
| -0.020696765 | 0.062694028 | 100130302 | FAM48B1 |
| -0.020742919 | 0.062110346 | 4294 | MAP3K10 |
| -0.020745054 | 0.062083486 | 148345 | C1orf127 |
| -0.020749604 | 0.062026206 | 117583 | PARD3B |
| -0.020766228 | 0.061817318 | 140700 | SAMD10 |
| -0.02085603 | 0.06069896 | 2752 | GLUL |
| -0.020905342 | 0.060092047 | 1815 | DRD4 |
| -0.020921128 | 0.059898823 | 256227 | AC099759.1 |
| -0.020985113 | 0.059120864 | 55367 | LRDD |
| -0.020995142 | 0.058999702 | 125113 | KRT222 |
| -0.021009073 | 0.058831722 | 389857 | CENPVL1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.058944657 | 0.731977761 | 0.747 | 1 | 11000 | SLC27A3 |
| -0.058944657 | 0.731977761 | 0.774 | 1 | 23302 | WSCD1 |
| -0.058944657 | 0.731977761 | 0.761 | 1 | 55781 | RIOK2 |
| -0.058944657 | 0.731977761 | 0.771 | 1 | 283537 | SLC46A3 |
| -0.058944657 | 0.731977761 | 0.768 | 1 | 338398 | TAS2R60 |
| -0.05920206 | 0.730848849 | 0.77 | 1 | 29775 | CARD10 |
| -0.05920206 | 0.730848849 | 0.76 | 1 | 54516 | MTRF1L |
| -0.05920206 | 0.730848849 | 0.769 | 1 | 127435 | PODN |
| -0.05920206 | 0.730848849 | 0.748 | 1 | 283683 | LOC283683 |
| -0.05920206 | 0.730848849 | 0.773 | 1 | 100190986 | LOC100190986 |
| -0.059459459 | 0.729720533 | 0.723 | 1 | 4140 | MARK3 |
| -0.059459459 | 0.729720533 | 0.742 | 1 | 4194 | MDM4 |
| -0.059459459 | 0.729720533 | 0.749 | 1 | 4300 | MLLT3 |
| -0.059459459 | 0.729720533 | 0.767 | 1 | 10454 | MAP3K7IP1 |
| -0.059459459 | 0.729720533 | 0.739 | 1 | 144983 | RP11-78J21.3 |
| -0.059459459 | 0.729720533 | 0.777 | 1 | 643997 | LOC643997 |
| -0.059459459 | 0.729720533 | 0.738 | 1 | 100289361 | LOC100289361 |
| -0.059716858 | 0.728592277 | 0.775 | 1 | 1657 | DMXL1 |
| -0.059716858 | 0.728592277 | 0.732 | 1 | 2915 | GRM5 |
| -0.059716858 | 0.728592277 | 0.735 | 1 | 7290 | HIRA |
| -0.059716858 | 0.728592277 | 0.766 | 1 | 7465 | WEE1 |
| -0.059716858 | 0.728592277 | 0.76 | 1 | 7761 | ZNF214 |
| -0.059716858 | 0.728592277 | 0.745 | 1 | 10412 | NSA2 |
| -0.059716858 | 0.728592277 | 0.745 | 1 | 22863 | KIAA0831 |
| -0.059716858 | 0.728592277 | 0.757 | 1 | 81442 | OR6N2 |
| -0.059716858 | 0.728592277 | 0.74 | 1 | 256472 | TMEM151A |
| -0.059716858 | 0.728592277 | 0.746 | 1 | 400043 | RP11-834C11.4 |
| -0.059974257 | 0.727465153 | 0.758 | 1 | 1159 | CKMT1B |
| -0.059974257 | 0.727465153 | 0.753 | 1 | 22919 | MAPRE1 |
| -0.059974257 | 0.727465153 | 0.734 | 1 | 91975 | ZNF300 |
| -0.059974257 | 0.727465153 | 0.761 | 1 | 222256 | CTA-351J1.1 |
| -0.060231656 | 0.726338565 | 0.734 | 1 | 843 | CASP10 |
| -0.060231656 | 0.726338565 | 0.734 | 1 | 2207 | FCER1G |
| -0.060231656 | 0.726338565 | 0.744 | 1 | 3687 | ITGAX |
| -0.060231656 | 0.726338565 | 0.752 | 1 | 8402 | SLC25A11 |
| -0.060231656 | 0.726338565 | 0.758 | 1 | 23769 | FLRT1 |
| -0.060231656 | 0.726338565 | 0.748 | 1 | 55237 | C14orf115 |
| -0.060231656 | 0.726338565 | 0.734 | 1 | 84152 | PPP1R1B |
| -0.060231656 | 0.726338565 | 0.735 | 1 | 257106 | ARHGAP30 |
| -0.060489062 | 0.725212514 | 0.729 | 1 | 3777 | KCNK3 |
| -0.060489062 | 0.725212514 | 0.745 | 1 | 57010 | CABP4 |
| -0.060489062 | 0.725212514 | 0.753 | 1 | 65999 | LRRC61 |
| -0.060489062 | 0.725212514 | 0.727 | 1 | 79576 | NKAP |
| -0.060489062 | 0.725212514 | 0.739 | 1 | 79719 | AAGAB |
| -0.060746461 | 0.724086583 | 0.722 | 1 | 439 | ASNA1 |
| -0.060746461 | 0.724086583 | 0.751 | 1 | 868 | CBLB |
| -0.060746461 | 0.724086583 | 0.714 | 1 | 4711 | NDUFB5 |
| -0.060746461 | 0.724086583 | 0.77 | 1 | 5021 | OXTR |
| -0.060746461 | 0.724086583 | 0.756 | 1 | 7441 | VPREB1 |
| -0.060746461 | 0.724086583 | 0.748 | 1 | 23431 | AP4E1 |
| -0.060746461 | 0.724086583 | 0.726 | 1 | 25913 | POT1 |
| -0.060746461 | 0.724086583 | 0.746 | 1 | 26471 | NUPR1 |
| -0.060746461 | 0.724086583 | 0.724 | 1 | 51234 | TMEM85 |
| -0.060746461 | 0.724086583 | 0.753 | 1 | 57508 | INTS2 |
| -0.060746461 | 0.724086583 | 0.742 | 1 | 84124 | ZNF394 |
| -0.060746461 | 0.724086583 | 0.763 | 1 | 94134 | ARHGAP12 |
| -0.060746461 | 0.724086583 | 0.765 | 1 | 113026 | PLCD3 |
| -0.060746461 | 0.724086583 | 0.737 | 1 | 390197 | OR4D10 |
| -0.060746461 | 0.724086583 | 0.745 | 1 | 440084 | LOC440084 |
| -0.06100386 | 0.722961724 | 0.749 | 1 | 64794 | DDX31 |
| -0.06100386 | 0.722961724 | 0.727 | 1 | 142680 | SLC34A3 |
| -0.06100386 | 0.722961724 | 0.761 | 1 | 390271 | OR8B3 |
| -0.06100386 | 0.722961724 | 0.713 | 1 | 100132341 | KIAA0664L3 |
| -0.061261259 | 0.721837342 | 0.755 | 1 | 2597 | GAPDH |
| -0.061261259 | 0.721837342 | 0.762 | 1 | 4189 | DNAJB9 |
| -0.061261259 | 0.721837342 | 0.747 | 1 | 5387 | PMS2L3 |
| -0.061261259 | 0.721837342 | 0.748 | 1 | 6232 | RPS27 |
| -0.061261259 | 0.721837342 | 0.75 | 1 | 6273 | S100A2 |
| -0.061261259 | 0.721837342 | 0.738 | 1 | 9325 | TRIP4 |
| -0.061261259 | 0.721837342 | 0.749 | 1 | 57468 | SLC12A5 |
| -0.061261259 | 0.721837342 | 0.748 | 1 | 79443 | FYCO1 |
| -0.061518662 | 0.720713735 | 0.753 | 1 | 2799 | GNS |
| -0.061518662 | 0.720713735 | 0.752 | 1 | 5454 | POU3F2 |
| -0.061518662 | 0.720713735 | 0.743 | 1 | 23195 | MDN1 |
| -0.061518662 | 0.720713735 | 0.743 | 1 | 55120 | FANCL |
| -0.061518662 | 0.720713735 | 0.767 | 1 | 148156 | ZNF558 |
| -0.061518662 | 0.720713735 | 0.761 | 1 | 282966 | C10orf53 |
| -0.061518662 | 0.720713735 | 0.746 | 1 | 338674 | OR5F1 |
| -0.061776061 | 0.719590068 | 0.748 | 1 | 10500 | SEMA6C |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.021036562 | 0.058501441 | 147166 | TRIM16L |
| -0.021036653 | 0.058500346 | 79089 | TMUB2 |
| -0.021067765 | 0.058128376 | 211 | ALAS1 |
| -0.021129241 | 0.057399206 | 51306 | FAM13B |
| -0.021147443 | 0.057184789 | 160140 | C11orf65 |
| -0.021166945 | 0.056955781 | 124930 | ANKRD13B |
| -0.021213656 | 0.056410335 | 3300 | DNAJB2 |
| -0.021221086 | 0.056323983 | 26073 | POLDIP2 |
| -0.021259997 | 0.055873547 | 339184 | CCDC144NL |
| -0.021316737 | 0.055222087 | 79618 | HMBOX1 |
| -0.021322217 | 0.055159509 | 126820 | WDR63 |
| -0.021343112 | 0.054921433 | 64093 | SMOC1 |
| -0.021376079 | 0.054547533 | 26084 | RP11-23D24.1 |
| -0.02138193 | 0.054481413 | 8404 | SPARCL1 |
| -0.021437462 | 0.05385704 | 51397 | COMMD10 |
| -0.02147916 | 0.053392142 | 2000 | ELF4 |
| -0.021487517 | 0.053299379 | 9048 | ARTN |
| -0.021656627 | 0.05145089 | 23213 | SULF1 |
| -0.021719033 | 0.050782427 | 84254 | CAMKK1 |
| -0.021724604 | 0.050723117 | 23376 | KIAA0776 |
| -0.02176073 | 0.050339852 | 79747 | C6orf103 |
| -0.021802055 | 0.049904432 | 440348 | NPIPL2 |
| -0.021813663 | 0.049782716 | 56995 | TULP4 |
| -0.021845331 | 0.04945185 | 10768 | AHCYL1 |
| -0.021849046 | 0.049413163 | 51172 | NAGPA |
| -0.021925939 | 0.048618004 | 1479 | CSTF3 |
| -0.021943768 | 0.048435166 | 7783 | ZP2 |
| -0.021958906 | 0.048280388 | 6425 | SFRP5 |
| -0.021974694 | 0.048119418 | 8975 | USP13 |
| -0.021981101 | 0.048054222 | 7745 | ZNF192 |
| -0.021995403 | 0.047908951 | 972 | CD74 |
| -0.022061894 | 0.047238391 | 84166 | NLRC5 |
| -0.022071552 | 0.047141649 | 79159 | NOL12 |
| -0.022076102 | 0.047096137 | 552891 | DNAJC25-GNG10 |
| -0.022109164 | 0.046766486 | 728532 | LOC728532 |
| -0.022143058 | 0.046430551 | 7145 | TNS1 |
| -0.022191536 | 0.045953631 | 8575 | PRKRA |
| -0.022306688 | 0.044837285 | 80742 | PRR3 |
| -0.022359159 | 0.044336218 | 5452 | POU2F2 |
| -0.022400763 | 0.043942317 | 84926 | SPRYD3 |
| -0.022462519 | 0.04336305 | 1509 | CTSD |
| -0.02247422 | 0.043254025 | 549 | AUH |
| -0.022527432 | 0.042761117 | 5939 | RBMS2 |
| -0.022577208 | 0.042304371 | 259234 | DSCR10 |
| -0.022603767 | 0.042062353 | 339059 | AC138028.2 |
| -0.022604696 | 0.042053904 | 10794 | ZNF460 |
| -0.022617418 | 0.04193842 | 10396 | ATP8A1 |
| -0.022646021 | 0.041679725 | 100288798 | LOC100288798 |
| -0.022649085 | 0.041652109 | 347732 | CATSPER3 |
| -0.022750217 | 0.040748779 | 641339 | ZNF674 |
| -0.022804173 | 0.040273629 | 51347 | TAOK3 |
| -0.022847354 | 0.03989679 | 26003 | GORASP2 |
| -0.022889331 | 0.039533339 | 256471 | MFSD8 |
| -0.022894345 | 0.0394901 | 55174 | INTS10 |
| -0.022942636 | 0.039075825 | 84034 | EMILIN2 |
| -0.022953594 | 0.038982362 | 259291 | TAS2R45 |
| -0.02301117 | 0.03849424 | 253943 | YTHDF3 |
| -0.023054538 | 0.038130041 | 9644 | SH3PXD2A |
| -0.023069769 | 0.038002804 | 115948 | CCDC151 |
| -0.023104779 | 0.037711781 | 930 | CD19 |
| -0.023126509 | 0.037532073 | 56924 | PAK6 |
| -0.02314917 | 0.037345443 | 10816 | SPINT3 |
| -0.023197832 | 0.036947407 | 54816 | ZNF280D |
| -0.023251694 | 0.036510989 | 54583 | EGLN1 |
| -0.023316327 | 0.035993136 | 4501 | MT1X |
| -0.023342887 | 0.035782129 | 10245 | TIMM17B |
| -0.02334688 | 0.035750512 | 23192 | ATG4B |
| -0.023422102 | 0.035159163 | 7067 | THRA |
| -0.023448383 | 0.034954499 | 79365 | BHLHE41 |
| -0.023451913 | 0.034927081 | 60626 | RIC8A |
| -0.023490731 | 0.034626901 | 141 | ADPRH |
| -0.023538278 | 0.034262195 | 24139 | EML2 |
| -0.023683241 | 0.033170514 | 7737 | RNF113A |
| -0.023693642 | 0.033093333 | 1397 | CRIP2 |
| -0.023739332 | 0.03275615 | 115 | ADCY9 |
| -0.023825604 | 0.032127488 | 55719 | FAM178A |
| -0.023832105 | 0.032080535 | 10268 | RAMP3 |
| -0.023839071 | 0.032030284 | 100289635 | ZNF605 |
| -0.023872688 | 0.031788763 | 166348 | KLHDC6 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.061776061 | 0.719590068 | 0.745 | 1 | 59272 | ACE2 |
| -0.061776061 | 0.719590068 | 0.753 | 1 | 162466 | PHOSPHO1 |
| -0.061776061 | 0.719590068 | 0.74 | 1 | 390535 | GOLGA8E |
| -0.061776061 | 0.719590068 | 0.739 | 1 | 653639 | LYPLA2P1 |
| -0.06203346 | 0.718467534 | 0.752 | 1 | 55 | ACPP |
| -0.06203346 | 0.718467534 | 0.738 | 1 | 10422 | UBAC1 |
| -0.062290862 | 0.717345595 | 0.74 | 1 | 716 | C1S |
| -0.062290862 | 0.717345595 | 0.719 | 1 | 3123 | HLA-DRB1 |
| -0.062290862 | 0.717345595 | 0.744 | 1 | 6048 | RNF5 |
| -0.062290862 | 0.717345595 | 0.757 | 1 | 26280 | KCTD9P2 |
| -0.062290862 | 0.717345595 | 0.714 | 1 | 84269 | CHCHD5 |
| -0.062548265 | 0.716224253 | 0.745 | 1 | 23406 | COTL1 |
| -0.062548265 | 0.716224253 | 0.733 | 1 | 51714 | SELT |
| -0.062548265 | 0.716224253 | 0.752 | 1 | 83464 | APH1B |
| -0.062548265 | 0.716224253 | 0.717 | 1 | 149041 | RC3H1 |
| -0.062548265 | 0.716224253 | 0.746 | 1 | 388610 | TRNP1 |
| -0.062548265 | 0.716224253 | 0.72 | 1 | 401563 | C9orf139 |
| -0.06280566 | 0.715103447 | 0.738 | 1 | 27069 | GHITM |
| -0.06280566 | 0.715103447 | 0.774 | 1 | 152815 | THAP6 |
| -0.06280566 | 0.715103447 | 0.757 | 1 | 440836 | ODF3B |
| -0.06280566 | 0.715103447 | 0.735 | 1 | 100130794 | NDUFS5P7 |
| -0.063063063 | 0.713982701 | 0.737 | 1 | 274 | BIN1 |
| -0.063063063 | 0.713982701 | 0.737 | 1 | 8302 | KLRC4 |
| -0.063063063 | 0.713982701 | 0.754 | 1 | 26579 | MYEOV |
| -0.063063063 | 0.713982701 | 0.723 | 1 | 149461 | CLDN19 |
| -0.063063063 | 0.713982701 | 0.732 | 1 | 388630 | LOC388630 |
| -0.063063063 | 0.713982701 | 0.729 | 1 | 643866 | CBLN3 |
| -0.063320458 | 0.712863147 | 0.733 | 1 | 55224 | ETNK2 |
| -0.063320458 | 0.712863147 | 0.749 | 1 | 201266 | SLC39A11 |
| -0.063577861 | 0.711744189 | 0.753 | 1 | 2535 | FZD2 |
| -0.063577861 | 0.711744189 | 0.714 | 1 | 8161 | COIL |
| -0.063577861 | 0.711744189 | 0.743 | 1 | 29895 | MYLPF |
| -0.063835263 | 0.710625768 | 0.743 | 1 | 346 | APOC4 |
| -0.063835263 | 0.710625768 | 0.743 | 1 | 1184 | CLCN5 |
| -0.063835263 | 0.710625768 | 0.731 | 1 | 1588 | CYP19A1 |
| -0.063835263 | 0.710625768 | 0.732 | 1 | 2303 | FOXC2 |
| -0.063835263 | 0.710625768 | 0.723 | 1 | 4552 | MTRR |
| -0.063835263 | 0.710625768 | 0.74 | 1 | 9230 | RAB11B |
| -0.063835263 | 0.710625768 | 0.729 | 1 | 23464 | GCAT |
| -0.063835263 | 0.710625768 | 0.708 | 1 | 54890 | ALKBH5 |
| -0.063835263 | 0.710625768 | 0.722 | 1 | 339229 | C17orf90 |
| -0.064092666 | 0.709507525 | 0.76 | 1 | 208 | AKT2 |
| -0.064092666 | 0.709507525 | 0.71 | 1 | 2162 | F13A1 |
| -0.064092666 | 0.709507525 | 0.727 | 1 | 11272 | PRR4 |
| -0.064092666 | 0.709507525 | 0.73 | 1 | 51109 | RDH11 |
| -0.064092666 | 0.709507525 | 0.714 | 1 | 168448 | CDC14C |
| -0.064350061 | 0.708390355 | 0.718 | 1 | 90 | ACVR1 |
| -0.064350061 | 0.708390355 | 0.738 | 1 | 1117 | CHI3L2 |
| -0.064350061 | 0.708390355 | 0.721 | 1 | 28511 | NKIRAS2 |
| -0.064350061 | 0.708390355 | 0.714 | 1 | 51780 | KDM3B |
| -0.064607456 | 0.707273722 | 0.726 | 1 | 279 | AMY2A |
| -0.064607456 | 0.707273722 | 0.736 | 1 | 2644 | GCHFR |
| -0.064607456 | 0.707273722 | 0.749 | 1 | 6668 | SP2 |
| -0.064607456 | 0.707273722 | 0.751 | 1 | 51096 | UTP18 |
| -0.064864866 | 0.706157804 | 0.723 | 1 | 554 | AVPR2 |
| -0.064864866 | 0.706157804 | 0.744 | 1 | 713 | C1QB |
| -0.064864866 | 0.706157804 | 0.709 | 1 | 5335 | PLCG1 |
| -0.064864866 | 0.706157804 | 0.738 | 1 | 9397 | NMT2 |
| -0.064864866 | 0.706157804 | 0.743 | 1 | 79009 | DDX50 |
| -0.065122269 | 0.705041945 | 0.716 | 1 | 1769 | DNAH8 |
| -0.065122269 | 0.705041945 | 0.734 | 1 | 4982 | TNFRSF11B |
| -0.065122269 | 0.705041945 | 0.727 | 1 | 7105 | TSPAN6 |
| -0.065122269 | 0.705041945 | 0.733 | 1 | 11198 | SUPT16H |
| -0.065122269 | 0.705041945 | 0.732 | 1 | 57697 | FANCM |
| -0.065122269 | 0.705041945 | 0.72 | 1 | 148046 | CIRBP-AS1 |
| -0.065122269 | 0.705041945 | 0.741 | 1 | 163732 | CITED4 |
| -0.065379664 | 0.703927219 | 0.694 | 1 | 9169 | SCAF11 |
| -0.065379664 | 0.703927219 | 0.725 | 1 | 11143 | MYST2 |
| -0.065379664 | 0.703927219 | 0.709 | 1 | 25823 | TPSG1 |
| -0.065379664 | 0.703927219 | 0.715 | 1 | 284001 | CCDC57 |
| -0.065637067 | 0.702813089 | 0.737 | 1 | 2713 | GK3P |
| -0.065637067 | 0.702813089 | 0.739 | 1 | 5453 | POU3F1 |
| -0.065637067 | 0.702813089 | 0.71 | 1 | 79872 | CBLL1 |
| -0.065637067 | 0.702813089 | 0.716 | 1 | 284412 | LOC284412 |
| -0.065637067 | 0.702813089 | 0.721 | 1 | 347475 | AC004409.1 |
| -0.06589447 | 0.701699555 | 0.714 | 1 | 9875 | URB1 |
| -0.06589447 | 0.701699555 | 0.729 | 1 | 26112 | CCDC69 |
| -0.06589447 | 0.701699555 | 0.702 | 1 | 28232 | SLCO3A1 |
| -0.06589447 | 0.701699555 | 0.729 | 1 | 81448 | OR6K2 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.02388504 | 0.03170041 | 545 | ATR |
| -0.02389284 | 0.031644728 | 128637 | TBC1D20 |
| -0.023947259 | 0.031258572 | 51024 | FIS1 |
| -0.023948932 | 0.031246753 | 115362 | GBP5 |
| -0.023976326 | 0.031053986 | 116254 | C6orf72 |
| -0.024005486 | 0.030849883 | 55568 | GALNT10 |
| -0.024100024 | 0.030196086 | 221154 | EFHA1 |
| -0.024177846 | 0.029666878 | 388699 | LINC00302 |
| -0.024180539 | 0.02964871 | 28965 | SLC27A6 |
| -0.024186296 | 0.029609881 | 554203 | JPX |
| -0.024195861 | 0.029545499 | 10660 | LBX1 |
| -0.024213599 | 0.029426416 | 54470 | ARMCX6 |
| -0.024217779 | 0.029398413 | 56260 | C8orf44 |
| -0.024343891 | 0.028564284 | 23334 | KIAA0467 |
| -0.02442329 | 0.028049646 | 8813 | DPM1 |
| -0.024436848 | 0.027962578 | 7462 | LAT2 |
| -0.024469351 | 0.027754782 | 116092 | DNTTIP1 |
| -0.024683129 | 0.026420962 | 56965 | PARP6 |
| -0.024692602 | 0.026363151 | 7915 | ALDH5A1 |
| -0.024700588 | 0.026314519 | 3146 | HMGB1 |
| -0.024762252 | 0.025941508 | 26269 | FBXO8 |
| -0.02477256 | 0.02587962 | 390271 | OR8B3 |
| -0.024784168 | 0.025810068 | 342538 | NACA2 |
| -0.024803113 | 0.025696881 | 8886 | DDX18 |
| -0.024838217 | 0.025488308 | 140467 | ZNF358 |
| -0.024889199 | 0.025188012 | 7517 | XRCC3 |
| -0.024946218 | 0.02485577 | 23099 | ZBTB43 |
| -0.024975194 | 0.024688387 | 11000 | SLC27A3 |
| -0.025045864 | 0.024284258 | 54994 | C20orf11 |
| -0.025092576 | 0.024020283 | 23049 | SMG1 |
| -0.025099076 | 0.023983769 | 441376 | AARD |
| -0.025123036 | 0.023849517 | 55048 | VPS37C |
| -0.025195099 | 0.023449652 | 158800 | RHOXF1 |
| -0.025233639 | 0.02323821 | 9611 | NCOR1 |
| -0.02526252 | 0.023080846 | 55654 | TMEM127 |
| -0.025270229 | 0.023038983 | 10163 | WASF2 |
| -0.025288431 | 0.022940459 | 159013 | CXorf38 |
| -0.025472213 | 0.021965748 | 7570 | ZNF22 |
| -0.025472676 | 0.021963334 | 10316 | NMUR1 |
| -0.025636492 | 0.021125181 | 90121 | TSR2 |
| -0.025655344 | 0.021030532 | 54940 | OCIAD1 |
| -0.025687382 | 0.02087055 | 10490 | VTI1B |
| -0.025687847 | 0.020868216 | 6609 | SMPD1 |
| -0.025897074 | 0.019849317 | 575 | BAI1 |
| -0.025934219 | 0.019673031 | 2145 | EZH1 |
| -0.025940906 | 0.019641435 | 91179 | SCARF2 |
| -0.025968023 | 0.019513797 | 3551 | IKBKB |
| -0.025973132 | 0.019489828 | 221662 | RBM24 |
| -0.026023744 | 0.019253781 | 100128288 | AC135178.1 |
| -0.026104072 | 0.018884262 | 94121 | SYTL4 |
| -0.02611048 | 0.018855048 | 7311 | RPS27AP11 |
| -0.026141126 | 0.018715911 | 6520 | SLC3A2 |
| -0.026263338 | 0.018169917 | 51318 | MRPL35 |
| -0.02628191 | 0.018088169 | 4900 | NRGN |
| -0.026295377 | 0.018029111 | 8577 | TMEFF1 |
| -0.026379513 | 0.017663872 | 440574 | C1orf151 |
| -0.026425481 | 0.017467082 | 9414 | TJP2 |
| -0.026431331 | 0.017442171 | 6789 | STK4 |
| -0.026437925 | 0.01741413 | 51202 | DDX47 |
| -0.02645687 | 0.017333804 | 51501 | C11orf73 |
| -0.0264799 | 0.017236592 | 26576 | SRPK3 |
| -0.026506182 | 0.017126232 | 100170229 | AC006276.1 |
| -0.026532371 | 0.01701688 | 414919 | C8orf82 |
| -0.02655215 | 0.016934702 | 80342 | TRAF3IP3 |
| -0.026575552 | 0.016837925 | 6716 | SRD5A2 |
| -0.026594033 | 0.016761843 | 93621 | MRFAP1 |
| -0.026602948 | 0.016725246 | 100129480 | LOC100129480 |
| -0.026604062 | 0.016720675 | 167681 | PRSS23 |
| -0.026612978 | 0.016684143 | 116540 | MRPL53 |
| -0.026617156 | 0.016667066 | 442229 | SLC25A51P1 |
| -0.026646502 | 0.016547462 | 9526 | MPDU1 |
| -0.026652073 | 0.016524844 | 10265 | IRX5 |
| -0.02671513 | 0.016270714 | 25972 | UNC50 |
| -0.026718289 | 0.016258072 | 133383 | C5orf35 |
| -0.026752833 | 0.016120395 | 79649 | MAP7D3 |
| -0.026756456 | 0.016106002 | 53919 | SLCO1C1 |
| -0.026757663 | 0.01610123 | 64760 | FAM160B2 |
| -0.026769642 | 0.016053783 | 115653 | KIR3DL3 |
| -0.026793787 | 0.015958512 | 51292 | GMPR2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.06589447 | 0.701699555 | 0.732 | 1 | 84812 | PLCD4 |
| -0.066151865 | 0.700586677 | 0.722 | 1 | 27130 | INVS |
| -0.066151865 | 0.700586677 | 0.751 | 1 | 28985 | MCTS1 |
| -0.066151865 | 0.700586677 | 0.716 | 1 | 53918 | PELO |
| -0.066151865 | 0.700586677 | 0.719 | 1 | 55000 | TUG1 |
| -0.066151865 | 0.700586677 | 0.747 | 1 | 79608 | RIC3 |
| -0.066151865 | 0.700586677 | 0.723 | 1 | 284361 | C19orf63 |
| -0.066151865 | 0.700586677 | 0.743 | 1 | 646938 | AC022748.1 |
| -0.066409267 | 0.699473917 | 0.729 | 1 | 4542 | MYO1F |
| -0.066409267 | 0.699473917 | 0.716 | 1 | 7389 | UROD |
| -0.066409267 | 0.699473917 | 0.736 | 1 | 25840 | METTL7A |
| -0.066409267 | 0.699473917 | 0.725 | 1 | 25880 | TMEM186 |
| -0.066409267 | 0.699473917 | 0.75 | 1 | 26073 | POLDIP2 |
| -0.066409267 | 0.699473917 | 0.724 | 1 | 80018 | C12orf30 |
| -0.066409267 | 0.699473917 | 0.745 | 1 | 163087 | ZNF383 |
| -0.066409267 | 0.699473917 | 0.704 | 1 | 200576 | PIKFYVE |
| -0.066409267 | 0.699473917 | 0.716 | 1 | 100131471 | LOC100131471 |
| -0.066666663 | 0.698362231 | 0.715 | 1 | 1464 | CSPG4 |
| -0.066666663 | 0.698362231 | 0.728 | 1 | 7165 | TPD52L2 |
| -0.066666663 | 0.698362231 | 0.71 | 1 | 9896 | FIG4 |
| -0.066666663 | 0.698362231 | 0.705 | 1 | 167826 | OLIG3 |
| -0.066924065 | 0.69725126 | 0.749 | 1 | 2620 | GAS2 |
| -0.066924065 | 0.69725126 | 0.744 | 1 | 7512 | XPNPEP2 |
| -0.066924065 | 0.69725126 | 0.745 | 1 | 27136 | MORC1 |
| -0.066924065 | 0.69725126 | 0.703 | 1 | 27324 | TOX3 |
| -0.066924065 | 0.69725126 | 0.726 | 1 | 91949 | COG7 |
| -0.066924065 | 0.69725126 | 0.698 | 1 | 388228 | SBK1 |
| -0.067181468 | 0.696140885 | 0.726 | 1 | 3978 | LIG1 |
| -0.067181468 | 0.696140885 | 0.718 | 1 | 5683 | PSMA2 |
| -0.067181468 | 0.696140885 | 0.715 | 1 | 6427 | SFRS2 |
| -0.067181468 | 0.696140885 | 0.761 | 1 | 10933 | MORF4L1 |
| -0.067181468 | 0.696140885 | 0.722 | 1 | 26298 | EHF |
| -0.067181468 | 0.696140885 | 0.691 | 1 | 80895 | ILKAP |
| -0.067181468 | 0.696140885 | 0.741 | 1 | 84826 | SFT2D3 |
| -0.067181468 | 0.696140885 | 0.707 | 1 | 399664 | MEX3D |
| -0.067438863 | 0.69503063 | 0.695 | 1 | 2358 | FPR2 |
| -0.067438863 | 0.69503063 | 0.716 | 1 | 6541 | SLC7A1 |
| -0.067438863 | 0.69503063 | 0.731 | 1 | 10797 | MTHFD2 |
| -0.067438863 | 0.69503063 | 0.729 | 1 | 27159 | CHIA |
| -0.067438863 | 0.69503063 | 0.722 | 1 | 27336 | HTATSF1 |
| -0.067438863 | 0.69503063 | 0.698 | 1 | 55501 | CHST12 |
| -0.067438863 | 0.69503063 | 0.73 | 1 | 148753 | FAM163A |
| -0.067438863 | 0.69503063 | 0.72 | 1 | 337975 | KRTAP20-1 |
| -0.067438863 | 0.69503063 | 0.73 | 1 | 399821 | RP11-383C5.4 |
| -0.067696266 | 0.693921447 | 0.737 | 1 | 283 | ANG |
| -0.067696266 | 0.693921447 | 0.702 | 1 | 1327 | COX4I1 |
| -0.067696266 | 0.693921447 | 0.734 | 1 | 10282 | BET1 |
| -0.067696266 | 0.693921447 | 0.697 | 1 | 25915 | NDUFAF3 |
| -0.067696266 | 0.693921447 | 0.714 | 1 | 60313 | GPBP1L1 |
| -0.067696266 | 0.693921447 | 0.736 | 1 | 118427 | OLFM3 |
| -0.067696266 | 0.693921447 | 0.762 | 1 | 245937 | DEFB124 |
| -0.067953661 | 0.692812979 | 0.72 | 1 | 2068 | ERCC2 |
| -0.067953661 | 0.692812979 | 0.736 | 1 | 3418 | IDH2 |
| -0.067953661 | 0.692812979 | 0.738 | 1 | 4123 | MAN2C1 |
| -0.067953661 | 0.692812979 | 0.728 | 1 | 5230 | PGK1 |
| -0.067953661 | 0.692812979 | 0.719 | 1 | 10632 | ATP5L |
| -0.067953661 | 0.692812979 | 0.715 | 1 | 114804 | RNF157 |
| -0.067953661 | 0.692812979 | 0.737 | 1 | 147929 | ZNF565 |
| -0.068211071 | 0.691705108 | 0.73 | 1 | 9655 | SOCS5 |
| -0.068211071 | 0.691705108 | 0.745 | 1 | 11024 | LILRA1 |
| -0.068211071 | 0.691705108 | 0.709 | 1 | 57460 | PPM1H |
| -0.068211071 | 0.691705108 | 0.728 | 1 | 63951 | DMRTA1 |
| -0.068211071 | 0.691705108 | 0.743 | 1 | 127733 | UBXN10 |
| -0.068211071 | 0.691705108 | 0.725 | 1 | 150365 | MEI1 |
| -0.068211071 | 0.691705108 | 0.705 | 1 | 257000 | PLAC2 |
| -0.068468474 | 0.690597415 | 0.698 | 1 | 805 | CALM2 |
| -0.068468474 | 0.690597415 | 0.708 | 1 | 2995 | GYPC |
| -0.068468474 | 0.690597415 | 0.712 | 1 | 220441 | RNF152 |
| -0.068725869 | 0.689490855 | 0.707 | 1 | 5037 | PEBP1 |
| -0.068725869 | 0.689490855 | 0.703 | 1 | 6407 | SEMG2 |
| -0.068725869 | 0.689490855 | 0.713 | 1 | 10157 | AASS |
| -0.068725869 | 0.689490855 | 0.723 | 1 | 10916 | MAGED2 |
| -0.068725869 | 0.689490855 | 0.715 | 1 | 654466 | KGFLP2 |
| -0.068983272 | 0.688384891 | 0.704 | 1 | 262 | AMD1 |
| -0.068983272 | 0.688384891 | 0.736 | 1 | 3592 | IL12A |
| -0.068983272 | 0.688384891 | 0.714 | 1 | 10370 | CITED2 |
| -0.068983272 | 0.688384891 | 0.724 | 1 | 50717 | WDR42A |
| -0.068983272 | 0.688384891 | 0.718 | 1 | 56339 | METTL3 |
| -0.068983272 | 0.688384891 | 0.739 | 1 | 138802 | OR13C8 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.026811989 | 0.015887013 | 4756 | NEO1 |
| -0.026828613 | 0.015821973 | 10881 | ACTL7A |
| -0.026844865 | 0.015758613 | 3488 | IGFBP5 |
| -0.026996514 | 0.015178028 | 51101 | ZC2HC1A |
| -0.027053719 | 0.014963967 | 2235 | FECH |
| -0.027079908 | 0.014866848 | 8451 | CUL4A |
| -0.02712114 | 0.01471508 | 23119 | HIC2 |
| -0.027152436 | 0.014600802 | 113444 | C1orf212 |
| -0.027170544 | 0.014535035 | 26873 | OPLAH |
| -0.027178345 | 0.014506779 | 23293 | SMG6 |
| -0.027189676 | 0.014465836 | 113451 | ADC |
| -0.02723063 | 0.01431868 | 331 | XIAP |
| -0.027242145 | 0.014277536 | 387990 | TOMM20L |
| -0.027272884 | 0.014168235 | 51599 | LSR |
| -0.027295357 | 0.014088796 | 9463 | PICK1 |
| -0.02730808 | 0.014043993 | 3351 | HTR1B |
| -0.027346155 | 0.013910671 | 775 | CACNA1C |
| -0.027347084 | 0.013907424 | 4968 | OGG1 |
| -0.027356742 | 0.013873792 | 6642 | SNX1 |
| -0.027381444 | 0.013788093 | 284307 | ZIK1 |
| -0.027398624 | 0.013728771 | 51129 | ANGPTL4 |
| -0.027481925 | 0.013444302 | 100132831 | LOC100132831 |
| -0.027489262 | 0.013419494 | 6017 | RLBP1 |
| -0.027527986 | 0.013289242 | 23181 | DIP2A |
| -0.027558818 | 0.013186347 | 126074 | C19orf39 |
| -0.027567547 | 0.013157342 | 5689 | PSMB1 |
| -0.027600423 | 0.013048603 | 143884 | CWF19L2 |
| -0.027644904 | 0.012902748 | 126668 | TDRD10 |
| -0.027654842 | 0.012870357 | 51334 | PRR16 |
| -0.02767323 | 0.012810623 | 2530 | FUT8 |
| -0.027686045 | 0.012769141 | 4298 | MLLT1 |
| -0.027692731 | 0.01274754 | 57508 | INTS2 |
| -0.027695332 | 0.012739143 | 28955 | DEXI |
| -0.027700903 | 0.012721182 | 11340 | EXOSC8 |
| -0.027762566 | 0.01252387 | 83443 | SF3B5 |
| -0.027822929 | 0.012333337 | 391195 | OR2T33 |
| -0.027850231 | 0.01224801 | 23784 | POTEH |
| -0.027876604 | 0.012166087 | 10952 | SEC61B |
| -0.027893322 | 0.012114404 | 10573 | MRPL28 |
| -0.027962228 | 0.011903429 | 440567 | UQCRHL |
| -0.027975136 | 0.011864278 | 115004 | C6orf150 |
| -0.028149445 | 0.011346591 | 55613 | MTMR8 |
| -0.028266085 | 0.011011463 | 64129 | TINAGL1 |
| -0.028330719 | 0.010829576 | 54455 | FBXO42 |
| -0.028347621 | 0.01078245 | 145226 | RDH12 |
| -0.028381983 | 0.010687216 | 10302 | SNAPC5 |
| -0.028398698 | 0.010641154 | 10004 | NAALADL1 |
| -0.028429344 | 0.010557172 | 10493 | VAT1 |
| -0.028450517 | 0.010499498 | 84706 | GPT2 |
| -0.028466862 | 0.010455157 | 53345 | TM6SF2 |
| -0.028471133 | 0.010443602 | 29107 | NXT1 |
| -0.028492585 | 0.010385728 | 79157 | MFSD11 |
| -0.028505586 | 0.010350788 | 29109 | FHOD1 |
| -0.028535211 | 0.010271561 | 162966 | ZNF600 |
| -0.028551091 | 0.010229321 | 7626 | ZNF75D |
| -0.028553041 | 0.010224145 | 55830 | GLT8D1 |
| -0.028593902 | 0.010116209 | 10061 | ABCF2 |
| -0.028719177 | 0.009791578 | 9277 | WDR46 |
| -0.028776662 | 0.009645759 | 3691 | ITGB4 |
| -0.028804336 | 0.009576241 | 51735 | RAPGEF6 |
| -0.028842596 | 0.009480876 | 54502 | RBM47 |
| -0.028871015 | 0.009410593 | 23125 | CAMTA2 |
| -0.028894788 | 0.009352152 | 25970 | SH2B1 |
| -0.028921533 | 0.009286793 | 83394 | PITPNM3 |
| -0.028959701 | 0.009194228 | 23438 | HARS2 |
| -0.029008919 | 0.009076075 | 121642 | ALKBH2 |
| -0.029031115 | 0.009023243 | 2949 | GSTM5 |
| -0.029035294 | 0.009013325 | 6249 | CLIP1 |
| -0.029043188 | 0.008994614 | 138864 | LOC138864 |
| -0.029092221 | 0.008879191 | 1370 | CPN2 |
| -0.029140325 | 0.008767237 | 9213 | XPR1 |
| -0.029192053 | 0.00864827 | 644943 | RASSF10 |
| -0.029207468 | 0.008613095 | 121274 | ZNF641 |
| -0.029227806 | 0.008566883 | 51106 | TFB1M |
| -0.02936274 | 0.00826586 | 100131479 | LOC100131479 |
| -0.029366268 | 0.008258114 | 91355 | LRP5L |
| -0.029375741 | 0.008237357 | 11011 | TLK2 |
| -0.029471764 | 0.008029587 | 51011 | FAHD2A |
| -0.029497767 | 0.007974139 | 9812 | KIAA0141 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.068983272 | 0.688384891 | 0.683 | 1 | 144363 | LYRM5 |
| -0.068983272 | 0.688384891 | 0.707 | 1 | 152137 | CCDC50 |
| -0.068983272 | 0.688384891 | 0.751 | 1 | 375387 | LRRC33 |
| -0.069240667 | 0.687279582 | 0.715 | 1 | 6296 | ACSM3 |
| -0.069240667 | 0.687279582 | 0.702 | 1 | 51490 | C9orf114 |
| -0.069240667 | 0.687279582 | 0.709 | 1 | 80835 | TAS1R1 |
| -0.069240667 | 0.687279582 | 0.725 | 1 | 114971 | PTPMT1 |
| -0.069240667 | 0.687279582 | 0.723 | 1 | 170394 | PWWP2B |
| -0.069240667 | 0.687279582 | 0.714 | 1 | 100128496 | C20orf78 |
| -0.06949807 | 0.686174929 | 0.717 | 1 | 10139 | ARFRP1 |
| -0.06949807 | 0.686174929 | 0.692 | 1 | 10553 | HTATIP2 |
| -0.06949807 | 0.686174929 | 0.695 | 1 | 388574 | AC139099.1 |
| -0.06949807 | 0.686174929 | 0.719 | 1 | 390616 | ANKRD34C |
| -0.069755472 | 0.685070455 | 0.707 | 1 | 5033 | P4HA1 |
| -0.069755472 | 0.685070455 | 0.734 | 1 | 5861 | RAB1A |
| -0.069755472 | 0.685070455 | 0.713 | 1 | 51341 | ZBTB7A |
| -0.069755472 | 0.685070455 | 0.722 | 1 | 124152 | IQCK |
| -0.069755472 | 0.685070455 | 0.707 | 1 | 283899 | INO80E |
| -0.070012867 | 0.683967054 | 0.693 | 1 | 566 | AZU1 |
| -0.070012867 | 0.683967054 | 0.71 | 1 | 1398 | CRK |
| -0.070012867 | 0.683967054 | 0.709 | 1 | 2051 | EPHB6 |
| -0.070012867 | 0.683967054 | 0.679 | 1 | 3748 | KCNC3 |
| -0.070012867 | 0.683967054 | 0.696 | 1 | 4488 | MSX2 |
| -0.070012867 | 0.683967054 | 0.725 | 1 | 10162 | U47924.1 |
| -0.070012867 | 0.683967054 | 0.686 | 1 | 25972 | UNC50 |
| -0.070012867 | 0.683967054 | 0.712 | 1 | 84071 | ARMC2 |
| -0.070012867 | 0.683967054 | 0.714 | 1 | 84364 | ARFGAP2 |
| -0.07027027 | 0.682864368 | 0.703 | 1 | 6917 | TCEA1P2 |
| -0.07027027 | 0.682864368 | 0.711 | 1 | 9955 | HS3ST3A1 |
| -0.07027027 | 0.682864368 | 0.711 | 1 | 55301 | OLAH |
| -0.07027027 | 0.682864368 | 0.725 | 1 | 79623 | GALNT14 |
| -0.07027027 | 0.682864368 | 0.706 | 1 | 147664 | ERVV-1 |
| -0.07027027 | 0.682864368 | 0.692 | 1 | 376132 | LRRC10 |
| -0.070527665 | 0.681762338 | 0.703 | 1 | 6428 | SRSF3 |
| -0.070527665 | 0.681762338 | 0.702 | 1 | 23157 | SEPTIN6 |
| -0.070527665 | 0.681762338 | 0.716 | 1 | 23235 | SIK2 |
| -0.070527665 | 0.681762338 | 0.693 | 1 | 25801 | GCA |
| -0.070527665 | 0.681762338 | 0.722 | 1 | 27343 | POLL |
| -0.070527665 | 0.681762338 | 0.713 | 1 | 55128 | TRIM68 |
| -0.070527665 | 0.681762338 | 0.697 | 1 | 79613 | TMCO7 |
| -0.070527665 | 0.681762338 | 0.72 | 1 | 114034 | TOE1 |
| -0.070785068 | 0.680660427 | 0.727 | 1 | 478 | ATP1A3 |
| -0.070785068 | 0.680660427 | 0.724 | 1 | 5229 | PGGT1B |
| -0.070785068 | 0.680660427 | 0.706 | 1 | 7375 | USP4 |
| -0.070785068 | 0.680660427 | 0.71 | 1 | 11182 | SLC2A6 |
| -0.070785068 | 0.680660427 | 0.698 | 1 | 51091 | SEPSECS |
| -0.070785068 | 0.680660427 | 0.724 | 1 | 55472 | C8orf39 |
| -0.070785068 | 0.680660427 | 0.705 | 1 | 83734 | ATG10 |
| -0.070785068 | 0.680660427 | 0.706 | 1 | 91464 | ISX |
| -0.070785068 | 0.680660427 | 0.723 | 1 | 392360 | CTSL3 |
| -0.070785068 | 0.680660427 | 0.698 | 1 | 100127206 | KIAA1024L |
| -0.071042471 | 0.679559708 | 0.677 | 1 | 3161 | HMMR |
| -0.071042471 | 0.679559708 | 0.727 | 1 | 5435 | POLR2F |
| -0.071042471 | 0.679559708 | 0.697 | 1 | 8226 | HDHD1A |
| -0.071042471 | 0.679559708 | 0.739 | 1 | 10363 | HMG20A |
| -0.071042471 | 0.679559708 | 0.698 | 1 | 80332 | ADAM33 |
| -0.071042471 | 0.679559708 | 0.722 | 1 | 84651 | SPINK7 |
| -0.071042471 | 0.679559708 | 0.7 | 1 | 137492 | VPS37A |
| -0.071299866 | 0.678459704 | 0.699 | 1 | 6877 | TAF5 |
| -0.071299866 | 0.678459704 | 0.721 | 1 | 8712 | PAGE1 |
| -0.071299866 | 0.678459704 | 0.695 | 1 | 26608 | TBL2 |
| -0.071299866 | 0.678459704 | 0.715 | 1 | 29927 | SEC61A1 |
| -0.071299866 | 0.678459704 | 0.696 | 1 | 113835 | ZNF257 |
| -0.071299866 | 0.678459704 | 0.753 | 1 | 594855 | CPLX3 |
| -0.071557269 | 0.677360237 | 0.7 | 1 | 1475 | CSTA |
| -0.071557269 | 0.677360237 | 0.683 | 1 | 9050 | PSTPIP2 |
| -0.071557269 | 0.677360237 | 0.685 | 1 | 9463 | PICK1 |
| -0.071557269 | 0.677360237 | 0.7 | 1 | 22809 | ATF5 |
| -0.071557269 | 0.677360237 | 0.713 | 1 | 54768 | HYDIN |
| -0.071557269 | 0.677360237 | 0.692 | 1 | 64708 | COPS7B |
| -0.071557269 | 0.677360237 | 0.711 | 1 | 220070 | SHANK2-AS3 |
| -0.071814671 | 0.676261008 | 0.705 | 1 | 2184 | FAH |
| -0.071814671 | 0.676261008 | 0.706 | 1 | 3945 | LDHB |
| -0.071814671 | 0.676261008 | 0.724 | 1 | 4646 | MYO6 |
| -0.071814671 | 0.676261008 | 0.724 | 1 | 55904 | MLL5 |
| -0.071814671 | 0.676261008 | 0.703 | 1 | 56952 | PRTFDC1 |
| -0.071814671 | 0.676261008 | 0.696 | 1 | 57727 | NCOA5 |
| -0.071814671 | 0.676261008 | 0.691 | 1 | 158158 | RASEF |
| -0.071814671 | 0.676261008 | 0.695 | 1 | 100506742 | CASP12 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.029549122 | 0.007865627 | 51433 | ANAPC5 |
| -0.029597227 | 0.007765181 | 84251 | SGIP1 |
| -0.029607905 | 0.007743049 | 7386 | UQCRFS1 |
| -0.029611435 | 0.007735737 | 158747 | MOSPD2 |
| -0.029643288 | 0.00767009 | 144363 | LYRM5 |
| -0.02966762 | 0.007620276 | 138162 | C9orf116 |
| -0.029675605 | 0.007603996 | 114926 | C8orf40 |
| -0.029727889 | 0.007498141 | 51611 | DPH5 |
| -0.029729653 | 0.007494591 | 5697 | PYY |
| -0.02976197 | 0.007429851 | 54439 | RBM27 |
| -0.029764663 | 0.007424481 | 51384 | WNT16 |
| -0.029855208 | 0.007245885 | 6827 | SUPT4H1 |
| -0.029902941 | 0.007153292 | 8879 | SGPL1 |
| -0.029903034 | 0.007153114 | 11258 | DCTN3 |
| -0.029917428 | 0.007125398 | 132158 | GLYCTK |
| -0.02994306 | 0.007076284 | 4070 | TACSTD2 |
| -0.029946402 | 0.007069905 | 4774 | NFIA |
| -0.029956989 | 0.007049728 | 339521 | FAM58BP |
| -0.029966461 | 0.007031715 | 7690 | ZNF131 |
| -0.029990328 | 0.006986522 | 259282 | BOD1L |
| -0.029995436 | 0.006976883 | 5933 | RBL1 |
| -0.030022925 | 0.006925212 | 83943 | IMMP2L |
| -0.030037226 | 0.00689847 | 126069 | ZNF491 |
| -0.030037411 | 0.006898123 | 8301 | PICALM |
| -0.030039176 | 0.006894832 | 63971 | KIF13A |
| -0.030050969 | 0.006872853 | 57624 | KIAA1486 |
| -0.030054592 | 0.006866119 | 7702 | ZNF143 |
| -0.030089509 | 0.006801485 | 26191 | PTPN22 |
| -0.030131763 | 0.006724 | 201232 | SLC16A13 |
| -0.030175781 | 0.006644121 | 9669 | EIF5B |
| -0.030177174 | 0.006641608 | 433 | ASGR2 |
| -0.030235866 | 0.006536467 | 4055 | LTBR |
| -0.030339783 | 0.006353982 | 7746 | ZNF193 |
| -0.030418904 | 0.006218115 | 200558 | APLF |
| -0.030422062 | 0.006212751 | 2896 | GRN |
| -0.030425962 | 0.006206128 | 6897 | TARS |
| -0.030559411 | 0.005983285 | 8409 | UXT |
| -0.030592658 | 0.005928902 | 161247 | FITM1 |
| -0.030629711 | 0.005868816 | 388588 | RP1-286D6.2 |
| -0.030647077 | 0.005840847 | 9043 | SPAG9 |
| -0.030678743 | 0.005790151 | 254295 | PHYHD1 |
| -0.030699082 | 0.005757799 | 55366 | LGR4 |
| -0.030727684 | 0.005712575 | 80306 | MED28 |
| -0.030754058 | 0.005671167 | 26472 | PPP1R14B |
| -0.030783774 | 0.005624827 | 93611 | FBXO44 |
| -0.030784424 | 0.005623819 | 10101 | NUBP2 |
| -0.030886764 | 0.005466868 | 647219 | ASCL5 |
| -0.030899301 | 0.005447914 | 7105 | TSPAN6 |
| -0.030910352 | 0.005431259 | 23163 | GGA3 |
| -0.030938026 | 0.005389747 | 51654 | CDK5RAP1 |
| -0.03104965 | 0.005225201 | 1454 | CSNK1E |
| -0.031075653 | 0.005187528 | 441478 | NRARP |
| -0.0311232 | 0.005119275 | 79753 | SNIP1 |
| -0.031140288 | 0.005094949 | 246330 | PELI3 |
| -0.031202786 | 0.005006848 | 80150 | ASRGL1 |
| -0.031252097 | 0.004938314 | 254879 | OR2T6 |
| -0.031276893 | 0.004904165 | 79608 | RIC3 |
| -0.031348959 | 0.004806151 | 23378 | RRP8 |
| -0.031350166 | 0.004804525 | 140465 | MYL6B |
| -0.031373754 | 0.004772837 | 259285 | TAS2R39 |
| -0.031390283 | 0.004750747 | 51013 | EXOSC1 |
| -0.03139279 | 0.004747405 | 6209 | RPS15P5 |
| -0.031403191 | 0.004733561 | 8512 | MBL1P |
| -0.031455196 | 0.004664885 | 23173 | METAP1 |
| -0.03147544 | 0.004638397 | 10230 | NBR2 |
| -0.03152791 | 0.004570369 | 440163 | RNASE13 |
| -0.031528469 | 0.004569653 | 83733 | SLC25A18 |
| -0.031551592 | 0.004539971 | 63891 | RNF123 |
| -0.031552613 | 0.004538661 | 8302 | KLRC4 |
| -0.031605359 | 0.004471614 | 2987 | GUK1 |
| -0.031619847 | 0.004453359 | 728047 | AC135983.8 |
| -0.031640187 | 0.004427843 | 6919 | TCEA2 |
| -0.031763975 | 0.004275373 | 100132832 | LOC100132832 |
| -0.031776421 | 0.004260308 | 283748 | PLA2G4D |
| -0.03179555 | 0.004237252 | 51100 | SH3GLB1 |
| -0.031811338 | 0.00421831 | 83448 | PUS7L |
| -0.031833626 | 0.004191696 | 10020 | GNE |
| -0.031876806 | 0.004140566 | 1725 | DHPS |
| -0.031899188 | 0.004114288 | 728448 | PPIEL |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.072072074 | 0.675162971 | 0.717 | 1 | 325 | APCS |
| -0.072072074 | 0.675162971 | 0.692 | 1 | 3799 | KIF5B |
| -0.072072074 | 0.675162971 | 0.672 | 1 | 9260 | PDLIM7 |
| -0.072072074 | 0.675162971 | 0.697 | 1 | 9669 | EIF5B |
| -0.072072074 | 0.675162971 | 0.696 | 1 | 10239 | AP3S2 |
| -0.072072074 | 0.675162971 | 0.687 | 1 | 92270 | ATP6AP1L |
| -0.072072074 | 0.675162971 | 0.698 | 1 | 388021 | TMEM179 |
| -0.072072074 | 0.675162971 | 0.69 | 1 | 494141 | AC090099.4 |
| -0.072072074 | 0.675162971 | 0.714 | 1 | 728882 | FAM182B |
| -0.072329476 | 0.67406553 | 0.721 | 1 | 1347 | COX7A2 |
| -0.072329476 | 0.67406553 | 0.703 | 1 | 7098 | TLR3 |
| -0.072329476 | 0.67406553 | 0.667 | 1 | 85012 | TCEAL3 |
| -0.072329476 | 0.67406553 | 0.683 | 1 | 144608 | C12orf60 |
| -0.072586872 | 0.672968805 | 0.697 | 1 | 1315 | COPB1 |
| -0.072586872 | 0.672968805 | 0.704 | 1 | 8459 | TPST2 |
| -0.072586872 | 0.672968805 | 0.693 | 1 | 9508 | ADAMTS3 |
| -0.072586872 | 0.672968805 | 0.708 | 1 | 10151 | HNRNPA3P1 |
| -0.072586872 | 0.672968805 | 0.702 | 1 | 23313 | C22orf9 |
| -0.072586872 | 0.672968805 | 0.682 | 1 | 23729 | SHPK |
| -0.072586872 | 0.672968805 | 0.692 | 1 | 51249 | TMEM69 |
| -0.072586872 | 0.672968805 | 0.7 | 1 | 58488 | PCTP |
| -0.072586872 | 0.672968805 | 0.714 | 1 | 94032 | CAMK2N2 |
| -0.072586872 | 0.672968805 | 0.693 | 1 | 114984 | FLYWCH2 |
| -0.072586872 | 0.672968805 | 0.696 | 1 | 134145 | FAM173B |
| -0.072586872 | 0.672968805 | 0.714 | 1 | 150094 | SIK1 |
| -0.072586872 | 0.672968805 | 0.716 | 1 | 386653 | IL31 |
| -0.072844274 | 0.671872735 | 0.708 | 1 | 1412 | CRYBA2 |
| -0.072844274 | 0.671872735 | 0.713 | 1 | 5265 | SERPINA1 |
| -0.072844274 | 0.671872735 | 0.697 | 1 | 5620 | PRM2 |
| -0.072844274 | 0.671872735 | 0.709 | 1 | 7922 | SLC39A7 |
| -0.072844274 | 0.671872735 | 0.677 | 1 | 26580 | BSCL2 |
| -0.072844274 | 0.671872735 | 0.677 | 1 | 30009 | TBX21 |
| -0.072844274 | 0.671872735 | 0.706 | 1 | 57763 | ANKRA2 |
| -0.072844274 | 0.671872735 | 0.72 | 1 | 81620 | CDT1 |
| -0.072844274 | 0.671872735 | 0.682 | 1 | 196993 | AC068181.1 |
| -0.072844274 | 0.671872735 | 0.707 | 1 | 282616 | IL28A |
| -0.072844274 | 0.671872735 | 0.72 | 1 | 338323 | NLRP14 |
| -0.072844274 | 0.671872735 | 0.699 | 1 | 389740 | GPR116P1 |
| -0.07310167 | 0.670776844 | 0.694 | 1 | 706 | TSPO |
| -0.07310167 | 0.670776844 | 0.723 | 1 | 5782 | PTPN12 |
| -0.07310167 | 0.670776844 | 0.683 | 1 | 51078 | THAP4 |
| -0.07310167 | 0.670776844 | 0.68 | 1 | 55707 | NECAP2 |
| -0.07310167 | 0.670776844 | 0.695 | 1 | 92421 | CHMP4C |
| -0.07310167 | 0.670776844 | 0.698 | 1 | 140691 | TRIM69 |
| -0.07310167 | 0.670776844 | 0.72 | 1 | 347736 | TXNDC6 |
| -0.073359072 | 0.669682086 | 0.696 | 1 | 4025 | LPO |
| -0.073359072 | 0.669682086 | 0.706 | 1 | 6117 | RPA1 |
| -0.073359072 | 0.669682086 | 0.678 | 1 | 7707 | ZNF148 |
| -0.073359072 | 0.669682086 | 0.699 | 1 | 9117 | SEC22C |
| -0.073359072 | 0.669682086 | 0.689 | 1 | 9525 | VPS4B |
| -0.073359072 | 0.669682086 | 0.709 | 1 | 10290 | SPEG |
| -0.073359072 | 0.669682086 | 0.712 | 1 | 51804 | SIX4 |
| -0.073359072 | 0.669682086 | 0.698 | 1 | 84527 | ZNF559 |
| -0.073359072 | 0.669682086 | 0.718 | 1 | 339855 | KY |
| -0.073359072 | 0.669682086 | 0.688 | 1 | 441108 | C5orf56 |
| -0.073616475 | 0.668588102 | 0.677 | 1 | 1105 | CHD1 |
| -0.073616475 | 0.668588102 | 0.682 | 1 | 10026 | PIGK |
| -0.073616475 | 0.668588102 | 0.687 | 1 | 23526 | HMHA1 |
| -0.073616475 | 0.668588102 | 0.698 | 1 | 23547 | LILRA4 |
| -0.073616475 | 0.668588102 | 0.686 | 1 | 23566 | LPAR3 |
| -0.07387387 | 0.667494774 | 0.7 | 1 | 3916 | LAMP1 |
| -0.07387387 | 0.667494774 | 0.687 | 1 | 4116 | MAGOH |
| -0.07387387 | 0.667494774 | 0.686 | 1 | 51028 | VPS36 |
| -0.07387387 | 0.667494774 | 0.681 | 1 | 83755 | KRTAP4-12 |
| -0.07387387 | 0.667494774 | 0.727 | 1 | 199834 | LCE4A |
| -0.07387387 | 0.667494774 | 0.696 | 1 | 692099 | FAM86DP |
| -0.074131273 | 0.666401565 | 0.698 | 1 | 10411 | RAPGEF3 |
| -0.074131273 | 0.666401565 | 0.706 | 1 | 56922 | MCCC1 |
| -0.074131273 | 0.666401565 | 0.694 | 1 | 117145 | THEM4 |
| -0.074131273 | 0.666401565 | 0.68 | 1 | 147407 | MCART2 |
| -0.074388668 | 0.665309548 | 0.689 | 1 | 977 | CD151 |
| -0.074388668 | 0.665309548 | 0.687 | 1 | 5319 | PLA2G1B |
| -0.074388668 | 0.665309548 | 0.726 | 1 | 10227 | MFSD10 |
| -0.074388668 | 0.665309548 | 0.693 | 1 | 10254 | STAM2 |
| -0.074388668 | 0.665309548 | 0.692 | 1 | 11215 | AKAP11 |
| -0.074388668 | 0.665309548 | 0.7 | 1 | 29085 | PHPT1 |
| -0.074388668 | 0.665309548 | 0.671 | 1 | 51629 | SLC25A39 |
| -0.074388668 | 0.665309548 | 0.706 | 1 | 54913 | RPP25 |
| -0.074388668 | 0.665309548 | 0.687 | 1 | 79007 | DBNDD1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.03198323 | 0.004016957 | 6566 | SLC16A1 |
| -0.031986762 | 0.004012919 | 51290 | ERGIC2 |
| -0.032017034 | 0.003978406 | 27095 | TRAPPC3 |
| -0.032214653 | 0.003759654 | 192666 | KRT24 |
| -0.032242049 | 0.003730208 | 5534 | PPP3R1 |
| -0.032246973 | 0.003724939 | 51367 | POP5 |
| -0.03230622 | 0.003662051 | 100129933 | GLYATL1P2 |
| -0.032436233 | 0.003527425 | 26493 | OR8B8 |
| -0.032481458 | 0.003481657 | 5077 | PAX3 |
| -0.032503933 | 0.003459118 | 284440 | LOC284440 |
| -0.032522876 | 0.00344022 | 198437 | C20orf201 |
| -0.032523621 | 0.003439481 | 10540 | DCTN2 |
| -0.032634132 | 0.003331123 | 9258 | MFHAS1 |
| -0.032672949 | 0.003293809 | 128178 | EDARADD |
| -0.032719474 | 0.003249586 | 2326 | FMO1 |
| -0.032721516 | 0.003247658 | 4242 | MFNG |
| -0.03274297 | 0.003227456 | 54991 | C1orf159 |
| -0.032851622 | 0.003126909 | 8529 | CYP4F2 |
| -0.032879669 | 0.00310142 | 90024 | AP001816.1 |
| -0.032892019 | 0.003090258 | 2962 | GTF2F1 |
| -0.032928422 | 0.003057566 | 57798 | GATAD1 |
| -0.03299417 | 0.002999319 | 651302 | ZNF192P1 |
| -0.032997236 | 0.002996629 | 92285 | ZNF585B |
| -0.033004478 | 0.002990281 | 119395 | CALHM3 |
| -0.033011537 | 0.002984107 | 124961 | ZFP3 |
| -0.03306967 | 0.00293368 | 284348 | LYPD5 |
| -0.033080071 | 0.002924745 | 220296 | HEPACAM |
| -0.033113781 | 0.002895944 | 8535 | CBX4 |
| -0.033114247 | 0.002895547 | 388585 | HES5 |
| -0.033163372 | 0.002854048 | 127550 | A3GALT2P |
| -0.033192348 | 0.002829824 | 10915 | TCERG1 |
| -0.033218723 | 0.002807938 | 23405 | DICER1 |
| -0.033355236 | 0.002697108 | 4947 | OAZ2 |
| -0.033369627 | 0.00268566 | 7185 | TRAF1 |
| -0.033386994 | 0.002671905 | 27020 | NPTN |
| -0.033406682 | 0.002656388 | 51119 | SBDS |
| -0.033440951 | 0.002629576 | 860 | RUNX2 |
| -0.033448379 | 0.002623799 | 200420 | ALMS1P |
| -0.033502705 | 0.002581887 | 4634 | MYL3 |
| -0.033517286 | 0.002570741 | 27094 | KCNMB3 |
| -0.033559445 | 0.002538767 | 79992 | AGPAT4-IT1 |
| -0.033571426 | 0.002529746 | 79544 | OR4K1 |
| -0.033614609 | 0.002497475 | 7756 | ZNF207 |
| -0.033691037 | 0.002441284 | 6100 | RP9 |
| -0.033696704 | 0.002437165 | 54900 | LAX1 |
| -0.033707939 | 0.002429014 | 84881 | RPUSD4 |
| -0.033741184 | 0.002405045 | 342908 | ZNF404 |
| -0.033770252 | 0.002384266 | 27106 | ARRDC2 |
| -0.033802569 | 0.002361355 | 51021 | MRPS16 |
| -0.033813156 | 0.002353896 | 3645 | INSRR |
| -0.033901099 | 0.002292748 | 92856 | IMP4 |
| -0.033905093 | 0.002290005 | 2873 | GPS1 |
| -0.033944376 | 0.002263195 | 1183 | CLCN4 |
| -0.033983845 | 0.002236544 | 6778 | STAT6 |
| -0.034037244 | 0.002200948 | 144577 | C12orf66 |
| -0.034055628 | 0.002188815 | 7518 | XRCC4 |
| -0.034058414 | 0.002186979 | 100129503 | PP13 |
| -0.034060553 | 0.002185573 | 8320 | EOMES |
| -0.034072809 | 0.002177529 | 55611 | OTUB1 |
| -0.034091383 | 0.00216539 | 160760 | PPTC7 |
| -0.034194466 | 0.002099136 | 212 | ALAS2 |
| -0.034303304 | 0.002031205 | 56655 | POLE4 |
| -0.034376111 | 0.001986893 | 163081 | ZNF567 |
| -0.034404714 | 0.00196973 | 23654 | PLXNB2 |
| -0.034409076 | 0.001967123 | 221545 | C6orf136 |
| -0.034411769 | 0.001965516 | 9513 | FXR2 |
| -0.034426164 | 0.001956946 | 84946 | LTV1 |
| -0.034559429 | 0.001879225 | 374659 | HDDC3 |
| -0.034571499 | 0.001872327 | 57655 | GRAMD1A |
| -0.034614496 | 0.001847945 | 3601 | IL15RA |
| -0.034636691 | 0.001835472 | 5082 | PDCL |
| -0.034646999 | 0.001829707 | 10127 | ZNF263 |
| -0.034714419 | 0.001792403 | 79641 | ROGDI |
| -0.034716837 | 0.001791079 | 56928 | SPPL2B |
| -0.034724265 | 0.001787014 | 84101 | USP44 |
| -0.034739774 | 0.001778557 | 26065 | LSM14A |
| -0.034754448 | 0.001770587 | 3772 | KCNJ15 |
| -0.034787506 | 0.001752755 | 79634 | SCRN3 |
| -0.034789085 | 0.001751908 | 146378 | C16orf92 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.074646071 | 0.664218247 | 0.679 | 1 | 2589 | GALNT1 |
| -0.074646071 | 0.664218247 | 0.681 | 1 | 9810 | RNF40 |
| -0.074646071 | 0.664218247 | 0.689 | 1 | 132158 | GLYCTK |
| -0.074903473 | 0.663127661 | 0.726 | 1 | 126 | ADH1C |
| -0.074903473 | 0.663127661 | 0.696 | 1 | 6046 | BRD2 |
| -0.074903473 | 0.663127661 | 0.691 | 1 | 54880 | BCOR |
| -0.074903473 | 0.663127661 | 0.689 | 1 | 57659 | ZBTB4 |
| -0.074903473 | 0.663127661 | 0.717 | 1 | 253039 | RP11-27I1.2 |
| -0.074903473 | 0.663127661 | 0.7 | 1 | 285267 | ZNF619 |
| -0.074903473 | 0.663127661 | 0.673 | 1 | 339168 | TMEM95 |
| -0.075160868 | 0.662037253 | 0.687 | 1 | 3066 | HDAC2 |
| -0.075160868 | 0.662037253 | 0.694 | 1 | 7779 | SLC30A1 |
| -0.075160868 | 0.662037253 | 0.688 | 1 | 9413 | C9orf61 |
| -0.075160868 | 0.662037253 | 0.71 | 1 | 63928 | AC130454.1 |
| -0.075160868 | 0.662037253 | 0.691 | 1 | 114042 | LINC00334 |
| -0.075160868 | 0.662037253 | 0.704 | 1 | 148213 | ZNF681 |
| -0.075160868 | 0.662037253 | 0.688 | 1 | 157848 | NKX6-3 |
| -0.075160868 | 0.662037253 | 0.679 | 1 | 100131454 | AC087392.3 |
| -0.075418279 | 0.660948038 | 0.717 | 1 | 2618 | GART |
| -0.075418279 | 0.660948038 | 0.671 | 1 | 3189 | HNRNPH3 |
| -0.075418279 | 0.660948038 | 0.673 | 1 | 5550 | PREP |
| -0.075418279 | 0.660948038 | 0.683 | 1 | 7151 | TOP1P1 |
| -0.075418279 | 0.660948038 | 0.696 | 1 | 26251 | KCNG2 |
| -0.075418279 | 0.660948038 | 0.683 | 1 | 54929 | TMEM161A |
| -0.075418279 | 0.660948038 | 0.698 | 1 | 64802 | NMNAT1 |
| -0.075418279 | 0.660948038 | 0.692 | 1 | 347862 | PDDC1 |
| -0.075675674 | 0.659859419 | 0.7 | 1 | 29889 | GNL2 |
| -0.075675674 | 0.659859419 | 0.691 | 1 | 125228 | C18orf19 |
| -0.075675674 | 0.659859419 | 0.67 | 1 | 164656 | TMPRSS6 |
| -0.075675674 | 0.659859419 | 0.675 | 1 | 203328 | SUSD3 |
| -0.075933076 | 0.658771634 | 0.684 | 1 | 23412 | COMMD3 |
| -0.075933076 | 0.658771634 | 0.698 | 1 | 284098 | PIGW |
| -0.075933076 | 0.658771634 | 0.691 | 1 | 387601 | SLC22A25 |
| -0.075933076 | 0.658771634 | 0.668 | 1 | 387751 | GVINP1 |
| -0.075933076 | 0.658771634 | 0.686 | 1 | 389765 | LOC389765 |
| -0.076190479 | 0.657684445 | 0.686 | 1 | 3664 | IRF6 |
| -0.076190479 | 0.657684445 | 0.697 | 1 | 5339 | PLEC1 |
| -0.076190479 | 0.657684445 | 0.69 | 1 | 10987 | COPS5 |
| -0.076190479 | 0.657684445 | 0.663 | 1 | 51202 | DDX47 |
| -0.076190479 | 0.657684445 | 0.696 | 1 | 55687 | TRMU |
| -0.076190479 | 0.657684445 | 0.685 | 1 | 441032 | EEF1A1P9 |
| -0.076447874 | 0.656597495 | 0.665 | 1 | 7184 | HSP90B1 |
| -0.076447874 | 0.656597495 | 0.69 | 1 | 10432 | RBM14 |
| -0.076447874 | 0.656597495 | 0.697 | 1 | 22795 | NID2 |
| -0.076447874 | 0.656597495 | 0.665 | 1 | 27113 | BBC3 |
| -0.076447874 | 0.656597495 | 0.681 | 1 | 27173 | SLC39A1 |
| -0.076447874 | 0.656597495 | 0.69 | 1 | 79170 | ATAD4 |
| -0.076447874 | 0.656597495 | 0.665 | 1 | 116285 | ACSM1 |
| -0.076447874 | 0.656597495 | 0.691 | 1 | 128439 | SNHG11 |
| -0.076447874 | 0.656597495 | 0.702 | 1 | 340578 | DCAF12L2 |
| -0.076447874 | 0.656597495 | 0.673 | 1 | 100130613 | CXorf64 |
| -0.076705277 | 0.655511796 | 0.704 | 1 | 6419 | SETMAR |
| -0.076705277 | 0.655511796 | 0.693 | 1 | 8418 | CMAH |
| -0.076705277 | 0.655511796 | 0.678 | 1 | 54106 | TLR9 |
| -0.076705277 | 0.655511796 | 0.672 | 1 | 130574 | LYPD6 |
| -0.076705277 | 0.655511796 | 0.712 | 1 | 197258 | FUK |
| -0.076705277 | 0.655511796 | 0.691 | 1 | 100101467 | ZNF397OS |
| -0.076962672 | 0.654426754 | 0.66 | 1 | 7299 | TYR |
| -0.076962672 | 0.654426754 | 0.675 | 1 | 10283 | SDCCAG10 |
| -0.076962672 | 0.654426754 | 0.67 | 1 | 79634 | SCRN3 |
| -0.076962672 | 0.654426754 | 0.683 | 1 | 84498 | FAM120B |
| -0.076962672 | 0.654426754 | 0.679 | 1 | 150142 | ZNF295-AS1 |
| -0.076962672 | 0.654426754 | 0.686 | 1 | 201163 | FLCN |
| -0.076962672 | 0.654426754 | 0.676 | 1 | 440712 | C1orf186 |
| -0.076962672 | 0.654426754 | 0.694 | 1 | 729420 | AL359392.2 |
| -0.077220075 | 0.653342485 | 0.713 | 1 | 2864 | FFAR1 |
| -0.077220075 | 0.653342485 | 0.703 | 1 | 10163 | WASF2 |
| -0.077220075 | 0.653342485 | 0.672 | 1 | 63940 | GPSM3 |
| -0.077477477 | 0.652258277 | 0.683 | 1 | 103 | ADAR |
| -0.077477477 | 0.652258277 | 0.656 | 1 | 2854 | GPR32 |
| -0.077477477 | 0.652258277 | 0.702 | 1 | 7770 | ZNF227 |
| -0.077477477 | 0.652258277 | 0.666 | 1 | 23533 | PIK3R5 |
| -0.077477477 | 0.652258277 | 0.663 | 1 | 348801 | LNP1 |
| -0.077734873 | 0.651175439 | 0.702 | 1 | 3667 | IRS1 |
| -0.077734873 | 0.651175439 | 0.668 | 1 | 23164 | MPRIP |
| -0.077734873 | 0.651175439 | 0.674 | 1 | 27106 | ARRDC2 |
| -0.077734873 | 0.651175439 | 0.637 | 1 | 55328 | RNLS |
| -0.077734873 | 0.651175439 | 0.666 | 1 | 56259 | CTNNBL1 |
| -0.077734873 | 0.651175439 | 0.722 | 1 | 56998 | CTNNBIP1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.034789179 | 0.001751858 | 57674 | RNF213 |
| -0.034806173 | 0.001742759 | 138649 | ANKRD19P |
| -0.034952343 | 0.001666277 | 908 | CCT6A |
| -0.034975465 | 0.001654464 | 79080 | CCDC86 |
| -0.035037689 | 0.001623058 | 4542 | MYO1F |
| -0.035075393 | 0.001604295 | 594 | BCKDHB |
| -0.035112817 | 0.001585872 | 8558 | CDK10 |
| -0.03513176 | 0.00157662 | 3117 | HLA-DQA1 |
| -0.035163522 | 0.001561219 | 26168 | SENP3 |
| -0.035175223 | 0.001555581 | 352909 | C19orf51 |
| -0.035197232 | 0.001545025 | 246175 | CNOT6L |
| -0.03520596 | 0.001540857 | 9019 | MPZL1 |
| -0.035242084 | 0.001523717 | 10346 | TRIM22 |
| -0.035281461 | 0.001505236 | 55592 | AC010203.2 |
| -0.035319813 | 0.001487432 | 63922 | CHTF18 |
| -0.035392344 | 0.001454293 | 654817 | NCF1C |
| -0.035523746 | 0.001395984 | 83868 | TTTY13 |
| -0.035559129 | 0.001380655 | 27165 | GLS2 |
| -0.035593212 | 0.001366037 | 2595 | GANC |
| -0.035620328 | 0.001354507 | 342667 | STAC2 |
| -0.035630174 | 0.001350344 | 6731 | SRP72 |
| -0.035645775 | 0.001343771 | 286122 | C8orf31 |
| -0.035663791 | 0.001336217 | 51406 | NOL7 |
| -0.035718583 | 0.001313483 | 147179 | WIPF2 |
| -0.035733812 | 0.001307228 | 401634 | GOLGA2P3Y |
| -0.035737246 | 0.00130582 | 8705 | B3GALT4 |
| -0.035749227 | 0.001300924 | 83787 | ARMC10 |
| -0.035774764 | 0.001290543 | 56127 | PCDHB9 |
| -0.035779685 | 0.001288551 | 23557 | SNAPIN |
| -0.035879888 | 0.00124861 | 51258 | MRPL51 |
| -0.035937745 | 0.00122607 | 51665 | ASB1 |
| -0.036019001 | 0.001195052 | 85465 | AC010896.1 |
| -0.036047883 | 0.001184201 | 10985 | GCN1L1 |
| -0.036049556 | 0.001183575 | 130502 | TTC32 |
| -0.036150966 | 0.001146212 | 728489 | DNLZ |
| -0.036186162 | 0.001133502 | 342371 | ATXN1L |
| -0.036204457 | 0.001126947 | 284257 | AC100775.1 |
| -0.036219966 | 0.001121418 | 57156 | TMEM63C |
| -0.036253303 | 0.001109617 | 4170 | MCL1 |
| -0.036255717 | 0.001108767 | 84296 | GINS4 |
| -0.036336232 | 0.001080757 | 51720 | UIMC1 |
| -0.036400959 | 0.001058715 | 26160 | IFT172 |
| -0.036442377 | 0.00104483 | 127002 | ATXN7L2 |
| -0.036486953 | 0.001030075 | 4084 | MXD1 |
| -0.036611672 | 0.000989808 | 4504 | MT3 |
| -0.036644455 | 0.000979469 | 84693 | MCEE |
| -0.036650397 | 0.000977607 | 3756 | KCNH1 |
| -0.036674544 | 0.000970067 | 26061 | HACL1 |
| -0.036676679 | 0.000969403 | 866 | SERPINA6 |
| -0.036713734 | 0.000957947 | 1857 | DVL3 |
| -0.036716983 | 0.000956949 | 497258 | BDNF-AS1 |
| -0.036736205 | 0.000951061 | 55796 | MBNL3 |
| -0.03674512 | 0.000948341 | 770 | CA11 |
| -0.036766481 | 0.000941855 | 2196 | FAT2 |
| -0.036800656 | 0.000931564 | 653238 | GTF2H2B |
| -0.036827959 | 0.000923416 | 11143 | MYST2 |
| -0.036857024 | 0.000914816 | 5355 | PLP2 |
| -0.036936238 | 0.000891751 | 5364 | PLXNB1 |
| -0.037004031 | 0.000872441 | 1355 | COX15 |
| -0.037004124 | 0.000872415 | 56945 | MRPS22 |
| -0.037012946 | 0.000869931 | 7408 | VASP |
| -0.037070617 | 0.000853852 | 254013 | C12orf72 |
| -0.037076004 | 0.000852365 | 23788 | MTCH2 |
| -0.0371112 | 0.000842704 | 55841 | WWC3 |
| -0.037125871 | 0.000838707 | 85001 | CTD-2514K5.2 |
| -0.037164226 | 0.000828341 | 130132 | RFTN2 |
| -0.037209358 | 0.000816295 | 23109 | DDN |
| -0.037219293 | 0.000813665 | 439 | ASNA1 |
| -0.037255049 | 0.000804266 | 7581 | ZNF33A |
| -0.03729656 | 0.00079348 | 1933 | EEF1B2 |
| -0.037309002 | 0.000790273 | 1307 | COL16A1 |
| -0.037367325 | 0.000775401 | 64135 | IFIH1 |
| -0.037398156 | 0.000767646 | 145376 | C14orf50 |
| -0.037464462 | 0.000751208 | 27158 | NDOR1 |
| -0.037477743 | 0.000747955 | 26157 | GIMAP2 |
| -0.037499379 | 0.000742684 | 648771 | LOC648771 |
| -0.037536804 | 0.000733648 | 3703 | STT3A |
| -0.037537176 | 0.000733558 | 27254 | CSDC2 |
| -0.037574694 | 0.000724604 | 3696 | ITGB8 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.077734873 | 0.651175439 | 0.666 | 1 | 130132 | RFTN2 |
| -0.077734873 | 0.651175439 | 0.689 | 1 | 729171 | ANKRD20A8P |
| -0.077734873 | 0.651175439 | 0.68 | 1 | 100130109 | SNRPEP4 |
| -0.077992275 | 0.650093257 | 0.687 | 1 | 6941 | TCF19 |
| -0.077992275 | 0.650093257 | 0.671 | 1 | 7589 | ZSCAN21 |
| -0.077992275 | 0.650093257 | 0.688 | 1 | 27340 | UTP20 |
| -0.077992275 | 0.650093257 | 0.663 | 1 | 57502 | NLGN4X |
| -0.077992275 | 0.650093257 | 0.669 | 1 | 57584 | ARHGAP21 |
| -0.077992275 | 0.650093257 | 0.675 | 1 | 91647 | ATPAF2 |
| -0.077992275 | 0.650093257 | 0.672 | 1 | 286238 | LOC286238 |
| -0.078249671 | 0.649011731 | 0.673 | 1 | 5464 | PPA1 |
| -0.078249671 | 0.649011731 | 0.689 | 1 | 25845 | AC010442.2 |
| -0.078249671 | 0.649011731 | 0.673 | 1 | 79594 | MUL1 |
| -0.078249671 | 0.649011731 | 0.676 | 1 | 401172 | CTD-2324F15.2 |
| -0.078507073 | 0.64793098 | 0.666 | 1 | 3682 | ITGAE |
| -0.078507073 | 0.64793098 | 0.687 | 1 | 23522 | MYST4 |
| -0.078507073 | 0.64793098 | 0.682 | 1 | 57109 | REXO4 |
| -0.078764483 | 0.646850407 | 0.678 | 1 | 3182 | HNRNPAB |
| -0.078764483 | 0.646850407 | 0.657 | 1 | 7638 | ZNF221 |
| -0.078764483 | 0.646850407 | 0.678 | 1 | 51473 | DCDC2 |
| -0.078764483 | 0.646850407 | 0.659 | 1 | 404037 | HAPLN4 |
| -0.078764483 | 0.646850407 | 0.675 | 1 | 548596 | CKMT1A |
| -0.079021879 | 0.645771027 | 0.661 | 1 | 7360 | UGP2 |
| -0.079021879 | 0.645771027 | 0.655 | 1 | 8372 | HYAL3 |
| -0.079021879 | 0.645771027 | 0.67 | 1 | 26227 | PHGDH |
| -0.079021879 | 0.645771027 | 0.66 | 1 | 55324 | ABCF3 |
| -0.079021879 | 0.645771027 | 0.66 | 1 | 140609 | NEK7 |
| -0.079021879 | 0.645771027 | 0.679 | 1 | 649946 | RPL23AP64 |
| -0.079279281 | 0.644692421 | 0.673 | 1 | 14 | AAMP |
| -0.079279281 | 0.644692421 | 0.684 | 1 | 1050 | CEBPA |
| -0.079279281 | 0.644692421 | 0.667 | 1 | 1431 | CS |
| -0.079279281 | 0.644692421 | 0.679 | 1 | 4690 | NCK1 |
| -0.079279281 | 0.644692421 | 0.677 | 1 | 9826 | ARHGEF11 |
| -0.079279281 | 0.644692421 | 0.708 | 1 | 56935 | C11orf75 |
| -0.079279281 | 0.644692421 | 0.665 | 1 | 80263 | TRIM45 |
| -0.079279281 | 0.644692421 | 0.66 | 1 | 359845 | FAM101B |
| -0.079536684 | 0.643614531 | 0.689 | 1 | 251 | ALPPL2 |
| -0.079536684 | 0.643614531 | 0.659 | 1 | 570 | BAAT |
| -0.079536684 | 0.643614531 | 0.693 | 1 | 1946 | EFNA5 |
| -0.079536684 | 0.643614531 | 0.659 | 1 | 4759 | NEU2 |
| -0.079536684 | 0.643614531 | 0.677 | 1 | 6483 | ST3GAL2 |
| -0.079794079 | 0.642536819 | 0.692 | 1 | 3823 | KLRC3 |
| -0.079794079 | 0.642536819 | 0.656 | 1 | 10362 | HMG20B |
| -0.079794079 | 0.642536819 | 0.662 | 1 | 51434 | ANAPC7 |
| -0.079794079 | 0.642536819 | 0.679 | 1 | 84989 | LOC84989 |
| -0.079794079 | 0.642536819 | 0.65 | 1 | 85280 | KRTAP9-4 |
| -0.079794079 | 0.642536819 | 0.652 | 1 | 222484 | LNX2 |
| -0.079794079 | 0.642536819 | 0.697 | 1 | 256815 | C10orf67 |
| -0.079794079 | 0.642536819 | 0.669 | 1 | 283927 | NUDT7 |
| -0.080051482 | 0.641460419 | 0.694 | 1 | 4947 | OAZ2 |
| -0.080051482 | 0.641460419 | 0.691 | 1 | 7080 | NKX2-1 |
| -0.080051482 | 0.641460419 | 0.65 | 1 | 26145 | IRF2BP1 |
| -0.080051482 | 0.641460419 | 0.656 | 1 | 51070 | NOSIP |
| -0.080051482 | 0.641460419 | 0.652 | 1 | 64781 | CERK |
| -0.080051482 | 0.641460419 | 0.633 | 1 | 337977 | KRTAP21-1 |
| -0.080308877 | 0.640384734 | 0.653 | 1 | 1351 | COX8A |
| -0.080308877 | 0.640384734 | 0.686 | 1 | 5547 | PRCP |
| -0.080308877 | 0.640384734 | 0.662 | 1 | 27004 | TCL6 |
| -0.080308877 | 0.640384734 | 0.672 | 1 | 93183 | PIGM |
| -0.080308877 | 0.640384734 | 0.668 | 1 | 115948 | CCDC151 |
| -0.080308877 | 0.640384734 | 0.667 | 1 | 145165 | ST13P4 |
| -0.080308877 | 0.640384734 | 0.672 | 1 | 389151 | AC130416.1 |
| -0.080308877 | 0.640384734 | 0.651 | 1 | 643236 | TMEM72 |
| -0.080308877 | 0.640384734 | 0.66 | 1 | 100287015 | RP11-115C21.2 |
| -0.08056628 | 0.639309764 | 0.657 | 1 | 651 | BMP3 |
| -0.08056628 | 0.639309764 | 0.643 | 1 | 10516 | FBLN5 |
| -0.08056628 | 0.639309764 | 0.677 | 1 | 51231 | VRK3 |
| -0.08056628 | 0.639309764 | 0.652 | 1 | 79772 | MCTP1 |
| -0.08056628 | 0.639309764 | 0.627 | 1 | 153768 | PRELID2 |
| -0.080823682 | 0.638235033 | 0.663 | 1 | 2185 | PTK2B |
| -0.080823682 | 0.638235033 | 0.683 | 1 | 26065 | LSM14A |
| -0.080823682 | 0.638235033 | 0.653 | 1 | 57673 | BEND3 |
| -0.080823682 | 0.638235033 | 0.67 | 1 | 84950 | PRPF38A |
| -0.080823682 | 0.638235033 | 0.669 | 1 | 353140 | LCE2C |
| -0.081081077 | 0.637161493 | 0.683 | 1 | 481 | ATP1B1 |
| -0.081081077 | 0.637161493 | 0.704 | 1 | 3982 | LIM2 |
| -0.081081077 | 0.637161493 | 0.663 | 1 | 4686 | NCBP1 |
| -0.081081077 | 0.637161493 | 0.666 | 1 | 8233 | ZRSR2 |
| -0.081081077 | 0.637161493 | 0.649 | 1 | 9074 | CLDN6 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.037769154 | 0.000679792 | 3212 | HOXB2 |
| -0.037777975 | 0.000677821 | 51105 | PHF20L1 |
| -0.037810944 | 0.000670504 | 57594 | HOMEZ |
| -0.037845768 | 0.000662855 | 7812 | CSDE1 |
| -0.037869543 | 0.00065768 | 64114 | TMBIM1 |
| -0.03790576 | 0.000649868 | 4780 | NFE2L2 |
| -0.038009677 | 0.000627929 | 26184 | OR1F2P |
| -0.03802333 | 0.000625099 | 93380 | MMGT1 |
| -0.038079698 | 0.000613538 | 222389 | BEND7 |
| -0.038093351 | 0.000610768 | 137209 | ZNF572 |
| -0.038130682 | 0.000603253 | 84292 | AC010422.1 |
| -0.038145263 | 0.000600341 | 4678 | NASP |
| -0.038175721 | 0.0005943 | 168448 | CDC14C |
| -0.038188074 | 0.000591867 | 2166 | FAAH |
| -0.038231812 | 0.000583324 | 4499 | MT1M |
| -0.038243793 | 0.000581005 | 29088 | MRPL15 |
| -0.038245 | 0.000580771 | 133619 | PRRC1 |
| -0.038317528 | 0.000566915 | 57830 | KRTAP5-8 |
| -0.038385507 | 0.000554208 | 56125 | PCDHB11 |
| -0.038399808 | 0.000551569 | 10175 | CNIH |
| -0.038415316 | 0.00054872 | 115416 | MALSU1 |
| -0.03843816 | 0.000544549 | 26052 | DNM3 |
| -0.038509481 | 0.000531714 | 56882 | CDC42SE1 |
| -0.038521834 | 0.00052952 | 5394 | EXOSC10 |
| -0.038549691 | 0.000524603 | 150160 | CESK1 |
| -0.038589906 | 0.000517581 | 23255 | KIAA0802 |
| -0.038597334 | 0.000516293 | 571 | BACH1 |
| -0.038609408 | 0.000514206 | 10221 | TRIB1 |
| -0.038629651 | 0.000510726 | 64960 | MRPS15 |
| -0.038650826 | 0.000507108 | 132949 | AASDH |
| -0.038659554 | 0.000505624 | 80700 | UBXN6 |
| -0.038681004 | 0.000501994 | 54859 | C3orf75 |
| -0.038701065 | 0.000498621 | 4149 | MAX |
| -0.038704038 | 0.000498123 | 7693 | ZNF134 |
| -0.038722146 | 0.000495099 | 132321 | C4orf33 |
| -0.038732268 | 0.000493417 | 290 | ANPEP |
| -0.03875697 | 0.000489333 | 5588 | PRKCQ |
| -0.038765512 | 0.000487927 | 81309 | OR4C15 |
| -0.038769785 | 0.000487226 | 6811 | STX5 |
| -0.038842034 | 0.000475508 | 84985 | FAM83A |
| -0.03884612 | 0.000474853 | 55130 | ARMC4 |
| -0.038856708 | 0.00047316 | 57533 | TBC1D14 |
| -0.038887631 | 0.000468248 | 90861 | HN1L |
| -0.038906112 | 0.000465335 | 2167 | FABP4 |
| -0.038944468 | 0.000459343 | 4750 | NEK1 |
| -0.039021824 | 0.000447478 | 7021 | TFAP2B |
| -0.03903947 | 0.000444812 | 79693 | YRDC |
| -0.039062962 | 0.000441285 | 254958 | REXO1L1 |
| -0.039098531 | 0.000435995 | 55362 | TMEM63B |
| -0.039100666 | 0.00043568 | 25764 | HYPK |
| -0.039110512 | 0.000434227 | 10094 | ARPC3 |
| -0.039146822 | 0.000428908 | 3373 | HYAL1 |
| -0.039157778 | 0.000427315 | 81627 | C1orf25 |
| -0.0392018 | 0.00042097 | 8914 | TIMELESS |
| -0.039207462 | 0.00042016 | 92340 | C17orf72 |
| -0.039217584 | 0.000418717 | 10435 | CDC42EP2 |
| -0.039265506 | 0.000411944 | 652904 | CKS1BP6 |
| -0.039290857 | 0.000408402 | 3707 | ITPKB |
| -0.039368398 | 0.000397746 | 148413 | RP4-758J18.2 |
| -0.039566483 | 0.000371691 | 7150 | TOP1 |
| -0.039591372 | 0.000368532 | 2139 | EYA2 |
| -0.039596293 | 0.000367911 | 282775 | OR5J2 |
| -0.039619882 | 0.000364945 | 57473 | ZNF512B |
| -0.039657492 | 0.000360263 | 219899 | TBCEL |
| -0.039660465 | 0.000359895 | 23244 | PDS5A |
| -0.039759364 | 0.000347861 | 112483 | SAT2 |
| -0.039804868 | 0.000342451 | 5635 | PRPSAP1 |
| -0.039829202 | 0.000339591 | 84856 | RP11-178A10.1 |
| -0.039905071 | 0.000330815 | 2950 | GSTP1 |
| -0.039915286 | 0.000329649 | 10587 | TXNRD2 |
| -0.039942034 | 0.000326617 | 55102 | ATG2B |
| -0.040002953 | 0.000319806 | 60678 | EEFSEC |
| -0.040026169 | 0.000317246 | 4500 | MT1L |
| -0.040028676 | 0.000316971 | 10362 | HMG20B |
| -0.040074088 | 0.000312022 | 492 | ATP2B3 |
| -0.040109284 | 0.000308236 | 4939 | OAS2 |
| -0.040149961 | 0.000303915 | 1428 | CRYM |
| -0.040178936 | 0.000300871 | 57582 | KCNT1 |
| -0.040223137 | 0.000296282 | 51058 | ZNF691 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.081081077 | 0.637161493 | 0.666 | 1 | 54936 | ADPRHL2 |
| -0.081081077 | 0.637161493 | 0.686 | 1 | 165324 | UBXN2A |
| -0.081081077 | 0.637161493 | 0.674 | 1 | 729614 | RP11-169K16.9 |
| -0.08133848 | 0.636088729 | 0.666 | 1 | 7032 | TFF2 |
| -0.08133848 | 0.636088729 | 0.664 | 1 | 23659 | PLA2G15 |
| -0.08133848 | 0.636088729 | 0.69 | 1 | 205860 | TRIML2 |
| -0.081595875 | 0.63501668 | 0.645 | 1 | 2131 | EXT1 |
| -0.081595875 | 0.63501668 | 0.677 | 1 | 5788 | PTPRC |
| -0.081595875 | 0.63501668 | 0.662 | 1 | 8392 | OR3A3 |
| -0.081595875 | 0.63501668 | 0.695 | 1 | 22848 | AAK1 |
| -0.081595875 | 0.63501668 | 0.64 | 1 | 129684 | CNTNAP5 |
| -0.081595875 | 0.63501668 | 0.655 | 1 | 195814 | SDR16C5 |
| -0.081595875 | 0.63501668 | 0.674 | 1 | 283521 | LINC00282 |
| -0.081853278 | 0.633945346 | 0.686 | 1 | 9401 | RECQL4 |
| -0.081853278 | 0.633945346 | 0.666 | 1 | 57003 | CCDC47 |
| -0.081853278 | 0.633945346 | 0.662 | 1 | 83463 | MXD3 |
| -0.081853278 | 0.633945346 | 0.649 | 1 | 84290 | CAPNS2 |
| -0.081853278 | 0.633945346 | 0.648 | 1 | 112398 | EGLN2 |
| -0.081853278 | 0.633945346 | 0.66 | 1 | 114569 | MAL2 |
| -0.081853278 | 0.633945346 | 0.638 | 1 | 132949 | AASDH |
| -0.081853278 | 0.633945346 | 0.622 | 1 | 149076 | ZNF362 |
| -0.082110681 | 0.63287431 | 0.686 | 1 | 4739 | NEDD9 |
| -0.082110681 | 0.63287431 | 0.648 | 1 | 6295 | SAG |
| -0.082110681 | 0.63287431 | 0.659 | 1 | 7626 | ZNF75D |
| -0.082110681 | 0.63287431 | 0.662 | 1 | 10308 | ZNF267 |
| -0.082110681 | 0.63287431 | 0.659 | 1 | 25850 | ZNF345 |
| -0.082110681 | 0.63287431 | 0.651 | 1 | 92104 | TTC30A |
| -0.082110681 | 0.63287431 | 0.664 | 1 | 120237 | DBX1 |
| -0.082110681 | 0.63287431 | 0.668 | 1 | 441024 | MTHFD2L |
| -0.082368083 | 0.631804466 | 0.645 | 1 | 5971 | RELB |
| -0.082368083 | 0.631804466 | 0.667 | 1 | 6787 | NEK4 |
| -0.082368083 | 0.631804466 | 0.64 | 1 | 55293 | UEVLD |
| -0.082368083 | 0.631804466 | 0.649 | 1 | 56946 | C11orf30 |
| -0.082368083 | 0.631804466 | 0.644 | 1 | 151194 | FAM119A |
| -0.082625486 | 0.630735397 | 0.653 | 1 | 9533 | POLR1C |
| -0.082625486 | 0.630735397 | 0.636 | 1 | 79590 | MRPL24 |
| -0.082625486 | 0.630735397 | 0.662 | 1 | 84217 | ZMYND12 |
| -0.082625486 | 0.630735397 | 0.647 | 1 | 202309 | GAPT |
| -0.082625486 | 0.630735397 | 0.655 | 1 | 283685 | AC100756.1 |
| -0.082882881 | 0.629667103 | 0.677 | 1 | 7152 | TOP1P2 |
| -0.082882881 | 0.629667103 | 0.658 | 1 | 7275 | TUB |
| -0.083140284 | 0.628598988 | 0.642 | 1 | 4917 | NTN3 |
| -0.083140284 | 0.628598988 | 0.694 | 1 | 9212 | AURKB |
| -0.083140284 | 0.628598988 | 0.687 | 1 | 10112 | KIF20A |
| -0.083140284 | 0.628598988 | 0.669 | 1 | 92482 | BBIP1 |
| -0.083140284 | 0.628598988 | 0.628 | 1 | 377047 | PRSS45 |
| -0.083397686 | 0.627532184 | 0.664 | 1 | 9443 | MED7 |
| -0.083397686 | 0.627532184 | 0.65 | 1 | 23788 | MTCH2 |
| -0.083397686 | 0.627532184 | 0.659 | 1 | 54994 | C20orf11 |
| -0.083397686 | 0.627532184 | 0.653 | 1 | 55768 | NGLY1 |
| -0.083397686 | 0.627532184 | 0.664 | 1 | 57019 | CIAPIN1 |
| -0.083397686 | 0.627532184 | 0.677 | 1 | 57678 | GPAM |
| -0.083397686 | 0.627532184 | 0.667 | 1 | 57820 | CCNB1IP1 |
| -0.083397686 | 0.627532184 | 0.63 | 1 | 79812 | MMRN2 |
| -0.083397686 | 0.627532184 | 0.633 | 1 | 127623 | OR2B11 |
| -0.083397686 | 0.627532184 | 0.641 | 1 | 255313 | CT47A11 |
| -0.083397686 | 0.627532184 | 0.624 | 1 | 730051 | ZNF814 |
| -0.083655082 | 0.626466155 | 0.66 | 1 | 2145 | EZH1 |
| -0.083655082 | 0.626466155 | 0.655 | 1 | 5933 | RBL1 |
| -0.083655082 | 0.626466155 | 0.679 | 1 | 8428 | STK24 |
| -0.083655082 | 0.626466155 | 0.643 | 1 | 9129 | PRPF3 |
| -0.083655082 | 0.626466155 | 0.661 | 1 | 50484 | RRM2B |
| -0.083655082 | 0.626466155 | 0.667 | 1 | 81926 | FAM108A4 |
| -0.083655082 | 0.626466155 | 0.65 | 1 | 144321 | GLIPR1L2 |
| -0.083655082 | 0.626466155 | 0.642 | 1 | 100131434 | LOC100131434 |
| -0.083912484 | 0.625400782 | 0.662 | 1 | 114 | ADCY8 |
| -0.083912484 | 0.625400782 | 0.64 | 1 | 4808 | NHLH2 |
| -0.083912484 | 0.625400782 | 0.655 | 1 | 4985 | OPRD1 |
| -0.083912484 | 0.625400782 | 0.669 | 1 | 6837 | MED22 |
| -0.083912484 | 0.625400782 | 0.645 | 1 | 57045 | TWSG1 |
| -0.083912484 | 0.625400782 | 0.647 | 1 | 79693 | YRDC |
| -0.083912484 | 0.625400782 | 0.626 | 1 | 83706 | FERMT3 |
| -0.08416988 | 0.624335706 | 0.677 | 1 | 9459 | ARHGEF6 |
| -0.08416988 | 0.624335706 | 0.656 | 1 | 9863 | MAGI2 |
| -0.08416988 | 0.624335706 | 0.636 | 1 | 23499 | MACF1 |
| -0.08416988 | 0.624335706 | 0.635 | 1 | 54826 | GIN1 |
| -0.08416988 | 0.624335706 | 0.676 | 1 | 55744 | C7orf44 |
| -0.08416988 | 0.624335706 | 0.67 | 1 | 284654 | RSPO1 |
| -0.08416988 | 0.624335706 | 0.657 | 1 | 345651 | ACTBL2 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.040231217 | 0.000295451 | 2119 | ETV5 |
| -0.040278394 | 0.000290639 | 1105 | CHD1 |
| -0.040300403 | 0.00028842 | 257160 | RNF214 |
| -0.040447503 | 0.000273986 | 1329 | COX5B |
| -0.040457159 | 0.000273063 | 388939 | C2orf71 |
| -0.040479079 | 0.000270978 | 1069 | CETN2 |
| -0.040484462 | 0.000270468 | 262 | AMD1 |
| -0.040505078 | 0.000268524 | 284217 | LAMA1 |
| -0.040519197 | 0.0002672 | 389161 | C3orf16 |
| -0.040580858 | 0.00026149 | 9862 | MED24 |
| -0.040617634 | 0.000258139 | 203260 | CCDC107 |
| -0.040624507 | 0.000257517 | 9349 | RPL23 |
| -0.040642429 | 0.000255902 | 84461 | NEURL4 |
| -0.040651992 | 0.000255044 | 8435 | SOAT2 |
| -0.040663045 | 0.000254056 | 348021 | LINC00442 |
| -0.040676046 | 0.000252898 | 1776 | DNASE1L3 |
| -0.040681247 | 0.000252437 | 100287822 | SETP10 |
| -0.040834382 | 0.000239192 | 7455 | ZAN |
| -0.040870693 | 0.000236148 | 6521 | SLC4A1 |
| -0.040880166 | 0.000235361 | 148545 | NBPF4 |
| -0.040893815 | 0.000234229 | 1629 | DBT |
| -0.040920839 | 0.000232005 | 51074 | APIP |
| -0.040925391 | 0.000231632 | 143630 | UBQLNL |
| -0.040936813 | 0.000230699 | 5191 | PEX7 |
| -0.040949259 | 0.000229687 | 9801 | MRPL19 |
| -0.040975817 | 0.000227541 | 4927 | NUP88 |
| -0.041002657 | 0.000225391 | 55192 | DNAJC17 |
| -0.041083541 | 0.000219026 | 83758 | RBP5 |
| -0.041203059 | 0.000209929 | 26275 | HIBCH |
| -0.041205753 | 0.000209729 | 1519 | CTSO |
| -0.041347653 | 0.000199399 | 54520 | CCDC93 |
| -0.041378949 | 0.000197186 | 6199 | RPS6KB2 |
| -0.041413959 | 0.000194737 | 587 | BCAT2 |
| -0.041558739 | 0.000184913 | 10524 | KAT5 |
| -0.041582696 | 0.000183333 | 9785 | DHX38 |
| -0.041634142 | 0.000179982 | 10161 | LPAR6 |
| -0.041636743 | 0.000179815 | 2247 | FGF2 |
| -0.041645102 | 0.000179276 | 3567 | IL5 |
| -0.041713636 | 0.000174919 | 84777 | MGC11082 |
| -0.041753571 | 0.000172426 | 84705 | GTPBP3 |
| -0.041783843 | 0.000170558 | 729009 | FTH1P20 |
| -0.0419068 | 0.000163167 | 729732 | LOC729732 |
| -0.041968647 | 0.000159564 | 9403 | RP4-604K5.1 |
| -0.042049441 | 0.000154969 | 3643 | INSR |
| -0.042053062 | 0.000154767 | 54929 | TMEM161A |
| -0.042063743 | 0.000154169 | 1639 | DCTN1 |
| -0.042076278 | 0.000153471 | 83871 | RAB34 |
| -0.042107761 | 0.000151731 | 408263 | C5orf40 |
| -0.042148344 | 0.000149515 | 5199 | CFP |
| -0.042168681 | 0.000148416 | 10125 | RASGRP1 |
| -0.042179175 | 0.000147852 | 1831 | TSC22D3 |
| -0.042183723 | 0.000147608 | 51192 | CKLF |
| -0.042185675 | 0.000147504 | 11248 | NXPH3 |
| -0.042302035 | 0.000141397 | 25923 | ATL3 |
| -0.042340111 | 0.00013945 | 55243 | KIRREL |
| -0.042359985 | 0.000138444 | 728763 | LOC728763 |
| -0.042459816 | 0.000133495 | 8726 | EED |
| -0.042516187 | 0.000130774 | 8452 | CUL3 |
| -0.04254479 | 0.000129414 | 83464 | APH1B |
| -0.042574041 | 0.000128036 | 4848 | CNOT2 |
| -0.042588715 | 0.00012735 | 392360 | CTSL3 |
| -0.042590849 | 0.000127251 | 10210 | TOPORS |
| -0.042622704 | 0.000125775 | 5204 | PFDN5 |
| -0.042631153 | 0.000125386 | 390282 | LOC390282 |
| -0.042638212 | 0.000125062 | 152789 | JAKMIP1 |
| -0.042647406 | 0.000124642 | 378825 | LINC00162 |
| -0.042649169 | 0.000124561 | 343 | AQP8 |
| -0.042668577 | 0.000123678 | 1735 | DIO3 |
| -0.042671643 | 0.000123539 | 9581 | PREPL |
| -0.042708233 | 0.000121892 | 55969 | C20orf24 |
| -0.042753831 | 0.000119868 | 26097 | C1orf77 |
| -0.042911887 | 0.000113096 | 84936 | ZFYVE19 |
| -0.042986736 | 0.000110016 | 2983 | GUCY1B3 |
| -0.042997696 | 0.000109572 | 129685 | TAF8 |
| -0.042999554 | 0.000109497 | 91373 | UAP1L1 |
| -0.043004476 | 0.000109298 | 10773 | ZBTB6 |
| -0.043037999 | 0.000107953 | 163255 | ZNF540 |
| -0.043041527 | 0.000107812 | 439933 | MGC42157 |
| -0.043053787 | 0.000107325 | 55065 | GPR172B |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.08416988 | 0.624335706 | 0.664 | 1 | 441150 | C6orf226 |
| -0.08416988 | 0.624335706 | 0.675 | 1 | 613209 | DEFB136 |
| -0.084427282 | 0.623271942 | 0.623 | 1 | 1558 | CYP2C8 |
| -0.084427282 | 0.623271942 | 0.641 | 1 | 5130 | PCYT1A |
| -0.084427282 | 0.623271942 | 0.656 | 1 | 25807 | RHBDD3 |
| -0.084427282 | 0.623271942 | 0.622 | 1 | 84868 | HAVCR2 |
| -0.084427282 | 0.623271942 | 0.662 | 1 | 344593 | LOC344593 |
| -0.084684685 | 0.622208893 | 0.645 | 1 | 5774 | PTPN3 |
| -0.084684685 | 0.622208893 | 0.639 | 1 | 25904 | CNOT10 |
| -0.084684685 | 0.622208893 | 0.662 | 1 | 51433 | ANAPC5 |
| -0.084684685 | 0.622208893 | 0.653 | 1 | 161253 | REM2 |
| -0.084684685 | 0.622208893 | 0.648 | 1 | 646450 | C3orf71 |
| -0.08494208 | 0.621146619 | 0.649 | 1 | 5794 | PTPRH |
| -0.08494208 | 0.621146619 | 0.673 | 1 | 54798 | DCHS2 |
| -0.08494208 | 0.621146619 | 0.633 | 1 | 57529 | RGAG1 |
| -0.08494208 | 0.621146619 | 0.659 | 1 | 64147 | KIF9 |
| -0.08494208 | 0.621146619 | 0.661 | 1 | 122618 | PLD4 |
| -0.08494208 | 0.621146619 | 0.658 | 1 | 134510 | UBLCP1 |
| -0.085199483 | 0.620085061 | 0.627 | 1 | 490 | ATP2B1 |
| -0.085199483 | 0.620085061 | 0.617 | 1 | 3713 | IVL |
| -0.085199483 | 0.620085061 | 0.652 | 1 | 9058 | SLC13A2 |
| -0.085199483 | 0.620085061 | 0.63 | 1 | 22875 | ENPP4 |
| -0.085199483 | 0.620085061 | 0.634 | 1 | 116931 | MED12L |
| -0.085199483 | 0.620085061 | 0.669 | 1 | 283507 | SUGT1L1 |
| -0.085199483 | 0.620085061 | 0.647 | 1 | 441549 | CDNF |
| -0.085456878 | 0.619023919 | 0.641 | 1 | 373 | TRIM23 |
| -0.085456878 | 0.619023919 | 0.656 | 1 | 2868 | GRK4 |
| -0.085456878 | 0.619023919 | 0.661 | 1 | 4342 | MOS |
| -0.085456878 | 0.619023919 | 0.651 | 1 | 9582 | APOBEC3B |
| -0.085456878 | 0.619023919 | 0.651 | 1 | 27246 | RNF115 |
| -0.085456878 | 0.619023919 | 0.643 | 1 | 51305 | KCNK9 |
| -0.085456878 | 0.619023919 | 0.626 | 1 | 259287 | TAS2R41 |
| -0.085714288 | 0.61796385 | 0.656 | 1 | 1896 | EDA |
| -0.085714288 | 0.61796385 | 0.647 | 1 | 4350 | MPG |
| -0.085714288 | 0.61796385 | 0.662 | 1 | 10350 | ABCA9 |
| -0.085714288 | 0.61796385 | 0.65 | 1 | 23305 | ACSL6 |
| -0.085714288 | 0.61796385 | 0.645 | 1 | 115548 | FCHO2 |
| -0.085714288 | 0.61796385 | 0.662 | 1 | 132946 | ARL9 |
| -0.085714288 | 0.61796385 | 0.669 | 1 | 200014 | CC2D1B |
| -0.085971691 | 0.616904616 | 0.618 | 1 | 8731 | RNMT |
| -0.085971691 | 0.616904616 | 0.664 | 1 | 10017 | BCL2L10 |
| -0.085971691 | 0.616904616 | 0.656 | 1 | 10818 | FRS2 |
| -0.085971691 | 0.616904616 | 0.643 | 1 | 55848 | C9orf46 |
| -0.085971691 | 0.616904616 | 0.649 | 1 | 81492 | AC011530.1 |
| -0.085971691 | 0.616904616 | 0.634 | 1 | 83591 | THAP2 |
| -0.085971691 | 0.616904616 | 0.637 | 1 | 400242 | DICER1-AS |
| -0.086229086 | 0.615846217 | 0.616 | 1 | 4926 | NUMA1 |
| -0.086229086 | 0.615846217 | 0.631 | 1 | 7745 | ZNF192 |
| -0.086229086 | 0.615846217 | 0.648 | 1 | 28904 | IGKV1D-8 |
| -0.086229086 | 0.615846217 | 0.643 | 1 | 54512 | EXOSC4 |
| -0.086229086 | 0.615846217 | 0.665 | 1 | 374354 | NHLRC2 |
| -0.086486489 | 0.614787996 | 0.651 | 1 | 54471 | SMCR7L |
| -0.086486489 | 0.614787996 | 0.647 | 1 | 56659 | KCNK13 |
| -0.086486489 | 0.614787996 | 0.631 | 1 | 147166 | TRIM16L |
| -0.086486489 | 0.614787996 | 0.626 | 1 | 646019 | CBY3 |
| -0.086743884 | 0.613731146 | 0.661 | 1 | 189 | AGXT |
| -0.086743884 | 0.613731146 | 0.644 | 1 | 3364 | HUS1 |
| -0.086743884 | 0.613731146 | 0.633 | 1 | 8228 | PNPLA4 |
| -0.086743884 | 0.613731146 | 0.637 | 1 | 10399 | GNB2L1 |
| -0.086743884 | 0.613731146 | 0.654 | 1 | 51013 | EXOSC1 |
| -0.086743884 | 0.613731146 | 0.615 | 1 | 54101 | RIPK4 |
| -0.086743884 | 0.613731146 | 0.658 | 1 | 54939 | COMMD4 |
| -0.087001286 | 0.612675011 | 0.655 | 1 | 1767 | DNAH5 |
| -0.087001286 | 0.612675011 | 0.642 | 1 | 9400 | RECQL5 |
| -0.087001286 | 0.612675011 | 0.649 | 1 | 10730 | YME1L1 |
| -0.087001286 | 0.612675011 | 0.66 | 1 | 85476 | GFM1 |
| -0.087001286 | 0.612675011 | 0.664 | 1 | 90231 | KIAA2013 |
| -0.087001286 | 0.612675011 | 0.643 | 1 | 119559 | SFXN4 |
| -0.087258689 | 0.611619651 | 0.642 | 1 | 117 | ADCYAP1R1 |
| -0.087258689 | 0.611619651 | 0.648 | 1 | 3015 | H2AFZ |
| -0.087258689 | 0.611619651 | 0.661 | 1 | 11257 | TP53TG1 |
| -0.087258689 | 0.611619651 | 0.663 | 1 | 83888 | FGFBP2 |
| -0.087258689 | 0.611619651 | 0.647 | 1 | 84814 | PPAPDC3 |
| -0.087258689 | 0.611619651 | 0.625 | 1 | 128061 | C1orf131 |
| -0.087258689 | 0.611619651 | 0.651 | 1 | 219557 | C7orf62 |
| -0.087258689 | 0.611619651 | 0.636 | 1 | 390431 | OR4K2 |
| -0.087516084 | 0.61056459 | 0.618 | 1 | 23534 | TNPO3 |
| -0.087516084 | 0.61056459 | 0.642 | 1 | 50674 | NEUROG3 |
| -0.087516084 | 0.61056459 | 0.631 | 1 | 51023 | MRPS18C |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.043103933 | 0.000105352 | 8708 | B3GALT1 |
| -0.04311322 | 0.000104991 | 123920 | CMTM3 |
| -0.043123342 | 0.000104598 | 375323 | LHFPL4 |
| -0.043144424 | 0.000103785 | 11243 | PMF1 |
| -0.043186769 | 0.000102169 | 80059 | LRRTM4 |
| -0.043213144 | 0.000101175 | 2717 | GLA |
| -0.043230973 | 0.000100508 | 55614 | KIF16B |
| -0.043261062 | 9.93919E-05 | 221496 | LEMD2 |
| -0.043334708 | 9.67091E-05 | 219844 | HYLS1 |
| -0.043342508 | 9.64289E-05 | 1821 | DRP2 |
| -0.043431472 | 9.32879E-05 | 91749 | KIAA1919 |
| -0.043455802 | 9.24459E-05 | 2689 | GH2 |
| -0.043544397 | 8.94398E-05 | 728450 | AL080274.2 |
| -0.043545883 | 8.93903E-05 | 5162 | PDHB |
| -0.043585259 | 8.80849E-05 | 3597 | IL13RA1 |
| -0.043669675 | 8.53465E-05 | 6883 | TAF12 |
| -0.043670047 | 8.53347E-05 | 51466 | EVL |
| -0.043741737 | 8.30729E-05 | 22863 | KIAA0831 |
| -0.043814916 | 8.08225E-05 | 122525 | C14orf28 |
| -0.043818444 | 8.07155E-05 | 6505 | SLC1A1 |
| -0.043830238 | 8.03587E-05 | 10871 | CD300C |
| -0.043854106 | 7.96412E-05 | 55751 | TMEM184C |
| -0.043953471 | 7.67188E-05 | 718 | C3 |
| -0.043971673 | 7.61945E-05 | 84720 | PIGO |
| -0.044018943 | 7.48489E-05 | 1719 | DHFRP1 |
| -0.044032685 | 7.44619E-05 | 55422 | ZNF331 |
| -0.044038352 | 7.43029E-05 | 6433 | SFRS8 |
| -0.04406872 | 7.34561E-05 | 1848 | DUSP6 |
| -0.044082649 | 7.30709E-05 | 51002 | TPRKB |
| -0.044088777 | 7.29019E-05 | 158431 | ZNF782 |
| -0.044094723 | 7.27384E-05 | 48 | ACO1 |
| -0.044118587 | 7.20855E-05 | 90317 | ZNF616 |
| -0.044176165 | 7.05331E-05 | 6873 | TAF2 |
| -0.044224177 | 6.92628E-05 | 5992 | RFX4 |
| -0.044354375 | 6.5926E-05 | 64096 | GFRA4 |
| -0.044372205 | 6.54809E-05 | 31 | ACACA |
| -0.044373877 | 6.54393E-05 | 5189 | PEX1 |
| -0.044445198 | 6.36889E-05 | 84932 | RAB2B |
| -0.044538062 | 6.14761E-05 | 10450 | PPIE |
| -0.044574004 | 6.06393E-05 | 55501 | CHST12 |
| -0.044662967 | 5.86143E-05 | 9639 | ARHGEF10 |
| -0.044714786 | 5.74645E-05 | 399947 | C11orf87 |
| -0.04477023 | 5.62578E-05 | 1129 | CHRM2 |
| -0.044776544 | 5.6122E-05 | 84100 | ARL6 |
| -0.044778865 | 5.60721E-05 | 63946 | DMRTC2 |
| -0.044806633 | 5.54787E-05 | 80155 | NARG1 |
| -0.044835236 | 5.48736E-05 | 1677 | DFFB |
| -0.044842757 | 5.47157E-05 | 4168 | MCF2 |
| -0.044864953 | 5.42519E-05 | 166968 | MIER3 |
| -0.044933394 | 5.28447E-05 | 375189 | PFN4 |
| -0.044948623 | 5.25363E-05 | 51520 | LARS |
| -0.044975091 | 5.20044E-05 | 22832 | KIAA1009 |
| -0.045006573 | 5.13784E-05 | 4855 | NOTCH4 |
| -0.045080587 | 4.99346E-05 | 9567 | GTPBP1 |
| -0.045117363 | 4.92318E-05 | 9540 | TP53I3 |
| -0.045157015 | 4.84843E-05 | 79847 | TMEM180 |
| -0.045170669 | 4.82295E-05 | 375748 | C9orf102 |
| -0.045256846 | 4.66499E-05 | 11278 | KLF12 |
| -0.045272447 | 4.63692E-05 | 6993 | DYNLT1 |
| -0.045325104 | 4.54337E-05 | 6158 | RPL28 |
| -0.045374043 | 4.45803E-05 | 23383 | KIAA0892 |
| -0.045389645 | 4.43114E-05 | 84269 | CHCHD5 |
| -0.045391593 | 4.4278E-05 | 220729 | AC024560.3 |
| -0.045424655 | 4.37138E-05 | 731275 | LOC731275 |
| -0.045473319 | 4.28957E-05 | 4137 | MAPT |
| -0.045486875 | 4.26703E-05 | 54876 | C4orf30 |
| -0.045653105 | 3.99972E-05 | 9625 | AATK |
| -0.045669358 | 3.97446E-05 | 10686 | CLDN16 |
| -0.045715418 | 3.90369E-05 | 729330 | OC90 |
| -0.045779496 | 3.80719E-05 | 10934 | MORF4 |
| -0.045780983 | 3.80499E-05 | 10975 | UQCR11 |
| -0.045799091 | 3.77815E-05 | 2004 | ELK3 |
| -0.045799185 | 3.77801E-05 | 26280 | KCTD9P2 |
| -0.045806147 | 3.76774E-05 | 5629 | PROX1 |
| -0.045833174 | 3.72812E-05 | 10935 | PRDX3 |
| -0.045855552 | 3.69562E-05 | 54906 | C10orf18 |
| -0.045867812 | 3.67792E-05 | 63906 | GPATCH3 |
| -0.045873292 | 3.67005E-05 | 2548 | GAA |
| -0.045887686 | 3.64942E-05 | 3125 | HLA-DRB3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.087516084 | 0.61056459 | 0.659 | 1 | 149281 | METTL11B |
| -0.087516084 | 0.61056459 | 0.663 | 1 | 149837 | LOC149837 |
| -0.087773487 | 0.609510779 | 0.631 | 1 | 2063 | NR2F6 |
| -0.087773487 | 0.609510779 | 0.622 | 1 | 2665 | GDI2 |
| -0.087773487 | 0.609510779 | 0.645 | 1 | 3577 | IL8RA |
| -0.087773487 | 0.609510779 | 0.644 | 1 | 10963 | AP005668.1 |
| -0.087773487 | 0.609510779 | 0.637 | 1 | 57655 | GRAMD1A |
| -0.087773487 | 0.609510779 | 0.657 | 1 | 79933 | SYNPO2L |
| -0.087773487 | 0.609510779 | 0.649 | 1 | 196968 | C15orf51 |
| -0.087773487 | 0.609510779 | 0.594 | 1 | 440957 | C3orf78 |
| -0.088030882 | 0.608457804 | 0.624 | 1 | 1796 | DOK1 |
| -0.088030882 | 0.608457804 | 0.654 | 1 | 3842 | TNPO1 |
| -0.088030882 | 0.608457804 | 0.638 | 1 | 5739 | PTGIR |
| -0.088030882 | 0.608457804 | 0.661 | 1 | 7881 | KCNAB1 |
| -0.088030882 | 0.608457804 | 0.646 | 1 | 8890 | EIF2B4 |
| -0.088030882 | 0.608457804 | 0.635 | 1 | 9367 | RAB9A |
| -0.088030882 | 0.608457804 | 0.652 | 1 | 54801 | HAUS6 |
| -0.088030882 | 0.608457804 | 0.652 | 1 | 143884 | CWF19L2 |
| -0.088030882 | 0.608457804 | 0.645 | 1 | 170572 | HTR3C |
| -0.088030882 | 0.608457804 | 0.64 | 1 | 198437 | C20orf201 |
| -0.088288285 | 0.607405543 | 0.649 | 1 | 312 | ANXA13 |
| -0.088288285 | 0.607405543 | 0.622 | 1 | 4297 | MLL |
| -0.088288285 | 0.607405543 | 0.654 | 1 | 4772 | NFATC1 |
| -0.088288285 | 0.607405543 | 0.649 | 1 | 23645 | PPP1R15A |
| -0.088288285 | 0.607405543 | 0.641 | 1 | 27089 | UQCRQ |
| -0.088288285 | 0.607405543 | 0.667 | 1 | 54549 | SDK2 |
| -0.088288285 | 0.607405543 | 0.619 | 1 | 80208 | SPG11 |
| -0.088288285 | 0.607405543 | 0.662 | 1 | 100128124 | HGC6.3 |
| -0.088545687 | 0.606354117 | 0.664 | 1 | 23761 | PISD |
| -0.088803083 | 0.605302989 | 0.66 | 1 | 7525 | YES1 |
| -0.088803083 | 0.605302989 | 0.625 | 1 | 50805 | IRX4 |
| -0.088803083 | 0.605302989 | 0.619 | 1 | 51545 | ZNF581 |
| -0.088803083 | 0.605302989 | 0.637 | 1 | 79730 | NSUN7 |
| -0.088803083 | 0.605302989 | 0.639 | 1 | 80201 | HKDC1 |
| -0.088803083 | 0.605302989 | 0.651 | 1 | 80306 | MED28 |
| -0.088803083 | 0.605302989 | 0.659 | 1 | 81615 | TMEM163 |
| -0.088803083 | 0.605302989 | 0.639 | 1 | 114088 | TRIM9 |
| -0.088803083 | 0.605302989 | 0.632 | 1 | 160364 | CLEC12A |
| -0.088803083 | 0.605302989 | 0.662 | 1 | 348807 | CCDC37 |
| -0.088803083 | 0.605302989 | 0.633 | 1 | 387804 | VSTM5 |
| -0.089060485 | 0.604253113 | 0.617 | 1 | 3396 | ICT1 |
| -0.089060485 | 0.604253113 | 0.655 | 1 | 8500 | PPFIA1 |
| -0.089060485 | 0.604253113 | 0.653 | 1 | 10482 | NXF1 |
| -0.089060485 | 0.604253113 | 0.653 | 1 | 10670 | RRAGA |
| -0.089060485 | 0.604253113 | 0.597 | 1 | 54554 | WDR5B |
| -0.089060485 | 0.604253113 | 0.648 | 1 | 84441 | MAML2 |
| -0.089060485 | 0.604253113 | 0.626 | 1 | 113444 | C1orf212 |
| -0.089060485 | 0.604253113 | 0.637 | 1 | 200159 | C1orf100 |
| -0.089060485 | 0.604253113 | 0.634 | 1 | 440888 | ACTR3BP2 |
| -0.089317888 | 0.603204131 | 0.623 | 1 | 6815 | STYX |
| -0.089317888 | 0.603204131 | 0.641 | 1 | 7051 | TGM1 |
| -0.089317888 | 0.603204131 | 0.623 | 1 | 9738 | AC012621.2 |
| -0.089317888 | 0.603204131 | 0.606 | 1 | 24144 | TFIP11 |
| -0.089317888 | 0.603204131 | 0.644 | 1 | 147339 | C18orf25 |
| -0.089575291 | 0.602155805 | 0.647 | 1 | 406 | ARNTL |
| -0.089575291 | 0.602155805 | 0.613 | 1 | 1373 | CPS1 |
| -0.089575291 | 0.602155805 | 0.627 | 1 | 1944 | EFNA3 |
| -0.089575291 | 0.602155805 | 0.636 | 1 | 2040 | STOM |
| -0.089575291 | 0.602155805 | 0.638 | 1 | 23410 | SIRT3 |
| -0.089575291 | 0.602155805 | 0.648 | 1 | 51465 | UBE2J1 |
| -0.089575291 | 0.602155805 | 0.646 | 1 | 57568 | SIPA1L2 |
| -0.089575291 | 0.602155805 | 0.639 | 1 | 84771 | DDX11L2 |
| -0.089575291 | 0.602155805 | 0.63 | 1 | 133383 | C5orf35 |
| -0.089575291 | 0.602155805 | 0.626 | 1 | 100129094 | BTNL10 |
| -0.089832693 | 0.601107895 | 0.61 | 1 | 468 | ATF4 |
| -0.089832693 | 0.601107895 | 0.631 | 1 | 11162 | NUDT6 |
| -0.089832693 | 0.601107895 | 0.604 | 1 | 51585 | PCF11 |
| -0.089832693 | 0.601107895 | 0.612 | 1 | 64645 | HIAT1 |
| -0.089832693 | 0.601107895 | 0.646 | 1 | 165829 | GPR156 |
| -0.089832693 | 0.601107895 | 0.628 | 1 | 401105 | AC022498.2 |
| -0.089832693 | 0.601107895 | 0.62 | 1 | 401505 | TOMM5 |
| -0.090090089 | 0.600061238 | 0.63 | 1 | 6490 | SILV |
| -0.090090089 | 0.600061238 | 0.611 | 1 | 23233 | EXOC6B |
| -0.090090089 | 0.600061238 | 0.6 | 1 | 51665 | ASB1 |
| -0.090090089 | 0.600061238 | 0.64 | 1 | 134429 | STARD4 |
| -0.090090089 | 0.600061238 | 0.622 | 1 | 165100 | C2orf57 |
| -0.090090089 | 0.600061238 | 0.606 | 1 | 196872 | RP11-477I4.3 |
| -0.090347491 | 0.599015236 | 0.64 | 1 | 2187 | FANCB |
| -0.090347491 | 0.599015236 | 0.623 | 1 | 8875 | VNN2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.045892701 | 3.64225E-05 | 202 | AIM1 |
| -0.045908395 | 3.61992E-05 | 56948 | SDR39U1 |
| -0.046013981 | 3.47308E-05 | 10084 | PQBP1 |
| -0.046081312 | 3.38242E-05 | 84300 | MNF1 |
| -0.046112791 | 3.34079E-05 | 340706 | VWA2 |
| -0.046136566 | 3.30968E-05 | 114814 | GNRHR2 |
| -0.046157088 | 3.28306E-05 | 391475 | DYTN |
| -0.046179749 | 3.25388E-05 | 29957 | SLC25A24 |
| -0.046208259 | 3.21754E-05 | 9810 | RNF40 |
| -0.046216153 | 3.20754E-05 | 203414 | CXorf24 |
| -0.046222281 | 3.1998E-05 | 8470 | SORBS2 |
| -0.046259057 | 3.15372E-05 | 140732 | SPAG4L |
| -0.0462832 | 3.12382E-05 | 1408 | CRY2 |
| -0.046287287 | 3.11878E-05 | 9104 | RGN |
| -0.046298988 | 3.10441E-05 | 8890 | EIF2B4 |
| -0.046326477 | 3.07089E-05 | 252884 | ZNF396 |
| -0.046378948 | 3.00785E-05 | 23505 | TMEM131 |
| -0.046395477 | 2.98825E-05 | 10186 | LHFP |
| -0.046472833 | 2.89812E-05 | 79852 | EPHX3 |
| -0.046475247 | 2.89536E-05 | 58157 | NGB |
| -0.046490386 | 2.87803E-05 | 57455 | REXO1 |
| -0.04651453 | 2.85062E-05 | 8479 | HIRIP3 |
| -0.046535052 | 2.82751E-05 | 202018 | TAPT1 |
| -0.046552047 | 2.80851E-05 | 27131 | SNX5 |
| -0.046558641 | 2.80117E-05 | 6091 | ROBO1 |
| -0.046578608 | 2.77906E-05 | 11333 | PDAP1 |
| -0.046591889 | 2.76445E-05 | 50617 | ATP6V0A4 |
| -0.046617333 | 2.73664E-05 | 3371 | TNC |
| -0.046690512 | 2.65816E-05 | 118487 | CHCHD1 |
| -0.046760533 | 2.58508E-05 | 10807 | SDCCAG3 |
| -0.046810493 | 2.5341E-05 | 713 | C1QB |
| -0.046827767 | 2.5167E-05 | 10769 | PLK2 |
| -0.046941157 | 2.40526E-05 | 2188 | FANCF |
| -0.047023252 | 2.32754E-05 | 81691 | AC004381.2 |
| -0.047029473 | 2.32174E-05 | 7024 | TFCP2 |
| -0.04704034 | 2.31165E-05 | 147111 | NOTUM |
| -0.047073863 | 2.28081E-05 | 2810 | SFN |
| -0.047155585 | 2.20724E-05 | 100128164 | RP11-379K17.4 |
| -0.04719951 | 2.16864E-05 | 3431 | SP110 |
| -0.047207959 | 2.16128E-05 | 81888 | HYI |
| -0.047227833 | 2.14408E-05 | 9246 | UBE2L6 |
| -0.04729934 | 2.08327E-05 | 9093 | DNAJA3 |
| -0.047299527 | 2.08312E-05 | 6640 | SNTA1 |
| -0.047325157 | 2.06173E-05 | 5004 | ORM1 |
| -0.047458328 | 1.9539E-05 | 1234 | CCR5 |
| -0.047479592 | 1.93719E-05 | 27249 | MMADHC |
| -0.047486931 | 1.93145E-05 | 90007 | MIDN |
| -0.047525283 | 1.90174E-05 | 79730 | NSUN7 |
| -0.047539771 | 1.89063E-05 | 9559 | VPS26A |
| -0.047561593 | 1.87401E-05 | 3895 | KTN1 |
| -0.047614437 | 1.83434E-05 | 7757 | ZNF208 |
| -0.047643408 | 1.81293E-05 | 60481 | ELOVL5 |
| -0.047671735 | 1.79223E-05 | 57724 | KIAA1632 |
| -0.047687057 | 1.78112E-05 | 5129 | PCTK3 |
| -0.047725409 | 1.75362E-05 | 81789 | TIGD6 |
| -0.047761351 | 1.72821E-05 | 23649 | POLA2 |
| -0.047791809 | 1.70695E-05 | 83608 | C18orf21 |
| -0.047803044 | 1.69917E-05 | 150248 | C22orf15 |
| -0.047902599 | 1.6317E-05 | 25926 | NOL11 |
| -0.048046634 | 1.5386E-05 | 5379 | PMS2P1 |
| -0.048053227 | 1.53446E-05 | 3779 | KCNMB1 |
| -0.048064001 | 1.52772E-05 | 283578 | TMED8 |
| -0.048080064 | 1.51772E-05 | 84874 | ZNF514 |
| -0.048143215 | 1.47902E-05 | 9023 | CH25H |
| -0.048148602 | 1.47577E-05 | 171023 | ASXL1 |
| -0.048153058 | 1.47308E-05 | 51421 | AMOTL2 |
| -0.048165318 | 1.46571E-05 | 124454 | EARS2 |
| -0.048174694 | 1.46009E-05 | 7328 | UBE2H |
| -0.048192155 | 1.44969E-05 | 387885 | CCDC42B |
| -0.048218064 | 1.43438E-05 | 546 | ATRX |
| -0.048246946 | 1.4175E-05 | 84311 | MRPL45 |
| -0.048318081 | 1.37672E-05 | 1836 | SLC26A2 |
| -0.048319194 | 1.37609E-05 | 203510 | HMGB3P30 |
| -0.048367113 | 1.34927E-05 | 55164 | SHQ1 |
| -0.04839126 | 1.33595E-05 | 55193 | PBRM1 |
| -0.048422463 | 1.31891E-05 | 4704 | NDUFA9 |
| -0.048473261 | 1.29162E-05 | 28952 | CCDC22 |
| -0.048493225 | 1.28104E-05 | 10825 | NEU3 |
| -0.04850474 | 1.27498E-05 | 3818 | KLKB1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.090347491 | 0.599015236 | 0.622 | 1 | 10208 | USPL1 |
| -0.090347491 | 0.599015236 | 0.616 | 1 | 23041 | MON2 |
| -0.090347491 | 0.599015236 | 0.628 | 1 | 23244 | PDS5A |
| -0.090604886 | 0.597970247 | 0.639 | 1 | 177 | AGER |
| -0.090604886 | 0.597970247 | 0.611 | 1 | 6135 | RPL11 |
| -0.090604886 | 0.597970247 | 0.63 | 1 | 9856 | KIAA0319 |
| -0.090604886 | 0.597970247 | 0.621 | 1 | 51057 | C2orf86 |
| -0.090604886 | 0.597970247 | 0.661 | 1 | 84852 | C1orf203 |
| -0.090604886 | 0.597970247 | 0.6 | 1 | 390882 | OR7G2 |
| -0.090862289 | 0.596925437 | 0.627 | 1 | 2877 | GPX2 |
| -0.090862289 | 0.596925437 | 0.639 | 1 | 8326 | FZD9 |
| -0.090862289 | 0.596925437 | 0.632 | 1 | 9477 | MED20 |
| -0.090862289 | 0.596925437 | 0.636 | 1 | 23291 | FBXW11 |
| -0.090862289 | 0.596925437 | 0.624 | 1 | 55876 | GSDMB |
| -0.090862289 | 0.596925437 | 0.635 | 1 | 90736 | FAM104B |
| -0.090862289 | 0.596925437 | 0.643 | 1 | 93624 | TADA2B |
| -0.090862289 | 0.596925437 | 0.627 | 1 | 169834 | ZNF883 |
| -0.091119692 | 0.595881999 | 0.618 | 1 | 9673 | SLC25A44 |
| -0.091119692 | 0.595881999 | 0.619 | 1 | 54811 | ZNF562 |
| -0.091119692 | 0.595881999 | 0.627 | 1 | 55282 | LRRC36 |
| -0.091119692 | 0.595881999 | 0.593 | 1 | 64975 | MRPL41 |
| -0.091119692 | 0.595881999 | 0.624 | 1 | 140699 | C20orf132 |
| -0.091119692 | 0.595881999 | 0.621 | 1 | 140801 | RPL10L |
| -0.091119692 | 0.595881999 | 0.625 | 1 | 283596 | SNHG10 |
| -0.091377087 | 0.594839275 | 0.594 | 1 | 604 | BCL6 |
| -0.091377087 | 0.594839275 | 0.612 | 1 | 2912 | GRM2 |
| -0.091377087 | 0.594839275 | 0.617 | 1 | 3765 | KCNJ9 |
| -0.091377087 | 0.594839275 | 0.632 | 1 | 6096 | RORB |
| -0.091377087 | 0.594839275 | 0.647 | 1 | 6704 | SPRR2E |
| -0.091377087 | 0.594839275 | 0.623 | 1 | 7593 | MZF1 |
| -0.091377087 | 0.594839275 | 0.602 | 1 | 7913 | DEK |
| -0.091377087 | 0.594839275 | 0.64 | 1 | 9632 | SEC24C |
| -0.091377087 | 0.594839275 | 0.641 | 1 | 10672 | GNA13 |
| -0.091377087 | 0.594839275 | 0.612 | 1 | 56891 | LGALS14 |
| -0.091377087 | 0.594839275 | 0.636 | 1 | 57758 | SCUBE2 |
| -0.091377087 | 0.594839275 | 0.614 | 1 | 121441 | NEDD1 |
| -0.091377087 | 0.594839275 | 0.64 | 1 | 255275 | MYADML2 |
| -0.091377087 | 0.594839275 | 0.644 | 1 | 256302 | C17orf103 |
| -0.091377087 | 0.594839275 | 0.621 | 1 | 401491 | RP11-125B21.2 |
| -0.09163449 | 0.593797386 | 0.615 | 1 | 3420 | IDH3B |
| -0.09163449 | 0.593797386 | 0.618 | 1 | 6657 | SOX2 |
| -0.09163449 | 0.593797386 | 0.622 | 1 | 9337 | CNOT8 |
| -0.09163449 | 0.593797386 | 0.625 | 1 | 9567 | GTPBP1 |
| -0.09163449 | 0.593797386 | 0.661 | 1 | 54793 | KCTD9 |
| -0.09163449 | 0.593797386 | 0.629 | 1 | 85446 | ZFHX2 |
| -0.09163449 | 0.593797386 | 0.621 | 1 | 135293 | PM20D2 |
| -0.09163449 | 0.593797386 | 0.619 | 1 | 160897 | GPR180 |
| -0.09163449 | 0.593797386 | 0.608 | 1 | 283377 | SPRYD4 |
| -0.091891885 | 0.592756331 | 0.631 | 1 | 683 | BST1 |
| -0.091891885 | 0.592756331 | 0.622 | 1 | 1473 | CST5 |
| -0.091891885 | 0.592756331 | 0.607 | 1 | 6596 | HLTF |
| -0.091891885 | 0.592756331 | 0.627 | 1 | 6738 | TROVE2 |
| -0.091891885 | 0.592756331 | 0.629 | 1 | 7809 | BSND |
| -0.091891885 | 0.592756331 | 0.63 | 1 | 26103 | LRIT1 |
| -0.091891885 | 0.592756331 | 0.628 | 1 | 347731 | LRRTM3 |
| -0.092149287 | 0.591715634 | 0.625 | 1 | 2906 | GRIN2D |
| -0.092149287 | 0.591715634 | 0.63 | 1 | 3998 | LMAN1 |
| -0.092149287 | 0.591715634 | 0.622 | 1 | 50856 | CLEC4A |
| -0.092149287 | 0.591715634 | 0.622 | 1 | 646817 | SETP18 |
| -0.09240669 | 0.590676188 | 0.614 | 1 | 6198 | RPS6KB1 |
| -0.09240669 | 0.590676188 | 0.617 | 1 | 9049 | AIP |
| -0.09240669 | 0.590676188 | 0.636 | 1 | 9064 | MAP3K6 |
| -0.09240669 | 0.590676188 | 0.615 | 1 | 51214 | IGF2AS |
| -0.092664085 | 0.589637578 | 0.621 | 1 | 9372 | ZFYVE9 |
| -0.092664085 | 0.589637578 | 0.624 | 1 | 22901 | ARSG |
| -0.092664085 | 0.589637578 | 0.614 | 1 | 60482 | SLC5A7 |
| -0.092664085 | 0.589637578 | 0.613 | 1 | 60490 | PPCDC |
| -0.092664085 | 0.589637578 | 0.612 | 1 | 65249 | ZSWIM4 |
| -0.092664085 | 0.589637578 | 0.622 | 1 | 79671 | NLRX1 |
| -0.092664085 | 0.589637578 | 0.61 | 1 | 148223 | C19orf25 |
| -0.092664085 | 0.589637578 | 0.64 | 1 | 167691 | LCA5 |
| -0.092921495 | 0.588599801 | 0.61 | 1 | 7381 | UQCRB |
| -0.092921495 | 0.588599801 | 0.612 | 1 | 9209 | LRRFIP2 |
| -0.092921495 | 0.588599801 | 0.634 | 1 | 10184 | LHFPL2 |
| -0.092921495 | 0.588599801 | 0.593 | 1 | 54993 | ZSCAN2 |
| -0.092921495 | 0.588599801 | 0.629 | 1 | 60481 | ELOVL5 |
| -0.092921495 | 0.588599801 | 0.614 | 1 | 201627 | FAM116A |
| -0.092921495 | 0.588599801 | 0.572 | 1 | 653562 | LOC653562 |
| -0.093178898 | 0.587562323 | 0.647 | 1 | 337 | APOA4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.048550151 | 1.25133E-05 | 55508 | SLC35E3 |
| -0.048570119 | 1.24107E-05 | 6629 | SNRPB2 |
| -0.04859928 | 1.22622E-05 | 2159 | F10 |
| -0.048624631 | 1.21346E-05 | 57209 | ZNF248 |
| -0.048625283 | 1.21313E-05 | 386684 | KRTAP12-4 |
| -0.048634939 | 1.2083E-05 | 51284 | TLR7 |
| -0.048682023 | 1.18502E-05 | 151903 | CCDC12 |
| -0.048698645 | 1.1769E-05 | 54414 | SIAE |
| -0.048714619 | 1.16915E-05 | 6342 | SCP2 |
| -0.048766997 | 1.14408E-05 | 29015 | SLC43A3 |
| -0.048793275 | 1.13169E-05 | 50 | ACO2 |
| -0.048854753 | 1.10321E-05 | 79819 | WDR78 |
| -0.048855588 | 1.10283E-05 | 353149 | TBC1D26 |
| -0.048858374 | 1.10156E-05 | 55572 | FOXRED1 |
| -0.048881128 | 1.09121E-05 | 255812 | SDHAP1 |
| -0.048916973 | 1.07509E-05 | 8555 | CDC14B |
| -0.048923753 | 1.07207E-05 | 81542 | TMX1 |
| -0.048956163 | 1.05773E-05 | 64850 | AGXT2L1 |
| -0.04899554 | 1.04055E-05 | 51103 | NDUFAF1 |
| -0.049078468 | 1.00525E-05 | 84514 | GHDC |
| -0.049086083 | 1.00207E-05 | 1147 | CHUK |
| -0.049167339 | 9.68689E-06 | 10715 | LASS1 |
| -0.049178392 | 9.64232E-06 | 92017 | SNX29 |
| -0.049217489 | 9.48622E-06 | 2908 | NR3C1 |
| -0.049260672 | 9.3166E-06 | 1187 | CLCNKA |
| -0.049325306 | 9.06814E-06 | 64858 | DCLRE1B |
| -0.04933738 | 9.02244E-06 | 56252 | YLPM1 |
| -0.049344249 | 8.99653E-06 | 2833 | CXCR3 |
| -0.049455598 | 8.58639E-06 | 57678 | GPAM |
| -0.049484849 | 8.48164E-06 | 6169 | RPL38 |
| -0.049504165 | 8.41315E-06 | 55726 | C12orf11 |
| -0.049551155 | 8.24871E-06 | 729501 | ZNF962P |
| -0.049639378 | 7.94825E-06 | 404220 | C6orf201 |
| -0.049666587 | 7.85772E-06 | 54936 | ADPRHL2 |
| -0.049701229 | 7.74389E-06 | 10311 | DSCR3 |
| -0.049708657 | 7.71967E-06 | 118432 | RPL29P2 |
| -0.049717572 | 7.69072E-06 | 1371 | CPOX |
| -0.049741901 | 7.61223E-06 | 5950 | RBP4 |
| -0.049814247 | 7.38334E-06 | 3459 | IFNGR1 |
| -0.049842756 | 7.29496E-06 | 57462 | KIAA1161 |
| -0.04985724 | 7.25044E-06 | 645323 | LINC00461 |
| -0.049902003 | 7.11451E-06 | 30813 | VSX1 |
| -0.049962737 | 6.93396E-06 | 10137 | RBM12 |
| -0.049965523 | 6.92579E-06 | 1398 | CRK |
| -0.049982611 | 6.87586E-06 | 29969 | MDFIC |
| -0.050024029 | 6.75623E-06 | 56253 | CRTAM |
| -0.050034616 | 6.72597E-06 | 9945 | GFPT2 |
| -0.050078262 | 6.60259E-06 | 92714 | ARRDC1 |
| -0.050087828 | 6.57582E-06 | 285195 | SLC9A9 |
| -0.050140481 | 6.43044E-06 | 57623 | ZFAT |
| -0.050155435 | 6.38971E-06 | 391712 | TRIM61 |
| -0.050283682 | 6.0504E-06 | 8877 | SPHK1 |
| -0.050290648 | 6.03245E-06 | 1967 | EIF2B1 |
| -0.050331414 | 5.92856E-06 | 9261 | MAPKAPK2 |
| -0.050334107 | 5.92175E-06 | 83473 | KATNAL2 |
| -0.050397445 | 5.76389E-06 | 7096 | TLR1 |
| -0.050520398 | 5.46885E-06 | 728855 | BX248398.1 |
| -0.05052755 | 5.45214E-06 | 23592 | LEMD3 |
| -0.050547052 | 5.40683E-06 | 84950 | PRPF38A |
| -0.050612614 | 5.25712E-06 | 51099 | ABHD5 |
| -0.050620601 | 5.23916E-06 | 100289143 | LOC100289143 |
| -0.050631743 | 5.21418E-06 | 6314 | ATXN7 |
| -0.050659418 | 5.15267E-06 | 1796 | DOK1 |
| -0.050738819 | 4.98002E-06 | 3549 | IHH |
| -0.050745413 | 4.96595E-06 | 226 | ALDOA |
| -0.050750054 | 4.95605E-06 | 4669 | NAGLU |
| -0.050809119 | 4.8318E-06 | 23166 | STAB1 |
| -0.050856851 | 4.73358E-06 | 285590 | SH3PXD2B |
| -0.050860845 | 4.72545E-06 | 10941 | UGT2A1 |
| -0.050864745 | 4.71752E-06 | 441212 | RP9P |
| -0.050881274 | 4.68406E-06 | 81853 | TMEM14B |
| -0.050898362 | 4.64971E-06 | 432369 | ATP5EP2 |
| -0.050987791 | 4.47384E-06 | 150684 | COMMD1 |
| -0.051028188 | 4.39651E-06 | 1373 | CPS1 |
| -0.051040728 | 4.37276E-06 | 10906 | TRAFD1 |
| -0.051072672 | 4.31283E-06 | 10654 | PMVK |
| -0.051107034 | 4.24924E-06 | 79034 | C7orf26 |
| -0.051116131 | 4.23256E-06 | 2290 | FOXG1B |
| -0.051179282 | 4.11845E-06 | 84310 | C7orf50 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.093178898 | 0.587562323 | 0.648 | 1 | 875 | CBS |
| -0.093178898 | 0.587562323 | 0.632 | 1 | 8763 | CD164 |
| -0.093178898 | 0.587562323 | 0.62 | 1 | 10618 | TGOLN2 |
| -0.093178898 | 0.587562323 | 0.596 | 1 | 54883 | CCDC49 |
| -0.093178898 | 0.587562323 | 0.614 | 1 | 57002 | C7orf36 |
| -0.093178898 | 0.587562323 | 0.61 | 1 | 57693 | ZNF317 |
| -0.093178898 | 0.587562323 | 0.619 | 1 | 64241 | ABCG8 |
| -0.093436293 | 0.586526096 | 0.64 | 1 | 4974 | OMG |
| -0.093436293 | 0.586526096 | 0.633 | 1 | 9489 | PGS1 |
| -0.093436293 | 0.586526096 | 0.611 | 1 | 10050 | SLC17A4 |
| -0.093436293 | 0.586526096 | 0.617 | 1 | 23093 | TTLL5 |
| -0.093436293 | 0.586526096 | 0.599 | 1 | 644768 | SLC9B1P4 |
| -0.093693696 | 0.585490823 | 0.621 | 1 | 1441 | CSF3R |
| -0.093693696 | 0.585490823 | 0.615 | 1 | 10410 | IFITM3 |
| -0.093693696 | 0.585490823 | 0.589 | 1 | 22897 | CEP164 |
| -0.093693696 | 0.585490823 | 0.622 | 1 | 51463 | GPR89B |
| -0.093693696 | 0.585490823 | 0.598 | 1 | 51806 | CALML5 |
| -0.093693696 | 0.585490823 | 0.624 | 1 | 127074 | OR2T4 |
| -0.093693696 | 0.585490823 | 0.638 | 1 | 146562 | C16orf71 |
| -0.093693696 | 0.585490823 | 0.612 | 1 | 153339 | TMEM167A |
| -0.093693696 | 0.585490823 | 0.624 | 1 | 203430 | ZCCHC5 |
| -0.093693696 | 0.585490823 | 0.609 | 1 | 353174 | ZACN |
| -0.093951091 | 0.584456265 | 0.628 | 1 | 2260 | FGFR1 |
| -0.093951091 | 0.584456265 | 0.613 | 1 | 2581 | GALC |
| -0.093951091 | 0.584456265 | 0.604 | 1 | 5143 | PDE4C |
| -0.093951091 | 0.584456265 | 0.607 | 1 | 8501 | SLC43A1 |
| -0.093951091 | 0.584456265 | 0.629 | 1 | 10175 | CNIH |
| -0.093951091 | 0.584456265 | 0.607 | 1 | 54819 | ZCCHC10 |
| -0.093951091 | 0.584456265 | 0.599 | 1 | 55233 | MOB1A |
| -0.093951091 | 0.584456265 | 0.599 | 1 | 153572 | IRX2 |
| -0.093951091 | 0.584456265 | 0.606 | 1 | 644096 | SDHAF1 |
| -0.094208494 | 0.583422065 | 0.608 | 1 | 581 | BAX |
| -0.094208494 | 0.583422065 | 0.621 | 1 | 7163 | TPD52 |
| -0.094208494 | 0.583422065 | 0.59 | 1 | 26219 | OR1J4 |
| -0.094208494 | 0.583422065 | 0.612 | 1 | 55209 | SETD5 |
| -0.094208494 | 0.583422065 | 0.588 | 1 | 55702 | CCDC94 |
| -0.094208494 | 0.583422065 | 0.602 | 1 | 91603 | ZNF830 |
| -0.094208494 | 0.583422065 | 0.622 | 1 | 387640 | C10orf140 |
| -0.094208494 | 0.583422065 | 0.609 | 1 | 387680 | FAM21A |
| -0.094465896 | 0.582389176 | 0.597 | 1 | 5549 | PRELP |
| -0.094465896 | 0.582389176 | 0.596 | 1 | 56033 | BARX1 |
| -0.094465896 | 0.582389176 | 0.601 | 1 | 80207 | OPA3 |
| -0.094465896 | 0.582389176 | 0.635 | 1 | 81853 | TMEM14B |
| -0.094465896 | 0.582389176 | 0.652 | 1 | 340393 | AF205589.3 |
| -0.094465896 | 0.582389176 | 0.596 | 1 | 388650 | FAM69A |
| -0.094723292 | 0.581357121 | 0.579 | 1 | 242 | ALOX12B |
| -0.094723292 | 0.581357121 | 0.623 | 1 | 2734 | GLG1 |
| -0.094723292 | 0.581357121 | 0.614 | 1 | 4507 | MTAP |
| -0.094723292 | 0.581357121 | 0.615 | 1 | 4628 | MYH10 |
| -0.094723292 | 0.581357121 | 0.595 | 1 | 5813 | PURA |
| -0.094723292 | 0.581357121 | 0.63 | 1 | 9970 | NR1I3 |
| -0.094723292 | 0.581357121 | 0.612 | 1 | 51367 | POP5 |
| -0.094723292 | 0.581357121 | 0.6 | 1 | 51574 | LARP7 |
| -0.094723292 | 0.581357121 | 0.604 | 1 | 79955 | PDZD7 |
| -0.094723292 | 0.581357121 | 0.619 | 1 | 83853 | ROPN1L |
| -0.094980694 | 0.580325902 | 0.577 | 1 | 567 | B2M |
| -0.094980694 | 0.580325902 | 0.612 | 1 | 594 | BCKDHB |
| -0.094980694 | 0.580325902 | 0.633 | 1 | 3091 | HIF1A |
| -0.094980694 | 0.580325902 | 0.627 | 1 | 3716 | JAK1 |
| -0.094980694 | 0.580325902 | 0.607 | 1 | 6720 | SREBF1 |
| -0.094980694 | 0.580325902 | 0.654 | 1 | 7903 | ST8SIA4 |
| -0.094980694 | 0.580325902 | 0.601 | 1 | 10435 | CDC42EP2 |
| -0.094980694 | 0.580325902 | 0.578 | 1 | 54971 | BANP |
| -0.094980694 | 0.580325902 | 0.617 | 1 | 55111 | PLEKHJ1 |
| -0.094980694 | 0.580325902 | 0.602 | 1 | 147495 | APCDD1 |
| -0.094980694 | 0.580325902 | 0.648 | 1 | 255239 | ANKK1 |
| -0.094980694 | 0.580325902 | 0.622 | 1 | 653857 | RP5-820A21.1 |
| -0.09523809 | 0.579295456 | 0.601 | 1 | 101 | ADAM8 |
| -0.09523809 | 0.579295456 | 0.593 | 1 | 796 | CALCA |
| -0.09523809 | 0.579295456 | 0.598 | 1 | 1349 | COX7B |
| -0.09523809 | 0.579295456 | 0.579 | 1 | 3002 | GZMB |
| -0.09523809 | 0.579295456 | 0.601 | 1 | 3609 | ILF3 |
| -0.09523809 | 0.579295456 | 0.584 | 1 | 4440 | MSI1 |
| -0.09523809 | 0.579295456 | 0.622 | 1 | 7543 | ZFX |
| -0.09523809 | 0.579295456 | 0.599 | 1 | 23307 | FKBP15 |
| -0.09523809 | 0.579295456 | 0.596 | 1 | 27095 | TRAPPC3 |
| -0.09523809 | 0.579295456 | 0.6 | 1 | 51144 | HSD17B12 |
| -0.09523809 | 0.579295456 | 0.606 | 1 | 57191 | VN1R1 |
| -0.09523809 | 0.579295456 | 0.61 | 1 | 79711 | IPO4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.051198505 | 4.0843E-06 | 27440 | CECR5 |
| -0.051235836 | 4.01877E-06 | 29097 | CNIH4 |
| -0.051395103 | 3.75034E-06 | 255180 | FLJ38723 |
| -0.051429648 | 3.69442E-06 | 54863 | C9orf167 |
| -0.051470324 | 3.62961E-06 | 9044 | BTAF1 |
| -0.051476359 | 3.62008E-06 | 23593 | HEBP2 |
| -0.05151267 | 3.5633E-06 | 6259 | RYK |
| -0.051522329 | 3.54833E-06 | 55786 | ZNF415 |
| -0.051545266 | 3.51304E-06 | 26575 | RSG17 |
| -0.05160201 | 3.42718E-06 | 100132644 | LOC100132644 |
| -0.051620394 | 3.39979E-06 | 10445 | MCRS1 |
| -0.051710755 | 3.26821E-06 | 114971 | PTPMT1 |
| -0.051714934 | 3.26224E-06 | 2824 | GPM6B |
| -0.051814672 | 3.12294E-06 | 5910 | RAP1GDS1 |
| -0.051865377 | 3.05431E-06 | 12 | SERPINA3 |
| -0.051888313 | 3.02375E-06 | 10548 | TM9SF1 |
| -0.051910322 | 2.99469E-06 | 170626 | XAGE3 |
| -0.051950719 | 2.94207E-06 | 9905 | SGSM2 |
| -0.051968642 | 2.919E-06 | 100289060 | LOC100289060 |
| -0.051995017 | 2.88538E-06 | 56953 | NT5M |
| -0.052070703 | 2.79093E-06 | 644186 | C22orf41 |
| -0.052082684 | 2.77626E-06 | 8332 | HIST1H2AL |
| -0.052082684 | 2.77626E-06 | 441951 | ZNFX1-AS1 |
| -0.052105527 | 2.74848E-06 | 29915 | HCFC2 |
| -0.052117787 | 2.73369E-06 | 54858 | PGPEP1 |
| -0.052154098 | 2.69031E-06 | 51082 | POLR1D |
| -0.052190315 | 2.6477E-06 | 23152 | CIC |
| -0.052203778 | 2.63202E-06 | 442720 | EIF3IP1 |
| -0.052303053 | 2.51917E-06 | 7416 | VDAC1 |
| -0.052338529 | 2.47998E-06 | 57661 | PHRF1 |
| -0.052401584 | 2.41176E-06 | 644768 | SLC9B1P4 |
| -0.052490551 | 2.31857E-06 | 51741 | WWOX |
| -0.052493706 | 2.31533E-06 | 7284 | TUFM |
| -0.052530762 | 2.2776E-06 | 4715 | NDUFB9 |
| -0.052531224 | 2.27712E-06 | 168090 | C6orf118 |
| -0.052548219 | 2.26003E-06 | 79081 | C11orf48 |
| -0.052560851 | 2.24739E-06 | 51050 | PI15 |
| -0.052603755 | 2.20498E-06 | 163131 | ZNF780B |
| -0.05269606 | 2.11633E-06 | 323 | APBB2 |
| -0.052707113 | 2.10594E-06 | 201931 | TMEM192 |
| -0.052708227 | 2.10491E-06 | 10960 | LMAN2 |
| -0.052762277 | 2.05485E-06 | 166647 | GPR125 |
| -0.052819297 | 2.0033E-06 | 54942 | C9orf6 |
| -0.052830905 | 1.99295E-06 | 646891 | SDCCAG3P2 |
| -0.05286805 | 1.9602E-06 | 55061 | SUSD4 |
| -0.052963238 | 1.8786E-06 | 90203 | SNX21 |
| -0.052975126 | 1.86865E-06 | 3127 | HLA-DRB5 |
| -0.052982088 | 1.86285E-06 | 29093 | MRPL22 |
| -0.053009577 | 1.84008E-06 | 388389 | CCDC103 |
| -0.053057309 | 1.80118E-06 | 117532 | TMC2 |
| -0.053140424 | 1.73534E-06 | 8653 | DDX3Y |
| -0.053159278 | 1.72073E-06 | 140831 | ZSWIM3 |
| -0.053187508 | 1.69907E-06 | 6722 | SRF |
| -0.053208403 | 1.68321E-06 | 4048 | LTA4H |
| -0.053218156 | 1.67585E-06 | 54 | ACP5 |
| -0.053296439 | 1.61793E-06 | 11146 | GLMN |
| -0.053310927 | 1.60743E-06 | 5731 | PTGER1 |
| -0.053380761 | 1.55769E-06 | 83734 | ATG10 |
| -0.053518206 | 1.4641E-06 | 54880 | BCOR |
| -0.053573925 | 1.42772E-06 | 26150 | RIBC2 |
| -0.053575039 | 1.427E-06 | 4695 | NDUFA2 |
| -0.0535964 | 1.41329E-06 | 59343 | SENP2 |
| -0.053643018 | 1.38381E-06 | 5916 | RARG |
| -0.053647473 | 1.38102E-06 | 3600 | IL15 |
| -0.053653046 | 1.37755E-06 | 26024 | PTCD1 |
| -0.053723346 | 1.33439E-06 | 6866 | TAC3 |
| -0.053738296 | 1.32539E-06 | 51444 | RNF138 |
| -0.053767085 | 1.30821E-06 | 26046 | RNF160 |
| -0.053771913 | 1.30534E-06 | 55298 | RNF121 |
| -0.053871468 | 1.24769E-06 | 83440 | ADPGK |
| -0.053936567 | 1.21132E-06 | 29101 | SSU72 |
| -0.053940374 | 1.20922E-06 | 9610 | RIN1 |
| -0.054013088 | 1.16987E-06 | 94103 | ORMDL3 |
| -0.054034539 | 1.1585E-06 | 25828 | TXN2 |
| -0.054040391 | 1.15542E-06 | 9589 | WTAP |
| -0.05405144 | 1.14961E-06 | 3101 | HK3 |
| -0.054128148 | 1.11011E-06 | 6727 | SRP14 |
| -0.054173745 | 1.08725E-06 | 1781 | DYNC1I2 |
| -0.054191854 | 1.07829E-06 | 57060 | PCBP4 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.09523809 | 0.579295456 | 0.623 | 1 | 90070 | LACRT |
| -0.09523809 | 0.579295456 | 0.623 | 1 | 121642 | ALKBH2 |
| -0.095495492 | 0.578265488 | 0.59 | 1 | 9775 | EIF4A3 |
| -0.095495492 | 0.578265488 | 0.593 | 1 | 25894 | PLEKHG4 |
| -0.095495492 | 0.578265488 | 0.588 | 1 | 55526 | DHTKD1 |
| -0.095495492 | 0.578265488 | 0.597 | 1 | 259292 | TAS2R46 |
| -0.095495492 | 0.578265488 | 0.603 | 1 | 387778 | SPDYC |
| -0.095752895 | 0.577236712 | 0.619 | 1 | 963 | CD53 |
| -0.095752895 | 0.577236712 | 0.627 | 1 | 8755 | ADAM6 |
| -0.095752895 | 0.577236712 | 0.639 | 1 | 9868 | TOMM70A |
| -0.095752895 | 0.577236712 | 0.626 | 1 | 10077 | TSPAN32 |
| -0.095752895 | 0.577236712 | 0.606 | 1 | 51191 | HERC5 |
| -0.095752895 | 0.577236712 | 0.582 | 1 | 64960 | MRPS15 |
| -0.095752895 | 0.577236712 | 0.625 | 1 | 285679 | AC136604.1 |
| -0.09601029 | 0.57620877 | 0.598 | 1 | 4090 | SMAD5 |
| -0.09601029 | 0.57620877 | 0.585 | 1 | 23563 | CHST5 |
| -0.09601029 | 0.57620877 | 0.605 | 1 | 64965 | MRPS9 |
| -0.09601029 | 0.57620877 | 0.601 | 1 | 79958 | DENND1C |
| -0.0962677 | 0.575181782 | 0.595 | 1 | 392 | ARHGAP1 |
| -0.0962677 | 0.575181782 | 0.567 | 1 | 1727 | CYB5R3 |
| -0.0962677 | 0.575181782 | 0.608 | 1 | 3162 | HMOX1 |
| -0.0962677 | 0.575181782 | 0.599 | 1 | 5830 | PEX5 |
| -0.0962677 | 0.575181782 | 0.635 | 1 | 51320 | MEX3C |
| -0.0962677 | 0.575181782 | 0.613 | 1 | 100009676 | LOC100009676 |
| -0.096525095 | 0.574155033 | 0.601 | 1 | 414 | ARSD |
| -0.096525095 | 0.574155033 | 0.615 | 1 | 9749 | PHACTR2 |
| -0.096525095 | 0.574155033 | 0.612 | 1 | 10063 | COX17 |
| -0.096525095 | 0.574155033 | 0.578 | 1 | 25900 | IFFO1 |
| -0.096525095 | 0.574155033 | 0.581 | 1 | 55527 | FEM1A |
| -0.096525095 | 0.574155033 | 0.603 | 1 | 64763 | ZNF574 |
| -0.096525095 | 0.574155033 | 0.645 | 1 | 79074 | C2orf49 |
| -0.096525095 | 0.574155033 | 0.604 | 1 | 340252 | ZNF680 |
| -0.096782498 | 0.573129714 | 0.618 | 1 | 29988 | SLC2A8 |
| -0.096782498 | 0.573129714 | 0.6 | 1 | 150709 | ANKAR |
| -0.096782498 | 0.573129714 | 0.576 | 1 | 171392 | ZNF675 |
| -0.097039901 | 0.572105169 | 0.613 | 1 | 3708 | ITPR1 |
| -0.097039901 | 0.572105169 | 0.611 | 1 | 4188 | MDFI |
| -0.097039901 | 0.572105169 | 0.578 | 1 | 23493 | HEY2 |
| -0.097039901 | 0.572105169 | 0.604 | 1 | 23506 | KIAA0240 |
| -0.097039901 | 0.572105169 | 0.609 | 1 | 51027 | BOLA1 |
| -0.097039901 | 0.572105169 | 0.606 | 1 | 54625 | PARP14 |
| -0.097039901 | 0.572105169 | 0.586 | 1 | 283460 | HNF1A-AS1 |
| -0.097039901 | 0.572105169 | 0.609 | 1 | 100189589 | AC005041.9 |
| -0.097297296 | 0.5710814 | 0.616 | 1 | 9927 | MFN2 |
| -0.097297296 | 0.5710814 | 0.592 | 1 | 57524 | CASKIN1 |
| -0.097297296 | 0.5710814 | 0.614 | 1 | 80011 | C16orf94 |
| -0.097297296 | 0.5710814 | 0.597 | 1 | 83451 | ABHD11 |
| -0.097297296 | 0.5710814 | 0.612 | 1 | 92935 | MARS2 |
| -0.097297296 | 0.5710814 | 0.609 | 1 | 160140 | C11orf65 |
| -0.097554699 | 0.570058048 | 0.593 | 1 | 132 | ADK |
| -0.097554699 | 0.570058048 | 0.61 | 1 | 2356 | FPGS |
| -0.097554699 | 0.570058048 | 0.569 | 1 | 4780 | NFE2L2 |
| -0.097554699 | 0.570058048 | 0.613 | 1 | 53344 | CHIC1 |
| -0.097554699 | 0.570058048 | 0.588 | 1 | 54918 | CMTM6 |
| -0.097554699 | 0.570058048 | 0.598 | 1 | 94059 | LENG9 |
| -0.097554699 | 0.570058048 | 0.588 | 1 | 113612 | CYP2U1 |
| -0.097554699 | 0.570058048 | 0.61 | 1 | 135152 | B3GAT2 |
| -0.097554699 | 0.570058048 | 0.587 | 1 | 219855 | SLC37A2 |
| -0.097554699 | 0.570058048 | 0.594 | 1 | 285973 | ATG9B |
| -0.097554699 | 0.570058048 | 0.58 | 1 | 728763 | LOC728763 |
| -0.097554699 | 0.570058048 | 0.61 | 1 | 100129196 | RP5-1166H10.2 |
| -0.097812094 | 0.569036067 | 0.599 | 1 | 1056 | CEL |
| -0.097812094 | 0.569036067 | 0.651 | 1 | 3018 | HIST1H2BB |
| -0.097812094 | 0.569036067 | 0.587 | 1 | 4213 | MEIS3P1 |
| -0.097812094 | 0.569036067 | 0.601 | 1 | 5589 | PRKCSH |
| -0.097812094 | 0.569036067 | 0.601 | 1 | 11333 | PDAP1 |
| -0.097812094 | 0.569036067 | 0.586 | 1 | 54919 | HEATR2 |
| -0.097812094 | 0.569036067 | 0.577 | 1 | 57050 | UTP3 |
| -0.097812094 | 0.569036067 | 0.597 | 1 | 57715 | SEMA4G |
| -0.097812094 | 0.569036067 | 0.61 | 1 | 79724 | ZNF768 |
| -0.098069496 | 0.56801492 | 0.595 | 1 | 8484 | GALR3 |
| -0.098069496 | 0.56801492 | 0.619 | 1 | 26175 | C14orf109 |
| -0.098069496 | 0.56801492 | 0.585 | 1 | 51119 | SBDS |
| -0.098069496 | 0.56801492 | 0.614 | 1 | 55815 | TSNAXIP1 |
| -0.098069496 | 0.56801492 | 0.585 | 1 | 391109 | OR10K1 |
| -0.098326899 | 0.566994607 | 0.609 | 1 | 3053 | SERPIND1 |
| -0.098326899 | 0.566994607 | 0.596 | 1 | 5272 | SERPINB9 |
| -0.098326899 | 0.566994607 | 0.584 | 1 | 10207 | INADL |
| -0.098326899 | 0.566994607 | 0.6 | 1 | 30819 | KCNIP2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.05419594 | 1.07628E-06 | 3338 | DNAJC4 |
| -0.054209501 | 1.06964E-06 | 55379 | LRRC59 |
| -0.05423541 | 1.05705E-06 | 152100 | CMC1 |
| -0.05440006 | 9.80318E-07 | 390535 | GOLGA8E |
| -0.054422721 | 9.70186E-07 | 1374 | CPT1A |
| -0.054433491 | 9.65408E-07 | 57091 | CASS4 |
| -0.054437298 | 9.63721E-07 | 79832 | QSER1 |
| -0.054471008 | 9.48932E-07 | 29942 | PURG |
| -0.054529328 | 9.23862E-07 | 55665 | URG4 |
| -0.054543447 | 9.1789E-07 | 388759 | C1orf229 |
| -0.05465024 | 8.73899E-07 | 60675 | PROK2 |
| -0.054669186 | 8.6631E-07 | 6146 | RPL22 |
| -0.054708004 | 8.50955E-07 | 4292 | MLH1 |
| -0.054740228 | 8.38412E-07 | 127731 | VWA5B1 |
| -0.054792326 | 8.18507E-07 | 391123 | VSIG8 |
| -0.054863926 | 7.9189E-07 | 7294 | TXK |
| -0.054874048 | 7.88197E-07 | 57105 | CYSLTR2 |
| -0.054888163 | 7.8307E-07 | 2193 | FARSA |
| -0.054934781 | 7.66373E-07 | 120103 | SLC36A4 |
| -0.054961156 | 7.57077E-07 | 8611 | PPAP2A |
| -0.055022635 | 7.35831E-07 | 83659 | TEKT1 |
| -0.055032477 | 7.32485E-07 | 57110 | HRASLS |
| -0.055047337 | 7.27457E-07 | 38 | ACAT1 |
| -0.055053186 | 7.25488E-07 | 5565 | PRKAB2 |
| -0.055075567 | 7.17998E-07 | 8621 | CDC2L5 |
| -0.055139087 | 6.97152E-07 | 23658 | LSM5 |
| -0.055165648 | 6.88608E-07 | 4666 | NACA |
| -0.055204652 | 6.76243E-07 | 2650 | GCNT1 |
| -0.0552678 | 6.56677E-07 | 10485 | C1orf61 |
| -0.055311725 | 6.43391E-07 | 2055 | CLN8 |
| -0.055369951 | 6.26176E-07 | 57577 | KIAA1407 |
| -0.055398371 | 6.17935E-07 | 24144 | TFIP11 |
| -0.055398464 | 6.1791E-07 | 65998 | C11orf95 |
| -0.055403665 | 6.16413E-07 | 58533 | SNX6 |
| -0.055486687 | 5.92994E-07 | 241 | ALOX5AP |
| -0.055596918 | 5.63217E-07 | 81926 | FAM108A4 |
| -0.055647623 | 5.50011E-07 | 200205 | C1orf69 |
| -0.055672605 | 5.43613E-07 | 116093 | DIRC1 |
| -0.055764727 | 5.20638E-07 | 6590 | SLPI |
| -0.055817194 | 5.07976E-07 | 347734 | SLC35B2 |
| -0.055834934 | 5.03762E-07 | 10083 | USH1C |
| -0.055855457 | 4.98928E-07 | 122402 | TDRD9 |
| -0.055879228 | 4.93386E-07 | 92140 | MTDH |
| -0.055921111 | 4.83765E-07 | 389895 | LOC389895 |
| -0.0559447 | 4.78426E-07 | 255082 | CASC2 |
| -0.055970237 | 4.72713E-07 | 2006 | ELN |
| -0.055974323 | 4.71803E-07 | 150678 | MYEOV2 |
| -0.055974696 | 4.7172E-07 | 375260 | WASH2P |
| -0.055984911 | 4.69458E-07 | 56895 | AGPAT4 |
| -0.056085393 | 4.47746E-07 | 51092 | SIDT2 |
| -0.056131918 | 4.38024E-07 | 4826 | NNAT |
| -0.056136005 | 4.37179E-07 | 285521 | COX18 |
| -0.056145106 | 4.35305E-07 | 7365 | UGT2B10 |
| -0.056152999 | 4.33686E-07 | 6166 | RPL36AL |
| -0.056167301 | 4.30767E-07 | 728666 | PRELID1P1 |
| -0.056249764 | 4.14301E-07 | 158358 | KIAA2026 |
| -0.056320623 | 4.0064E-07 | 5982 | RFC2 |
| -0.056399558 | 3.85933E-07 | 653319 | KIAA0895L |
| -0.056421474 | 3.81942E-07 | 169436 | C9orf96 |
| -0.056433547 | 3.79762E-07 | 6635 | SNRPE |
| -0.056503009 | 3.67444E-07 | 23386 | NUDCD3 |
| -0.056513134 | 3.65681E-07 | 55832 | CAND1 |
| -0.056583155 | 3.53712E-07 | 2281 | FKBP1B |
| -0.056605626 | 3.49951E-07 | 55780 | C6orf70 |
| -0.056628194 | 3.46213E-07 | 92736 | OTOP2 |
| -0.056654289 | 3.41939E-07 | 55602 | CDKN2AIP |
| -0.056667197 | 3.39843E-07 | 6262 | RYR2 |
| -0.056744371 | 3.27572E-07 | 79140 | CCDC28B |
| -0.05681736 | 3.16361E-07 | 79153 | GDPD3 |
| -0.056932237 | 2.99461E-07 | 100130700 | LOC100130700 |
| -0.056939945 | 2.9836E-07 | 27342 | RABGEF1 |
| -0.056979969 | 2.927E-07 | 6182 | MRPL12 |
| -0.057010617 | 2.88435E-07 | 79701 | C17orf101 |
| -0.057025474 | 2.8639E-07 | 11122 | PTPRT |
| -0.057031974 | 2.855E-07 | 7508 | XPC |
| -0.057034574 | 2.85144E-07 | 23398 | PPWD1 |
| -0.057115741 | 2.7426E-07 | 9843 | HEPH |
| -0.057130322 | 2.72348E-07 | 60313 | GPBP1L1 |
| -0.057164494 | 2.67917E-07 | 573 | BAG1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.098326899 | 0.566994607 | 0.56 | 1 | 54014 | BRWD1 |
| -0.098326899 | 0.566994607 | 0.618 | 1 | 57107 | PDSS2 |
| -0.098326899 | 0.566994607 | 0.622 | 1 | 163227 | ZNF100 |
| -0.098584294 | 0.56597513 | 0.583 | 1 | 1783 | DYNC1LI2 |
| -0.098584294 | 0.56597513 | 0.622 | 1 | 3312 | HSPA8 |
| -0.098584294 | 0.56597513 | 0.569 | 1 | 6836 | SURF4 |
| -0.098584294 | 0.56597513 | 0.608 | 1 | 84818 | IL17RC |
| -0.098584294 | 0.56597513 | 0.601 | 1 | 222487 | GPR97 |
| -0.098584294 | 0.56597513 | 0.588 | 1 | 445815 | PALM2-AKAP2 |
| -0.098584294 | 0.56597513 | 0.603 | 1 | 100128782 | LINC00476 |
| -0.098841697 | 0.564956129 | 0.583 | 1 | 86 | ACTL6A |
| -0.098841697 | 0.564956129 | 0.613 | 1 | 1112 | FOXN3 |
| -0.098841697 | 0.564956129 | 0.586 | 1 | 7402 | UTRN |
| -0.098841697 | 0.564956129 | 0.634 | 1 | 23432 | GPR161 |
| -0.098841697 | 0.564956129 | 0.61 | 1 | 26017 | FAM32A |
| -0.098841697 | 0.564956129 | 0.623 | 1 | 84033 | OBSCN |
| -0.099099092 | 0.56393832 | 0.608 | 1 | 54 | ACP5 |
| -0.099099092 | 0.56393832 | 0.576 | 1 | 5378 | PMS1 |
| -0.099099092 | 0.56393832 | 0.601 | 1 | 27131 | SNX5 |
| -0.099099092 | 0.56393832 | 0.567 | 1 | 57730 | ANKRD36B |
| -0.099099092 | 0.56393832 | 0.626 | 1 | 79091 | C16orf68 |
| -0.099099092 | 0.56393832 | 0.565 | 1 | 94104 | C21orf66 |
| -0.099356495 | 0.562921405 | 0.574 | 1 | 111 | ADCY5 |
| -0.099356495 | 0.562921405 | 0.605 | 1 | 6195 | RPS6KA1 |
| -0.099356495 | 0.562921405 | 0.57 | 1 | 6608 | SMO |
| -0.099356495 | 0.562921405 | 0.606 | 1 | 10887 | PROKR1 |
| -0.099356495 | 0.562921405 | 0.602 | 1 | 51316 | PLAC8 |
| -0.099356495 | 0.562921405 | 0.611 | 1 | 51742 | ARID4B |
| -0.099356495 | 0.562921405 | 0.598 | 1 | 55905 | RNF114 |
| -0.099356495 | 0.562921405 | 0.585 | 1 | 64098 | PARVG |
| -0.099356495 | 0.562921405 | 0.61 | 1 | 128338 | DRAM2 |
| -0.099356495 | 0.562921405 | 0.617 | 1 | 386679 | KRTAP10-2 |
| -0.099356495 | 0.562921405 | 0.607 | 1 | 100128569 | C19orf71 |
| -0.099613898 | 0.561905384 | 0.585 | 1 | 1293 | COL6A3 |
| -0.099613898 | 0.561905384 | 0.591 | 1 | 9849 | ZNF518A |
| -0.099613898 | 0.561905384 | 0.593 | 1 | 51002 | TPRKB |
| -0.099613898 | 0.561905384 | 0.599 | 1 | 84886 | C1orf198 |
| -0.099613898 | 0.561905384 | 0.59 | 1 | 90321 | ZNF766 |
| -0.099613898 | 0.561905384 | 0.581 | 1 | 93107 | KCNG4 |
| -0.099613898 | 0.561905384 | 0.609 | 1 | 163782 | KANK4 |
| -0.099613898 | 0.561905384 | 0.568 | 1 | 221336 | BEND6 |
| -0.0998713 | 0.560889661 | 0.583 | 1 | 7185 | TRAF1 |
| -0.0998713 | 0.560889661 | 0.596 | 1 | 7873 | ARMET |
| -0.0998713 | 0.560889661 | 0.569 | 1 | 63971 | KIF13A |
| -0.0998713 | 0.560889661 | 0.599 | 1 | 80329 | ULBP1 |
| -0.0998713 | 0.560889661 | 0.564 | 1 | 126299 | ZNF428 |
| -0.0998713 | 0.560889661 | 0.57 | 1 | 130589 | GALM |
| -0.0998713 | 0.560889661 | 0.603 | 1 | 378938 | MALAT1 |
| -0.100128703 | 0.559875369 | 0.588 | 1 | 3570 | IL6R |
| -0.100128703 | 0.559875369 | 0.568 | 1 | 4677 | NARS |
| -0.100128703 | 0.559875369 | 0.602 | 1 | 9639 | ARHGEF10 |
| -0.100128703 | 0.559875369 | 0.598 | 1 | 57636 | ARHGAP23 |
| -0.100128703 | 0.559875369 | 0.587 | 1 | 64924 | SLC30A5 |
| -0.100128703 | 0.559875369 | 0.564 | 1 | 81544 | GDPD5 |
| -0.100128703 | 0.559875369 | 0.619 | 1 | 84206 | MEX3B |
| -0.100386098 | 0.558861852 | 0.601 | 1 | 5990 | RFX2 |
| -0.100386098 | 0.558861852 | 0.592 | 1 | 6619 | SNAPC3 |
| -0.100386098 | 0.558861852 | 0.61 | 1 | 7029 | TFDP2 |
| -0.100386098 | 0.558861852 | 0.617 | 1 | 23200 | ATP11B |
| -0.100386098 | 0.558861852 | 0.614 | 1 | 26959 | HBP1 |
| -0.100386098 | 0.558861852 | 0.585 | 1 | 90550 | CCDC109A |
| -0.100386098 | 0.558861852 | 0.597 | 1 | 161424 | C14orf21 |
| -0.100386098 | 0.558861852 | 0.581 | 1 | 259294 | TAS2R48 |
| -0.100386098 | 0.558861852 | 0.587 | 1 | 349334 | FOXD4L4 |
| -0.100386098 | 0.558861852 | 0.602 | 1 | 402360 | LOC402360 |
| -0.100643501 | 0.557849288 | 0.587 | 1 | 6406 | SEMG1 |
| -0.100643501 | 0.557849288 | 0.595 | 1 | 23191 | CYFIP1 |
| -0.100643501 | 0.557849288 | 0.572 | 1 | 23529 | CLCF1 |
| -0.100643501 | 0.557849288 | 0.604 | 1 | 64398 | MPP5 |
| -0.100900903 | 0.556837559 | 0.607 | 1 | 949 | SCARB1 |
| -0.100900903 | 0.556837559 | 0.608 | 1 | 1407 | CRY1 |
| -0.100900903 | 0.556837559 | 0.604 | 1 | 2919 | CXCL1 |
| -0.100900903 | 0.556837559 | 0.595 | 1 | 6843 | VAMP1 |
| -0.100900903 | 0.556837559 | 0.581 | 1 | 8904 | CPNE1 |
| -0.100900903 | 0.556837559 | 0.579 | 1 | 9559 | VPS26A |
| -0.100900903 | 0.556837559 | 0.608 | 1 | 25805 | BAMBI |
| -0.100900903 | 0.556837559 | 0.604 | 1 | 26130 | GAPVD1 |
| -0.100900903 | 0.556837559 | 0.587 | 1 | 26249 | KLHL3 |
| -0.100900903 | 0.556837559 | 0.592 | 1 | 59343 | SENP2 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.057212412 | 2.61821E-07 | 9738 | AC012621.2 |
| -0.057215851 | 2.61387E-07 | 2625 | GATA3 |
| -0.057347998 | 2.45287E-07 | 25898 | RCHY1 |
| -0.057379387 | 2.41606E-07 | 10732 | TCFL5 |
| -0.057400931 | 2.39111E-07 | 10042 | HMGXB4 |
| -0.057487391 | 2.29343E-07 | 84924 | ZNF566 |
| -0.057499554 | 2.28E-07 | 57153 | SLC44A2 |
| -0.05754469 | 2.23084E-07 | 191 | AHCY |
| -0.057556204 | 2.21845E-07 | 51430 | C1orf9 |
| -0.057597157 | 2.17496E-07 | 127343 | DMBX1 |
| -0.05763644 | 2.13402E-07 | 9448 | MAP4K4 |
| -0.057643313 | 2.12694E-07 | 5859 | QARS |
| -0.057676557 | 2.09298E-07 | 84888 | AC012100.1 |
| -0.057686958 | 2.08247E-07 | 4193 | MDM2 |
| -0.05782143 | 1.95102E-07 | 96610 | LL22NC03-80A10.2 |
| -0.057843626 | 1.93012E-07 | 4478 | MSN |
| -0.057932962 | 1.84813E-07 | 133923 | ZNF474 |
| -0.057992674 | 1.79521E-07 | 56942 | CMC2 |
| -0.05808647 | 1.71504E-07 | 25915 | NDUFAF3 |
| -0.058101885 | 1.7022E-07 | 442582 | STAG3L2 |
| -0.05817144 | 1.6454E-07 | 5790 | PTPRCAP |
| -0.05817822 | 1.63996E-07 | 2978 | GUCA1A |
| -0.058182679 | 1.6364E-07 | 960 | CD44 |
| -0.058217596 | 1.60873E-07 | 8970 | HIST1H2BJ |
| -0.058284458 | 1.557E-07 | 51285 | RASL12 |
| -0.058315106 | 1.53384E-07 | 22913 | RALY |
| -0.058336556 | 1.51782E-07 | 23390 | ZDHHC17 |
| -0.058339622 | 1.51554E-07 | 4814 | NINJ1 |
| -0.058379088 | 1.48654E-07 | 377047 | PRSS45 |
| -0.05839042 | 1.47831E-07 | 3231 | HOXD1 |
| -0.058403049 | 1.46919E-07 | 60686 | C14orf93 |
| -0.058407784 | 1.46579E-07 | 534 | ATP6V1G2 |
| -0.058429517 | 1.45026E-07 | 22986 | SORCS3 |
| -0.058450226 | 1.43561E-07 | 4613 | MYCN |
| -0.058492664 | 1.40603E-07 | 2621 | GAS6 |
| -0.058534175 | 1.37767E-07 | 2140 | EYA3 |
| -0.058579586 | 1.34728E-07 | 10494 | STK25 |
| -0.058579586 | 1.34728E-07 | 66035 | SLC2A11 |
| -0.058593702 | 1.33797E-07 | 79943 | ZNF696 |
| -0.058597047 | 1.33577E-07 | 9088 | PKMYT1 |
| -0.05868471 | 1.2794E-07 | 55040 | EPN3 |
| -0.058691956 | 1.27484E-07 | 3761 | KCNJ4 |
| -0.058697525 | 1.27135E-07 | 51209 | RAB9B |
| -0.058713127 | 1.26162E-07 | 7369 | UMOD |
| -0.058729842 | 1.25128E-07 | 54625 | PARP14 |
| -0.058784172 | 1.21823E-07 | 7710 | ZNF154 |
| -0.058806088 | 1.20513E-07 | 7357 | UGCG |
| -0.058811288 | 1.20204E-07 | 8019 | BRD3 |
| -0.058825959 | 1.19338E-07 | 8605 | PLA2G4C |
| -0.058855586 | 1.17605E-07 | 146556 | C16orf89 |
| -0.0588645 | 1.17089E-07 | 7568 | ZNF20 |
| -0.058881957 | 1.16084E-07 | 55644 | OSGEP |
| -0.058956716 | 1.11875E-07 | 100129460 | DPY19L1P1 |
| -0.058970738 | 1.11102E-07 | 10903 | MTMR11 |
| -0.058979653 | 1.10613E-07 | 78987 | CRELD1 |
| -0.059112173 | 1.03589E-07 | 153830 | RNF145 |
| -0.059137061 | 1.02319E-07 | 1665 | DHX15 |
| -0.059190273 | 9.96536E-08 | 199746 | U2AF1L4 |
| -0.059253238 | 9.65868E-08 | 2793 | GNGT2 |
| -0.059256393 | 9.64353E-08 | 4524 | MTHFR |
| -0.0593201 | 9.34298E-08 | 387486 | LINC00320 |
| -0.059377305 | 9.08086E-08 | 3336 | HSPE1 |
| -0.05939718 | 8.99147E-08 | 4729 | NDUFV2 |
| -0.059401821 | 8.97069E-08 | 768211 | RELL1 |
| -0.059417423 | 8.90126E-08 | 5465 | PPARA |
| -0.059435811 | 8.82009E-08 | 112939 | NACC1 |
| -0.059446398 | 8.77372E-08 | 54878 | DPP8 |
| -0.059457172 | 8.72674E-08 | 780 | DDR1 |
| -0.059482243 | 8.61837E-08 | 8802 | SUCLG1 |
| -0.059547622 | 8.34184E-08 | 60489 | APOBEC3G |
| -0.059566196 | 8.26485E-08 | 55839 | CENPN |
| -0.059622657 | 8.03505E-08 | 9238 | TBRG4 |
| -0.05964049 | 7.96378E-08 | 79744 | ZNF419 |
| -0.059693143 | 7.75685E-08 | 9697 | TRAM2 |
| -0.059743289 | 7.56459E-08 | 93134 | ZNF561 |
| -0.059766691 | 7.4765E-08 | 729020 | LOC729020 |
| -0.059819903 | 7.2798E-08 | 9618 | TRAF4 |
| -0.059849251 | 7.17347E-08 | 26017 | FAM32A |
| -0.059910543 | 6.95625E-08 | 54059 | C21orf57 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.100900903 | 0.556837559 | 0.572 | 1 | 221184 | CPNE2 |
| -0.101158299 | 0.555826128 | 0.564 | 1 | 1612 | DAPK1 |
| -0.101158299 | 0.555826128 | 0.611 | 1 | 2554 | GABRA1 |
| -0.101158299 | 0.555826128 | 0.588 | 1 | 3483 | IGFALS |
| -0.101158299 | 0.555826128 | 0.609 | 1 | 10600 | USP16 |
| -0.101158299 | 0.555826128 | 0.576 | 1 | 51135 | IRAK4 |
| -0.101158299 | 0.555826128 | 0.565 | 1 | 55161 | TMEM33 |
| -0.101158299 | 0.555826128 | 0.615 | 1 | 64787 | EPS8L2 |
| -0.101158299 | 0.555826128 | 0.588 | 1 | 65980 | BRD9 |
| -0.101158299 | 0.555826128 | 0.597 | 1 | 84898 | PLXDC2 |
| -0.101158299 | 0.555826128 | 0.558 | 1 | 91612 | CHURC1 |
| -0.101158299 | 0.555826128 | 0.582 | 1 | 112724 | RDH13 |
| -0.101415701 | 0.554816127 | 0.573 | 1 | 6653 | SORL1 |
| -0.101415701 | 0.554816127 | 0.6 | 1 | 8870 | IER3 |
| -0.101415701 | 0.554816127 | 0.572 | 1 | 10150 | MBNL2 |
| -0.101415701 | 0.554816127 | 0.615 | 1 | 25855 | BRMS1 |
| -0.101415701 | 0.554816127 | 0.592 | 1 | 51115 | FAM82B |
| -0.101415701 | 0.554816127 | 0.596 | 1 | 91304 | C19orf6 |
| -0.101415701 | 0.554816127 | 0.58 | 1 | 124685 | LOC124685 |
| -0.101415701 | 0.554816127 | 0.597 | 1 | 441394 | SUGT1P1 |
| -0.101673096 | 0.55380702 | 0.617 | 1 | 11103 | KRR1 |
| -0.101673096 | 0.55380702 | 0.578 | 1 | 51286 | CEND1 |
| -0.101673096 | 0.55380702 | 0.605 | 1 | 55166 | CENPQ |
| -0.101673096 | 0.55380702 | 0.605 | 1 | 205147 | FAM123C |
| -0.101673096 | 0.55380702 | 0.607 | 1 | 645191 | LINGO3 |
| -0.101673096 | 0.55380702 | 0.578 | 1 | 648262 | LOC648262 |
| -0.101930499 | 0.552798748 | 0.588 | 1 | 80017 | C14orf159 |
| -0.101930499 | 0.552798748 | 0.599 | 1 | 92949 | ADAMTSL1 |
| -0.102187902 | 0.551790893 | 0.59 | 1 | 8623 | ASMTL |
| -0.102187902 | 0.551790893 | 0.575 | 1 | 9784 | SNX17 |
| -0.102187902 | 0.551790893 | 0.562 | 1 | 22936 | ELL2 |
| -0.102187902 | 0.551790893 | 0.596 | 1 | 26341 | OR5H1 |
| -0.102187902 | 0.551790893 | 0.568 | 1 | 130752 | MDH1B |
| -0.102187902 | 0.551790893 | 0.575 | 1 | 345645 | PSMC1P4 |
| -0.102445297 | 0.550784349 | 0.594 | 1 | 4654 | MYOD1 |
| -0.102445297 | 0.550784349 | 0.611 | 1 | 54797 | MED18 |
| -0.102445297 | 0.550784349 | 0.595 | 1 | 79075 | DSCC1 |
| -0.102445297 | 0.550784349 | 0.575 | 1 | 79987 | SVEP1 |
| -0.102445297 | 0.550784349 | 0.572 | 1 | 80764 | THAP7 |
| -0.102445297 | 0.550784349 | 0.623 | 1 | 375704 | ENHO |
| -0.1027027 | 0.549778759 | 0.57 | 1 | 3703 | STT3A |
| -0.1027027 | 0.549778759 | 0.592 | 1 | 5593 | PRKG2 |
| -0.1027027 | 0.549778759 | 0.602 | 1 | 200765 | TIGD1 |
| -0.1027027 | 0.549778759 | 0.586 | 1 | 256227 | AC099759.1 |
| -0.102960095 | 0.548773944 | 0.578 | 1 | 1312 | COMT |
| -0.102960095 | 0.548773944 | 0.577 | 1 | 7379 | UPK2 |
| -0.102960095 | 0.548773944 | 0.595 | 1 | 10584 | COLEC10 |
| -0.102960095 | 0.548773944 | 0.589 | 1 | 22870 | SAPS1 |
| -0.102960095 | 0.548773944 | 0.58 | 1 | 51522 | TMEM14C |
| -0.102960095 | 0.548773944 | 0.581 | 1 | 57127 | RHBG |
| -0.102960095 | 0.548773944 | 0.568 | 1 | 64135 | IFIH1 |
| -0.102960095 | 0.548773944 | 0.589 | 1 | 64174 | DPEP2 |
| -0.102960095 | 0.548773944 | 0.578 | 1 | 121364 | OR10A7 |
| -0.102960095 | 0.548773944 | 0.602 | 1 | 167153 | PAPD4 |
| -0.102960095 | 0.548773944 | 0.574 | 1 | 256148 | OR4S1 |
| -0.102960095 | 0.548773944 | 0.592 | 1 | 344167 | FOXI3 |
| -0.102960095 | 0.548773944 | 0.58 | 1 | 404734 | ANKHD1-EIF4EBP3 |
| -0.103217505 | 0.547769547 | 0.603 | 1 | 6624 | FSCN1 |
| -0.103217505 | 0.547769547 | 0.599 | 1 | 8175 | SF3A2 |
| -0.103217505 | 0.547769547 | 0.577 | 1 | 23112 | TNRC6B |
| -0.103217505 | 0.547769547 | 0.581 | 1 | 91661 | ZNF765 |
| -0.103217505 | 0.547769547 | 0.584 | 1 | 643965 | TMEM88B |
| -0.103474908 | 0.546766579 | 0.579 | 1 | 79089 | TMUB2 |
| -0.103474908 | 0.546766579 | 0.593 | 1 | 144455 | E2F7 |
| -0.103474908 | 0.546766579 | 0.591 | 1 | 646424 | SPINK8 |
| -0.103474908 | 0.546766579 | 0.588 | 1 | 730291 | ZNF735 |
| -0.103732303 | 0.545764446 | 0.593 | 1 | 583 | BBS2 |
| -0.103732303 | 0.545764446 | 0.574 | 1 | 2314 | FLII |
| -0.103732303 | 0.545764446 | 0.578 | 1 | 5554 | PRH1 |
| -0.103732303 | 0.545764446 | 0.56 | 1 | 26287 | ANKRD2 |
| -0.103732303 | 0.545764446 | 0.573 | 1 | 51111 | SUV420H1 |
| -0.103732303 | 0.545764446 | 0.605 | 1 | 55081 | IFT57 |
| -0.103732303 | 0.545764446 | 0.584 | 1 | 55274 | PHF10 |
| -0.103732303 | 0.545764446 | 0.593 | 1 | 79913 | ACTR5 |
| -0.103732303 | 0.545764446 | 0.588 | 1 | 80741 | LY6G5C |
| -0.103732303 | 0.545764446 | 0.6 | 1 | 80763 | C12orf39 |
| -0.103732303 | 0.545764446 | 0.582 | 1 | 81833 | SPACA1 |
| -0.103732303 | 0.545764446 | 0.575 | 1 | 84928 | TMEM209 |
| -0.103732303 | 0.545764446 | 0.582 | 1 | 92689 | FAM114A1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.059941188 | 6.85004E-08 | 4852 | NPY |
| -0.060017709 | 6.59165E-08 | 6484 | ST3GAL4 |
| -0.060056899 | 6.46299E-08 | 10437 | IFI30 |
| -0.060186353 | 6.05507E-08 | 23179 | RGL1 |
| -0.060193971 | 6.03187E-08 | 2768 | GNA12 |
| -0.060194526 | 6.03019E-08 | 3823 | KLRC3 |
| -0.060243376 | 5.8834E-08 | 5962 | RDX |
| -0.060317017 | 5.66868E-08 | 59307 | SIGIRR |
| -0.060366329 | 5.52917E-08 | 54882 | ANKHD1 |
| -0.060399853 | 5.43623E-08 | 148203 | ZNF738 |
| -0.060461611 | 5.26895E-08 | 23252 | OTUD3 |
| -0.060487982 | 5.19906E-08 | 2354 | FOSB |
| -0.060500983 | 5.16492E-08 | 55717 | BRWD2 |
| -0.06055364 | 5.02889E-08 | 55510 | DDX43 |
| -0.060573697 | 4.978E-08 | 258010 | SVIP |
| -0.060580105 | 4.96184E-08 | 3916 | LAMP1 |
| -0.060755901 | 4.53797E-08 | 57644 | MYH7B |
| -0.060760822 | 4.52663E-08 | 645317 | CHCHD2P6 |
| -0.060800198 | 4.43683E-08 | 80319 | CXXC4 |
| -0.060815986 | 4.40132E-08 | 89848 | FCHSD1 |
| -0.060887214 | 4.24448E-08 | 5473 | PPBP |
| -0.060905509 | 4.20507E-08 | 10781 | ZNF266 |
| -0.060939405 | 4.13301E-08 | 9066 | SYT7 |
| -0.060946368 | 4.11836E-08 | 11315 | PARK7 |
| -0.060979057 | 4.05023E-08 | 3911 | LAMA5 |
| -0.061003666 | 3.99966E-08 | 81890 | QTRT1 |
| -0.06101732 | 3.97187E-08 | 8406 | SRPX |
| -0.061019175 | 3.9681E-08 | 3007 | HIST1H1D |
| -0.061028462 | 3.94932E-08 | 440051 | KRTAP5-11 |
| -0.061044157 | 3.91779E-08 | 27152 | INTU |
| -0.061093841 | 3.81954E-08 | 55971 | BAIAP2L1 |
| -0.061103221 | 3.80126E-08 | 1716 | DGUOK |
| -0.061112784 | 3.78271E-08 | 121536 | AEBP2 |
| -0.061189122 | 3.63777E-08 | 9811 | KIAA0427 |
| -0.061198037 | 3.62121E-08 | 5586 | PKN2 |
| -0.061226267 | 3.56922E-08 | 129531 | MITD1 |
| -0.061241683 | 3.54113E-08 | 5708 | PSMD2 |
| -0.061273813 | 3.48328E-08 | 79894 | ZNF672 |
| -0.061293688 | 3.44795E-08 | 386678 | KRTAP10-11 |
| -0.061315697 | 3.40923E-08 | 64398 | MPP5 |
| -0.06133882 | 3.36903E-08 | 6504 | SLAMF1 |
| -0.061428346 | 3.21761E-08 | 8089 | YEATS4 |
| -0.061449889 | 3.18217E-08 | 23331 | TTC28 |
| -0.061461497 | 3.16322E-08 | 91875 | TTC5 |
| -0.061472457 | 3.14545E-08 | 147807 | ZNF524 |
| -0.061482765 | 3.12881E-08 | 114904 | C1QTNF6 |
| -0.061565414 | 2.99849E-08 | 51752 | ERAP1 |
| -0.061592903 | 2.95633E-08 | 54621 | AC131238.1 |
| -0.06165605 | 2.86163E-08 | 6536 | SLC6A9 |
| -0.061662272 | 2.85245E-08 | 23456 | ABCB10 |
| -0.061703227 | 2.79281E-08 | 11156 | PTP4A3 |
| -0.061739258 | 2.74133E-08 | 29907 | SNX15 |
| -0.061745852 | 2.732E-08 | 55166 | CENPQ |
| -0.061760619 | 2.71124E-08 | 55741 | EDEM2 |
| -0.061812438 | 2.63959E-08 | 5032 | P2RY11 |
| -0.061840761 | 2.60121E-08 | 5166 | PDK4 |
| -0.061881159 | 2.5474E-08 | 55791 | C1orf103 |
| -0.061920162 | 2.49647E-08 | 9121 | SLC16A5 |
| -0.061924897 | 2.49035E-08 | 60680 | BRUNOL5 |
| -0.061952479 | 2.45503E-08 | 401321 | LOC401321 |
| -0.062019158 | 2.37161E-08 | 163782 | KANK4 |
| -0.062123261 | 2.24684E-08 | 146705 | C17orf56 |
| -0.062165141 | 2.19846E-08 | 389033 | AC079776.2 |
| -0.062169414 | 2.19359E-08 | 340719 | NANOS1 |
| -0.062182602 | 2.1786E-08 | 10459 | MAD2L2 |
| -0.062212132 | 2.14539E-08 | 480 | ATP1A4 |
| -0.062240273 | 2.11421E-08 | 9456 | HOMER1 |
| -0.062416345 | 1.92884E-08 | 79957 | PAQR6 |
| -0.062450614 | 1.89464E-08 | 55063 | ZCWPW1 |
| -0.062463336 | 1.88209E-08 | 23526 | HMHA1 |
| -0.062465284 | 1.88018E-08 | 4772 | NFATC1 |
| -0.062584527 | 1.76656E-08 | 1196 | CLK2 |
| -0.062594742 | 1.75714E-08 | 7994 | MYST3 |
| -0.062594928 | 1.75697E-08 | 60674 | GAS5 |
| -0.062627152 | 1.72758E-08 | 3028 | HSD17B10 |
| -0.062677115 | 1.68296E-08 | 4739 | NEDD9 |
| -0.062723361 | 1.64266E-08 | 286499 | FAM133A |
| -0.062724844 | 1.64139E-08 | 128869 | PIGU |
| -0.062788554 | 1.58743E-08 | 57620 | STIM2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.103732303 | 0.545764446 | 0.591 | 1 | 151300 | LINC00608 |
| -0.103732303 | 0.545764446 | 0.558 | 1 | 643155 | C5orf43 |
| -0.103989705 | 0.544763148 | 0.582 | 1 | 3626 | INHBC |
| -0.103989705 | 0.544763148 | 0.577 | 1 | 5129 | PCTK3 |
| -0.103989705 | 0.544763148 | 0.586 | 1 | 79930 | DOK3 |
| -0.103989705 | 0.544763148 | 0.583 | 1 | 83667 | SESN2 |
| -0.103989705 | 0.544763148 | 0.589 | 1 | 115908 | CTHRC1 |
| -0.104247101 | 0.543762803 | 0.583 | 1 | 364 | AQP7 |
| -0.104247101 | 0.543762803 | 0.573 | 1 | 1152 | CKB |
| -0.104247101 | 0.543762803 | 0.57 | 1 | 2115 | ETV1 |
| -0.104247101 | 0.543762803 | 0.548 | 1 | 2952 | GSTT1 |
| -0.104247101 | 0.543762803 | 0.564 | 1 | 5016 | OVGP1 |
| -0.104247101 | 0.543762803 | 0.555 | 1 | 51397 | COMMD10 |
| -0.104247101 | 0.543762803 | 0.576 | 1 | 51450 | PRRX2 |
| -0.104247101 | 0.543762803 | 0.556 | 1 | 79665 | DHX40 |
| -0.104247101 | 0.543762803 | 0.571 | 1 | 81605 | URM1 |
| -0.104247101 | 0.543762803 | 0.575 | 1 | 128853 | DUSP15 |
| -0.104247101 | 0.543762803 | 0.593 | 1 | 155061 | ZNF746 |
| -0.104247101 | 0.543762803 | 0.611 | 1 | 219477 | OR8J1 |
| -0.104247101 | 0.543762803 | 0.565 | 1 | 653483 | C6orf124 |
| -0.104504503 | 0.542762816 | 0.549 | 1 | 176 | ACAN |
| -0.104504503 | 0.542762816 | 0.574 | 1 | 2107 | ETF1 |
| -0.104504503 | 0.542762816 | 0.572 | 1 | 25895 | FAM119B |
| -0.104504503 | 0.542762816 | 0.575 | 1 | 51497 | TH1L |
| -0.104504503 | 0.542762816 | 0.568 | 1 | 285093 | CXXC11 |
| -0.104761906 | 0.541764259 | 0.553 | 1 | 220 | ALDH1A3 |
| -0.104761906 | 0.541764259 | 0.555 | 1 | 7782 | SLC30A4 |
| -0.104761906 | 0.541764259 | 0.605 | 1 | 9513 | FXR2 |
| -0.104761906 | 0.541764259 | 0.551 | 1 | 23081 | KDM4C |
| -0.104761906 | 0.541764259 | 0.563 | 1 | 51284 | TLR7 |
| -0.104761906 | 0.541764259 | 0.572 | 1 | 51294 | PCDH12 |
| -0.104761906 | 0.541764259 | 0.576 | 1 | 51366 | UBR5 |
| -0.104761906 | 0.541764259 | 0.562 | 1 | 55341 | LSG1 |
| -0.104761906 | 0.541764259 | 0.575 | 1 | 55663 | ZNF446 |
| -0.104761906 | 0.541764259 | 0.579 | 1 | 81025 | GJA9 |
| -0.104761906 | 0.541764259 | 0.617 | 1 | 90768 | MGC45800 |
| -0.104761906 | 0.541764259 | 0.589 | 1 | 123872 | LRRC50 |
| -0.104761906 | 0.541764259 | 0.567 | 1 | 339318 | ZNF181 |
| -0.105019301 | 0.540766478 | 0.578 | 1 | 1196 | CLK2 |
| -0.105019301 | 0.540766478 | 0.543 | 1 | 7678 | ZNF124 |
| -0.105019301 | 0.540766478 | 0.573 | 1 | 7690 | ZNF131 |
| -0.105019301 | 0.540766478 | 0.593 | 1 | 9213 | XPR1 |
| -0.105019301 | 0.540766478 | 0.567 | 1 | 23020 | SNRNP200 |
| -0.105019301 | 0.540766478 | 0.555 | 1 | 27335 | EIF3K |
| -0.105019301 | 0.540766478 | 0.56 | 1 | 63874 | ABHD4 |
| -0.105019301 | 0.540766478 | 0.575 | 1 | 151449 | GDF7 |
| -0.105019301 | 0.540766478 | 0.573 | 1 | 100130302 | FAM48B1 |
| -0.105276704 | 0.53976965 | 0.533 | 1 | 6908 | TBP |
| -0.105276704 | 0.53976965 | 0.584 | 1 | 114757 | CYGB |
| -0.105276704 | 0.53976965 | 0.587 | 1 | 100049587 | SIGLEC14 |
| -0.105534099 | 0.538773239 | 0.552 | 1 | 19 | ABCA1 |
| -0.105534099 | 0.538773239 | 0.566 | 1 | 5756 | TWF1 |
| -0.105534099 | 0.538773239 | 0.558 | 1 | 5928 | RBBP4 |
| -0.105534099 | 0.538773239 | 0.574 | 1 | 23116 | FAM179B |
| -0.105534099 | 0.538773239 | 0.585 | 1 | 55894 | DEFB103B |
| -0.105534099 | 0.538773239 | 0.55 | 1 | 79134 | TMEM185B |
| -0.105534099 | 0.538773239 | 0.558 | 1 | 80150 | ASRGL1 |
| -0.105534099 | 0.538773239 | 0.584 | 1 | 283234 | CCDC88B |
| -0.105791502 | 0.537778258 | 0.58 | 1 | 816 | CAMK2B |
| -0.105791502 | 0.537778258 | 0.566 | 1 | 2948 | GSTM4 |
| -0.105791502 | 0.537778258 | 0.566 | 1 | 4170 | MCL1 |
| -0.105791502 | 0.537778258 | 0.57 | 1 | 7020 | TFAP2A |
| -0.105791502 | 0.537778258 | 0.568 | 1 | 9997 | SCO2 |
| -0.105791502 | 0.537778258 | 0.578 | 1 | 26048 | ZNF500 |
| -0.105791502 | 0.537778258 | 0.601 | 1 | 55716 | LMBR1L |
| -0.105791502 | 0.537778258 | 0.576 | 1 | 100130717 | CECR5-AS1 |
| -0.106048904 | 0.536784053 | 0.561 | 1 | 2717 | GLA |
| -0.106048904 | 0.536784053 | 0.592 | 1 | 4604 | MYBPC1 |
| -0.106048904 | 0.536784053 | 0.569 | 1 | 6785 | ELOVL4 |
| -0.106048904 | 0.536784053 | 0.557 | 1 | 7404 | UTY |
| -0.106048904 | 0.536784053 | 0.576 | 1 | 26234 | FBXL5 |
| -0.106048904 | 0.536784053 | 0.588 | 1 | 54815 | GATAD2A |
| -0.106048904 | 0.536784053 | 0.558 | 1 | 54949 | SDHAF2 |
| -0.106048904 | 0.536784053 | 0.553 | 1 | 83854 | ANGPTL6 |
| -0.1063063 | 0.535790801 | 0.565 | 1 | 231 | AKR1B1 |
| -0.1063063 | 0.535790801 | 0.554 | 1 | 308 | ANXA5 |
| -0.1063063 | 0.535790801 | 0.577 | 1 | 329 | BIRC2 |
| -0.1063063 | 0.535790801 | 0.583 | 1 | 4832 | NME3 |
| -0.1063063 | 0.535790801 | 0.577 | 1 | 6016 | RIT1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.062825233 | 1.55716E-08 | 4711 | NDUFB5 |
| -0.062845111 | 1.54099E-08 | 3769 | KCNJ13 |
| -0.062898137 | 1.49864E-08 | 1326 | MAP3K8 |
| -0.062898785 | 1.49813E-08 | 84865 | CCDC142 |
| -0.062928684 | 1.47476E-08 | 83987 | CCDC8 |
| -0.063039944 | 1.39087E-08 | 283149 | BCL9L |
| -0.063049875 | 1.38361E-08 | 8370 | HIST2H4A |
| -0.06307365 | 1.36638E-08 | 2532 | DARC |
| -0.06309139 | 1.35366E-08 | 51293 | CD320 |
| -0.063094176 | 1.35168E-08 | 55870 | ASH1L |
| -0.063121289 | 1.33248E-08 | 222611 | GPR111 |
| -0.063151471 | 1.31144E-08 | 5362 | PLXNA2 |
| -0.063255668 | 1.24122E-08 | 387254 | SLC7A5P2 |
| -0.063255854 | 1.24109E-08 | 646626 | LOC646626 |
| -0.063257523 | 1.24E-08 | 100132815 | AC092329.2 |
| -0.063341938 | 1.18586E-08 | 29967 | LRP12 |
| -0.063344911 | 1.18399E-08 | 3764 | KCNJ8 |
| -0.063437961 | 1.12705E-08 | 204 | AK2 |
| -0.063488297 | 1.09737E-08 | 126017 | ZNF813 |
| -0.063504919 | 1.08774E-08 | 53371 | NUP54 |
| -0.063605957 | 1.03092E-08 | 4194 | MDM4 |
| -0.063614875 | 1.02605E-08 | 22985 | ACIN1 |
| -0.063744701 | 9.57578E-09 | 26153 | KIF26A |
| -0.063774049 | 9.42729E-09 | 145748 | LYSMD4 |
| -0.063849084 | 9.0577E-09 | 6117 | RPA1 |
| -0.063856043 | 9.02415E-09 | 3113 | HLA-DPA1 |
| -0.063861243 | 8.99914E-09 | 10357 | HMGB1P1 |
| -0.063873135 | 8.94226E-09 | 221120 | ALKBH3 |
| -0.063878708 | 8.91571E-09 | 23523 | CABIN1 |
| -0.063909911 | 8.76846E-09 | 657 | BMPR1A |
| -0.063922539 | 8.70956E-09 | 64215 | DNAJC1 |
| -0.063993208 | 8.3869E-09 | 6128 | RPL6P10 |
| -0.064064719 | 8.07225E-09 | 84316 | LSMD1 |
| -0.064072609 | 8.03828E-09 | 2152 | F3 |
| -0.06408032 | 8.00516E-09 | 438 | ASMT |
| -0.06408041 | 8.00477E-09 | 57719 | ANO8 |
| -0.06416975 | 7.63084E-09 | 3914 | LAMB3 |
| -0.064212933 | 7.45623E-09 | 84614 | ZBTB37 |
| -0.064273573 | 7.21759E-09 | 84230 | LRRC8C |
| -0.064289451 | 7.15635E-09 | 64327 | LMBR1 |
| -0.064324372 | 7.02341E-09 | 9784 | SNX17 |
| -0.064428657 | 6.64055E-09 | 51728 | POLR3K |
| -0.064431816 | 6.62928E-09 | 10885 | WDR3 |
| -0.064450108 | 6.56435E-09 | 23399 | DULLARD |
| -0.064472586 | 6.48542E-09 | 8287 | USP9Y |
| -0.064515859 | 6.33607E-09 | 8195 | MKKS |
| -0.064549938 | 6.22077E-09 | 51104 | FAM108B1 |
| -0.064564057 | 6.17363E-09 | 23345 | SYNE1 |
| -0.064575575 | 6.13543E-09 | 4237 | MFAP2 |
| -0.064581797 | 6.11488E-09 | 84619 | ZGPAT |
| -0.064594515 | 6.07309E-09 | 100130932 | LOC100130932 |
| -0.064599715 | 6.05608E-09 | 143888 | KDELC2 |
| -0.064604916 | 6.03913E-09 | 6155 | RPL27 |
| -0.064623863 | 5.97771E-09 | 65250 | C5orf42 |
| -0.064745985 | 5.59624E-09 | 644168 | DRGX |
| -0.064798824 | 5.43864E-09 | 10327 | AKR1A1 |
| -0.064800866 | 5.43263E-09 | 246269 | LACE1 |
| -0.064801238 | 5.43153E-09 | 23443 | SLC35A3 |
| -0.064817578 | 5.38376E-09 | 54778 | RNF111 |
| -0.064839311 | 5.3208E-09 | 90321 | ZNF766 |
| -0.064937748 | 5.04455E-09 | 3588 | IL10RB |
| -0.064956509 | 4.99352E-09 | 4213 | MEIS3P1 |
| -0.064995602 | 4.88878E-09 | 1653 | DDX1 |
| -0.065014459 | 4.83901E-09 | 646050 | LOC646050 |
| -0.065016128 | 4.83463E-09 | 4088 | SMAD3 |
| -0.065043986 | 4.76209E-09 | 1201 | CLN3 |
| -0.065047331 | 4.75345E-09 | 5315 | PKM2 |
| -0.06506674 | 4.70362E-09 | 3993 | LLGL2 |
| -0.065098129 | 4.62412E-09 | 5098 | PCDHGC3 |
| -0.065203346 | 4.36702E-09 | 22901 | ARSG |
| -0.06526538 | 4.22202E-09 | 50717 | WDR42A |
| -0.06526947 | 4.21262E-09 | 54812 | AFTPH |
| -0.06529361 | 4.15758E-09 | 54826 | GIN1 |
| -0.065329455 | 4.07716E-09 | 25983 | NGDN |
| -0.065433376 | 3.85245E-09 | 441168 | FAM26F |
| -0.065441638 | 3.8351E-09 | 54108 | CHRAC1 |
| -0.065448329 | 3.82113E-09 | 51776 | ZAK |
| -0.065499589 | 3.71561E-09 | 134429 | STARD4 |
| -0.065526888 | 3.66059E-09 | 23017 | FAIM2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.1063063 | 0.535790801 | 0.608 | 1 | 6366 | CCL21 |
| -0.1063063 | 0.535790801 | 0.586 | 1 | 9589 | WTAP |
| -0.1063063 | 0.535790801 | 0.602 | 1 | 84340 | GFM2 |
| -0.1063063 | 0.535790801 | 0.544 | 1 | 285175 | C2orf21 |
| -0.1063063 | 0.535790801 | 0.565 | 1 | 285440 | CYP4V2 |
| -0.106563702 | 0.534798026 | 0.579 | 1 | 3660 | IRF2 |
| -0.106563702 | 0.534798026 | 0.614 | 1 | 4499 | MT1M |
| -0.106563702 | 0.534798026 | 0.575 | 1 | 6473 | SHOX |
| -0.106563702 | 0.534798026 | 0.543 | 1 | 6818 | SULT1A3 |
| -0.106563702 | 0.534798026 | 0.57 | 1 | 10327 | AKR1A1 |
| -0.106563702 | 0.534798026 | 0.593 | 1 | 11219 | TREX2 |
| -0.106563702 | 0.534798026 | 0.569 | 1 | 29997 | GLTSCR2 |
| -0.106563702 | 0.534798026 | 0.568 | 1 | 57093 | TRIM49 |
| -0.106563702 | 0.534798026 | 0.537 | 1 | 83999 | KREMEN1 |
| -0.106563702 | 0.534798026 | 0.581 | 1 | 192134 | B3GNT6 |
| -0.106563702 | 0.534798026 | 0.573 | 1 | 285268 | ZNF621 |
| -0.106563702 | 0.534798026 | 0.562 | 1 | 340527 | NHSL2 |
| -0.106821112 | 0.533806503 | 0.577 | 1 | 5062 | PAK2 |
| -0.106821112 | 0.533806503 | 0.556 | 1 | 29880 | ALG5 |
| -0.106821112 | 0.533806503 | 0.605 | 1 | 55196 | C12orf35 |
| -0.106821112 | 0.533806503 | 0.567 | 1 | 56658 | TRIM39 |
| -0.106821112 | 0.533806503 | 0.585 | 1 | 64102 | TNMD |
| -0.106821112 | 0.533806503 | 0.53 | 1 | 116540 | MRPL53 |
| -0.106821112 | 0.533806503 | 0.58 | 1 | 219578 | ZNF804B |
| -0.107078508 | 0.532815993 | 0.567 | 1 | 427 | ASAH1 |
| -0.107078508 | 0.532815993 | 0.573 | 1 | 657 | BMPR1A |
| -0.107078508 | 0.532815993 | 0.574 | 1 | 4640 | MYO1A |
| -0.107078508 | 0.532815993 | 0.567 | 1 | 9824 | ARHGAP11A |
| -0.107078508 | 0.532815993 | 0.579 | 1 | 151295 | SLC23A3 |
| -0.107078508 | 0.532815993 | 0.578 | 1 | 152877 | FAM53A |
| -0.10733591 | 0.531826317 | 0.561 | 1 | 2950 | GSTP1 |
| -0.10733591 | 0.531826317 | 0.556 | 1 | 11118 | BTN3A2 |
| -0.10733591 | 0.531826317 | 0.541 | 1 | 51528 | JKAMP |
| -0.10733591 | 0.531826317 | 0.569 | 1 | 79888 | LPCAT1 |
| -0.10733591 | 0.531826317 | 0.549 | 1 | 85444 | LRRCC1 |
| -0.10733591 | 0.531826317 | 0.566 | 1 | 197021 | LCTL |
| -0.10733591 | 0.531826317 | 0.559 | 1 | 341346 | C12orf70 |
| -0.10733591 | 0.531826317 | 0.554 | 1 | 100286918 | NDUFS5P2 |
| -0.107593305 | 0.530837536 | 0.565 | 1 | 2047 | EPHB1 |
| -0.107593305 | 0.530837536 | 0.575 | 1 | 4060 | LUM |
| -0.107593305 | 0.530837536 | 0.579 | 1 | 57514 | CDGAP |
| -0.107593305 | 0.530837536 | 0.554 | 1 | 64137 | ABCG4 |
| -0.107593305 | 0.530837536 | 0.548 | 1 | 92070 | CTBP1-AS1 |
| -0.107850708 | 0.529849291 | 0.538 | 1 | 1738 | DLD |
| -0.107850708 | 0.529849291 | 0.567 | 1 | 7436 | VLDLR |
| -0.107850708 | 0.529849291 | 0.518 | 1 | 8034 | SLC25A16 |
| -0.107850708 | 0.529849291 | 0.563 | 1 | 11252 | PACSIN2 |
| -0.107850708 | 0.529849291 | 0.536 | 1 | 23301 | EHBP1 |
| -0.107850708 | 0.529849291 | 0.562 | 1 | 23544 | SEZ6L |
| -0.107850708 | 0.529849291 | 0.574 | 1 | 54849 | DEF8 |
| -0.107850708 | 0.529849291 | 0.567 | 1 | 93979 | CPA5 |
| -0.107850708 | 0.529849291 | 0.553 | 1 | 118433 | RPL23AP7 |
| -0.107850708 | 0.529849291 | 0.588 | 1 | 150353 | DNAJB7 |
| -0.107850708 | 0.529849291 | 0.57 | 1 | 379025 | RP11-349A22.5 |
| -0.108108111 | 0.528862298 | 0.579 | 1 | 4717 | NDUFC1 |
| -0.108108111 | 0.528862298 | 0.549 | 1 | 8269 | TMEM187 |
| -0.108108111 | 0.528862298 | 0.563 | 1 | 54822 | TRPM7 |
| -0.108108111 | 0.528862298 | 0.581 | 1 | 83787 | ARMC10 |
| -0.108108111 | 0.528862298 | 0.554 | 1 | 91433 | RCCD1 |
| -0.108365506 | 0.527876258 | 0.565 | 1 | 1183 | CLCN4 |
| -0.108365506 | 0.527876258 | 0.553 | 1 | 4839 | NOP2 |
| -0.108365506 | 0.527876258 | 0.569 | 1 | 10085 | EDIL3 |
| -0.108365506 | 0.527876258 | 0.579 | 1 | 28996 | HIPK2 |
| -0.108365506 | 0.527876258 | 0.562 | 1 | 57664 | PLEKHA4 |
| -0.108365506 | 0.527876258 | 0.566 | 1 | 221357 | GSTA5 |
| -0.108622909 | 0.526891112 | 0.556 | 1 | 5608 | MAP2K6 |
| -0.108622909 | 0.526891112 | 0.554 | 1 | 5764 | PTN |
| -0.108622909 | 0.526891112 | 0.546 | 1 | 9436 | NCR2 |
| -0.108622909 | 0.526891112 | 0.55 | 1 | 50808 | AK3 |
| -0.108622909 | 0.526891112 | 0.544 | 1 | 79832 | QSER1 |
| -0.108622909 | 0.526891112 | 0.584 | 1 | 160728 | SLC5A8 |
| -0.108622909 | 0.526891112 | 0.551 | 1 | 387921 | NHLRC3 |
| -0.108880304 | 0.525906384 | 0.549 | 1 | 26538 | OR10H2 |
| -0.108880304 | 0.525906384 | 0.55 | 1 | 28957 | MRPS28 |
| -0.108880304 | 0.525906384 | 0.573 | 1 | 219960 | OR10Q1 |
| -0.109137706 | 0.524923146 | 0.546 | 1 | 5226 | PGD |
| -0.109137706 | 0.524923146 | 0.506 | 1 | 8636 | SSNA1 |
| -0.109137706 | 0.524923146 | 0.564 | 1 | 79796 | ALG9 |
| -0.109137706 | 0.524923146 | 0.571 | 1 | 401634 | GOLGA2P3Y |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.065542676 | 3.62912E-09 | 171546 | C14orf147 |
| -0.065559953 | 3.595E-09 | 4297 | MLL |
| -0.065584093 | 3.54784E-09 | 7388 | UQCRH |
| -0.065601371 | 3.51444E-09 | 51755 | CRKRS |
| -0.065614276 | 3.48971E-09 | 56001 | NXF2 |
| -0.065620035 | 3.47872E-09 | 5021 | OXTR |
| -0.065650031 | 3.42205E-09 | 10981 | RAB32 |
| -0.06566935 | 3.38603E-09 | 119369 | NUDT9P1 |
| -0.065679565 | 3.36713E-09 | 414777 | HCG18 |
| -0.065680213 | 3.36594E-09 | 678655 | AC005840.2 |
| -0.065686248 | 3.35483E-09 | 8487 | SIP1 |
| -0.065763794 | 3.21519E-09 | 3135 | HLA-G |
| -0.065807998 | 3.13813E-09 | 114792 | KLHL32 |
| -0.065862976 | 3.0448E-09 | 348825 | TPRXL |
| -0.06588684 | 3.00514E-09 | 5269 | SERPINB6 |
| -0.06593699 | 2.92342E-09 | 11100 | HNRNPUL1 |
| -0.066044897 | 2.75484E-09 | 5756 | TWF1 |
| -0.066045828 | 2.75343E-09 | 84667 | HES7 |
| -0.066080466 | 2.70138E-09 | 22904 | SBNO2 |
| -0.066113621 | 2.65245E-09 | 5196 | PF4 |
| -0.066141665 | 2.61175E-09 | 51000 | SLC35B3 |
| -0.066163763 | 2.5801E-09 | 5015 | OTX2 |
| -0.066187911 | 2.54595E-09 | 442572 | LOC442572 |
| -0.066201843 | 2.52644E-09 | 9710 | KIAA0355 |
| -0.066256635 | 2.45113E-09 | 29780 | PARVB |
| -0.066271216 | 2.43146E-09 | 112869 | CCDC101 |
| -0.066411257 | 2.25021E-09 | 6234 | RPS28 |
| -0.066412836 | 2.24823E-09 | 441024 | MTHFD2L |
| -0.06647487 | 2.17228E-09 | 79954 | NOL10 |
| -0.066487402 | 2.15725E-09 | 341378 | LOC341378 |
| -0.066495948 | 2.14705E-09 | 4693 | NDP |
| -0.066529661 | 2.10728E-09 | 653464 | SRGAP2C |
| -0.066597916 | 2.02896E-09 | 10212 | DDX39 |
| -0.066603765 | 2.02237E-09 | 389549 | FEZF1 |
| -0.066678427 | 1.9402E-09 | 55179 | FAIM |
| -0.066705175 | 1.91156E-09 | 2230 | FDX1 |
| -0.066799618 | 1.81369E-09 | 154141 | MBOAT1 |
| -0.066851348 | 1.76217E-09 | 6443 | SGCB |
| -0.066889144 | 1.72543E-09 | 441394 | SUGT1P1 |
| -0.066893041 | 1.72168E-09 | 54969 | C4orf27 |
| -0.066901125 | 1.71394E-09 | 130617 | ZFAND2B |
| -0.066920064 | 1.69593E-09 | 1292 | COL6A2 |
| -0.066948481 | 1.66925E-09 | 9025 | RNF8 |
| -0.066958606 | 1.65985E-09 | 142686 | ASB14 |
| -0.066974856 | 1.64486E-09 | 25855 | BRMS1 |
| -0.067004666 | 1.61771E-09 | 6676 | SPAG4 |
| -0.067035221 | 1.59033E-09 | 6599 | SMARCC1 |
| -0.067052305 | 1.57522E-09 | 2531 | KDSR |
| -0.067084439 | 1.54717E-09 | 2782 | GNB1 |
| -0.067138769 | 1.50086E-09 | 6726 | SRP9 |
| -0.067150749 | 1.49083E-09 | 57827 | C6orf47 |
| -0.06718111 | 1.46571E-09 | 645644 | FLJ42627 |
| -0.067189097 | 1.45916E-09 | 388558 | ZNF808 |
| -0.067219377 | 1.43463E-09 | 340277 | C7orf46 |
| -0.067245282 | 1.41396E-09 | 57045 | TWSG1 |
| -0.067269892 | 1.39458E-09 | 3815 | KIT |
| -0.067278899 | 1.38756E-09 | 150483 | TEKT4 |
| -0.067322455 | 1.35407E-09 | 7384 | UQCRC1 |
| -0.067323662 | 1.35315E-09 | 119774 | OR52K2 |
| -0.067376785 | 1.3134E-09 | 1802 | DPH2 |
| -0.067404181 | 1.29335E-09 | 114793 | FMNL2 |
| -0.067415416 | 1.28521E-09 | 80110 | ZNF614 |
| -0.067468718 | 1.24729E-09 | 64783 | RBM15 |
| -0.067472152 | 1.24488E-09 | 22877 | MLXIP |
| -0.06748005 | 1.23937E-09 | 147686 | ZNF418 |
| -0.067485996 | 1.23523E-09 | 10611 | PDLIM5 |
| -0.06749101 | 1.23175E-09 | 54896 | PQLC2 |
| -0.067529641 | 1.20527E-09 | 54868 | TMEM104 |
| -0.067547008 | 1.19355E-09 | 5446 | PON3 |
| -0.067662068 | 1.11864E-09 | 11025 | LILRB3 |
| -0.067722149 | 1.08137E-09 | 222229 | LRWD1 |
| -0.06773933 | 1.07094E-09 | 6497 | SKI |
| -0.067756049 | 1.06088E-09 | 285193 | DUSP28 |
| -0.067772761 | 1.05091E-09 | 286262 | C9orf75 |
| -0.067781769 | 1.04558E-09 | 153222 | C5orf41 |
| -0.06786219 | 9.99131E-10 | 10966 | RAB40B |
| -0.067871384 | 9.9395E-10 | 81556 | C15orf44 |
| -0.067872129 | 9.93534E-10 | 9412 | MED21 |
| -0.067902125 | 9.76821E-10 | 64978 | MRPL38 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.109137706 | 0.524923146 | 0.556 | 1 | 100127983 | RP11-122A3.2 |
| -0.109395109 | 0.523940682 | 0.571 | 1 | 1942 | EFNA1 |
| -0.109395109 | 0.523940682 | 0.573 | 1 | 3481 | IGF2 |
| -0.109395109 | 0.523940682 | 0.56 | 1 | 6263 | RYR3 |
| -0.109395109 | 0.523940682 | 0.547 | 1 | 10021 | HCN4 |
| -0.109395109 | 0.523940682 | 0.538 | 1 | 27434 | POLM |
| -0.109395109 | 0.523940682 | 0.57 | 1 | 29082 | CHMP4A |
| -0.109395109 | 0.523940682 | 0.536 | 1 | 127795 | C1orf87 |
| -0.109395109 | 0.523940682 | 0.554 | 1 | 283551 | C14orf182 |
| -0.109395109 | 0.523940682 | 0.563 | 1 | 401152 | C4orf3 |
| -0.109652504 | 0.522959173 | 0.561 | 1 | 23621 | BACE1 |
| -0.109652504 | 0.522959173 | 0.54 | 1 | 55632 | G2E3 |
| -0.109652504 | 0.522959173 | 0.529 | 1 | 64215 | DNAJC1 |
| -0.109652504 | 0.522959173 | 0.552 | 1 | 121227 | LRIG3 |
| -0.109909907 | 0.52197814 | 0.554 | 1 | 5623 | PSPN |
| -0.109909907 | 0.52197814 | 0.564 | 1 | 9846 | GAB2 |
| -0.109909907 | 0.52197814 | 0.562 | 1 | 79960 | PHF17 |
| -0.109909907 | 0.52197814 | 0.545 | 1 | 90326 | THAP3 |
| -0.11016731 | 0.520998478 | 0.543 | 1 | 667 | DST |
| -0.11016731 | 0.520998478 | 0.526 | 1 | 3987 | LIMS1 |
| -0.11016731 | 0.520998478 | 0.528 | 1 | 8544 | PIR |
| -0.11016731 | 0.520998478 | 0.565 | 1 | 114904 | C1QTNF6 |
| -0.11016731 | 0.520998478 | 0.574 | 1 | 387646 | RP11-85G18.4 |
| -0.11016731 | 0.520998478 | 0.578 | 1 | 728806 | NSFP1 |
| -0.11016731 | 0.520998478 | 0.539 | 1 | 100289635 | ZNF605 |
| -0.110424712 | 0.52001977 | 0.518 | 1 | 116 | ADCYAP1 |
| -0.110424712 | 0.52001977 | 0.535 | 1 | 4289 | MKLN1 |
| -0.110424712 | 0.52001977 | 0.587 | 1 | 5137 | PDE1C |
| -0.110424712 | 0.52001977 | 0.558 | 1 | 54581 | SCAND2 |
| -0.110424712 | 0.52001977 | 0.543 | 1 | 54680 | ZNHIT6 |
| -0.110424712 | 0.52001977 | 0.551 | 1 | 63906 | GPATCH3 |
| -0.110682115 | 0.519041836 | 0.561 | 1 | 1238 | CCBP2 |
| -0.110682115 | 0.519041836 | 0.54 | 1 | 1326 | MAP3K8 |
| -0.110682115 | 0.519041836 | 0.559 | 1 | 3431 | SP110 |
| -0.110682115 | 0.519041836 | 0.542 | 1 | 25888 | ZNF473 |
| -0.110682115 | 0.519041836 | 0.58 | 1 | 25960 | GPR124 |
| -0.110682115 | 0.519041836 | 0.572 | 1 | 80143 | SIKE1 |
| -0.110682115 | 0.519041836 | 0.564 | 1 | 83752 | LONP2 |
| -0.110682115 | 0.519041836 | 0.533 | 1 | 90141 | EFCAB11 |
| -0.110682115 | 0.519041836 | 0.536 | 1 | 203260 | CCDC107 |
| -0.110682115 | 0.519041836 | 0.577 | 1 | 340485 | ACER2 |
| -0.11093951 | 0.518064916 | 0.553 | 1 | 712 | C1QA |
| -0.11093951 | 0.518064916 | 0.583 | 1 | 22907 | DHX30 |
| -0.11093951 | 0.518064916 | 0.56 | 1 | 65989 | DLK2 |
| -0.11093951 | 0.518064916 | 0.549 | 1 | 134637 | ADAT2 |
| -0.11093951 | 0.518064916 | 0.568 | 1 | 338382 | RAB7B |
| -0.111196913 | 0.517088532 | 0.553 | 1 | 4993 | OR2C1 |
| -0.111196913 | 0.517088532 | 0.563 | 1 | 9528 | TMEM59 |
| -0.111454308 | 0.51611346 | 0.536 | 1 | 1645 | AKR1C1 |
| -0.111454308 | 0.51611346 | 0.545 | 1 | 2559 | GABRA6 |
| -0.111454308 | 0.51611346 | 0.535 | 1 | 51124 | IER3IP1 |
| -0.111454308 | 0.51611346 | 0.542 | 1 | 54859 | C3orf75 |
| -0.111454308 | 0.51611346 | 0.574 | 1 | 115817 | DHRS1 |
| -0.111454308 | 0.51611346 | 0.562 | 1 | 129880 | BBS5 |
| -0.111711711 | 0.515139282 | 0.569 | 1 | 1197 | CLK2P |
| -0.111711711 | 0.515139282 | 0.543 | 1 | 1371 | CPOX |
| -0.111711711 | 0.515139282 | 0.528 | 1 | 646023 | C22ORF45 |
| -0.111969113 | 0.514166057 | 0.546 | 1 | 5636 | PRPSAP2 |
| -0.111969113 | 0.514166057 | 0.535 | 1 | 7775 | ZNF232 |
| -0.111969113 | 0.514166057 | 0.535 | 1 | 23421 | ITGB3BP |
| -0.111969113 | 0.514166057 | 0.553 | 1 | 84879 | MFSD2 |
| -0.111969113 | 0.514166057 | 0.57 | 1 | 123103 | KLHL33 |
| -0.111969113 | 0.514166057 | 0.538 | 1 | 200172 | SLFNL1 |
| -0.111969113 | 0.514166057 | 0.556 | 1 | 642521 | C1DP3 |
| -0.111969113 | 0.514166057 | 0.566 | 1 | 728533 | LOC728533 |
| -0.112226509 | 0.513193309 | 0.528 | 1 | 3437 | IFIT3 |
| -0.112226509 | 0.513193309 | 0.566 | 1 | 4695 | NDUFA2 |
| -0.112226509 | 0.513193309 | 0.548 | 1 | 6049 | RNF6 |
| -0.112226509 | 0.513193309 | 0.556 | 1 | 9044 | BTAF1 |
| -0.112226509 | 0.513193309 | 0.541 | 1 | 50848 | F11R |
| -0.112483911 | 0.512221932 | 0.508 | 1 | 4792 | NFKBIA |
| -0.112483911 | 0.512221932 | 0.561 | 1 | 8546 | AP3B1 |
| -0.112483911 | 0.512221932 | 0.546 | 1 | 9843 | HEPH |
| -0.112483911 | 0.512221932 | 0.547 | 1 | 22979 | EFR3B |
| -0.112483911 | 0.512221932 | 0.519 | 1 | 64801 | ARV1 |
| -0.112483911 | 0.512221932 | 0.567 | 1 | 138311 | FAM69B |
| -0.112741306 | 0.511251509 | 0.562 | 1 | 8802 | SUCLG1 |
| -0.112741306 | 0.511251509 | 0.492 | 1 | 9187 | SLC24A1 |
| -0.112741306 | 0.511251509 | 0.553 | 1 | 10592 | SMC2 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.067931376 | 9.60784E-10 | 283652 | SLC24A5 |
| -0.068026654 | 9.10317E-10 | 10201 | NME6 |
| -0.068146549 | 8.50474E-10 | 8837 | CFLAR |
| -0.068155743 | 8.46047E-10 | 222236 | NAPEPLD |
| -0.068158247 | 8.44845E-10 | 5213 | PFKM |
| -0.068164468 | 8.41865E-10 | 57053 | CHRNA10 |
| -0.068284824 | 7.8621E-10 | 56851 | C15orf24 |
| -0.068291515 | 7.83224E-10 | 5339 | PLEC1 |
| -0.06830024 | 7.79347E-10 | 51603 | METTL13 |
| -0.068355404 | 7.5526E-10 | 1395 | CRHR2 |
| -0.068389207 | 7.40861E-10 | 23328 | SASH1 |
| -0.068419293 | 7.28271E-10 | 55216 | C11orf57 |
| -0.06843508 | 7.21746E-10 | 3550 | IK |
| -0.068440095 | 7.19686E-10 | 4650 | MYO9B |
| -0.068478264 | 7.04191E-10 | 100093630 | SNHG8 |
| -0.068481982 | 7.02702E-10 | 2107 | ETF1 |
| -0.068599917 | 6.56954E-10 | 3872 | KRT17 |
| -0.068621837 | 6.4878E-10 | 10848 | PPP1R13L |
| -0.068640597 | 6.41859E-10 | 9745 | ZNF536 |
| -0.068672635 | 6.30208E-10 | 3001 | GZMA |
| -0.068675138 | 6.29306E-10 | 55829 | AC023024.1 |
| -0.068711825 | 6.16237E-10 | 84687 | PPP1R9B |
| -0.068806179 | 5.83829E-10 | 55862 | ECHDC1 |
| -0.068811931 | 5.81909E-10 | 51726 | DNAJB11 |
| -0.068871923 | 5.62238E-10 | 10929 | SRSF8 |
| -0.068922073 | 5.46291E-10 | 8936 | WASF1 |
| -0.069061182 | 5.04338E-10 | 4548 | MTR |
| -0.069077991 | 4.99487E-10 | 81892 | C14orf156 |
| -0.069092944 | 4.95208E-10 | 260341 | TFAMP1 |
| -0.069139659 | 4.82074E-10 | 91689 | C22orf32 |
| -0.069181725 | 4.70539E-10 | 7155 | TOP2B |
| -0.069185533 | 4.69509E-10 | 10002 | NR2E3 |
| -0.069191009 | 4.6803E-10 | 151011 | SEPTIN10 |
| -0.069204383 | 4.64437E-10 | 643854 | RP5-988G15.1 |
| -0.06925147 | 4.52002E-10 | 219699 | UNC5B |
| -0.069348231 | 4.27461E-10 | 9056 | SLC7A7 |
| -0.069381014 | 4.19448E-10 | 8804 | CREG1 |
| -0.069427915 | 4.08234E-10 | 152815 | THAP6 |
| -0.069458649 | 4.01045E-10 | 27068 | PPA2 |
| -0.069482796 | 3.95485E-10 | 391190 | OR2L8 |
| -0.069494404 | 3.92838E-10 | 1650 | DDOST |
| -0.069568977 | 3.76244E-10 | 55225 | RAVER2 |
| -0.069577895 | 3.74306E-10 | 6777 | STAT5B |
| -0.069595166 | 3.7058E-10 | 7114 | TMSB4X |
| -0.069640204 | 3.61034E-10 | 4784 | NFIX |
| -0.069663607 | 3.5617E-10 | 4326 | MMP17 |
| -0.06975285 | 3.38197E-10 | 4651 | MYO10 |
| -0.069832064 | 3.22988E-10 | 284406 | ZFP82 |
| -0.06983643 | 3.2217E-10 | 7739 | ZNF185 |
| -0.06994991 | 3.0159E-10 | 51573 | GDE1 |
| -0.069955297 | 3.00648E-10 | 401262 | CRIP3 |
| -0.069970526 | 2.97993E-10 | 4928 | NUP98 |
| -0.069974057 | 2.97381E-10 | 65125 | WNK1 |
| -0.069995604 | 2.93673E-10 | 8503 | PIK3R3 |
| -0.069998391 | 2.93197E-10 | 155370 | SBDSP1 |
| -0.070000336 | 2.92863E-10 | 7798 | LUZP1 |
| -0.070015289 | 2.90324E-10 | 80351 | TNKS2 |
| -0.070016965 | 2.9004E-10 | 116138 | KLHDC3 |
| -0.070026249 | 2.88475E-10 | 348235 | FAM33A |
| -0.070104443 | 2.7562E-10 | 653240 | KRTAP4-14 |
| -0.070146695 | 2.68907E-10 | 115703 | SNX26 |
| -0.070203625 | 2.60114E-10 | 79726 | WDR59 |
| -0.070217736 | 2.57979E-10 | 57223 | SMEK2 |
| -0.070253305 | 2.52672E-10 | 4487 | MSX1 |
| -0.070373751 | 2.35481E-10 | 282808 | RAB40AL |
| -0.070381179 | 2.34458E-10 | 388753 | C1orf31 |
| -0.070437461 | 2.26855E-10 | 50853 | VILL |
| -0.070462346 | 2.23569E-10 | 55920 | RCC2 |
| -0.07047043 | 2.22512E-10 | 143903 | LAYN |
| -0.070491232 | 2.19815E-10 | 1106 | CHD2 |
| -0.070568308 | 2.10094E-10 | 91695 | RRP7B |
| -0.070588179 | 2.07657E-10 | 85013 | TMEM128 |
| -0.070686527 | 1.95997E-10 | 259290 | TAS2R31 |
| -0.07070408 | 1.93983E-10 | 51084 | CRYL1 |
| -0.070708908 | 1.93434E-10 | 79962 | DNAJC22 |
| -0.070729338 | 1.91123E-10 | 404672 | GTF2H5 |
| -0.070737787 | 1.90175E-10 | 57819 | LSM2 |
| -0.070744663 | 1.89407E-10 | 27129 | HSPB7 |
| -0.070769362 | 1.86673E-10 | 84079 | ANKRD27 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.112741306 | 0.511251509 | 0.573 | 1 | 11328 | FKBP9 |
| -0.112741306 | 0.511251509 | 0.558 | 1 | 146852 | ODF4 |
| -0.112998709 | 0.51028198 | 0.549 | 1 | 2287 | FKBP3 |
| -0.112998709 | 0.51028198 | 0.548 | 1 | 10423 | CDIPT |
| -0.112998709 | 0.51028198 | 0.559 | 1 | 93436 | ARMC6 |
| -0.112998709 | 0.51028198 | 0.55 | 1 | 112574 | SNX18 |
| -0.112998709 | 0.51028198 | 0.516 | 1 | 124935 | SLC43A2 |
| -0.112998709 | 0.51028198 | 0.528 | 1 | 440104 | AC023055.2 |
| -0.112998709 | 0.51028198 | 0.554 | 1 | 100147773 | RP11-466F5.8 |
| -0.113256112 | 0.509312928 | 0.546 | 1 | 7748 | ZNF195 |
| -0.113256112 | 0.509312928 | 0.556 | 1 | 10694 | CCT8 |
| -0.113256112 | 0.509312928 | 0.554 | 1 | 55151 | TMEM38B |
| -0.113256112 | 0.509312928 | 0.536 | 1 | 140831 | ZSWIM3 |
| -0.113256112 | 0.509312928 | 0.545 | 1 | 154661 | RUNDC3B |
| -0.113513507 | 0.508345306 | 0.552 | 1 | 3653 | IPW |
| -0.113513507 | 0.508345306 | 0.544 | 1 | 10103 | TSPAN1 |
| -0.113513507 | 0.508345306 | 0.564 | 1 | 10858 | CYP46A1 |
| -0.113513507 | 0.508345306 | 0.54 | 1 | 26658 | OR7C2 |
| -0.113513507 | 0.508345306 | 0.55 | 1 | 51324 | SPG21 |
| -0.113513507 | 0.508345306 | 0.528 | 1 | 90576 | ZNF799 |
| -0.113513507 | 0.508345306 | 0.532 | 1 | 152007 | GLIPR2 |
| -0.113513507 | 0.508345306 | 0.578 | 1 | 646024 | RAET1K |
| -0.113770917 | 0.507378578 | 0.54 | 1 | 1822 | ATN1 |
| -0.113770917 | 0.507378578 | 0.52 | 1 | 4729 | NDUFV2 |
| -0.113770917 | 0.507378578 | 0.556 | 1 | 5523 | PPP2R3A |
| -0.113770917 | 0.507378578 | 0.538 | 1 | 6734 | SRPR |
| -0.113770917 | 0.507378578 | 0.571 | 1 | 9414 | TJP2 |
| -0.113770917 | 0.507378578 | 0.546 | 1 | 80072 | HEXA-AS1 |
| -0.113770917 | 0.507378578 | 0.535 | 1 | 158747 | MOSPD2 |
| -0.114028312 | 0.506412804 | 0.518 | 1 | 8658 | TNKS |
| -0.114028312 | 0.506412804 | 0.544 | 1 | 9512 | PMPCB |
| -0.114028312 | 0.506412804 | 0.5 | 1 | 51199 | NIN |
| -0.114028312 | 0.506412804 | 0.552 | 1 | 142678 | MIB2 |
| -0.114028312 | 0.506412804 | 0.553 | 1 | 348932 | SLC6A18 |
| -0.114028312 | 0.506412804 | 0.538 | 1 | 391013 | PLA2G2C |
| -0.114285715 | 0.505447924 | 0.543 | 1 | 368 | ABCC6 |
| -0.114285715 | 0.505447924 | 0.544 | 1 | 1053 | CEBPE |
| -0.114285715 | 0.505447924 | 0.562 | 1 | 2147 | F2 |
| -0.114285715 | 0.505447924 | 0.572 | 1 | 5394 | EXOSC10 |
| -0.114285715 | 0.505447924 | 0.554 | 1 | 10733 | PLK4 |
| -0.114285715 | 0.505447924 | 0.532 | 1 | 54468 | MIOS |
| -0.114285715 | 0.505447924 | 0.547 | 1 | 91754 | NEK9 |
| -0.114285715 | 0.505447924 | 0.525 | 1 | 114780 | PKD1L2 |
| -0.114285715 | 0.505447924 | 0.538 | 1 | 284339 | TMEM145 |
| -0.114285715 | 0.505447924 | 0.563 | 1 | 284349 | ZNF283 |
| -0.114543118 | 0.504483581 | 0.544 | 1 | 1515 | CTSL2 |
| -0.114543118 | 0.504483581 | 0.55 | 1 | 2899 | GRIK3 |
| -0.114543118 | 0.504483581 | 0.534 | 1 | 29071 | C1GALT1C1 |
| -0.114543118 | 0.504483581 | 0.527 | 1 | 55556 | ENOSF1 |
| -0.114800513 | 0.503520608 | 0.542 | 1 | 5978 | REST |
| -0.114800513 | 0.503520608 | 0.523 | 1 | 6388 | SDF2 |
| -0.114800513 | 0.503520608 | 0.52 | 1 | 6556 | SLC11A1 |
| -0.114800513 | 0.503520608 | 0.51 | 1 | 27107 | ZBTB11 |
| -0.114800513 | 0.503520608 | 0.544 | 1 | 51314 | TXNDC3 |
| -0.114800513 | 0.503520608 | 0.526 | 1 | 163351 | GBP6 |
| -0.114800513 | 0.503520608 | 0.545 | 1 | 285601 | GPR150 |
| -0.114800513 | 0.503520608 | 0.51 | 1 | 728407 | LOC728407 |
| -0.115057915 | 0.502558589 | 0.54 | 1 | 291 | SLC25A4 |
| -0.115057915 | 0.502558589 | 0.528 | 1 | 5269 | SERPINB6 |
| -0.115057915 | 0.502558589 | 0.514 | 1 | 7988 | ZNF212 |
| -0.115057915 | 0.502558589 | 0.543 | 1 | 8443 | GNPAT |
| -0.115057915 | 0.502558589 | 0.526 | 1 | 9219 | MTA2 |
| -0.115057915 | 0.502558589 | 0.549 | 1 | 27292 | DIMT1 |
| -0.115057915 | 0.502558589 | 0.537 | 1 | 115727 | RASGRP4 |
| -0.115057915 | 0.502558589 | 0.56 | 1 | 221756 | MGC39372 |
| -0.115315311 | 0.501597464 | 0.528 | 1 | 3683 | ITGAL |
| -0.115315311 | 0.501597464 | 0.525 | 1 | 26024 | PTCD1 |
| -0.115315311 | 0.501597464 | 0.512 | 1 | 100129460 | DPY19L1P1 |
| -0.115572713 | 0.500636876 | 0.51 | 1 | 397 | ARHGDIB |
| -0.115572713 | 0.500636876 | 0.563 | 1 | 476 | ATP1A1 |
| -0.115572713 | 0.500636876 | 0.534 | 1 | 54623 | PAF1 |
| -0.115572713 | 0.500636876 | 0.537 | 1 | 56751 | BARHL1 |
| -0.115572713 | 0.500636876 | 0.502 | 1 | 91746 | YTHDC1 |
| -0.115572713 | 0.500636876 | 0.551 | 1 | 128153 | SPATA17 |
| -0.115572713 | 0.500636876 | 0.508 | 1 | 162966 | ZNF600 |
| -0.115572713 | 0.500636876 | 0.524 | 1 | 222171 | PRR15 |
| -0.115830116 | 0.499677658 | 0.541 | 1 | 11064 | CEP110 |
| -0.115830116 | 0.499677658 | 0.515 | 1 | 11097 | NUPL2 |
| -0.115830116 | 0.499677658 | 0.545 | 1 | 23127 | GLT25D2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.070811711 | 1.82076E-10 | 64979 | MRPL36 |
| -0.070836693 | 1.79416E-10 | 29923 | C7orf68 |
| -0.070854612 | 1.77531E-10 | 56986 | DTWD1 |
| -0.070937261 | 1.69085E-10 | 253639 | ZNF620 |
| -0.070979983 | 1.64875E-10 | 10281 | DSCR4 |
| -0.070983514 | 1.64532E-10 | 94097 | SFXN5 |
| -0.071004219 | 1.62533E-10 | 11168 | PSIP1 |
| -0.071016759 | 1.61333E-10 | 6788 | AP003355.2 |
| -0.071050651 | 1.58134E-10 | 5160 | PDHA1 |
| -0.07105957 | 1.57303E-10 | 25790 | CCDC19 |
| -0.071081206 | 1.55305E-10 | 117584 | RFFL |
| -0.071082324 | 1.55202E-10 | 147138 | TMC8 |
| -0.071085572 | 1.54904E-10 | 5535 | PPP3R2 |
| -0.071133487 | 1.50576E-10 | 8325 | FZD8 |
| -0.071134977 | 1.50443E-10 | 3123 | HLA-DRB1 |
| -0.071160048 | 1.48228E-10 | 389792 | IER5L |
| -0.071233317 | 1.41934E-10 | 254559 | LOC254559 |
| -0.071266942 | 1.39135E-10 | 50626 | CYHR1 |
| -0.071288764 | 1.37346E-10 | 667 | DST |
| -0.071327768 | 1.34206E-10 | 11275 | KLHL2 |
| -0.071415521 | 1.27395E-10 | 26234 | FBXL5 |
| -0.071428709 | 1.26401E-10 | 23591 | FAM215A |
| -0.07144738 | 1.25006E-10 | 57188 | ADAMTSL3 |
| -0.071453601 | 1.24545E-10 | 81033 | KCNH6 |
| -0.071506158 | 1.20714E-10 | 283377 | SPRYD4 |
| -0.071512289 | 1.20275E-10 | 255027 | MPV17L |
| -0.07157442 | 1.1591E-10 | 4738 | NEDD8 |
| -0.071580082 | 1.15521E-10 | 10948 | STARD3 |
| -0.071642026 | 1.11337E-10 | 1289 | COL5A1 |
| -0.071670718 | 1.0945E-10 | 6695 | SPOCK1 |
| -0.07167843 | 1.08948E-10 | 90693 | CCDC126 |
| -0.071684092 | 1.08581E-10 | 6874 | TAF4 |
| -0.071710929 | 1.06858E-10 | 646567 | OSTCP2 |
| -0.071835652 | 9.91929E-11 | 390154 | OR5T3 |
| -0.071854405 | 9.80879E-11 | 7476 | WNT7A |
| -0.071855523 | 9.80224E-11 | 114783 | LMTK3 |
| -0.071959257 | 9.21284E-11 | 89978 | ATPBD4 |
| -0.071994454 | 9.02078E-11 | 645691 | LOC645691 |
| -0.072000489 | 8.98826E-11 | 51594 | NBAS |
| -0.072027415 | 8.84454E-11 | 375743 | PTAR1 |
| -0.072038837 | 8.78425E-11 | 2342 | FNTB |
| -0.07205797 | 8.68415E-11 | 6154 | RPL26 |
| -0.072117217 | 8.38119E-11 | 221937 | FOXK1 |
| -0.072127715 | 8.32862E-11 | 119559 | SFXN4 |
| -0.072143406 | 8.25062E-11 | 847 | CAT |
| -0.072211199 | 7.92173E-11 | 8676 | STX11 |
| -0.072254106 | 7.72024E-11 | 23351 | KIAA0323 |
| -0.072370276 | 7.19953E-11 | 8263 | F8A1 |
| -0.072381049 | 7.15303E-11 | 116842 | LEAP2 |
| -0.072404079 | 7.05458E-11 | 712 | C1QA |
| -0.072456457 | 6.83559E-11 | 10980 | COPS6 |
| -0.072473921 | 6.76406E-11 | 2309 | FOXO3 |
| -0.072540686 | 6.49733E-11 | 8928 | FOXH1 |
| -0.072592139 | 6.29876E-11 | 3111 | HLA-DOA |
| -0.072620921 | 6.19031E-11 | 441272 | SPDYE3 |
| -0.072621949 | 6.18646E-11 | 399693 | MGC50722 |
| -0.072646745 | 6.09454E-11 | 259293 | TAS2R30 |
| -0.072683424 | 5.96102E-11 | 25839 | COG4 |
| -0.072733663 | 5.78276E-11 | 100272147 | MTCP1NB |
| -0.072746761 | 5.73717E-11 | 50619 | DEF6 |
| -0.072755948 | 5.70538E-11 | 219988 | PATL1 |
| -0.072793655 | 5.57672E-11 | 117145 | THEM4 |
| -0.072848722 | 5.39393E-11 | 136259 | KLF14 |
| -0.072923854 | 5.15399E-11 | 113419 | TEX261 |
| -0.072938435 | 5.10863E-11 | 10782 | ZNF274 |
| -0.072952829 | 5.06426E-11 | 3822 | KLRC2 |
| -0.072952829 | 5.06426E-11 | 124446 | TMEM219 |
| -0.07300242 | 4.9142E-11 | 389765 | LOC389765 |
| -0.073068351 | 4.72144E-11 | 5436 | POLR2G |
| -0.073102623 | 4.6242E-11 | 9752 | PCDHA9 |
| -0.073134288 | 4.53608E-11 | 163732 | CITED4 |
| -0.073144689 | 4.50749E-11 | 6429 | SFRS4 |
| -0.073236629 | 4.26237E-11 | 2018 | EMX2 |
| -0.073246002 | 4.23812E-11 | 27005 | USP21 |
| -0.073327452 | 4.03304E-11 | 25946 | ZNF385A |
| -0.073411398 | 3.83185E-11 | 90196 | SYS1 |
| -0.073416322 | 3.82034E-11 | 83698 | CALN1 |
| -0.073419295 | 3.81343E-11 | 653479 | MRPL45P2 |
| -0.07348597 | 3.66137E-11 | 353376 | TICAM2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.115830116 | 0.499677658 | 0.521 | 1 | 79794 | C12orf49 |
| -0.115830116 | 0.499677658 | 0.522 | 1 | 148709 | RP11-480I12.7 |
| -0.116087511 | 0.498719394 | 0.537 | 1 | 1314 | COPA |
| -0.116087511 | 0.498719394 | 0.524 | 1 | 3267 | AGFG1 |
| -0.116087511 | 0.498719394 | 0.531 | 1 | 6990 | DYNLT3 |
| -0.116087511 | 0.498719394 | 0.533 | 1 | 22868 | FASTKD2 |
| -0.116087511 | 0.498719394 | 0.506 | 1 | 83551 | TAAR8 |
| -0.116087511 | 0.498719394 | 0.531 | 1 | 84614 | ZBTB37 |
| -0.116087511 | 0.498719394 | 0.556 | 1 | 84910 | TMEM87B |
| -0.116087511 | 0.498719394 | 0.534 | 1 | 129303 | TMEM150A |
| -0.116344914 | 0.497762054 | 0.522 | 1 | 1271 | CNTFR |
| -0.116344914 | 0.497762054 | 0.509 | 1 | 54923 | LIME1 |
| -0.116344914 | 0.497762054 | 0.515 | 1 | 55063 | ZCWPW1 |
| -0.116344914 | 0.497762054 | 0.55 | 1 | 114881 | OSBPL7 |
| -0.116344914 | 0.497762054 | 0.574 | 1 | 124783 | C17orf46 |
| -0.116344914 | 0.497762054 | 0.539 | 1 | 399512 | SLC25A35 |
| -0.116602309 | 0.49680528 | 0.543 | 1 | 1263 | PLK3 |
| -0.116602309 | 0.49680528 | 0.554 | 1 | 3117 | HLA-DQA1 |
| -0.116602309 | 0.49680528 | 0.529 | 1 | 9351 | SLC9A3R2 |
| -0.116602309 | 0.49680528 | 0.53 | 1 | 10892 | MALT1 |
| -0.116602309 | 0.49680528 | 0.547 | 1 | 84236 | RHBDD1 |
| -0.116602309 | 0.49680528 | 0.509 | 1 | 114932 | MRFAP1L1 |
| -0.116602309 | 0.49680528 | 0.535 | 1 | 200403 | VWA3B |
| -0.116602309 | 0.49680528 | 0.526 | 1 | 389362 | PSMG4 |
| -0.116859712 | 0.495849818 | 0.54 | 1 | 6746 | SSR2 |
| -0.116859712 | 0.495849818 | 0.55 | 1 | 23629 | BRD7P3 |
| -0.116859712 | 0.495849818 | 0.537 | 1 | 63920 | C5orf54 |
| -0.116859712 | 0.495849818 | 0.539 | 1 | 84159 | ARID5B |
| -0.116859712 | 0.495849818 | 0.52 | 1 | 352954 | GATS |
| -0.116859712 | 0.495849818 | 0.523 | 1 | 353145 | LCE3E |
| -0.117117114 | 0.494895399 | 0.534 | 1 | 596 | BCL2 |
| -0.117117114 | 0.494895399 | 0.527 | 1 | 6197 | RPS6KA3 |
| -0.117117114 | 0.494895399 | 0.522 | 1 | 27132 | CPNE7 |
| -0.117117114 | 0.494895399 | 0.546 | 1 | 375033 | PEAR1 |
| -0.117117114 | 0.494895399 | 0.496 | 1 | 401397 | AC073346.1 |
| -0.117374517 | 0.493941814 | 0.529 | 1 | 8479 | HIRIP3 |
| -0.117374517 | 0.493941814 | 0.555 | 1 | 8725 | URI1 |
| -0.117374517 | 0.493941814 | 0.526 | 1 | 9792 | SERTAD2 |
| -0.117374517 | 0.493941814 | 0.536 | 1 | 51588 | PIAS4 |
| -0.117374517 | 0.493941814 | 0.535 | 1 | 84924 | ZNF566 |
| -0.117374517 | 0.493941814 | 0.559 | 1 | 115827 | RAB3C |
| -0.117374517 | 0.493941814 | 0.482 | 1 | 282566 | LINC00515 |
| -0.117374517 | 0.493941814 | 0.527 | 1 | 375337 | C3orf77 |
| -0.117374517 | 0.493941814 | 0.516 | 1 | 645784 | ANKRD36BP2 |
| -0.117374517 | 0.493941814 | 0.531 | 1 | 653781 | AC140481.7 |
| -0.11763192 | 0.492989242 | 0.546 | 1 | 3208 | HPCA |
| -0.11763192 | 0.492989242 | 0.493 | 1 | 23399 | DULLARD |
| -0.11763192 | 0.492989242 | 0.5 | 1 | 51058 | ZNF691 |
| -0.11763192 | 0.492989242 | 0.563 | 1 | 56244 | BTNL2 |
| -0.11763192 | 0.492989242 | 0.536 | 1 | 116511 | MAS1L |
| -0.11763192 | 0.492989242 | 0.531 | 1 | 100129933 | GLYATL1P2 |
| -0.117889315 | 0.492037207 | 0.514 | 1 | 7148 | TNXB |
| -0.117889315 | 0.492037207 | 0.506 | 1 | 10623 | POLR3C |
| -0.117889315 | 0.492037207 | 0.509 | 1 | 11006 | LILRB4 |
| -0.117889315 | 0.492037207 | 0.549 | 1 | 56098 | PCDHGC4 |
| -0.117889315 | 0.492037207 | 0.51 | 1 | 84634 | KISS1R |
| -0.117889315 | 0.492037207 | 0.514 | 1 | 220416 | LRRC63 |
| -0.117889315 | 0.492037207 | 0.513 | 1 | 255101 | CCDC108 |
| -0.118146718 | 0.491086543 | 0.495 | 1 | 1195 | CLK1 |
| -0.118146718 | 0.491086543 | 0.534 | 1 | 9541 | CIR1 |
| -0.118146718 | 0.491086543 | 0.531 | 1 | 10897 | YIF1A |
| -0.118146718 | 0.491086543 | 0.53 | 1 | 11260 | XPOT |
| -0.118146718 | 0.491086543 | 0.503 | 1 | 23203 | PMPCA |
| -0.118146718 | 0.491086543 | 0.517 | 1 | 59084 | ENPP5 |
| -0.118146718 | 0.491086543 | 0.511 | 1 | 134701 | C6orf59 |
| -0.11840412 | 0.490136832 | 0.54 | 1 | 946 | SIGLEC6 |
| -0.11840412 | 0.490136832 | 0.539 | 1 | 7718 | ZNF165 |
| -0.11840412 | 0.490136832 | 0.519 | 1 | 11330 | CTRC |
| -0.11840412 | 0.490136832 | 0.522 | 1 | 55106 | SLFN12 |
| -0.11840412 | 0.490136832 | 0.532 | 1 | 84288 | EFCAB2 |
| -0.11840412 | 0.490136832 | 0.532 | 1 | 114791 | TUBGCP5 |
| -0.11840412 | 0.490136832 | 0.572 | 1 | 123720 | WHAMM |
| -0.11840412 | 0.490136832 | 0.518 | 1 | 339456 | TMEM52 |
| -0.11840412 | 0.490136832 | 0.504 | 1 | 100132832 | LOC100132832 |
| -0.118661515 | 0.489188045 | 0.535 | 1 | 2923 | PDIA3 |
| -0.118661515 | 0.489188045 | 0.494 | 1 | 3784 | KCNQ1 |
| -0.118661515 | 0.489188045 | 0.539 | 1 | 8906 | AP1G2 |
| -0.118661515 | 0.489188045 | 0.518 | 1 | 57606 | SLAIN2 |
| -0.118661515 | 0.489188045 | 0.541 | 1 | 64853 | AIDA |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.07356184 | 3.49555E-11 | 96626 | LIMS3 |
| -0.073562399 | 3.49437E-11 | 9310 | ZNF235 |
| -0.073572338 | 3.47319E-11 | 3987 | LIMS1 |
| -0.073589608 | 3.43672E-11 | 79176 | FBXL15 |
| -0.073610507 | 3.39309E-11 | 144486 | LOC144486 |
| -0.073643379 | 3.32554E-11 | 100049716 | AC021054.1 |
| -0.073662788 | 3.28628E-11 | 441549 | CDNF |
| -0.073745348 | 3.12428E-11 | 6208 | RPS14 |
| -0.073746741 | 3.12163E-11 | 5699 | PSMB10 |
| -0.07387127 | 2.89213E-11 | 8344 | HIST1H2BE |
| -0.073884368 | 2.86898E-11 | 3805 | KIR2DL4 |
| -0.073902659 | 2.83695E-11 | 25871 | C3orf17 |
| -0.073913246 | 2.81856E-11 | 283284 | IGSF22 |
| -0.0739998 | 2.6726E-11 | 7553 | ZNF7 |
| -0.074016511 | 2.64529E-11 | 4324 | MMP15 |
| -0.074022084 | 2.63625E-11 | 60343 | FAM3A |
| -0.074089229 | 2.52958E-11 | 92126 | DSEL |
| -0.074090712 | 2.52727E-11 | 29965 | C16orf5 |
| -0.074091643 | 2.52582E-11 | 135138 | PACRG |
| -0.074192591 | 2.37357E-11 | 9372 | ZFYVE9 |
| -0.074209772 | 2.34857E-11 | 340351 | AGBL3 |
| -0.074223325 | 2.32903E-11 | 642413 | CTSL1P6 |
| -0.074264839 | 2.27017E-11 | 359821 | MRPL42P5 |
| -0.074274309 | 2.25694E-11 | 11232 | POLG2 |
| -0.074306257 | 2.21288E-11 | 22933 | SIRT2 |
| -0.074313499 | 2.20302E-11 | 25949 | SYF2 |
| -0.074340805 | 2.1662E-11 | 9189 | ZBED1 |
| -0.074419364 | 2.06358E-11 | 4248 | MGAT3 |
| -0.074562848 | 1.88829E-11 | 140862 | C20orf82 |
| -0.074616432 | 1.82665E-11 | 100286895 | LOC100286895 |
| -0.074618846 | 1.82392E-11 | 148741 | ANKRD35 |
| -0.074636862 | 1.80367E-11 | 4332 | MNDA |
| -0.074664161 | 1.77339E-11 | 10550 | ARL6IP5 |
| -0.074665651 | 1.77176E-11 | 150946 | FAM59B |
| -0.074694805 | 1.74001E-11 | 10507 | SEMA4D |
| -0.074748114 | 1.6834E-11 | 57704 | GBA2 |
| -0.074760929 | 1.67006E-11 | 55103 | RALGPS2 |
| -0.074863918 | 1.56655E-11 | 8893 | EIF2B5 |
| -0.074937932 | 1.49607E-11 | 10421 | CD2BP2 |
| -0.07494536 | 1.48917E-11 | 55054 | ATG16L1 |
| -0.075005539 | 1.43441E-11 | 574 | BAGE |
| -0.075024389 | 1.41767E-11 | 55559 | HAUS7 |
| -0.075041384 | 1.40274E-11 | 1841 | DTYMK |
| -0.075049184 | 1.39594E-11 | 4610 | MYCL1 |
| -0.075089119 | 1.36161E-11 | 5891 | RAGE |
| -0.075198695 | 1.27164E-11 | 116225 | ZMYND19 |
| -0.075210862 | 1.26201E-11 | 284161 | GDPD1 |
| -0.075219318 | 1.25536E-11 | 89853 | FAM125B |
| -0.075294442 | 1.1978E-11 | 55006 | TRMT61B |
| -0.075339667 | 1.1644E-11 | 2706 | GJB2 |
| -0.07534951 | 1.15725E-11 | 10371 | SEMA3A |
| -0.075357869 | 1.15122E-11 | 153241 | CEP120 |
| -0.075430118 | 1.10032E-11 | 54551 | MAGEL2 |
| -0.075479157 | 1.06703E-11 | 8826 | IQGAP1 |
| -0.075494476 | 1.05684E-11 | 440515 | ZNF506 |
| -0.075514257 | 1.04381E-11 | 404734 | ANKHD1-EIF4EBP3 |
| -0.075537473 | 1.02873E-11 | 84747 | UNC119B |
| -0.075545646 | 1.02347E-11 | 200726 | LOC200726 |
| -0.075570069 | 1.00791E-11 | 285489 | DOK7 |
| -0.075586602 | 9.9751E-12 | 3706 | ITPKA |
| -0.075673148 | 9.44754E-12 | 79990 | PLEKHH3 |
| -0.075697854 | 9.30202E-12 | 64849 | SLC13A3 |
| -0.075769544 | 8.8921E-12 | 79745 | CLIP4 |
| -0.075809382 | 8.67199E-12 | 1062 | CENPE |
| -0.075851455 | 8.44532E-12 | 84765 | ZNF577 |
| -0.075853311 | 8.43548E-12 | 1511 | CTSG |
| -0.075854331 | 8.43007E-12 | 26716 | OR2H1 |
| -0.075891852 | 8.23318E-12 | 84304 | NUDT22 |
| -0.075906985 | 8.15504E-12 | 28989 | NTMT1 |
| -0.075945251 | 7.96073E-12 | 155066 | ATP6V0E2 |
| -0.075954258 | 7.91563E-12 | 5978 | REST |
| -0.076054089 | 7.4325E-12 | 285525 | YIPF7 |
| -0.076062165 | 7.39472E-12 | 9580 | SOX13 |
| -0.076100335 | 7.21862E-12 | 55627 | SMPD4 |
| -0.076150298 | 6.99428E-12 | 284391 | ZNF844 |
| -0.076160327 | 6.95008E-12 | 63926 | ANKRD5 |
| -0.076211028 | 6.73079E-12 | 9495 | AKAP5 |
| -0.076255791 | 6.54282E-12 | 388677 | NOTCH2NL |
| -0.076311417 | 6.31645E-12 | 84928 | TMEM209 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.118661515 | 0.489188045 | 0.532 | 1 | 81550 | TDRD3 |
| -0.118661515 | 0.489188045 | 0.538 | 1 | 284716 | RIMKLA |
| -0.118918918 | 0.488239825 | 0.505 | 1 | 10155 | TRIM28 |
| -0.118918918 | 0.488239825 | 0.512 | 1 | 83593 | RASSF5 |
| -0.118918918 | 0.488239825 | 0.539 | 1 | 400668 | PRSSL1 |
| -0.118918918 | 0.488239825 | 0.524 | 1 | 644903 | FLJ38668 |
| -0.118918918 | 0.488239825 | 0.518 | 1 | 646890 | LOC646890 |
| -0.119176313 | 0.487293005 | 0.489 | 1 | 30 | ACAA1 |
| -0.119176313 | 0.487293005 | 0.536 | 1 | 7278 | TUBA3C |
| -0.119176313 | 0.487293005 | 0.543 | 1 | 81669 | CCNL2 |
| -0.119176313 | 0.487293005 | 0.502 | 1 | 89891 | WDR34 |
| -0.119176313 | 0.487293005 | 0.515 | 1 | 159013 | CXorf38 |
| -0.119176313 | 0.487293005 | 0.547 | 1 | 391195 | OR2T33 |
| -0.119433716 | 0.486347079 | 0.512 | 1 | 763 | CA5A |
| -0.119433716 | 0.486347079 | 0.528 | 1 | 7855 | FZD5 |
| -0.119433716 | 0.486347079 | 0.542 | 1 | 55655 | NLRP2 |
| -0.119433716 | 0.486347079 | 0.519 | 1 | 64976 | MRPL40 |
| -0.119433716 | 0.486347079 | 0.527 | 1 | 199857 | ALG14 |
| -0.119433716 | 0.486347079 | 0.511 | 1 | 284827 | KRTAP13-4 |
| -0.119691119 | 0.485402197 | 0.508 | 1 | 3107 | HLA-C |
| -0.119691119 | 0.485402197 | 0.508 | 1 | 5279 | PIGC |
| -0.119691119 | 0.485402197 | 0.533 | 1 | 7272 | TTK |
| -0.119691119 | 0.485402197 | 0.532 | 1 | 27037 | TRMT2A |
| -0.119691119 | 0.485402197 | 0.519 | 1 | 57332 | CBX8 |
| -0.119691119 | 0.485402197 | 0.507 | 1 | 91452 | ACBD5 |
| -0.119691119 | 0.485402197 | 0.523 | 1 | 145783 | RP11-323F24.1 |
| -0.119691119 | 0.485402197 | 0.498 | 1 | 400657 | LOC400657 |
| -0.119948514 | 0.484458208 | 0.5 | 1 | 6147 | RPL23A |
| -0.119948514 | 0.484458208 | 0.538 | 1 | 9147 | SDCCAG1 |
| -0.119948514 | 0.484458208 | 0.521 | 1 | 10732 | TCFL5 |
| -0.119948514 | 0.484458208 | 0.489 | 1 | 23536 | ADAT1 |
| -0.119948514 | 0.484458208 | 0.506 | 1 | 55177 | FAM82A2 |
| -0.119948514 | 0.484458208 | 0.534 | 1 | 140686 | WFDC3 |
| -0.119948514 | 0.484458208 | 0.506 | 1 | 375341 | C3orf62 |
| -0.119948514 | 0.484458208 | 0.525 | 1 | 448835 | LCE6A |
| -0.120205916 | 0.483514786 | 0.516 | 1 | 58472 | SQRDL |
| -0.120205916 | 0.483514786 | 0.532 | 1 | 58506 | SCAF1 |
| -0.120205916 | 0.483514786 | 0.498 | 1 | 83450 | LRRC48 |
| -0.120205916 | 0.483514786 | 0.5 | 1 | 92659 | MAFG-AS1 |
| -0.120205916 | 0.483514786 | 0.533 | 1 | 118491 | TTC18 |
| -0.120205916 | 0.483514786 | 0.554 | 1 | 221545 | C6orf136 |
| -0.120463312 | 0.482572794 | 0.522 | 1 | 1339 | COX6A2 |
| -0.120463312 | 0.482572794 | 0.511 | 1 | 6129 | RPL7 |
| -0.120463312 | 0.482572794 | 0.534 | 1 | 23336 | SYNM |
| -0.120463312 | 0.482572794 | 0.537 | 1 | 80227 | PAAF1 |
| -0.120463312 | 0.482572794 | 0.553 | 1 | 114336 | CGB2 |
| -0.120463312 | 0.482572794 | 0.544 | 1 | 148641 | SLC35F3 |
| -0.120463312 | 0.482572794 | 0.499 | 1 | 253832 | ZDHHC20 |
| -0.120720722 | 0.481631666 | 0.513 | 1 | 1300 | COL10A1 |
| -0.120720722 | 0.481631666 | 0.526 | 1 | 10101 | NUBP2 |
| -0.120720722 | 0.481631666 | 0.51 | 1 | 10557 | RPP38 |
| -0.120720722 | 0.481631666 | 0.535 | 1 | 23037 | PDZD2 |
| -0.120720722 | 0.481631666 | 0.526 | 1 | 51747 | AC005921.3 |
| -0.120720722 | 0.481631666 | 0.515 | 1 | 55238 | SLC38A7 |
| -0.120720722 | 0.481631666 | 0.534 | 1 | 440482 | ANKRD20A5P |
| -0.120720722 | 0.481631666 | 0.491 | 1 | 100190939 | XXyac-R12DG2.1 |
| -0.120978124 | 0.480691612 | 0.507 | 1 | 2300 | FOXL1 |
| -0.120978124 | 0.480691612 | 0.512 | 1 | 2738 | GLI4 |
| -0.120978124 | 0.480691612 | 0.493 | 1 | 2956 | MSH6 |
| -0.120978124 | 0.480691612 | 0.494 | 1 | 3065 | HDAC1 |
| -0.120978124 | 0.480691612 | 0.526 | 1 | 5160 | PDHA1 |
| -0.120978124 | 0.480691612 | 0.532 | 1 | 8659 | ALDH4A1 |
| -0.120978124 | 0.480691612 | 0.526 | 1 | 9498 | SLC4A8 |
| -0.120978124 | 0.480691612 | 0.517 | 1 | 10912 | GADD45G |
| -0.120978124 | 0.480691612 | 0.51 | 1 | 51206 | GP6 |
| -0.120978124 | 0.480691612 | 0.506 | 1 | 55892 | MYNN |
| -0.120978124 | 0.480691612 | 0.536 | 1 | 79813 | EHMT1 |
| -0.120978124 | 0.480691612 | 0.523 | 1 | 113791 | PIK3IP1 |
| -0.120978124 | 0.480691612 | 0.519 | 1 | 171546 | C14orf147 |
| -0.12123552 | 0.479752034 | 0.538 | 1 | 5988 | RFPL1 |
| -0.12123552 | 0.479752034 | 0.514 | 1 | 6760 | SS18 |
| -0.12123552 | 0.479752034 | 0.523 | 1 | 285782 | CAGE1 |
| -0.12123552 | 0.479752034 | 0.517 | 1 | 374407 | DNAJB13 |
| -0.12123552 | 0.479752034 | 0.524 | 1 | 728819 | LOC728819 |
| -0.121492922 | 0.478813857 | 0.545 | 1 | 6429 | SFRS4 |
| -0.121492922 | 0.478813857 | 0.508 | 1 | 7464 | CORO2A |
| -0.121492922 | 0.478813857 | 0.511 | 1 | 9957 | HS3ST1 |
| -0.121492922 | 0.478813857 | 0.522 | 1 | 158880 | USP51 |
| -0.121750325 | 0.477876663 | 0.534 | 1 | 1019 | CDK4 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.076340854 | 6.19973E-12 | 2011 | MARK2 |
| -0.076342434 | 6.19354E-12 | 90120 | C9ORF69 |
| -0.076347545 | 6.1735E-12 | 51365 | PLA1A |
| -0.076373361 | 6.07334E-12 | 6517 | SLC2A4 |
| -0.076379582 | 6.04942E-12 | 138151 | NACC2 |
| -0.076501332 | 5.59978E-12 | 552889 | ATXN7L3B |
| -0.076517396 | 5.54295E-12 | 728255 | KRTAP1-4 |
| -0.076539963 | 5.46406E-12 | 80019 | UBTD1 |
| -0.076581471 | 5.32184E-12 | 79807 | GSTCD |
| -0.07661175 | 5.22041E-12 | 183 | AGT |
| -0.0766735 | 5.01935E-12 | 135458 | HUS1B |
| -0.07672105 | 4.86972E-12 | 25849 | AC110760.2 |
| -0.0767738 | 4.70885E-12 | 28960 | DCPS |
| -0.076780766 | 4.688E-12 | 11162 | NUDT6 |
| -0.076873071 | 4.4201E-12 | 4113 | MAGEB2 |
| -0.076891273 | 4.36906E-12 | 54920 | DUS2L |
| -0.07689926 | 4.34685E-12 | 27439 | CECR6 |
| -0.076916717 | 4.2987E-12 | 5913 | RAPSN |
| -0.076936312 | 4.24525E-12 | 779 | CACNA1S |
| -0.076961756 | 4.17685E-12 | 1075 | CTSC |
| -0.077044688 | 3.96128E-12 | 968 | CD68 |
| -0.077107467 | 3.8054E-12 | 9527 | GOSR1 |
| -0.077187516 | 3.61533E-12 | 23583 | SMUG1 |
| -0.077242866 | 3.48937E-12 | 283298 | OLFML1 |
| -0.077260137 | 3.45096E-12 | 359948 | IRF2BP2 |
| -0.077326812 | 3.30652E-12 | 8502 | PK4P |
| -0.077356718 | 3.24367E-12 | 57529 | RGAG1 |
| -0.077377796 | 3.20007E-12 | 3035 | HARS |
| -0.077403337 | 3.14803E-12 | 10067 | SCAMP3 |
| -0.077412903 | 3.12874E-12 | 51025 | AC009171.1 |
| -0.077435471 | 3.08371E-12 | 2918 | GRM8 |
| -0.077450886 | 3.05333E-12 | 5544 | PRB3 |
| -0.077459984 | 3.03554E-12 | 54344 | DPM3 |
| -0.077489518 | 2.97844E-12 | 51330 | TNFRSF12A |
| -0.077625565 | 2.72882E-12 | 54507 | ADAMTSL4 |
| -0.077631883 | 2.71775E-12 | 29085 | PHPT1 |
| -0.07764414 | 2.69638E-12 | 196968 | C15orf51 |
| -0.077649243 | 2.68752E-12 | 402682 | UFSP1 |
| -0.077663265 | 2.66335E-12 | 729920 | ISPD |
| -0.077732362 | 2.54735E-12 | 6641 | SNTB1 |
| -0.07778734 | 2.45859E-12 | 50856 | CLEC4A |
| -0.077829592 | 2.39244E-12 | 3903 | LAIR1 |
| -0.077837303 | 2.38055E-12 | 84899 | TMTC4 |
| -0.077919297 | 2.25774E-12 | 22918 | CD93 |
| -0.077971123 | 2.18335E-12 | 5888 | RAD51 |
| -0.077981986 | 2.16806E-12 | 64949 | MRPS26 |
| -0.078090362 | 2.02119E-12 | 93436 | ARMC6 |
| -0.078180164 | 1.90691E-12 | 644006 | LOC644006 |
| -0.078185081 | 1.90084E-12 | 3508 | IGHMBP2 |
| -0.078228176 | 1.84843E-12 | 25963 | TMEM87A |
| -0.078232072 | 1.84377E-12 | 2652 | OPN1MW |
| -0.078281663 | 1.78537E-12 | 3385 | ICAM3 |
| -0.078304693 | 1.75886E-12 | 11144 | DMC1 |
| -0.078379355 | 1.67558E-12 | 55526 | DHTKD1 |
| -0.078408144 | 1.64451E-12 | 94104 | C21orf66 |
| -0.078426346 | 1.62515E-12 | 29843 | SENP1 |
| -0.078462288 | 1.58759E-12 | 100128782 | LINC00476 |
| -0.07848151 | 1.56785E-12 | 414152 | C10orf105 |
| -0.078498967 | 1.55014E-12 | 388507 | ZNF788 |
| -0.078508347 | 1.5407E-12 | 643837 | RP11-206L10.11 |
| -0.078523763 | 1.52531E-12 | 5886 | RAD23A |
| -0.078558221 | 1.49146E-12 | 100128569 | C19orf71 |
| -0.078578278 | 1.47209E-12 | 7554 | ZNF8 |
| -0.078579575 | 1.47085E-12 | 147798 | TMC4 |
| -0.078621365 | 1.43133E-12 | 10300 | KATNB1 |
| -0.078677177 | 1.38016E-12 | 682 | BSG |
| -0.078716181 | 1.34547E-12 | 10482 | NXF1 |
| -0.078755282 | 1.31155E-12 | 57717 | PCDHB16 |
| -0.078873403 | 1.21411E-12 | 220979 | C10orf25 |
| -0.07888028 | 1.20866E-12 | 2214 | FCGR3A |
| -0.078919649 | 1.17792E-12 | 79576 | NKAP |
| -0.078938223 | 1.16369E-12 | 9522 | SCAMP1 |
| -0.078947514 | 1.15663E-12 | 51631 | LUC7L2 |
| -0.078965902 | 1.14279E-12 | 147923 | ZNF420 |
| -0.078988649 | 1.12589E-12 | 64927 | TTC23 |
| -0.079005741 | 1.11336E-12 | 51206 | GP6 |
| -0.07903146 | 1.09475E-12 | 84939 | MUM1 |
| -0.079052083 | 1.08006E-12 | 4723 | NDUFV1 |
| -0.079059042 | 1.07514E-12 | 1942 | EFNA1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.121750325 | 0.477876663 | 0.526 | 1 | 7737 | RNF113A |
| -0.121750325 | 0.477876663 | 0.501 | 1 | 8050 | PDHX |
| -0.121750325 | 0.477876663 | 0.531 | 1 | 10758 | TRAF3IP2 |
| -0.121750325 | 0.477876663 | 0.514 | 1 | 28972 | SPCS1 |
| -0.121750325 | 0.477876663 | 0.53 | 1 | 51142 | CHCHD2 |
| -0.121750325 | 0.477876663 | 0.508 | 1 | 79871 | RPAP2 |
| -0.12200772 | 0.476940513 | 0.545 | 1 | 1938 | EEF2 |
| -0.12200772 | 0.476940513 | 0.493 | 1 | 6730 | SRP68 |
| -0.12200772 | 0.476940513 | 0.54 | 1 | 9755 | TBKBP1 |
| -0.12200772 | 0.476940513 | 0.529 | 1 | 146540 | ZNF785 |
| -0.122265123 | 0.476004809 | 0.505 | 1 | 9946 | CRYZL1 |
| -0.122265123 | 0.476004809 | 0.55 | 1 | 30011 | SH3KBP1 |
| -0.122265123 | 0.476004809 | 0.518 | 1 | 54537 | FAM35B |
| -0.122265123 | 0.476004809 | 0.518 | 1 | 56942 | CMC2 |
| -0.122265123 | 0.476004809 | 0.512 | 1 | 147183 | KRT25 |
| -0.122522518 | 0.475070477 | 0.523 | 1 | 3566 | IL4R |
| -0.122522518 | 0.475070477 | 0.472 | 1 | 11331 | PHB2 |
| -0.122522518 | 0.475070477 | 0.497 | 1 | 55732 | C1orf112 |
| -0.122522518 | 0.475070477 | 0.505 | 1 | 64096 | GFRA4 |
| -0.122522518 | 0.475070477 | 0.513 | 1 | 83440 | ADPGK |
| -0.122522518 | 0.475070477 | 0.484 | 1 | 126208 | ZNF787 |
| -0.122522518 | 0.475070477 | 0.511 | 1 | 128497 | C20orf165 |
| -0.122522518 | 0.475070477 | 0.52 | 1 | 148113 | CILP2 |
| -0.122522518 | 0.475070477 | 0.507 | 1 | 245929 | DEFB115 |
| -0.122522518 | 0.475070477 | 0.524 | 1 | 432369 | ATP5EP2 |
| -0.122779921 | 0.474137217 | 0.536 | 1 | 2181 | ACSL3 |
| -0.122779921 | 0.474137217 | 0.494 | 1 | 2797 | GNRH2 |
| -0.122779921 | 0.474137217 | 0.499 | 1 | 5005 | ORM2 |
| -0.122779921 | 0.474137217 | 0.513 | 1 | 51192 | CKLF |
| -0.122779921 | 0.474137217 | 0.516 | 1 | 51200 | CPA4 |
| -0.122779921 | 0.474137217 | 0.514 | 1 | 53842 | CLDN22 |
| -0.122779921 | 0.474137217 | 0.51 | 1 | 54461 | FBXW5 |
| -0.122779921 | 0.474137217 | 0.5 | 1 | 147685 | C19orf18 |
| -0.123037323 | 0.473204881 | 0.516 | 1 | 2811 | GP1BA |
| -0.123037323 | 0.473204881 | 0.485 | 1 | 4704 | NDUFA9 |
| -0.123037323 | 0.473204881 | 0.517 | 1 | 9757 | AD000671.1 |
| -0.123037323 | 0.473204881 | 0.5 | 1 | 9814 | SFI1 |
| -0.123037323 | 0.473204881 | 0.493 | 1 | 23205 | ACSBG1 |
| -0.123037323 | 0.473204881 | 0.503 | 1 | 60561 | RINT1 |
| -0.123037323 | 0.473204881 | 0.514 | 1 | 113230 | AC022098.1 |
| -0.123037323 | 0.473204881 | 0.464 | 1 | 115749 | C12orf56 |
| -0.123294719 | 0.472273529 | 0.503 | 1 | 1936 | EEF1D |
| -0.123294719 | 0.472273529 | 0.51 | 1 | 4763 | NF1 |
| -0.123294719 | 0.472273529 | 0.513 | 1 | 10647 | SCGB1D2 |
| -0.123294719 | 0.472273529 | 0.494 | 1 | 51247 | PAIP2 |
| -0.123294719 | 0.472273529 | 0.517 | 1 | 55002 | TMCO3 |
| -0.123294719 | 0.472273529 | 0.499 | 1 | 56987 | BBX |
| -0.123294719 | 0.472273529 | 0.487 | 1 | 84518 | CNFN |
| -0.123294719 | 0.472273529 | 0.543 | 1 | 123169 | LEO1 |
| -0.123294719 | 0.472273529 | 0.492 | 1 | 164118 | TTC24 |
| -0.123294719 | 0.472273529 | 0.503 | 1 | 283131 | NEAT1 |
| -0.123294719 | 0.472273529 | 0.507 | 1 | 284433 | OR10H5 |
| -0.123552121 | 0.471342742 | 0.484 | 1 | 4851 | NOTCH1 |
| -0.123552121 | 0.471342742 | 0.526 | 1 | 23189 | KANK1 |
| -0.123552121 | 0.471342742 | 0.502 | 1 | 121551 | BTBD11 |
| -0.123552121 | 0.471342742 | 0.497 | 1 | 137075 | CLDN23 |
| -0.123552121 | 0.471342742 | 0.479 | 1 | 730144 | LOC730144 |
| -0.123809516 | 0.470413327 | 0.507 | 1 | 4327 | MMP19 |
| -0.123809516 | 0.470413327 | 0.504 | 1 | 22796 | COG2 |
| -0.123809516 | 0.470413327 | 0.472 | 1 | 55835 | CENPJ |
| -0.123809516 | 0.470413327 | 0.498 | 1 | 344905 | ATP13A5 |
| -0.123809516 | 0.470413327 | 0.501 | 1 | 373861 | HILS1 |
| -0.123809516 | 0.470413327 | 0.531 | 1 | 389690 | AC100803.1 |
| -0.123809516 | 0.470413327 | 0.503 | 1 | 401250 | MCCD1 |
| -0.124066919 | 0.469484925 | 0.491 | 1 | 1495 | CTNNA1 |
| -0.124066919 | 0.469484925 | 0.502 | 1 | 5364 | PLXNB1 |
| -0.124066919 | 0.469484925 | 0.51 | 1 | 22794 | CASC3 |
| -0.124066919 | 0.469484925 | 0.506 | 1 | 79918 | SETD6 |
| -0.124066919 | 0.469484925 | 0.521 | 1 | 84154 | RPF2 |
| -0.124324329 | 0.468557507 | 0.524 | 1 | 642 | BLMH |
| -0.124324329 | 0.468557507 | 0.536 | 1 | 23546 | SYNGR4 |
| -0.124324329 | 0.468557507 | 0.469 | 1 | 117289 | TAGAP |
| -0.124324329 | 0.468557507 | 0.517 | 1 | 143425 | SYT9 |
| -0.124324329 | 0.468557507 | 0.498 | 1 | 144348 | ZNF664 |
| -0.124581724 | 0.467630595 | 0.514 | 1 | 8986 | RPS6KA4 |
| -0.124581724 | 0.467630595 | 0.504 | 1 | 54934 | C12orf41 |
| -0.124581724 | 0.467630595 | 0.496 | 1 | 63895 | FAM38B |
| -0.124581724 | 0.467630595 | 0.496 | 1 | 79446 | WDR25 |
| -0.124581724 | 0.467630595 | 0.493 | 1 | 152503 | SH3D19 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.079071023 | 1.06672E-12 | 348180 | C16orf84 |
| -0.079128511 | 1.02725E-12 | 56126 | PCDHB10 |
| -0.079141699 | 1.0184E-12 | 1855 | DVL1 |
| -0.07914383 | 1.01698E-12 | 774 | CACNA1B |
| -0.079177819 | 9.94537E-13 | 56132 | PCDHB3 |
| -0.07919082 | 9.86084E-13 | 4238 | MFAP3 |
| -0.079198904 | 9.80865E-13 | 54865 | GPATCH4 |
| -0.079214685 | 9.70754E-13 | 728056 | LOC728056 |
| -0.079280809 | 9.29478E-13 | 5375 | PMP2 |
| -0.079314426 | 9.09156E-13 | 8349 | HIST2H2BE |
| -0.079316378 | 9.07995E-13 | 54617 | INO80 |
| -0.07935594 | 8.84667E-13 | 5480 | PPIC |
| -0.079373114 | 8.74726E-13 | 637 | BID |
| -0.079377949 | 8.71944E-13 | 9817 | KEAP1 |
| -0.079402931 | 8.57727E-13 | 399512 | SLC25A35 |
| -0.079426885 | 8.44303E-13 | 3437 | IFIT3 |
| -0.0794423 | 8.35777E-13 | 8148 | TAF15 |
| -0.079491988 | 8.08857E-13 | 1844 | DUSP2 |
| -0.079501458 | 8.03824E-13 | 8106 | PABPN1 |
| -0.079571389 | 7.67596E-13 | 54541 | DDIT4 |
| -0.079572596 | 7.66985E-13 | 139562 | OTUD6A |
| -0.079629429 | 7.3875E-13 | 57172 | CAMK1G |
| -0.079662025 | 7.23023E-13 | 79714 | CCDC51 |
| -0.079706691 | 7.01997E-13 | 94233 | OPN4 |
| -0.07971774 | 6.96891E-13 | 643421 | LOC643421 |
| -0.079861596 | 6.33632E-13 | 5093 | PCBP1 |
| -0.079862982 | 6.33053E-13 | 1880 | GPR183 |
| -0.079864934 | 6.32234E-13 | 347689 | SOX2-OT |
| -0.079893537 | 6.20373E-13 | 3309 | HSPA5 |
| -0.079902917 | 6.1653E-13 | 152687 | ZNF595 |
| -0.080024295 | 5.68869E-13 | 525 | ATP6V1B1 |
| -0.080027916 | 5.67502E-13 | 170591 | S100Z |
| -0.080042399 | 5.62076E-13 | 162699 | TCEB3C |
| -0.080060787 | 5.55259E-13 | 120364 | LOC120364 |
| -0.080125794 | 5.31803E-13 | 11004 | KIF2C |
| -0.080201946 | 5.05561E-13 | 6506 | SLC1A2 |
| -0.080281347 | 4.79553E-13 | 11104 | KATNA1 |
| -0.08036641 | 4.53149E-13 | 79019 | CENPM |
| -0.080378205 | 4.496E-13 | 51077 | FCF1 |
| -0.080421202 | 4.369E-13 | 643201 | RP11-844P9.2 |
| -0.080508865 | 4.1209E-13 | 90268 | FAM105B |
| -0.080536261 | 4.04622E-13 | 3006 | HIST1H1C |
| -0.080544248 | 4.02472E-13 | 10411 | RAPGEF3 |
| -0.080599971 | 3.87769E-13 | 9991 | ROD1 |
| -0.080666557 | 3.70891E-13 | 406 | ARNTL |
| -0.08066795 | 3.70546E-13 | 84996 | C21ORF119 |
| -0.080708437 | 3.60648E-13 | 3766 | KCNJ10 |
| -0.080729984 | 3.55485E-13 | 80035 | ANP32A-IT1 |
| -0.080741964 | 3.52648E-13 | 9790 | BMS1 |
| -0.080744192 | 3.52123E-13 | 285987 | DLX6-AS1 |
| -0.080783844 | 3.42898E-13 | 83690 | CRISPLD1 |
| -0.080886371 | 3.20137E-13 | 340562 | SATL1 |
| -0.08095713 | 3.053E-13 | 158228 | FAM201A |
| -0.080985084 | 2.99626E-13 | 5239 | PGM5 |
| -0.081018612 | 2.92958E-13 | 5238 | PGM3 |
| -0.081019633 | 2.92755E-13 | 5545 | PRB4 |
| -0.081054643 | 2.85954E-13 | 51252 | FAM178B |
| -0.081072286 | 2.82585E-13 | 9129 | PRPF3 |
| -0.081141934 | 2.6966E-13 | 653 | BMP5 |
| -0.081152335 | 2.6778E-13 | 121441 | NEDD1 |
| -0.081383944 | 2.29107E-13 | 85302 | FBF1 |
| -0.081409484 | 2.25194E-13 | 83594 | NUDT12 |
| -0.081417374 | 2.23998E-13 | 5562 | PRKAA1 |
| -0.081423782 | 2.23032E-13 | 51588 | PIAS4 |
| -0.081430376 | 2.22042E-13 | 154796 | AMOT |
| -0.081480712 | 2.14625E-13 | 134492 | NUDCD2 |
| -0.081602924 | 1.97613E-13 | 25900 | IFFO1 |
| -0.081607662 | 1.96981E-13 | 6917 | TCEA1P2 |
| -0.081638493 | 1.92916E-13 | 71 | ACTG1 |
| -0.081670158 | 1.88827E-13 | 4121 | MAN1A1 |
| -0.081704333 | 1.84509E-13 | 83548 | COG3 |
| -0.081732377 | 1.81039E-13 | 51300 | TIMMDC1 |
| -0.081753179 | 1.78505E-13 | 642 | BLMH |
| -0.081753738 | 1.78438E-13 | 5813 | PURA |
| -0.08177714 | 1.75631E-13 | 253039 | RP11-27I1.2 |
| -0.081803232 | 1.72553E-13 | 200316 | APOBEC3F |
| -0.081832856 | 1.69121E-13 | 59351 | PBOV1 |
| -0.081881426 | 1.63642E-13 | 10541 | ANP32B |
| -0.081896193 | 1.6201E-13 | 348093 | RBPMS2 |

| region-wise, subcortex | | | | | |
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| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.124581724 | 0.467630595 | 0.527 | 1 | 375295 | LOC375295 |
| -0.124839127 | 0.466705143 | 0.503 | 1 | 2208 | FCER2 |
| -0.124839127 | 0.466705143 | 0.502 | 1 | 3030 | HADHA |
| -0.124839127 | 0.466705143 | 0.513 | 1 | 4478 | MSN |
| -0.124839127 | 0.466705143 | 0.515 | 1 | 8312 | AXIN1 |
| -0.124839127 | 0.466705143 | 0.506 | 1 | 29110 | TBK1 |
| -0.124839127 | 0.466705143 | 0.521 | 1 | 79673 | ZNF329 |
| -0.12509653 | 0.465780675 | 0.499 | 1 | 4678 | NASP |
| -0.12509653 | 0.465780675 | 0.501 | 1 | 8821 | INPP4B |
| -0.12509653 | 0.465780675 | 0.521 | 1 | 8836 | GGH |
| -0.12509653 | 0.465780675 | 0.503 | 1 | 9258 | MFHAS1 |
| -0.12509653 | 0.465780675 | 0.491 | 1 | 11018 | TMED1 |
| -0.12509653 | 0.465780675 | 0.514 | 1 | 26146 | TRAF3IP1 |
| -0.12509653 | 0.465780675 | 0.49 | 1 | 29940 | DSE |
| -0.12509653 | 0.465780675 | 0.501 | 1 | 55661 | DDX27 |
| -0.12509653 | 0.465780675 | 0.493 | 1 | 84912 | SLC35B4 |
| -0.12509653 | 0.465780675 | 0.496 | 1 | 123745 | PLA2G4E |
| -0.125353917 | 0.464857221 | 0.501 | 1 | 335 | APOA1 |
| -0.125353917 | 0.464857221 | 0.501 | 1 | 9844 | ELMO1 |
| -0.125353917 | 0.464857221 | 0.493 | 1 | 51389 | RWDD1 |
| -0.125353917 | 0.464857221 | 0.506 | 1 | 79874 | RABEP2 |
| -0.125353917 | 0.464857221 | 0.517 | 1 | 116840 | CNTROB |
| -0.125353917 | 0.464857221 | 0.525 | 1 | 353141 | LCE2D |
| -0.125353917 | 0.464857221 | 0.528 | 1 | 389677 | RBM12B |
| -0.12561132 | 0.463934183 | 0.494 | 1 | 5609 | MAP2K7 |
| -0.12561132 | 0.463934183 | 0.477 | 1 | 23347 | AP001011.3 |
| -0.12561132 | 0.463934183 | 0.474 | 1 | 54838 | C10orf26 |
| -0.12561132 | 0.463934183 | 0.471 | 1 | 55223 | TRIM62 |
| -0.12561132 | 0.463934183 | 0.518 | 1 | 83604 | TMEM47 |
| -0.12561132 | 0.463934183 | 0.49 | 1 | 84333 | PCGF5 |
| -0.125868723 | 0.463012695 | 0.481 | 1 | 3782 | KCNN3 |
| -0.125868723 | 0.463012695 | 0.525 | 1 | 4190 | MDH1 |
| -0.125868723 | 0.463012695 | 0.471 | 1 | 5193 | PEX12 |
| -0.125868723 | 0.463012695 | 0.52 | 1 | 6869 | TACR1 |
| -0.125868723 | 0.463012695 | 0.493 | 1 | 6991 | TCTE3 |
| -0.125868723 | 0.463012695 | 0.494 | 1 | 9994 | CASP8AP2 |
| -0.125868723 | 0.463012695 | 0.512 | 1 | 347344 | ZNF81 |
| -0.125868723 | 0.463012695 | 0.493 | 1 | 407835 | LOC407835 |
| -0.126126125 | 0.462092161 | 0.514 | 1 | 1814 | DRD3 |
| -0.126126125 | 0.462092161 | 0.495 | 1 | 6928 | HNF1B |
| -0.126126125 | 0.462092161 | 0.508 | 1 | 9731 | KIAA0562 |
| -0.126126125 | 0.462092161 | 0.476 | 1 | 51014 | TMED7 |
| -0.126126125 | 0.462092161 | 0.518 | 1 | 55287 | TMEM40 |
| -0.126126125 | 0.462092161 | 0.527 | 1 | 64446 | DNAI2 |
| -0.126383528 | 0.461172581 | 0.478 | 1 | 1933 | EEF1B2 |
| -0.126383528 | 0.461172581 | 0.522 | 1 | 8780 | RIOK3 |
| -0.126383528 | 0.461172581 | 0.479 | 1 | 8872 | CDC123 |
| -0.126383528 | 0.461172581 | 0.496 | 1 | 10848 | PPP1R13L |
| -0.126383528 | 0.461172581 | 0.527 | 1 | 162427 | FAM134C |
| -0.126640916 | 0.460254073 | 0.46 | 1 | 747 | DAGLA |
| -0.126640916 | 0.460254073 | 0.512 | 1 | 1041 | CDSN |
| -0.126640916 | 0.460254073 | 0.486 | 1 | 22929 | SEPHS1 |
| -0.126640916 | 0.460254073 | 0.515 | 1 | 51021 | MRPS16 |
| -0.126640916 | 0.460254073 | 0.499 | 1 | 126661 | RP11-291L19.1 |
| -0.126898319 | 0.459336072 | 0.484 | 1 | 3181 | HNRNPA2B1 |
| -0.126898319 | 0.459336072 | 0.493 | 1 | 9350 | CER1 |
| -0.126898319 | 0.459336072 | 0.498 | 1 | 25803 | SPDEF |
| -0.126898319 | 0.459336072 | 0.475 | 1 | 51082 | POLR1D |
| -0.126898319 | 0.459336072 | 0.499 | 1 | 54629 | FAM63B |
| -0.126898319 | 0.459336072 | 0.494 | 1 | 79651 | RHBDF2 |
| -0.126898319 | 0.459336072 | 0.512 | 1 | 152206 | CCDC13 |
| -0.127155721 | 0.458419472 | 0.509 | 1 | 241 | ALOX5AP |
| -0.127155721 | 0.458419472 | 0.492 | 1 | 1610 | DAO |
| -0.127155721 | 0.458419472 | 0.48 | 1 | 11012 | KLK11 |
| -0.127155721 | 0.458419472 | 0.489 | 1 | 25962 | KIAA1429 |
| -0.127155721 | 0.458419472 | 0.513 | 1 | 51230 | PHF20 |
| -0.127155721 | 0.458419472 | 0.496 | 1 | 51554 | CCRL1 |
| -0.127155721 | 0.458419472 | 0.477 | 1 | 56256 | SERTAD4 |
| -0.127155721 | 0.458419472 | 0.522 | 1 | 64114 | TMBIM1 |
| -0.127155721 | 0.458419472 | 0.467 | 1 | 642661 | LOC642661 |
| -0.127155721 | 0.458419472 | 0.485 | 1 | 100192378 | RP11-65D13.1 |
| -0.127413124 | 0.457503915 | 0.509 | 1 | 4744 | NEFH |
| -0.127413124 | 0.457503915 | 0.53 | 1 | 83897 | KRTAP3-2 |
| -0.127413124 | 0.457503915 | 0.498 | 1 | 93550 | ANUBL1 |
| -0.127413124 | 0.457503915 | 0.483 | 1 | 114803 | MYSM1 |
| -0.127670527 | 0.456589252 | 0.508 | 1 | 7403 | KDM6A |
| -0.127670527 | 0.456589252 | 0.49 | 1 | 8202 | NCOA3 |
| -0.127670527 | 0.456589252 | 0.489 | 1 | 51267 | CLEC1A |
| -0.127670527 | 0.456589252 | 0.463 | 1 | 54541 | DDIT4 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.081928045 | 1.58545E-13 | 3131 | HLF |
| -0.081937335 | 1.57548E-13 | 5211 | PFKL |
| -0.081974946 | 1.53576E-13 | 64768 | IPPK |
| -0.082020544 | 1.48892E-13 | 283514 | SIAH3 |
| -0.082026951 | 1.48244E-13 | 728533 | LOC728533 |
| -0.082047194 | 1.46218E-13 | 1019 | CDK4 |
| -0.082091957 | 1.41835E-13 | 100133161 | LOC100133161 |
| -0.082110435 | 1.40063E-13 | 285093 | CXXC11 |
| -0.082156681 | 1.35724E-13 | 6136 | RPL12 |
| -0.082171172 | 1.34392E-13 | 100287596 | DDX11L5 |
| -0.0823166 | 1.21713E-13 | 220323 | OAF |
| -0.082356997 | 1.18405E-13 | 23753 | SDF2L1 |
| -0.082402781 | 1.14763E-13 | 404203 | SPINK6 |
| -0.08242479 | 1.13051E-13 | 440434 | AC183087.2 |
| -0.082469918 | 1.09619E-13 | 5243 | ABCB1 |
| -0.082555912 | 1.03361E-13 | 9446 | GSTO1 |
| -0.082573839 | 1.02102E-13 | 80095 | ZNF606 |
| -0.08259882 | 1.00371E-13 | 152756 | C4ORF39 |
| -0.082626581 | 9.84826E-14 | 55695 | NSUN5 |
| -0.082666792 | 9.58084E-14 | 26353 | HSPB8 |
| -0.082679145 | 9.50013E-14 | 54407 | SLC38A2 |
| -0.082698368 | 9.3758E-14 | 149420 | PDIK1L |
| -0.082716756 | 9.25844E-14 | 90634 | N4BP2L1 |
| -0.082726136 | 9.19913E-14 | 374946 | C1orf187 |
| -0.082808323 | 8.69507E-14 | 51181 | DCXR |
| -0.082833394 | 8.54676E-14 | 60491 | NIF3L1 |
| -0.082852341 | 8.43641E-14 | 80054 | LOC80054 |
| -0.08288949 | 8.22397E-14 | 10195 | ALG3 |
| -0.082945578 | 7.91315E-14 | 2822 | GPLD1 |
| -0.083023958 | 7.4981E-14 | 5663 | PSEN1 |
| -0.08305683 | 7.33044E-14 | 5557 | PRIM1 |
| -0.083060637 | 7.3113E-14 | 54894 | RNF43 |
| -0.083100297 | 7.11445E-14 | 8675 | STX16 |
| -0.083174028 | 6.76224E-14 | 4670 | HNRNPM |
| -0.083179228 | 6.73803E-14 | 90333 | ZNF468 |
| -0.083260395 | 6.37141E-14 | 122809 | SOCS4 |
| -0.083267733 | 6.33924E-14 | 151534 | LBX2-AS1 |
| -0.083291784 | 6.23494E-14 | 9907 | AP5Z1 |
| -0.083373688 | 5.89224E-14 | 10282 | BET1 |
| -0.08339709 | 5.79777E-14 | 6427 | SFRS2 |
| -0.083468415 | 5.51895E-14 | 254122 | SNX32 |
| -0.08351355 | 5.3493E-14 | 1544 | CYP1A2 |
| -0.083582081 | 5.10157E-14 | 9147 | SDCCAG1 |
| -0.083591744 | 5.06758E-14 | 9423 | NTN1 |
| -0.083630376 | 4.9338E-14 | 8991 | SELENBP1 |
| -0.083644956 | 4.88421E-14 | 28957 | MRPS28 |
| -0.083680332 | 4.76594E-14 | 27241 | BBS9 |
| -0.083688229 | 4.73995E-14 | 10655 | DMRT2 |
| -0.083717391 | 4.64507E-14 | 6282 | S100A11 |
| -0.083740883 | 4.57002E-14 | 8635 | RNASET2 |
| -0.083775617 | 4.46124E-14 | 1120 | CHKB |
| -0.083832823 | 4.28754E-14 | 283899 | INO80E |
| -0.083885476 | 4.13361E-14 | 7652 | ZNF99 |
| -0.083894759 | 4.10701E-14 | 51645 | PPIL1 |
| -0.08390303 | 4.08349E-14 | 255488 | RNF144B |
| -0.083926059 | 4.01866E-14 | 10893 | MMP24 |
| -0.084019758 | 3.76515E-14 | 57335 | ZNF286 |
| -0.084056072 | 3.67118E-14 | 23370 | ARHGEF18 |
| -0.084096186 | 3.57007E-14 | 23291 | FBXW11 |
| -0.084112532 | 3.52964E-14 | 253558 | LCLAT1 |
| -0.084131941 | 3.48224E-14 | 23609 | MKRN2 |
| -0.084135562 | 3.47347E-14 | 10155 | TRIM28 |
| -0.084156834 | 3.42235E-14 | 441052 | LOC441052 |
| -0.084158964 | 3.41728E-14 | 145781 | GCOM1 |
| -0.084172711 | 3.3847E-14 | 6880 | TAF9 |
| -0.084192865 | 3.33749E-14 | 7673 | ZNF222 |
| -0.084253691 | 3.19884E-14 | 150776 | AC093838.4 |
| -0.084262051 | 3.18024E-14 | 89910 | UBE3B |
| -0.084294461 | 3.10911E-14 | 79830 | ZMYM1 |
| -0.084357701 | 2.97481E-14 | 55317 | C20orf29 |
| -0.084360674 | 2.96863E-14 | 441161 | OOEP |
| -0.084367447 | 2.95461E-14 | 7287 | TULP1 |
| -0.084370792 | 2.94772E-14 | 1908 | EDN3 |
| -0.084425122 | 2.83789E-14 | 51268 | PIPOX |
| -0.084450938 | 2.78713E-14 | 338596 | ST8SIA6 |
| -0.084474713 | 2.74116E-14 | 92369 | SPSB4 |
| -0.084478147 | 2.73458E-14 | 55833 | UBAP2 |
| -0.084514923 | 2.66511E-14 | 10741 | RBBP9 |
| -0.084557921 | 2.58609E-14 | 92305 | TMEM129 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.127670527 | 0.456589252 | 0.501 | 1 | 55624 | POMGNT1 |
| -0.127670527 | 0.456589252 | 0.49 | 1 | 57224 | NHSL1 |
| -0.127670527 | 0.456589252 | 0.466 | 1 | 64772 | ENGASE |
| -0.127670527 | 0.456589252 | 0.494 | 1 | 64799 | IQCH |
| -0.127670527 | 0.456589252 | 0.493 | 1 | 92359 | CRB3 |
| -0.127670527 | 0.456589252 | 0.513 | 1 | 440730 | TRIM67 |
| -0.127927929 | 0.455675244 | 0.481 | 1 | 9790 | BMS1 |
| -0.127927929 | 0.455675244 | 0.486 | 1 | 51083 | GAL |
| -0.127927929 | 0.455675244 | 0.5 | 1 | 55037 | PTCD3 |
| -0.127927929 | 0.455675244 | 0.482 | 1 | 55325 | UFSP2 |
| -0.127927929 | 0.455675244 | 0.52 | 1 | 81502 | HM13 |
| -0.127927929 | 0.455675244 | 0.514 | 1 | 83480 | PUS3 |
| -0.127927929 | 0.455675244 | 0.483 | 1 | 653361 | NCF1 |
| -0.128185332 | 0.454762697 | 0.511 | 1 | 8563 | THOC5 |
| -0.128185332 | 0.454762697 | 0.501 | 1 | 9816 | URB2 |
| -0.128185332 | 0.454762697 | 0.504 | 1 | 53371 | NUP54 |
| -0.128185332 | 0.454762697 | 0.479 | 1 | 83858 | ATAD3B |
| -0.12844272 | 0.453851044 | 0.503 | 1 | 5573 | PRKAR1A |
| -0.12844272 | 0.453851044 | 0.496 | 1 | 5738 | PTGFRN |
| -0.12844272 | 0.453851044 | 0.525 | 1 | 10298 | PAK4 |
| -0.12844272 | 0.453851044 | 0.506 | 1 | 23181 | DIP2A |
| -0.12844272 | 0.453851044 | 0.485 | 1 | 23478 | SEC11B |
| -0.12844272 | 0.453851044 | 0.5 | 1 | 54795 | TRPM4 |
| -0.12844272 | 0.453851044 | 0.477 | 1 | 126755 | LRRC38 |
| -0.12844272 | 0.453851044 | 0.485 | 1 | 203076 | C8orf74 |
| -0.128700122 | 0.452940434 | 0.469 | 1 | 1051 | CEBPB |
| -0.128700122 | 0.452940434 | 0.477 | 1 | 7145 | TNS1 |
| -0.128700122 | 0.452940434 | 0.464 | 1 | 8722 | CTSF |
| -0.128700122 | 0.452940434 | 0.504 | 1 | 11277 | TREX1 |
| -0.128700122 | 0.452940434 | 0.472 | 1 | 170680 | PSORS1C2 |
| -0.128700122 | 0.452940434 | 0.508 | 1 | 374618 | TEX9 |
| -0.128957525 | 0.45203042 | 0.495 | 1 | 5519 | PPP2R1B |
| -0.128957525 | 0.45203042 | 0.494 | 1 | 9440 | MED17 |
| -0.128957525 | 0.45203042 | 0.486 | 1 | 60680 | BRUNOL5 |
| -0.128957525 | 0.45203042 | 0.506 | 1 | 85455 | DISP2 |
| -0.128957525 | 0.45203042 | 0.491 | 1 | 158234 | RG9MTD3 |
| -0.128957525 | 0.45203042 | 0.498 | 1 | 284439 | SLC25A42 |
| -0.129214913 | 0.451121837 | 0.46 | 1 | 5357 | PLS1 |
| -0.129214913 | 0.451121837 | 0.491 | 1 | 84002 | B3GNT5 |
| -0.12947233 | 0.450214207 | 0.517 | 1 | 4166 | CHST6 |
| -0.12947233 | 0.450214207 | 0.495 | 1 | 5141 | PDE4A |
| -0.12947233 | 0.450214207 | 0.477 | 1 | 5570 | PKIB |
| -0.12947233 | 0.450214207 | 0.488 | 1 | 55260 | TMEM143 |
| -0.12947233 | 0.450214207 | 0.489 | 1 | 56964 | WDR93 |
| -0.12947233 | 0.450214207 | 0.528 | 1 | 60491 | NIF3L1 |
| -0.12947233 | 0.450214207 | 0.479 | 1 | 79701 | C17orf101 |
| -0.12947233 | 0.450214207 | 0.507 | 1 | 79777 | ACBD4 |
| -0.12947233 | 0.450214207 | 0.504 | 1 | 246330 | PELI3 |
| -0.12947233 | 0.450214207 | 0.498 | 1 | 283659 | PRTG |
| -0.129729733 | 0.449307591 | 0.474 | 1 | 2318 | FLNC |
| -0.129729733 | 0.449307591 | 0.458 | 1 | 6642 | SNX1 |
| -0.129729733 | 0.449307591 | 0.48 | 1 | 9706 | ULK2 |
| -0.129729733 | 0.449307591 | 0.483 | 1 | 54974 | THG1L |
| -0.129729733 | 0.449307591 | 0.492 | 1 | 84279 | C2orf7 |
| -0.129729733 | 0.449307591 | 0.479 | 1 | 90390 | MED30 |
| -0.129729733 | 0.449307591 | 0.456 | 1 | 285195 | SLC9A9 |
| -0.129729733 | 0.449307591 | 0.5 | 1 | 342527 | SMTNL2 |
| -0.129987136 | 0.448401988 | 0.466 | 1 | 1603 | DAD1 |
| -0.129987136 | 0.448401988 | 0.481 | 1 | 5134 | PDCD2 |
| -0.129987136 | 0.448401988 | 0.507 | 1 | 220107 | DLEU7 |
| -0.129987136 | 0.448401988 | 0.501 | 1 | 253868 | C20orf200 |
| -0.129987136 | 0.448401988 | 0.478 | 1 | 283420 | CLEC9A |
| -0.130244538 | 0.447496951 | 0.511 | 1 | 2246 | FGF1 |
| -0.130244538 | 0.447496951 | 0.48 | 1 | 27097 | TAF5L |
| -0.130244538 | 0.447496951 | 0.48 | 1 | 55027 | HEATR3 |
| -0.130244538 | 0.447496951 | 0.487 | 1 | 63901 | FAM111A |
| -0.130244538 | 0.447496951 | 0.503 | 1 | 79048 | SECISBP2 |
| -0.130244538 | 0.447496951 | 0.479 | 1 | 79870 | BAALC |
| -0.130244538 | 0.447496951 | 0.458 | 1 | 84888 | AC012100.1 |
| -0.130244538 | 0.447496951 | 0.477 | 1 | 92249 | LOC92249 |
| -0.130244538 | 0.447496951 | 0.465 | 1 | 245936 | DEFB123 |
| -0.130244538 | 0.447496951 | 0.493 | 1 | 440307 | TTLL13 |
| -0.130501941 | 0.446593404 | 0.451 | 1 | 1500 | CTNND1 |
| -0.130501941 | 0.446593404 | 0.497 | 1 | 3060 | HCRT |
| -0.130501941 | 0.446593404 | 0.485 | 1 | 9656 | MDC1 |
| -0.130501941 | 0.446593404 | 0.457 | 1 | 11016 | ATF7 |
| -0.130501941 | 0.446593404 | 0.466 | 1 | 55152 | DALRD3 |
| -0.130501941 | 0.446593404 | 0.487 | 1 | 55216 | C11orf57 |
| -0.130501941 | 0.446593404 | 0.494 | 1 | 57085 | AGTRAP |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.084586337 | 2.53515E-14 | 8722 | CTSF |
| -0.084603518 | 2.5048E-14 | 4602 | MYB |
| -0.084661558 | 2.40496E-14 | 3036 | HAS1 |
| -0.084756188 | 2.25053E-14 | 869 | CBLN1 |
| -0.084798627 | 2.18446E-14 | 54939 | COMMD4 |
| -0.084855929 | 2.09828E-14 | 690 | BTF3P11 |
| -0.084966809 | 1.94093E-14 | 2045 | EPHA7 |
| -0.084979899 | 1.92314E-14 | 648791 | PPP1R3G |
| -0.084996521 | 1.90078E-14 | 55096 | EBLN2 |
| -0.085006833 | 1.88703E-14 | 8358 | HIST1H3B |
| -0.085025966 | 1.86178E-14 | 10738 | RFPL3 |
| -0.085055679 | 1.82324E-14 | 115939 | C16orf42 |
| -0.08510109 | 1.76584E-14 | 6301 | SARS |
| -0.085158207 | 1.69616E-14 | 11276 | AP1GBP1 |
| -0.085202225 | 1.64431E-14 | 140578 | CHODL |
| -0.085238256 | 1.60304E-14 | 60673 | C12orf44 |
| -0.085245594 | 1.59475E-14 | 387066 | SNHG5 |
| -0.085286267 | 1.54962E-14 | 84502 | JPH4 |
| -0.085300289 | 1.53435E-14 | 9635 | CLCA2 |
| -0.085307717 | 1.52632E-14 | 54861 | SNRK |
| -0.085332975 | 1.49932E-14 | 1573 | CYP2J2 |
| -0.08539167 | 1.4384E-14 | 9758 | FRMPD4 |
| -0.085450731 | 1.37956E-14 | 54800 | KLHL24 |
| -0.085472278 | 1.35869E-14 | 2582 | GALE |
| -0.085606374 | 1.2356E-14 | 9696 | CROCC |
| -0.085755706 | 1.11141E-14 | 1774 | DNASE1L1 |
| -0.085757472 | 1.11002E-14 | 90736 | FAM104B |
| -0.085817277 | 1.06386E-14 | 1514 | CTSL1 |
| -0.085844301 | 1.04362E-14 | 9798 | IST1 |
| -0.085870951 | 1.02404E-14 | 83985 | SPNS1 |
| -0.085905217 | 9.99393E-15 | 283985 | FADS6 |
| -0.085955828 | 9.64053E-15 | 26037 | SIPA1L1 |
| -0.085961126 | 9.60424E-15 | 23189 | KANK1 |
| -0.086021394 | 9.20094E-15 | 65109 | UPF3B |
| -0.086035229 | 9.11074E-15 | 81532 | MOB2 |
| -0.086118534 | 8.58565E-15 | 1910 | EDNRB |
| -0.086126611 | 8.53636E-15 | 403253 | AC134982.1 |
| -0.086156234 | 8.35791E-15 | 8671 | SLC4A4 |
| -0.086176574 | 8.23755E-15 | 55778 | ZNF839 |
| -0.086204432 | 8.07543E-15 | 11236 | RNF139 |
| -0.086206846 | 8.06148E-15 | 11224 | RPL35 |
| -0.086241394 | 7.86518E-15 | 10765 | KDM5B |
| -0.086261362 | 7.7538E-15 | 64756 | ATPAF1 |
| -0.08627557 | 7.67553E-15 | 100129566 | LOC100129566 |
| -0.086314574 | 7.46464E-15 | 10240 | MRPS31 |
| -0.086352088 | 7.26719E-15 | 5332 | PLCB4 |
| -0.086363137 | 7.21002E-15 | 643630 | LOC643630 |
| -0.086498633 | 6.54389E-15 | 442421 | PTGER4P2 |
| -0.086537726 | 6.36322E-15 | 51287 | CHCHD8 |
| -0.08659029 | 6.12799E-15 | 29080 | CCDC59 |
| -0.086618803 | 6.00404E-15 | 5198 | PFAS |
| -0.086639047 | 5.91749E-15 | 51389 | RWDD1 |
| -0.08667136 | 5.78195E-15 | 7867 | MAPKAPK3 |
| -0.086759679 | 5.42677E-15 | 121260 | SLC15A4 |
| -0.086825147 | 5.17746E-15 | 4125 | MAN2B1 |
| -0.086837403 | 5.13206E-15 | 54465 | ETAA1 |
| -0.086850226 | 5.08496E-15 | 152217 | LOC152217 |
| -0.087013111 | 4.52262E-15 | 6447 | SCG5 |
| -0.08702147 | 4.49546E-15 | 285220 | EPHA6 |
| -0.087050997 | 4.40084E-15 | 124540 | MSI2 |
| -0.087061308 | 4.36828E-15 | 79142 | PHF23 |
| -0.087087214 | 4.28748E-15 | 6546 | SLC8A1 |
| -0.087091208 | 4.27515E-15 | 2954 | GSTZ1 |
| -0.087106995 | 4.22676E-15 | 24148 | PRPF6 |
| -0.087118886 | 4.19068E-15 | 79092 | CARD14 |
| -0.087128267 | 4.16243E-15 | 81618 | ITM2C |
| -0.087130398 | 4.15604E-15 | 25894 | PLEKHG4 |
| -0.087181754 | 4.00488E-15 | 119016 | AGAP4 |
| -0.087195128 | 3.96643E-15 | 9086 | EIF1AY |
| -0.087216116 | 3.9068E-15 | 84920 | ALG10 |
| -0.087341301 | 3.56902E-15 | 102 | ADAM10 |
| -0.087404817 | 3.4088E-15 | 23149 | FCHO1 |
| -0.087419584 | 3.37257E-15 | 147407 | MCART2 |
| -0.087511055 | 3.1565E-15 | 11112 | HIBADH |
| -0.08752387 | 3.12734E-15 | 115584 | SLC5A11 |
| -0.087546349 | 3.07683E-15 | 149840 | C20orf196 |
| -0.087560833 | 3.04471E-15 | 441294 | CTAGE15P |
| -0.087567151 | 3.03079E-15 | 140699 | C20orf132 |
| -0.087716386 | 2.71986E-15 | 5019 | OXCT1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.130501941 | 0.446593404 | 0.487 | 1 | 64093 | SMOC1 |
| -0.130501941 | 0.446593404 | 0.479 | 1 | 84296 | GINS4 |
| -0.130501941 | 0.446593404 | 0.496 | 1 | 125336 | LOXHD1 |
| -0.130501941 | 0.446593404 | 0.486 | 1 | 221458 | KIF6 |
| -0.130501941 | 0.446593404 | 0.469 | 1 | 727982 | AC022311.1 |
| -0.130759329 | 0.445690751 | 0.5 | 1 | 6385 | SDC4 |
| -0.130759329 | 0.445690751 | 0.472 | 1 | 51421 | AMOTL2 |
| -0.130759329 | 0.445690751 | 0.491 | 1 | 113655 | MFSD3 |
| -0.130759329 | 0.445690751 | 0.494 | 1 | 115362 | GBP5 |
| -0.130759329 | 0.445690751 | 0.498 | 1 | 441425 | ANKRD20A1 |
| -0.130759329 | 0.445690751 | 0.449 | 1 | 728642 | CDC2L2 |
| -0.131016731 | 0.444789141 | 0.479 | 1 | 4296 | MAP3K11 |
| -0.131016731 | 0.444789141 | 0.453 | 1 | 6658 | SOX3 |
| -0.131016731 | 0.444789141 | 0.492 | 1 | 10169 | SERF2 |
| -0.131016731 | 0.444789141 | 0.463 | 1 | 23137 | SMC5 |
| -0.131016731 | 0.444789141 | 0.486 | 1 | 54682 | MANSC1 |
| -0.131016731 | 0.444789141 | 0.511 | 1 | 79031 | PDCL3 |
| -0.131016731 | 0.444789141 | 0.501 | 1 | 80821 | DDHD1 |
| -0.131016731 | 0.444789141 | 0.491 | 1 | 90933 | TRIM41 |
| -0.131016731 | 0.444789141 | 0.48 | 1 | 116984 | ARAP2 |
| -0.131016731 | 0.444789141 | 0.485 | 1 | 728532 | LOC728532 |
| -0.131274134 | 0.443888187 | 0.478 | 1 | 663 | BNIP2 |
| -0.131274134 | 0.443888187 | 0.473 | 1 | 2329 | FMO4 |
| -0.131274134 | 0.443888187 | 0.492 | 1 | 5362 | PLXNA2 |
| -0.131274134 | 0.443888187 | 0.505 | 1 | 9255 | AIMP1 |
| -0.131274134 | 0.443888187 | 0.47 | 1 | 9719 | ADAMTSL2 |
| -0.131274134 | 0.443888187 | 0.505 | 1 | 54067 | C21orf49 |
| -0.131274134 | 0.443888187 | 0.487 | 1 | 93129 | ORAI3 |
| -0.131274134 | 0.443888187 | 0.441 | 1 | 168451 | THAP5 |
| -0.131274134 | 0.443888187 | 0.471 | 1 | 440311 | LOC440311 |
| -0.131531537 | 0.442988575 | 0.451 | 1 | 1232 | CCR3 |
| -0.131531537 | 0.442988575 | 0.47 | 1 | 8502 | PK4P |
| -0.131531537 | 0.442988575 | 0.506 | 1 | 10043 | TOM1 |
| -0.131531537 | 0.442988575 | 0.503 | 1 | 23460 | ABCA6 |
| -0.131531537 | 0.442988575 | 0.464 | 1 | 51053 | GMNN |
| -0.131531537 | 0.442988575 | 0.469 | 1 | 79166 | LILRP2 |
| -0.131788939 | 0.442090064 | 0.489 | 1 | 4928 | NUP98 |
| -0.131788939 | 0.442090064 | 0.454 | 1 | 7812 | CSDE1 |
| -0.131788939 | 0.442090064 | 0.493 | 1 | 23516 | SLC39A14 |
| -0.131788939 | 0.442090064 | 0.483 | 1 | 51692 | CPSF3 |
| -0.131788939 | 0.442090064 | 0.456 | 1 | 55898 | UNC45A |
| -0.131788939 | 0.442090064 | 0.463 | 1 | 79713 | TMEM149 |
| -0.131788939 | 0.442090064 | 0.5 | 1 | 114793 | FMNL2 |
| -0.131788939 | 0.442090064 | 0.48 | 1 | 171558 | PTCRA |
| -0.131788939 | 0.442090064 | 0.474 | 1 | 203427 | SLC25A43 |
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| -0.132046327 | 0.441192478 | 0.486 | 1 | 1805 | DPT |
| -0.132046327 | 0.441192478 | 0.488 | 1 | 5074 | PAWR |
| -0.132046327 | 0.441192478 | 0.482 | 1 | 9877 | ZC3H11A |
| -0.132046327 | 0.441192478 | 0.461 | 1 | 90624 | LYRM7 |
| -0.132046327 | 0.441192478 | 0.481 | 1 | 389791 | LOC389791 |
| -0.132046327 | 0.441192478 | 0.498 | 1 | 100286946 | LOC100286946 |
| -0.13230373 | 0.440295547 | 0.454 | 1 | 9282 | MED14 |
| -0.13230373 | 0.440295547 | 0.499 | 1 | 9448 | MAP4K4 |
| -0.13230373 | 0.440295547 | 0.471 | 1 | 54108 | CHRAC1 |
| -0.13230373 | 0.440295547 | 0.477 | 1 | 55356 | SLC22A15 |
| -0.13230373 | 0.440295547 | 0.508 | 1 | 83786 | FRMD8 |
| -0.13230373 | 0.440295547 | 0.463 | 1 | 83933 | HDAC10 |
| -0.13230373 | 0.440295547 | 0.476 | 1 | 326624 | RAB37 |
| -0.132561132 | 0.439399987 | 0.493 | 1 | 5565 | PRKAB2 |
| -0.132561132 | 0.439399987 | 0.499 | 1 | 7056 | THBD |
| -0.132561132 | 0.439399987 | 0.458 | 1 | 126017 | ZNF813 |
| -0.132561132 | 0.439399987 | 0.487 | 1 | 126147 | NTN5 |
| -0.132561132 | 0.439399987 | 0.457 | 1 | 401021 | LOC401021 |
| -0.132561132 | 0.439399987 | 0.451 | 1 | 441295 | OR2A9P |
| -0.132818535 | 0.438505441 | 0.477 | 1 | 1781 | DYNC1I2 |
| -0.132818535 | 0.438505441 | 0.478 | 1 | 2875 | GPT |
| -0.132818535 | 0.438505441 | 0.464 | 1 | 7462 | LAT2 |
| -0.132818535 | 0.438505441 | 0.48 | 1 | 9266 | CYTH2 |
| -0.132818535 | 0.438505441 | 0.469 | 1 | 23133 | PHF8 |
| -0.132818535 | 0.438505441 | 0.476 | 1 | 23247 | KIAA0556 |
| -0.132818535 | 0.438505441 | 0.472 | 1 | 51077 | FCF1 |
| -0.132818535 | 0.438505441 | 0.463 | 1 | 55343 | SLC35C1 |
| -0.132818535 | 0.438505441 | 0.497 | 1 | 79805 | VASH2 |
| -0.132818535 | 0.438505441 | 0.452 | 1 | 84366 | PRAC |
| -0.132818535 | 0.438505441 | 0.48 | 1 | 145501 | ISM2 |
| -0.132818535 | 0.438505441 | 0.497 | 1 | 153241 | CEP120 |
| -0.132818535 | 0.438505441 | 0.467 | 1 | 199990 | C1orf86 |
| -0.133075938 | 0.437611967 | 0.472 | 1 | 2245 | FGD1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.087730221 | 2.69269E-15 | 60494 | CCDC81 |
| -0.087760404 | 2.63431E-15 | 54979 | HRASLS2 |
| -0.087815471 | 2.531E-15 | 80217 | C10orf79 |
| -0.087976128 | 2.25185E-15 | 64779 | MTHFSD |
| -0.088014573 | 2.18969E-15 | 6904 | TBCD |
| -0.088024236 | 2.17433E-15 | 5128 | PCTK2 |
| -0.088056736 | 2.12346E-15 | 9447 | AIM2 |
| -0.088133447 | 2.00796E-15 | 80067 | C2orf37 |
| -0.088147745 | 1.98713E-15 | 51527 | C14orf129 |
| -0.088158332 | 1.97184E-15 | 9454 | HOMER3 |
| -0.088176906 | 1.94529E-15 | 5365 | PLXNB3 |
| -0.088242099 | 1.85489E-15 | 54856 | GON4L |
| -0.088254541 | 1.83812E-15 | 84232 | MAF1 |
| -0.088274047 | 1.81211E-15 | 144245 | ALG10B |
| -0.088340349 | 1.72641E-15 | 83552 | MFRP |
| -0.088348061 | 1.71671E-15 | 79840 | NHEJ1 |
| -0.088357441 | 1.70497E-15 | 205251 | LINC00116 |
| -0.088368863 | 1.69079E-15 | 54441 | STAG3L1 |
| -0.08841446 | 1.63533E-15 | 4489 | MT1A |
| -0.088484012 | 1.55416E-15 | 7103 | TSPAN8 |
| -0.088514753 | 1.51957E-15 | 728698 | EIF4A1P4 |
| -0.088549115 | 1.48179E-15 | 25981 | DNAH1 |
| -0.088558771 | 1.47135E-15 | 283458 | NME2P1 |
| -0.088599078 | 1.42851E-15 | 55338 | FLJ11292 |
| -0.088603906 | 1.42347E-15 | 10884 | MRPS30 |
| -0.08861319 | 1.41381E-15 | 3344 | FOXN2 |
| -0.088756301 | 1.27287E-15 | 11060 | WWP2 |
| -0.088779606 | 1.25126E-15 | 9 | NAT1 |
| -0.088780813 | 1.25015E-15 | 11178 | LZTS1 |
| -0.088853896 | 1.18479E-15 | 2306 | FOXD2 |
| -0.088878602 | 1.16345E-15 | 164045 | HFM1 |
| -0.08896032 | 1.09556E-15 | 55652 | SLC48A1 |
| -0.089029416 | 1.04121E-15 | 5682 | PSMA1 |
| -0.089082628 | 1.00118E-15 | 2683 | B4GALT1 |
| -0.089087918 | 9.97279E-16 | 10669 | CGREF1 |
| -0.089098506 | 9.89528E-16 | 3985 | LIMK2 |
| -0.089165375 | 9.41912E-16 | 55998 | NXF5 |
| -0.089167044 | 9.40755E-16 | 9053 | MAP7 |
| -0.089232609 | 8.96317E-16 | 116461 | TSEN15 |
| -0.089233443 | 8.95772E-16 | 152007 | GLIPR2 |
| -0.089305878 | 8.49104E-16 | 197135 | PATL2 |
| -0.089351103 | 8.21191E-16 | 7643 | ZNF90 |
| -0.089411654 | 7.85229E-16 | 56129 | PCDHB7 |
| -0.089422517 | 7.78943E-16 | 284340 | CXCL17 |
| -0.089432828 | 7.73024E-16 | 112574 | SNX18 |
| -0.08946839 | 7.52945E-16 | 728643 | RP11-314P12.3 |
| -0.089493185 | 7.39246E-16 | 81539 | SLC38A1 |
| -0.089558847 | 7.04157E-16 | 3735 | KARS |
| -0.089606389 | 6.7978E-16 | 201176 | SH3D20 |
| -0.089619949 | 6.72974E-16 | 79088 | ZNF426 |
| -0.089625798 | 6.70066E-16 | 51351 | ZNF117 |
| -0.089688115 | 6.39796E-16 | 55967 | NDUFA12 |
| -0.089696191 | 6.35972E-16 | 10617 | STAMBP |
| -0.089716256 | 6.26572E-16 | 22862 | FNDC3A |
| -0.089745596 | 6.13074E-16 | 440585 | FAM183A |
| -0.089787759 | 5.94172E-16 | 515 | ATP5F1 |
| -0.089809678 | 5.84574E-16 | 654502 | IQCJ |
| -0.089849979 | 5.67331E-16 | 84105 | PCBD2 |
| -0.08991573 | 5.40254E-16 | 645937 | LOC645937 |
| -0.089934304 | 5.3284E-16 | 55144 | LRRC8D |
| -0.089938574 | 5.31151E-16 | 5683 | PSMA2 |
| -0.089947492 | 5.27639E-16 | 9946 | CRYZL1 |
| -0.089985751 | 5.12825E-16 | 7431 | VIM |
| -0.090163127 | 4.49329E-16 | 2733 | GLE1 |
| -0.090195909 | 4.38473E-16 | 353144 | LCE3C |
| -0.0902467 | 4.22166E-16 | 83596 | BCL2L12 |
| -0.090293229 | 4.07747E-16 | 14 | AAMP |
| -0.09029945 | 4.05856E-16 | 7360 | UGP2 |
| -0.090369381 | 3.85191E-16 | 10224 | ZNF443 |
| -0.090373926 | 3.83884E-16 | 285605 | DTWD2 |
| -0.090376161 | 3.83243E-16 | 54776 | LENG3 |
| -0.09037783 | 3.82766E-16 | 4697 | NDUFA4 |
| -0.090390459 | 3.79168E-16 | 5521 | PPP2R2B |
| -0.090491593 | 3.51535E-16 | 1345 | COX6C |
| -0.090587333 | 3.27212E-16 | 123169 | LEO1 |
| -0.090590775 | 3.26369E-16 | 9367 | RAB9A |
| -0.090639897 | 3.14569E-16 | 92689 | FAM114A1 |
| -0.090705924 | 2.99372E-16 | 8544 | PIR |
| -0.090721995 | 2.95781E-16 | 23307 | FKBP15 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.133075938 | 0.437611967 | 0.472 | 1 | 7083 | TK1 |
| -0.133075938 | 0.437611967 | 0.442 | 1 | 8340 | HIST1H2BL |
| -0.133075938 | 0.437611967 | 0.455 | 1 | 10550 | ARL6IP5 |
| -0.133075938 | 0.437611967 | 0.471 | 1 | 54885 | TBC1D8B |
| -0.133075938 | 0.437611967 | 0.463 | 1 | 84218 | TBC1D3 |
| -0.133075938 | 0.437611967 | 0.478 | 1 | 113251 | LARP4 |
| -0.133075938 | 0.437611967 | 0.462 | 1 | 440567 | UQCRHL |
| -0.133075938 | 0.437611967 | 0.484 | 1 | 100129794 | RP11-537P22.1 |
| -0.133333325 | 0.436719447 | 0.474 | 1 | 5989 | RFX1 |
| -0.133333325 | 0.436719447 | 0.479 | 1 | 7307 | U2AF1 |
| -0.133333325 | 0.436719447 | 0.49 | 1 | 9412 | MED21 |
| -0.133333325 | 0.436719447 | 0.46 | 1 | 9543 | IGDCC3 |
| -0.133333325 | 0.436719447 | 0.461 | 1 | 9694 | TTC35 |
| -0.133333325 | 0.436719447 | 0.48 | 1 | 9897 | KIAA0196 |
| -0.133333325 | 0.436719447 | 0.445 | 1 | 11086 | ADAM29 |
| -0.133333325 | 0.436719447 | 0.449 | 1 | 55839 | CENPN |
| -0.133333325 | 0.436719447 | 0.448 | 1 | 84081 | CCDC55 |
| -0.133590728 | 0.435827583 | 0.464 | 1 | 2288 | FKBP4 |
| -0.133590728 | 0.435827583 | 0.457 | 1 | 7352 | UCP3 |
| -0.133590728 | 0.435827583 | 0.474 | 1 | 9487 | PIGL |
| -0.133590728 | 0.435827583 | 0.459 | 1 | 10346 | TRIM22 |
| -0.133848131 | 0.434937119 | 0.448 | 1 | 2052 | EPHX1 |
| -0.133848131 | 0.434937119 | 0.498 | 1 | 10735 | STAG2 |
| -0.133848131 | 0.434937119 | 0.451 | 1 | 60489 | APOBEC3G |
| -0.133848131 | 0.434937119 | 0.501 | 1 | 64866 | CDCP1 |
| -0.133848131 | 0.434937119 | 0.455 | 1 | 79901 | CYBRD1 |
| -0.133848131 | 0.434937119 | 0.5 | 1 | 245934 | DEFB121 |
| -0.133848131 | 0.434937119 | 0.476 | 1 | 339005 | WHAMML1 |
| -0.134105533 | 0.434047639 | 0.461 | 1 | 5817 | PVR |
| -0.134105533 | 0.434047639 | 0.466 | 1 | 8074 | FGF23 |
| -0.134105533 | 0.434047639 | 0.467 | 1 | 8557 | TCAP |
| -0.134105533 | 0.434047639 | 0.521 | 1 | 55672 | NBPF1 |
| -0.134105533 | 0.434047639 | 0.456 | 1 | 55762 | ZNF701 |
| -0.134105533 | 0.434047639 | 0.48 | 1 | 81556 | C15orf44 |
| -0.134105533 | 0.434047639 | 0.472 | 1 | 245939 | DEFB128 |
| -0.134105533 | 0.434047639 | 0.492 | 1 | 283576 | ZDHHC22 |
| -0.134105533 | 0.434047639 | 0.479 | 1 | 400750 | LOC400750 |
| -0.134362936 | 0.433159232 | 0.467 | 1 | 2519 | FUCA2 |
| -0.134362936 | 0.433159232 | 0.458 | 1 | 79892 | C10orf119 |
| -0.134362936 | 0.433159232 | 0.472 | 1 | 83596 | BCL2L12 |
| -0.134362936 | 0.433159232 | 0.501 | 1 | 171423 | PDIA3P |
| -0.134362936 | 0.433159232 | 0.457 | 1 | 254783 | OR6C74 |
| -0.134362936 | 0.433159232 | 0.473 | 1 | 388558 | ZNF808 |
| -0.134362936 | 0.433159232 | 0.477 | 1 | 399761 | BMS1P5 |
| -0.134620324 | 0.432271421 | 0.465 | 1 | 4010 | LMX1B |
| -0.134620324 | 0.432271421 | 0.461 | 1 | 10603 | SH2B2 |
| -0.134620324 | 0.432271421 | 0.48 | 1 | 10919 | EHMT2 |
| -0.134620324 | 0.432271421 | 0.506 | 1 | 51141 | INSIG2 |
| -0.134620324 | 0.432271421 | 0.45 | 1 | 55652 | SLC48A1 |
| -0.134620324 | 0.432271421 | 0.477 | 1 | 90317 | ZNF616 |
| -0.134877726 | 0.43138501 | 0.505 | 1 | 23076 | RRP1B |
| -0.134877726 | 0.43138501 | 0.478 | 1 | 57578 | KIAA1409 |
| -0.134877726 | 0.43138501 | 0.463 | 1 | 80022 | MYO15B |
| -0.134877726 | 0.43138501 | 0.472 | 1 | 84699 | CREB3L3 |
| -0.134877726 | 0.43138501 | 0.456 | 1 | 84996 | C21ORF119 |
| -0.134877726 | 0.43138501 | 0.492 | 1 | 222894 | FERD3L |
| -0.134877726 | 0.43138501 | 0.477 | 1 | 442454 | UQCRBP1 |
| -0.135135129 | 0.430499643 | 0.438 | 1 | 3127 | HLA-DRB5 |
| -0.135135129 | 0.430499643 | 0.463 | 1 | 83759 | RBM4B |
| -0.135135129 | 0.430499643 | 0.467 | 1 | 346528 | OR2A1 |
| -0.135135129 | 0.430499643 | 0.48 | 1 | 644186 | C22orf41 |
| -0.135392532 | 0.429615289 | 0.467 | 1 | 5698 | PSMB9 |
| -0.135392532 | 0.429615289 | 0.456 | 1 | 7113 | TMPRSS2 |
| -0.135392532 | 0.429615289 | 0.493 | 1 | 56893 | UBQLN4 |
| -0.135392532 | 0.429615289 | 0.48 | 1 | 57467 | HHATL |
| -0.135649934 | 0.428731561 | 0.458 | 1 | 3329 | HSPD1 |
| -0.135649934 | 0.428731561 | 0.45 | 1 | 8330 | HIST1H2AK |
| -0.135649934 | 0.428731561 | 0.478 | 1 | 10223 | GPA33 |
| -0.135649934 | 0.428731561 | 0.483 | 1 | 54553 | DKFZP434I0714 |
| -0.135649934 | 0.428731561 | 0.472 | 1 | 54841 | BIVM |
| -0.135649934 | 0.428731561 | 0.459 | 1 | 150759 | LINC00342 |
| -0.135649934 | 0.428731561 | 0.449 | 1 | 219285 | SAMD9L |
| -0.135907322 | 0.427849233 | 0.43 | 1 | 3077 | HFE |
| -0.135907322 | 0.427849233 | 0.471 | 1 | 4149 | MAX |
| -0.135907322 | 0.427849233 | 0.442 | 1 | 4258 | MGST2 |
| -0.135907322 | 0.427849233 | 0.431 | 1 | 4599 | MX1 |
| -0.135907322 | 0.427849233 | 0.483 | 1 | 163033 | ZNF579 |
| -0.135907322 | 0.427849233 | 0.456 | 1 | 221188 | GPR114 |
| -0.135907322 | 0.427849233 | 0.475 | 1 | 100128977 | MAPT-AS1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.09079396 | 2.80224E-16 | 5300 | PIN1 |
| -0.090810955 | 2.76671E-16 | 51267 | CLEC1A |
| -0.09083315 | 2.72096E-16 | 30833 | NT5C |
| -0.090840675 | 2.70561E-16 | 57085 | AGTRAP |
| -0.090871967 | 2.64272E-16 | 56245 | C21orf62 |
| -0.090913199 | 2.56205E-16 | 2539 | G6PD |
| -0.090924904 | 2.53959E-16 | 196047 | EMX2OS |
| -0.090929642 | 2.53056E-16 | 4163 | MCC |
| -0.090950347 | 2.49145E-16 | 84844 | PHF5A |
| -0.090957686 | 2.47772E-16 | 145783 | RP11-323F24.1 |
| -0.09097477 | 2.44609E-16 | 9640 | ZNF592 |
| -0.091003843 | 2.39313E-16 | 54205 | CYCS |
| -0.091041081 | 2.32698E-16 | 152273 | FGD5 |
| -0.091082871 | 2.25488E-16 | 399744 | LOC399744 |
| -0.091098562 | 2.22838E-16 | 8314 | BAP1 |
| -0.091114722 | 2.20138E-16 | 1616 | DAXX |
| -0.091185302 | 2.0873E-16 | 2975 | GTF3C1 |
| -0.091222167 | 2.03005E-16 | 51447 | IP6K2 |
| -0.091233961 | 2.01207E-16 | 3107 | HLA-C |
| -0.09144152 | 1.72004E-16 | 514 | ATP5E |
| -0.091447741 | 1.71196E-16 | 64976 | MRPL40 |
| -0.091448948 | 1.7104E-16 | 165 | AEBP1 |
| -0.091490269 | 1.65776E-16 | 55795 | PCID2 |
| -0.091493711 | 1.65346E-16 | 23211 | ZC3H4 |
| -0.091554165 | 1.57949E-16 | 10983 | CCNI |
| -0.091575153 | 1.55457E-16 | 157807 | RLBP1L1 |
| -0.091586478 | 1.54129E-16 | 4140 | MARK3 |
| -0.091621488 | 1.50094E-16 | 122769 | PPIL5 |
| -0.091681764 | 1.4339E-16 | 11209 | RP5-1182A14.1 |
| -0.091709159 | 1.40442E-16 | 127253 | TYW3 |
| -0.091716401 | 1.39673E-16 | 9987 | HNRPDL |
| -0.091844 | 1.26778E-16 | 10297 | APC2 |
| -0.091847248 | 1.26466E-16 | 79706 | PRKRIP1 |
| -0.091864057 | 1.24862E-16 | 10577 | NPC2 |
| -0.091871671 | 1.24141E-16 | 57343 | ZNF304 |
| -0.091905385 | 1.21001E-16 | 27243 | CHMP2A |
| -0.091936305 | 1.18189E-16 | 58528 | RRAGD |
| -0.091978192 | 1.14482E-16 | 142689 | ASB12 |
| -0.092038549 | 1.09343E-16 | 27154 | BRPF3 |
| -0.092054062 | 1.0806E-16 | 25853 | WDR40A |
| -0.092088513 | 1.05262E-16 | 27037 | TRMT2A |
| -0.092097804 | 1.04519E-16 | 170622 | COMMD6 |
| -0.092106253 | 1.03849E-16 | 79850 | FAM57A |
| -0.092181377 | 9.80701E-17 | 84816 | RTN4IP1 |
| -0.092193916 | 9.71368E-17 | 55035 | NOL8 |
| -0.092259482 | 9.23981E-17 | 4528 | MTIF2 |
| -0.092264496 | 9.20461E-17 | 83894 | TTC29 |
| -0.092274897 | 9.1318E-17 | 160622 | GRASP |
| -0.092314459 | 8.86012E-17 | 8725 | URI1 |
| -0.092340834 | 8.68348E-17 | 4719 | NDUFS1 |
| -0.092348352 | 8.63379E-17 | 10169 | SERF2 |
| -0.092353649 | 8.59888E-17 | 80765 | STARD5 |
| -0.092462674 | 7.91143E-17 | 140730 | RIMS4 |
| -0.092487656 | 7.76171E-17 | 55544 | RBM38 |
| -0.092523031 | 7.55448E-17 | 3566 | IL4R |
| -0.092527494 | 7.52874E-17 | 2197 | FAU |
| -0.092552938 | 7.38348E-17 | 9849 | ZNF518A |
| -0.092606612 | 7.08622E-17 | 147495 | APCDD1 |
| -0.09263958 | 6.90952E-17 | 483 | ATP1B3 |
| -0.092836455 | 5.94118E-17 | 2189 | FANCG |
| -0.092851222 | 5.87418E-17 | 79868 | ALG13 |
| -0.092908524 | 5.62119E-17 | 51530 | ZC3HC1 |
| -0.092914186 | 5.59683E-17 | 91369 | ANKRD40 |
| -0.092987083 | 5.29182E-17 | 80227 | PAAF1 |
| -0.09308859 | 4.89424E-17 | 51608 | C7orf20 |
| -0.09308961 | 4.89038E-17 | 55604 | LRRC16A |
| -0.093093231 | 4.8768E-17 | 11269 | DDX19B |
| -0.093117006 | 4.78833E-17 | 399818 | METTL10 |
| -0.093138553 | 4.70949E-17 | 11341 | SCRG1 |
| -0.093173094 | 4.58588E-17 | 3105 | HLA-A |
| -0.093234107 | 4.37519E-17 | 81490 | PTDSS2 |
| -0.09324117 | 4.35143E-17 | 5094 | PCBP2 |
| -0.093311653 | 4.12117E-17 | 56996 | SLC12A9 |
| -0.09333422 | 4.04998E-17 | 117155 | CATSPER2 |
| -0.0933709 | 3.93691E-17 | 401357 | LOC401357 |
| -0.093426339 | 3.77189E-17 | 8620 | NPFF |
| -0.093434423 | 3.74841E-17 | 57609 | DIP2B |
| -0.093438968 | 3.73527E-17 | 7059 | THBS3 |
| -0.09344241 | 3.72535E-17 | 284443 | ZNF493 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.136164725 | 0.426967978 | 0.475 | 1 | 2773 | GNAI3 |
| -0.136164725 | 0.426967978 | 0.456 | 1 | 8666 | EIF3G |
| -0.136164725 | 0.426967978 | 0.461 | 1 | 10212 | DDX39 |
| -0.136164725 | 0.426967978 | 0.463 | 1 | 55015 | PRPF39 |
| -0.136164725 | 0.426967978 | 0.436 | 1 | 90586 | AOC4 |
| -0.136164725 | 0.426967978 | 0.469 | 1 | 150297 | C22orf42 |
| -0.136164725 | 0.426967978 | 0.458 | 1 | 151011 | SEPTIN10 |
| -0.136164725 | 0.426967978 | 0.444 | 1 | 100288165 | HMGN2P15 |
| -0.136422142 | 0.426087707 | 0.459 | 1 | 2055 | CLN8 |
| -0.136422142 | 0.426087707 | 0.451 | 1 | 8893 | EIF2B5 |
| -0.136422142 | 0.426087707 | 0.484 | 1 | 56848 | SPHK2 |
| -0.136422142 | 0.426087707 | 0.505 | 1 | 80228 | ORAI2 |
| -0.136422142 | 0.426087707 | 0.465 | 1 | 112752 | C14orf179 |
| -0.136679545 | 0.425208479 | 0.464 | 1 | 1109 | AKR1C4 |
| -0.136679545 | 0.425208479 | 0.473 | 1 | 5083 | PAX9 |
| -0.136679545 | 0.425208479 | 0.455 | 1 | 7091 | TLE4 |
| -0.136679545 | 0.425208479 | 0.453 | 1 | 55746 | NUP133 |
| -0.136679545 | 0.425208479 | 0.454 | 1 | 79365 | BHLHE41 |
| -0.136679545 | 0.425208479 | 0.466 | 1 | 81788 | NUAK2 |
| -0.136679545 | 0.425208479 | 0.483 | 1 | 132299 | OCIAD2 |
| -0.136936948 | 0.424329847 | 0.418 | 1 | 10577 | NPC2 |
| -0.136936948 | 0.424329847 | 0.476 | 1 | 51548 | SIRT6 |
| -0.136936948 | 0.424329847 | 0.454 | 1 | 53938 | PPIL3 |
| -0.136936948 | 0.424329847 | 0.496 | 1 | 57674 | RNF213 |
| -0.136936948 | 0.424329847 | 0.443 | 1 | 59344 | ALOXE3 |
| -0.136936948 | 0.424329847 | 0.467 | 1 | 85451 | UNK |
| -0.136936948 | 0.424329847 | 0.463 | 1 | 90199 | WFDC8 |
| -0.136936948 | 0.424329847 | 0.467 | 1 | 151556 | GPR155 |
| -0.136936948 | 0.424329847 | 0.464 | 1 | 221687 | RNF182 |
| -0.137194335 | 0.423452675 | 0.456 | 1 | 8992 | ATP6V0E1 |
| -0.137194335 | 0.423452675 | 0.454 | 1 | 26873 | OPLAH |
| -0.137194335 | 0.423452675 | 0.473 | 1 | 83744 | ZNF484 |
| -0.137194335 | 0.423452675 | 0.462 | 1 | 115004 | C6orf150 |
| -0.137194335 | 0.423452675 | 0.471 | 1 | 391769 | H3.Y |
| -0.137451738 | 0.422576487 | 0.465 | 1 | 5588 | PRKCQ |
| -0.137451738 | 0.422576487 | 0.441 | 1 | 51374 | C2orf28 |
| -0.137451738 | 0.422576487 | 0.441 | 1 | 64689 | GORASP1 |
| -0.137451738 | 0.422576487 | 0.463 | 1 | 65010 | SLC26A6 |
| -0.137709141 | 0.421701401 | 0.463 | 1 | 79157 | MFSD11 |
| -0.137709141 | 0.421701401 | 0.44 | 1 | 79763 | ISOC2 |
| -0.137709141 | 0.421701401 | 0.472 | 1 | 84465 | MEGF11 |
| -0.137709141 | 0.421701401 | 0.467 | 1 | 89792 | GAL3ST3 |
| -0.137709141 | 0.421701401 | 0.443 | 1 | 94239 | H2AFV |
| -0.137709141 | 0.421701401 | 0.462 | 1 | 165918 | RNF168 |
| -0.137709141 | 0.421701401 | 0.449 | 1 | 170384 | FUT11 |
| -0.137709141 | 0.421701401 | 0.486 | 1 | 440419 | TBC1D3P5 |
| -0.137966543 | 0.420826912 | 0.461 | 1 | 1653 | DDX1 |
| -0.137966543 | 0.420826912 | 0.441 | 1 | 54831 | BEST2 |
| -0.137966543 | 0.420826912 | 0.463 | 1 | 55246 | CCDC25 |
| -0.137966543 | 0.420826912 | 0.481 | 1 | 79290 | OR13A1 |
| -0.138223946 | 0.419953793 | 0.48 | 1 | 372 | ARCN1 |
| -0.138223946 | 0.419953793 | 0.426 | 1 | 3593 | IL12B |
| -0.138223946 | 0.419953793 | 0.486 | 1 | 6651 | SON |
| -0.138223946 | 0.419953793 | 0.44 | 1 | 7932 | OR2H2 |
| -0.138223946 | 0.419953793 | 0.464 | 1 | 29095 | ORMDL2 |
| -0.138223946 | 0.419953793 | 0.419 | 1 | 29937 | NENF |
| -0.138223946 | 0.419953793 | 0.46 | 1 | 64431 | ACTR6 |
| -0.138223946 | 0.419953793 | 0.458 | 1 | 84129 | ACAD11 |
| -0.138223946 | 0.419953793 | 0.473 | 1 | 144404 | TMEM120B |
| -0.138223946 | 0.419953793 | 0.481 | 1 | 257068 | PLCXD2 |
| -0.138223946 | 0.419953793 | 0.45 | 1 | 646096 | CHEK2P2 |
| -0.138481334 | 0.419081777 | 0.442 | 1 | 23064 | SETX |
| -0.138481334 | 0.419081777 | 0.457 | 1 | 27109 | ATP5S |
| -0.138481334 | 0.419081777 | 0.452 | 1 | 55094 | GPATCH1 |
| -0.138481334 | 0.419081777 | 0.439 | 1 | 84875 | PARP10 |
| -0.138481334 | 0.419081777 | 0.445 | 1 | 96597 | TBC1D27 |
| -0.138481334 | 0.419081777 | 0.453 | 1 | 149483 | CCDC17 |
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| -0.138738737 | 0.418210804 | 0.434 | 1 | 1615 | DARS |
| -0.138738737 | 0.418210804 | 0.473 | 1 | 5144 | PDE4D |
| -0.138738737 | 0.418210804 | 0.446 | 1 | 7466 | WFS1 |
| -0.138738737 | 0.418210804 | 0.432 | 1 | 10188 | TNK2 |
| -0.138738737 | 0.418210804 | 0.439 | 1 | 22865 | SLITRK3 |
| -0.138738737 | 0.418210804 | 0.442 | 1 | 51125 | GOLGA7 |
| -0.138738737 | 0.418210804 | 0.457 | 1 | 64762 | FAM59A |
| -0.138738737 | 0.418210804 | 0.437 | 1 | 80852 | GRIP2 |
| -0.138738737 | 0.418210804 | 0.461 | 1 | 81844 | TRIM56 |
| -0.138996139 | 0.417340338 | 0.432 | 1 | 11060 | WWP2 |
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| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.093476117 | 3.62954E-17 | 8382 | NME5 |
| -0.093499981 | 3.56321E-17 | 10643 | IGF2BP3 |
| -0.093504816 | 3.54989E-17 | 404217 | CTXN1 |
| -0.09351512 | 3.52174E-17 | 84255 | SLC37A3 |
| -0.09353397 | 3.47075E-17 | 23081 | KDM4C |
| -0.093545675 | 3.43947E-17 | 646890 | LOC646890 |
| -0.093548089 | 3.43304E-17 | 6387 | CXCL12 |
| -0.093592666 | 3.31665E-17 | 84695 | LOXL3 |
| -0.093601026 | 3.29526E-17 | 3032 | HADHB |
| -0.093614116 | 3.26207E-17 | 25938 | HEATR5A |
| -0.09375973 | 2.91404E-17 | 163071 | ZNF114 |
| -0.093766786 | 2.89814E-17 | 55148 | UBR7 |
| -0.093817957 | 2.7854E-17 | 114780 | PKD1L2 |
| -0.093895689 | 2.62228E-17 | 6736 | SRY |
| -0.093905993 | 2.6014E-17 | 441191 | RNF216L |
| -0.093909152 | 2.59502E-17 | 10904 | BLCAP |
| -0.093915187 | 2.5829E-17 | 51773 | RSF1 |
| -0.093921505 | 2.57026E-17 | 57161 | PELI2 |
| -0.093941472 | 2.53069E-17 | 144347 | FAM101A |
| -0.093988277 | 2.44031E-17 | 57458 | TMCC3 |
| -0.094008334 | 2.40254E-17 | 148362 | BROX |
| -0.094057277 | 2.31283E-17 | 29920 | PYCR2 |
| -0.094066098 | 2.29702E-17 | 9731 | KIAA0562 |
| -0.094131105 | 2.18372E-17 | 164656 | TMPRSS6 |
| -0.094139554 | 2.16942E-17 | 57214 | KIAA1199 |
| -0.094180696 | 2.10101E-17 | 1874 | E2F4 |
| -0.094223782 | 2.03168E-17 | 26246 | OR2L2 |
| -0.094243281 | 2.00103E-17 | 6924 | TCEB3 |
| -0.094258606 | 1.97728E-17 | 11190 | CEP250 |
| -0.094301514 | 1.91223E-17 | 79885 | HDAC11 |
| -0.094306804 | 1.90435E-17 | 7398 | USP1 |
| -0.094321944 | 1.88199E-17 | 86 | ACTL6A |
| -0.094331689 | 1.86775E-17 | 338328 | GPIHBP1 |
| -0.094353609 | 1.83608E-17 | 643376 | AP001931.1 |
| -0.094434403 | 1.72387E-17 | 202781 | LOC202781 |
| -0.094517328 | 1.61573E-17 | 284441 | LOC284441 |
| -0.094547607 | 1.57794E-17 | 333 | APLP1 |
| -0.094560139 | 1.56255E-17 | 4302 | MLLT6 |
| -0.0945841 | 1.53354E-17 | 55001 | TTC22 |
| -0.094609179 | 1.50376E-17 | 51124 | IER3IP1 |
| -0.094630346 | 1.47906E-17 | 85508 | SCRT2 |
| -0.094631091 | 1.47819E-17 | 63915 | MUTED |
| -0.094633132 | 1.47583E-17 | 2686 | GGT7 |
| -0.094649762 | 1.45676E-17 | 84132 | USP42 |
| -0.094698049 | 1.40272E-17 | 10087 | COL4A3BP |
| -0.094737701 | 1.35983E-17 | 29116 | MYLIP |
| -0.094744578 | 1.35251E-17 | 8985 | PLOD3 |
| -0.094812833 | 1.28208E-17 | 27246 | RNF115 |
| -0.094848119 | 1.24708E-17 | 139189 | DGKK |
| -0.094888143 | 1.20853E-17 | 340024 | SLC6A19 |
| -0.094892137 | 1.20476E-17 | 8546 | AP3B1 |
| -0.094933838 | 1.16597E-17 | 498 | ATP5A1 |
| -0.094951294 | 1.1501E-17 | 151636 | DTX3L |
| -0.095041469 | 1.07145E-17 | 54801 | HAUS6 |
| -0.095062457 | 1.05392E-17 | 92291 | CAPN13 |
| -0.095068492 | 1.04893E-17 | 4296 | MAP3K11 |
| -0.095183648 | 9.58107E-18 | 27303 | RBMS3 |
| -0.095194697 | 9.49803E-18 | 414899 | BLID |
| -0.095199987 | 9.45858E-18 | 55339 | WDR33 |
| -0.095212802 | 9.36371E-18 | 23274 | CLEC16A |
| -0.095366403 | 8.29632E-18 | 163786 | SASS6 |
| -0.095421009 | 7.94662E-18 | 85450 | ITPRIP |
| -0.095422499 | 7.93723E-18 | 5810 | RAD1 |
| -0.095474593 | 7.61756E-18 | 11135 | CDC42EP1 |
| -0.095480256 | 7.58361E-18 | 80349 | WDR61 |
| -0.09548685 | 7.54418E-18 | 3543 | IGLL1 |
| -0.095534772 | 7.26404E-18 | 352954 | GATS |
| -0.095556967 | 7.13776E-18 | 283869 | NPW |
| -0.095576838 | 7.02659E-18 | 729494 | ARPC3P3 |
| -0.095588543 | 6.96188E-18 | 3204 | HOXA7 |
| -0.095606372 | 6.86444E-18 | 9337 | CNOT8 |
| -0.095702119 | 6.36384E-18 | 7004 | TEAD4 |
| -0.095805943 | 5.86168E-18 | 81544 | GDPD5 |
| -0.095812164 | 5.83286E-18 | 157869 | C8orf84 |
| -0.095868349 | 5.57888E-18 | 4323 | MMP14 |
| -0.095878929 | 5.53225E-18 | 55113 | XKR8 |
| -0.095905773 | 5.41579E-18 | 2634 | GBP2 |
| -0.095924623 | 5.33545E-18 | 90233 | ZNF551 |
| -0.096044138 | 4.85262E-18 | 5976 | UPF1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.138996139 | 0.417340338 | 0.476 | 1 | 158584 | FAAH2 |
| -0.138996139 | 0.417340338 | 0.458 | 1 | 727941 | LOC727941 |
| -0.139253542 | 0.416471422 | 0.463 | 1 | 6434 | TRA2B |
| -0.139253542 | 0.416471422 | 0.439 | 1 | 6795 | AURKC |
| -0.139253542 | 0.416471422 | 0.449 | 1 | 10062 | NR1H3 |
| -0.139253542 | 0.416471422 | 0.439 | 1 | 122786 | FRMD6 |
| -0.139253542 | 0.416471422 | 0.457 | 1 | 254295 | PHYHD1 |
| -0.139253542 | 0.416471422 | 0.428 | 1 | 286075 | ZNF707 |
| -0.139510944 | 0.415603518 | 0.464 | 1 | 22835 | ZFP30 |
| -0.139510944 | 0.415603518 | 0.464 | 1 | 23598 | PATZ1 |
| -0.139510944 | 0.415603518 | 0.454 | 1 | 54502 | RBM47 |
| -0.139510944 | 0.415603518 | 0.463 | 1 | 130576 | LYPD6B |
| -0.139510944 | 0.415603518 | 0.459 | 1 | 353133 | LCE1C |
| -0.139768332 | 0.414736629 | 0.446 | 1 | 202 | AIM1 |
| -0.139768332 | 0.414736629 | 0.421 | 1 | 6871 | TADA2L |
| -0.139768332 | 0.414736629 | 0.436 | 1 | 57817 | HAMP |
| -0.139768332 | 0.414736629 | 0.468 | 1 | 79646 | PANK3 |
| -0.139768332 | 0.414736629 | 0.445 | 1 | 441151 | TMEM151B |
| -0.139768332 | 0.414736629 | 0.437 | 1 | 497258 | BDNF-AS1 |
| -0.139768332 | 0.414736629 | 0.446 | 1 | 728229 | TMEM191B |
| -0.140025735 | 0.413870811 | 0.454 | 1 | 2595 | GANC |
| -0.140025735 | 0.413870811 | 0.448 | 1 | 2992 | GYG1 |
| -0.140025735 | 0.413870811 | 0.44 | 1 | 4125 | MAN2B1 |
| -0.140025735 | 0.413870811 | 0.434 | 1 | 8520 | HAT1 |
| -0.140025735 | 0.413870811 | 0.436 | 1 | 8531 | CSDAP1 |
| -0.140025735 | 0.413870811 | 0.463 | 1 | 9047 | SH2D2A |
| -0.140025735 | 0.413870811 | 0.461 | 1 | 10957 | PNRC1 |
| -0.140025735 | 0.413870811 | 0.441 | 1 | 55863 | TMEM126B |
| -0.140025735 | 0.413870811 | 0.432 | 1 | 117248 | GALNTL2 |
| -0.140025735 | 0.413870811 | 0.442 | 1 | 651430 | FLJ38576 |
| -0.140025735 | 0.413870811 | 0.454 | 1 | 728431 | RP11-422J8.1 |
| -0.140283138 | 0.41300559 | 0.463 | 1 | 1523 | CUX1 |
| -0.140283138 | 0.41300559 | 0.499 | 1 | 1953 | MEGF6 |
| -0.140283138 | 0.41300559 | 0.449 | 1 | 8939 | FUBP3 |
| -0.140283138 | 0.41300559 | 0.442 | 1 | 25836 | NIPBL |
| -0.140283138 | 0.41300559 | 0.43 | 1 | 51524 | TMEM138 |
| -0.140283138 | 0.41300559 | 0.433 | 1 | 646625 | PRHOXNB |
| -0.14054054 | 0.41214186 | 0.431 | 1 | 2153 | F5 |
| -0.14054054 | 0.41214186 | 0.45 | 1 | 9745 | ZNF536 |
| -0.14054054 | 0.41214186 | 0.467 | 1 | 9798 | IST1 |
| -0.14054054 | 0.41214186 | 0.433 | 1 | 10130 | PDIA6 |
| -0.14054054 | 0.41214186 | 0.442 | 1 | 10272 | FSTL3 |
| -0.14054054 | 0.41214186 | 0.435 | 1 | 29894 | CPSF1 |
| -0.14054054 | 0.41214186 | 0.462 | 1 | 29999 | FSCN3 |
| -0.14054054 | 0.41214186 | 0.455 | 1 | 53354 | PANK1 |
| -0.14054054 | 0.41214186 | 0.438 | 1 | 83694 | RPS6KL1 |
| -0.14054054 | 0.41214186 | 0.457 | 1 | 283212 | KLHL35 |
| -0.14054054 | 0.41214186 | 0.476 | 1 | 541465 | CT45A4 |
| -0.140797943 | 0.411279082 | 0.41 | 1 | 37 | ACADVL |
| -0.140797943 | 0.411279082 | 0.438 | 1 | 5213 | PFKM |
| -0.140797943 | 0.411279082 | 0.45 | 1 | 8803 | SUCLA2 |
| -0.140797943 | 0.411279082 | 0.445 | 1 | 10910 | SUGT1 |
| -0.140797943 | 0.411279082 | 0.429 | 1 | 25834 | MGAT4C |
| -0.140797943 | 0.411279082 | 0.464 | 1 | 55515 | ACCN4 |
| -0.140797943 | 0.411279082 | 0.423 | 1 | 55914 | ERBB2IP |
| -0.140797943 | 0.411279082 | 0.43 | 1 | 146310 | RNF151 |
| -0.140797943 | 0.411279082 | 0.457 | 1 | 440093 | RP11-428G5.1 |
| -0.141055331 | 0.410417348 | 0.454 | 1 | 4798 | NFRKB |
| -0.141055331 | 0.410417348 | 0.426 | 1 | 9697 | TRAM2 |
| -0.141055331 | 0.410417348 | 0.455 | 1 | 10864 | SLC22A7 |
| -0.141055331 | 0.410417348 | 0.421 | 1 | 64581 | CLEC7A |
| -0.141055331 | 0.410417348 | 0.442 | 1 | 645181 | LOC645181 |
| -0.141312733 | 0.409556359 | 0.444 | 1 | 444 | ASPH |
| -0.141312733 | 0.409556359 | 0.435 | 1 | 4621 | MYH3 |
| -0.141312733 | 0.409556359 | 0.45 | 1 | 6617 | SNAPC1 |
| -0.141312733 | 0.409556359 | 0.481 | 1 | 26092 | TOR1AIP1 |
| -0.141312733 | 0.409556359 | 0.435 | 1 | 54465 | ETAA1 |
| -0.141312733 | 0.409556359 | 0.467 | 1 | 55262 | C7orf43 |
| -0.141312733 | 0.409556359 | 0.439 | 1 | 79192 | IRX1 |
| -0.141312733 | 0.409556359 | 0.453 | 1 | 125893 | ZNF816A |
| -0.141570136 | 0.408696711 | 0.446 | 1 | 3166 | HMX1 |
| -0.141570136 | 0.408696711 | 0.425 | 1 | 4586 | MUC5AC |
| -0.141570136 | 0.408696711 | 0.459 | 1 | 6542 | SLC7A2 |
| -0.141570136 | 0.408696711 | 0.445 | 1 | 7541 | ZFP161 |
| -0.141570136 | 0.408696711 | 0.44 | 1 | 55333 | SYNJ2BP |
| -0.141570136 | 0.408696711 | 0.439 | 1 | 57337 | SENP7 |
| -0.141570136 | 0.408696711 | 0.429 | 1 | 440570 | LOC440570 |
| -0.141827539 | 0.407838136 | 0.464 | 1 | 2794 | GNL1 |
| -0.141827539 | 0.407838136 | 0.499 | 1 | 8321 | FZD1 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.096067637 | 4.76288E-18 | 1736 | DKC1 |
| -0.096068099 | 4.76114E-18 | 3852 | KRT5 |
| -0.096132644 | 4.52313E-18 | 10243 | GPHN |
| -0.096160963 | 4.42243E-18 | 90338 | ZNF160 |
| -0.096208327 | 4.25898E-18 | 2353 | FOS |
| -0.096214831 | 4.23698E-18 | 6281 | S100A10 |
| -0.096318372 | 3.90183E-18 | 10451 | VAV3 |
| -0.096344374 | 3.82187E-18 | 57453 | DSCAML1 |
| -0.096403629 | 3.64559E-18 | 260429 | PRSS33 |
| -0.096415423 | 3.61147E-18 | 55032 | SLC35A5 |
| -0.096429631 | 3.57079E-18 | 728819 | LOC728819 |
| -0.096512742 | 3.34178E-18 | 3553 | IL1B |
| -0.096559733 | 3.21876E-18 | 92482 | BBIP1 |
| -0.096615084 | 3.07962E-18 | 55124 | PIWIL2 |
| -0.096620932 | 3.06523E-18 | 801 | CALM1 |
| -0.096750669 | 2.76328E-18 | 58505 | OSTC |
| -0.096786141 | 2.68596E-18 | 10668 | CGRRF1 |
| -0.096837588 | 2.57761E-18 | 1822 | ATN1 |
| -0.096854307 | 2.54334E-18 | 7166 | TPH1 |
| -0.096889965 | 2.47171E-18 | 137868 | SGCZ |
| -0.096901111 | 2.44975E-18 | 63917 | GALNT11 |
| -0.096907049 | 2.43813E-18 | 302 | ANXA2 |
| -0.096982554 | 2.29496E-18 | 64412 | GZF1 |
| -0.096986078 | 2.28848E-18 | 1353 | COX11 |
| -0.097080342 | 2.12182E-18 | 10950 | BTG3 |
| -0.09711238 | 2.06793E-18 | 63929 | XPNPEP3 |
| -0.097262911 | 1.83235E-18 | 541468 | C1orf190 |
| -0.097292908 | 1.78866E-18 | 207 | AKT1 |
| -0.097372495 | 1.67771E-18 | 57664 | PLEKHA4 |
| -0.097435087 | 1.59525E-18 | 7697 | ZNF138 |
| -0.097457744 | 1.5664E-18 | 1515 | CTSL2 |
| -0.09748143 | 1.53679E-18 | 10597 | TRAPPC2P1 |
| -0.097487465 | 1.52933E-18 | 165324 | UBXN2A |
| -0.097490251 | 1.52589E-18 | 6453 | ITSN1 |
| -0.09752591 | 1.48266E-18 | 23184 | MESDC2 |
| -0.097567052 | 1.43428E-18 | 130749 | CPO |
| -0.097631223 | 1.3619E-18 | 79665 | DHX40 |
| -0.097689636 | 1.29916E-18 | 83697 | SLC4A9 |
| -0.097700685 | 1.28762E-18 | 8218 | CLTCL1 |
| -0.097774327 | 1.21323E-18 | 7617 | ZNF66P |
| -0.097809337 | 1.17938E-18 | 3018 | HIST1H2BB |
| -0.097822987 | 1.16643E-18 | 1755 | DMBT1 |
| -0.097857349 | 1.13446E-18 | 440023 | KRTAP5-6 |
| -0.097863942 | 1.12842E-18 | 558 | AXL |
| -0.097898118 | 1.09764E-18 | 23536 | ADAT1 |
| -0.097928017 | 1.07139E-18 | 4336 | MOBP |
| -0.097936377 | 1.06417E-18 | 79956 | ERMP1 |
| -0.097947523 | 1.05461E-18 | 4245 | MGAT1 |
| -0.097957738 | 1.04592E-18 | 161357 | MDGA2 |
| -0.098007977 | 1.00422E-18 | 9792 | SERTAD2 |
| -0.098022372 | 9.92574E-19 | 51142 | CHCHD2 |
| -0.098047264 | 9.72748E-19 | 100287497 | RP11-504P24.4 |
| -0.09819492 | 8.62943E-19 | 23629 | BRD7P3 |
| -0.098205134 | 8.55814E-19 | 151056 | PLB1 |
| -0.098210707 | 8.51958E-19 | 51117 | COQ4 |
| -0.098235965 | 8.34659E-19 | 23512 | SUZ12 |
| -0.098266892 | 8.13954E-19 | 353497 | POLN |
| -0.09826754 | 8.13525E-19 | 4122 | MAN2A2 |
| -0.098319732 | 7.7975E-19 | 29063 | ZCCHC4 |
| -0.098323628 | 7.77278E-19 | 8347 | HIST1H2BC |
| -0.098440267 | 7.06931E-19 | 51614 | ERGIC3 |
| -0.098462649 | 6.94173E-19 | 7976 | FZD3 |
| -0.098480202 | 6.84324E-19 | 26823 | RNU12-2P |
| -0.098517068 | 6.64084E-19 | 27316 | RBMX |
| -0.098581426 | 6.30163E-19 | 27030 | MLH3 |
| -0.09858904 | 6.26262E-19 | 9517 | SPTLC2 |
| -0.098600924 | 6.20233E-19 | 2298 | FOXD4 |
| -0.098688036 | 5.77699E-19 | 23078 | KIAA0564 |
| -0.098699734 | 5.72212E-19 | 7110 | TMF1 |
| -0.098704197 | 5.70134E-19 | 84561 | SLC12A8 |
| -0.098734744 | 5.56092E-19 | 57184 | C15orf17 |
| -0.09873651 | 5.55297E-19 | 253461 | ZBTB38 |
| -0.098736696 | 5.55207E-19 | 5476 | CTSA |
| -0.098771706 | 5.39564E-19 | 124995 | MRPL10 |
| -0.098802537 | 5.2615E-19 | 79763 | ISOC2 |
| -0.098804027 | 5.25512E-19 | 1351 | COX8A |
| -0.098811358 | 5.22372E-19 | 51338 | MS4A4A |
| -0.098850273 | 5.06024E-19 | 79613 | TMCO7 |
| -0.098887794 | 4.9074E-19 | 55599 | RNPC3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.142084941 | 0.406980574 | 0.42 | 1 | 34 | ACADM |
| -0.142084941 | 0.406980574 | 0.421 | 1 | 8892 | EIF2B2 |
| -0.142084941 | 0.406980574 | 0.44 | 1 | 83937 | RASSF4 |
| -0.142084941 | 0.406980574 | 0.435 | 1 | 85318 | BAGE3 |
| -0.142084941 | 0.406980574 | 0.423 | 1 | 154791 | C7orf55 |
| -0.142342329 | 0.406124055 | 0.455 | 1 | 6443 | SGCB |
| -0.142342329 | 0.406124055 | 0.455 | 1 | 80318 | GKAP1 |
| -0.142342329 | 0.406124055 | 0.461 | 1 | 284443 | ZNF493 |
| -0.142342329 | 0.406124055 | 0.432 | 1 | 388531 | RGS9BP |
| -0.142342329 | 0.406124055 | 0.47 | 1 | 100132249 | LOC100132249 |
| -0.142599732 | 0.405268222 | 0.429 | 1 | 9321 | TRIP11 |
| -0.142599732 | 0.405268222 | 0.421 | 1 | 9441 | MED26 |
| -0.142599732 | 0.405268222 | 0.435 | 1 | 11177 | BAZ1A |
| -0.142599732 | 0.405268222 | 0.445 | 1 | 56996 | SLC12A9 |
| -0.142599732 | 0.405268222 | 0.462 | 1 | 253714 | C6orf167 |
| -0.142599732 | 0.405268222 | 0.452 | 1 | 284119 | PTRF |
| -0.142599732 | 0.405268222 | 0.432 | 1 | 730092 | RRN3P1 |
| -0.142599732 | 0.405268222 | 0.444 | 1 | 100271715 | AC019171.4 |
| -0.142857134 | 0.40441379 | 0.444 | 1 | 2188 | FANCF |
| -0.142857134 | 0.40441379 | 0.438 | 1 | 58496 | LY6G5B |
| -0.142857134 | 0.40441379 | 0.407 | 1 | 89853 | FAM125B |
| -0.142857134 | 0.40441379 | 0.432 | 1 | 146705 | C17orf56 |
| -0.143114537 | 0.40356046 | 0.44 | 1 | 3021 | H3F3B |
| -0.143114537 | 0.40356046 | 0.446 | 1 | 7568 | ZNF20 |
| -0.143114537 | 0.40356046 | 0.449 | 1 | 7802 | DNALI1 |
| -0.143114537 | 0.40356046 | 0.445 | 1 | 55819 | RNF130 |
| -0.143114537 | 0.40356046 | 0.425 | 1 | 84286 | TMEM175 |
| -0.143114537 | 0.40356046 | 0.453 | 1 | 283651 | HMGN2P46 |
| -0.143114537 | 0.40356046 | 0.445 | 1 | 646498 | RP11-694I15.6 |
| -0.14337194 | 0.402708083 | 0.447 | 1 | 5093 | PCBP1 |
| -0.14337194 | 0.402708083 | 0.463 | 1 | 5878 | RAB5C |
| -0.14337194 | 0.402708083 | 0.468 | 1 | 56101 | PCDHGB5 |
| -0.14337194 | 0.402708083 | 0.446 | 1 | 57798 | GATAD1 |
| -0.14337194 | 0.402708083 | 0.448 | 1 | 79739 | TTLL7 |
| -0.143629342 | 0.401856393 | 0.422 | 1 | 4691 | NCL |
| -0.143629342 | 0.401856393 | 0.432 | 1 | 4720 | NDUFS2 |
| -0.143629342 | 0.401856393 | 0.445 | 1 | 7693 | ZNF134 |
| -0.143629342 | 0.401856393 | 0.446 | 1 | 50964 | SOST |
| -0.143629342 | 0.401856393 | 0.441 | 1 | 51573 | GDE1 |
| -0.143629342 | 0.401856393 | 0.421 | 1 | 58512 | DLGAP3 |
| -0.143629342 | 0.401856393 | 0.411 | 1 | 115752 | DIS3L |
| -0.143629342 | 0.401856393 | 0.456 | 1 | 441631 | TSPAN11 |
| -0.143629342 | 0.401856393 | 0.44 | 1 | 492311 | C5orf53 |
| -0.143886745 | 0.401006162 | 0.467 | 1 | 3712 | IVD |
| -0.143886745 | 0.401006162 | 0.386 | 1 | 7518 | XRCC4 |
| -0.143886745 | 0.401006162 | 0.442 | 1 | 11267 | SNF8 |
| -0.143886745 | 0.401006162 | 0.443 | 1 | 22900 | CARD8 |
| -0.143886745 | 0.401006162 | 0.428 | 1 | 80267 | EDEM3 |
| -0.143886745 | 0.401006162 | 0.434 | 1 | 137814 | NKX2-6 |
| -0.143886745 | 0.401006162 | 0.44 | 1 | 284992 | CCDC150 |
| -0.143886745 | 0.401006162 | 0.433 | 1 | 399900 | LOC399900 |
| -0.143886745 | 0.401006162 | 0.44 | 1 | 399909 | PCNXL3 |
| -0.144144148 | 0.400156945 | 0.433 | 1 | 58 | ACTA1 |
| -0.144144148 | 0.400156945 | 0.443 | 1 | 3605 | IL17A |
| -0.144144148 | 0.400156945 | 0.45 | 1 | 5450 | POU2AF1 |
| -0.144144148 | 0.400156945 | 0.419 | 1 | 10598 | AHSA1 |
| -0.144144148 | 0.400156945 | 0.43 | 1 | 23132 | RAD54L2 |
| -0.144144148 | 0.400156945 | 0.448 | 1 | 23155 | CLCC1 |
| -0.144144148 | 0.400156945 | 0.463 | 1 | 28984 | C13orf15 |
| -0.144144148 | 0.400156945 | 0.407 | 1 | 29105 | C16orf80 |
| -0.144144148 | 0.400156945 | 0.419 | 1 | 50814 | NSDHL |
| -0.14440155 | 0.39930883 | 0.455 | 1 | 643 | CXCR5 |
| -0.14440155 | 0.39930883 | 0.466 | 1 | 7398 | USP1 |
| -0.14440155 | 0.39930883 | 0.442 | 1 | 9275 | BCL7B |
| -0.14440155 | 0.39930883 | 0.44 | 1 | 10171 | RCL1 |
| -0.14440155 | 0.39930883 | 0.428 | 1 | 51024 | FIS1 |
| -0.14440155 | 0.39930883 | 0.432 | 1 | 54879 | ST7L |
| -0.14440155 | 0.39930883 | 0.418 | 1 | 55212 | BBS7 |
| -0.14440155 | 0.39930883 | 0.474 | 1 | 84700 | MYO18B |
| -0.14440155 | 0.39930883 | 0.442 | 1 | 100506658 | OCLN |
| -0.144658953 | 0.398461342 | 0.429 | 1 | 3105 | HLA-A |
| -0.144658953 | 0.398461342 | 0.434 | 1 | 8099 | CDK2AP1 |
| -0.144658953 | 0.398461342 | 0.438 | 1 | 23405 | DICER1 |
| -0.144658953 | 0.398461342 | 0.434 | 1 | 55353 | LAPTM4B |
| -0.144658953 | 0.398461342 | 0.43 | 1 | 55529 | TMEM55A |
| -0.144658953 | 0.398461342 | 0.413 | 1 | 150696 | PROM2 |
| -0.144658953 | 0.398461342 | 0.451 | 1 | 191585 | PLAC4 |
| -0.144916341 | 0.397615254 | 0.411 | 1 | 359 | AQP2 |
| -0.144916341 | 0.397615254 | 0.452 | 1 | 8481 | OFD1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.098918155 | 4.78711E-19 | 6720 | SREBF1 |
| -0.099131376 | 4.02041E-19 | 6493 | SIM2 |
| -0.099139921 | 3.99235E-19 | 29926 | GMPPA |
| -0.09919332 | 3.82139E-19 | 55092 | TMEM51 |
| -0.099209942 | 3.76964E-19 | 91775 | NXPE3 |
| -0.099214397 | 3.75585E-19 | 6707 | SPRR3 |
| -0.09925656 | 3.62816E-19 | 79575 | ABHD8 |
| -0.099276617 | 3.56895E-19 | 84284 | NTPCR |
| -0.099280521 | 3.55753E-19 | 25834 | MGAT4C |
| -0.099300951 | 3.49837E-19 | 283796 | GOLGA9P |
| -0.099321567 | 3.4397E-19 | 57165 | GJC2 |
| -0.09939976 | 3.22572E-19 | 64780 | MICAL1 |
| -0.099439412 | 3.12227E-19 | 10735 | STAG2 |
| -0.099448144 | 3.09993E-19 | 339390 | CLEC4G |
| -0.099555962 | 2.83685E-19 | 9179 | AP4M1 |
| -0.099661827 | 2.60006E-19 | 221830 | TWISTNB |
| -0.099666104 | 2.59089E-19 | 10712 | C1orf2 |
| -0.099670097 | 2.58239E-19 | 2901 | GRIK5 |
| -0.099678636 | 2.56426E-19 | 6782 | HSPA13 |
| -0.099723674 | 2.47085E-19 | 1763 | DNA2 |
| -0.099757113 | 2.40366E-19 | 152110 | NEK10 |
| -0.099813201 | 2.29498E-19 | 8355 | HIST1H3G |
| -0.099827409 | 2.26824E-19 | 2329 | FMO4 |
| -0.099880159 | 2.1716E-19 | 389337 | AC022100.1 |
| -0.099881828 | 2.16861E-19 | 9060 | PAPSS2 |
| -0.099931322 | 2.08174E-19 | 649946 | RPL23AP64 |
| -0.099973209 | 2.01093E-19 | 27031 | NPHP3 |
| -0.099998377 | 1.96953E-19 | 344405 | NCRNA00117 |
| -0.100024566 | 1.92735E-19 | 57556 | SEMA6A |
| -0.100052238 | 1.88375E-19 | 7458 | EIF4H |
| -0.100064777 | 1.86432E-19 | 55041 | PLEKHB2 |
| -0.100070164 | 1.85601E-19 | 10591 | C6orf108 |
| -0.100162469 | 1.71951E-19 | 7597 | ZBTB25 |
| -0.100228496 | 1.628E-19 | 79627 | OGFRL1 |
| -0.100256912 | 1.59012E-19 | 57494 | AC092490.2 |
| -0.100257009 | 1.58998E-19 | 286380 | FOXD4L3 |
| -0.10027688 | 1.56402E-19 | 115019 | SLC26A9 |
| -0.100297034 | 1.5381E-19 | 6390 | SDHB |
| -0.100315794 | 1.51437E-19 | 29119 | CTNNA3 |
| -0.100326009 | 1.50158E-19 | 3480 | IGF1R |
| -0.100354798 | 1.46615E-19 | 5519 | PPP2R1B |
| -0.100378379 | 1.43776E-19 | 9882 | TBC1D4 |
| -0.10041599 | 1.39358E-19 | 158248 | TTC16 |
| -0.100421846 | 1.38681E-19 | 286148 | DPY19L4 |
| -0.100657448 | 1.1402E-19 | 254228 | FAM26E |
| -0.100715116 | 1.08678E-19 | 91975 | ZNF300 |
| -0.100843087 | 9.76872E-20 | 400579 | FLJ35934 |
| -0.100854695 | 9.6746E-20 | 4485 | MST1 |
| -0.100860916 | 9.62461E-20 | 63027 | SLC22A23 |
| -0.100925088 | 9.12304E-20 | 146456 | TMED6 |
| -0.100954987 | 8.89827E-20 | 57820 | CCNB1IP1 |
| -0.100963622 | 8.83431E-20 | 90987 | ZNF251 |
| -0.100979224 | 8.72005E-20 | 9470 | EIF4E2 |
| -0.1010186 | 8.43803E-20 | 84060 | C7orf64 |
| -0.10102696 | 8.37935E-20 | 116541 | MRPL54 |
| -0.101048321 | 8.23118E-20 | 644890 | MEIG1 |
| -0.101049244 | 8.22484E-20 | 27309 | ZNF330 |
| -0.101068839 | 8.09126E-20 | 29074 | MRPL18 |
| -0.101084538 | 7.98585E-20 | 5698 | PSMB9 |
| -0.10111212 | 7.80391E-20 | 5134 | PDCD2 |
| -0.101180561 | 7.36986E-20 | 51063 | CALHM2 |
| -0.101209067 | 7.19623E-20 | 9694 | TTC35 |
| -0.10121882 | 7.13775E-20 | 7957 | EPM2A |
| -0.10123089 | 7.06602E-20 | 10285 | SMNDC1 |
| -0.101235814 | 7.03697E-20 | 51070 | NOSIP |
| -0.101262189 | 6.88336E-20 | 90933 | TRIM41 |
| -0.101392105 | 6.17365E-20 | 84223 | IQCG |
| -0.101425909 | 6.00111E-20 | 715 | C1R |
| -0.101463802 | 5.81345E-20 | 9796 | AC105206.1 |
| -0.101497978 | 5.64919E-20 | 1281 | COL3A1 |
| -0.101499371 | 5.64256E-20 | 7290 | HIRA |
| -0.10150215 | 5.62944E-20 | 3092 | HIP1 |
| -0.101605237 | 5.16275E-20 | 5836 | PYGL |
| -0.101626128 | 5.07296E-20 | 10562 | OLFM4 |
| -0.101626225 | 5.07253E-20 | 55582 | KIF27 |
| -0.101641826 | 5.00652E-20 | 30827 | CXXC1 |
| -0.101688631 | 4.81339E-20 | 116228 | FAM36A |
| -0.101696894 | 4.78005E-20 | 81894 | SLC25A28 |
| -0.101698101 | 4.77523E-20 | 390261 | OR6M1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.144916341 | 0.397615254 | 0.438 | 1 | 55602 | CDKN2AIP |
| -0.145173743 | 0.396770269 | 0.444 | 1 | 271 | AMPD2 |
| -0.145173743 | 0.396770269 | 0.465 | 1 | 3112 | HLA-DOB |
| -0.145173743 | 0.396770269 | 0.422 | 1 | 6527 | SLC5A4 |
| -0.145173743 | 0.396770269 | 0.434 | 1 | 10226 | M6PRBP1 |
| -0.145173743 | 0.396770269 | 0.424 | 1 | 10903 | MTMR11 |
| -0.145173743 | 0.396770269 | 0.449 | 1 | 55644 | OSGEP |
| -0.145173743 | 0.396770269 | 0.423 | 1 | 55727 | BTBD7 |
| -0.145173743 | 0.396770269 | 0.435 | 1 | 60370 | AVPI1 |
| -0.145173743 | 0.396770269 | 0.432 | 1 | 85395 | C21orf70 |
| -0.145173743 | 0.396770269 | 0.438 | 1 | 117584 | RFFL |
| -0.145173743 | 0.396770269 | 0.456 | 1 | 201232 | SLC16A13 |
| -0.145173743 | 0.396770269 | 0.475 | 1 | 223075 | CCDC129 |
| -0.145173743 | 0.396770269 | 0.453 | 1 | 283600 | C14orf68 |
| -0.145173743 | 0.396770269 | 0.426 | 1 | 340706 | VWA2 |
| -0.145173743 | 0.396770269 | 0.445 | 1 | 441459 | ANKRD18B |
| -0.145173743 | 0.396770269 | 0.409 | 1 | 100132288 | TEKT4P2 |
| -0.145431146 | 0.395926267 | 0.473 | 1 | 5238 | PGM3 |
| -0.145431146 | 0.395926267 | 0.429 | 1 | 5692 | PSMB4 |
| -0.145431146 | 0.395926267 | 0.42 | 1 | 10617 | STAMBP |
| -0.145431146 | 0.395926267 | 0.447 | 1 | 10768 | AHCYL1 |
| -0.145431146 | 0.395926267 | 0.417 | 1 | 55254 | TMEM39A |
| -0.145431146 | 0.395926267 | 0.452 | 1 | 139425 | WDR42B |
| -0.145431146 | 0.395926267 | 0.457 | 1 | 441250 | TYW1B |
| -0.145688549 | 0.395083398 | 0.41 | 1 | 2202 | EFEMP1 |
| -0.145688549 | 0.395083398 | 0.428 | 1 | 8795 | TNFRSF10B |
| -0.145688549 | 0.395083398 | 0.444 | 1 | 84798 | C19orf48 |
| -0.145688549 | 0.395083398 | 0.445 | 1 | 360023 | ZBTB41 |
| -0.145945951 | 0.394241154 | 0.441 | 1 | 23381 | SMG5 |
| -0.145945951 | 0.394241154 | 0.438 | 1 | 55250 | ELP2 |
| -0.145945951 | 0.394241154 | 0.438 | 1 | 128272 | ARHGEF19 |
| -0.145945951 | 0.394241154 | 0.413 | 1 | 196441 | ZFC3H1 |
| -0.146203339 | 0.393400311 | 0.445 | 1 | 7100 | TLR5 |
| -0.146203339 | 0.393400311 | 0.42 | 1 | 64288 | ZNF323 |
| -0.146203339 | 0.393400311 | 0.43 | 1 | 283491 | OR7E156P |
| -0.146203339 | 0.393400311 | 0.397 | 1 | 494115 | RBMXL1 |
| -0.146460742 | 0.392560571 | 0.419 | 1 | 10220 | GDF11 |
| -0.146460742 | 0.392560571 | 0.442 | 1 | 10793 | ZNF273 |
| -0.146460742 | 0.392560571 | 0.426 | 1 | 85365 | ALG2 |
| -0.146460742 | 0.392560571 | 0.421 | 1 | 89857 | KLHL6 |
| -0.146460742 | 0.392560571 | 0.442 | 1 | 169693 | C9orf71 |
| -0.146460742 | 0.392560571 | 0.395 | 1 | 619189 | SERINC4 |
| -0.146718144 | 0.391721845 | 0.412 | 1 | 3207 | HOXA11 |
| -0.146718144 | 0.391721845 | 0.431 | 1 | 5663 | PSEN1 |
| -0.146718144 | 0.391721845 | 0.42 | 1 | 7289 | TULP3 |
| -0.146718144 | 0.391721845 | 0.419 | 1 | 11145 | PLA2G16 |
| -0.146718144 | 0.391721845 | 0.453 | 1 | 23385 | NCSTN |
| -0.146718144 | 0.391721845 | 0.42 | 1 | 29928 | TIMM22 |
| -0.146718144 | 0.391721845 | 0.428 | 1 | 100129827 | AC009532.1 |
| -0.146975547 | 0.390883863 | 0.415 | 1 | 4715 | NDUFB9 |
| -0.146975547 | 0.390883863 | 0.428 | 1 | 7554 | ZNF8 |
| -0.146975547 | 0.390883863 | 0.45 | 1 | 9410 | SNRNP40 |
| -0.146975547 | 0.390883863 | 0.436 | 1 | 10876 | FAM12A |
| -0.146975547 | 0.390883863 | 0.434 | 1 | 54681 | P4HTM |
| -0.146975547 | 0.390883863 | 0.436 | 1 | 123606 | NIPA1 |
| -0.14723295 | 0.390047222 | 0.405 | 1 | 5545 | PRB4 |
| -0.14723295 | 0.390047222 | 0.397 | 1 | 6573 | SLC19A1 |
| -0.14723295 | 0.390047222 | 0.409 | 1 | 7771 | ZFP112 |
| -0.14723295 | 0.390047222 | 0.461 | 1 | 8332 | HIST1H2AL |
| -0.14723295 | 0.390047222 | 0.442 | 1 | 9526 | MPDU1 |
| -0.14723295 | 0.390047222 | 0.408 | 1 | 9590 | AKAP12 |
| -0.14723295 | 0.390047222 | 0.444 | 1 | 10161 | LPAR6 |
| -0.14723295 | 0.390047222 | 0.432 | 1 | 10514 | MYBBP1A |
| -0.14723295 | 0.390047222 | 0.422 | 1 | 80258 | EFHC2 |
| -0.147490337 | 0.389211655 | 0.416 | 1 | 5198 | PFAS |
| -0.147490337 | 0.389211655 | 0.438 | 1 | 55361 | PI4K2A |
| -0.147490337 | 0.389211655 | 0.417 | 1 | 84273 | NOA1 |
| -0.147490337 | 0.389211655 | 0.442 | 1 | 84932 | RAB2B |
| -0.147490337 | 0.389211655 | 0.41 | 1 | 91351 | DDX60L |
| -0.14774774 | 0.38837716 | 0.414 | 1 | 22 | ABCB7 |
| -0.14774774 | 0.38837716 | 0.441 | 1 | 3190 | HNRNPK |
| -0.14774774 | 0.38837716 | 0.421 | 1 | 5981 | RFC1 |
| -0.14774774 | 0.38837716 | 0.431 | 1 | 6637 | SNRPG |
| -0.14774774 | 0.38837716 | 0.426 | 1 | 6862 | T |
| -0.14774774 | 0.38837716 | 0.451 | 1 | 9019 | MPZL1 |
| -0.14774774 | 0.38837716 | 0.422 | 1 | 246744 | STH |
| -0.14774774 | 0.38837716 | 0.406 | 1 | 339768 | ESPNL |
| -0.148005143 | 0.38754335 | 0.443 | 1 | 1889 | ECE1 |
| -0.148005143 | 0.38754335 | 0.434 | 1 | 7054 | TH |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.101726055 | 4.66429E-20 | 9878 | TOX4 |
| -0.101808704 | 4.35103E-20 | 3310 | HSPA6 |
| -0.101818457 | 4.31547E-20 | 401508 | FAM74A4 |
| -0.101850495 | 4.20066E-20 | 9045 | RPL14 |
| -0.10192813 | 3.93477E-20 | 80264 | ZNF430 |
| -0.101958588 | 3.83507E-20 | 54956 | PARP16 |
| -0.101960815 | 3.82786E-20 | 26230 | TIAM2 |
| -0.101991557 | 3.72995E-20 | 55732 | C1orf112 |
| -0.102002241 | 3.69652E-20 | 22915 | MMRN1 |
| -0.10201858 | 3.64595E-20 | 57180 | ACTR3B |
| -0.102073468 | 3.48099E-20 | 2335 | FN1 |
| -0.102142647 | 3.28355E-20 | 100288570 | AC108938.1 |
| -0.102182768 | 3.17416E-20 | 382 | ARF6 |
| -0.102193817 | 3.14466E-20 | 220108 | FAM124A |
| -0.102213971 | 3.09159E-20 | 652 | BMP4 |
| -0.102284268 | 2.91326E-20 | 51412 | ACTL6B |
| -0.102387629 | 2.66934E-20 | 10897 | YIF1A |
| -0.102425709 | 2.5847E-20 | 25816 | TNFAIP8 |
| -0.102478452 | 2.47177E-20 | 79590 | MRPL24 |
| -0.102509193 | 2.40823E-20 | 285150 | AC062028.1 |
| -0.102559432 | 2.30783E-20 | 22900 | CARD8 |
| -0.102578655 | 2.27054E-20 | 56104 | PCDHGB1 |
| -0.102624066 | 2.18475E-20 | 7409 | VAV1 |
| -0.102645986 | 2.1445E-20 | 25862 | USP49 |
| -0.102649324 | 2.13843E-20 | 160335 | TMTC2 |
| -0.102739222 | 1.98132E-20 | 10861 | SLC26A1 |
| -0.102741078 | 1.9782E-20 | 55118 | CRTAC1 |
| -0.102753244 | 1.95787E-20 | 7771 | ZFP112 |
| -0.102797359 | 1.88585E-20 | 27077 | B9D1 |
| -0.102892451 | 1.7394E-20 | 8099 | CDK2AP1 |
| -0.102919385 | 1.70001E-20 | 57677 | ZFP14 |
| -0.102921799 | 1.69653E-20 | 288 | ANK3 |
| -0.102927648 | 1.6881E-20 | 10608 | MXD4 |
| -0.102951422 | 1.65429E-20 | 23258 | DENND5A |
| -0.102972127 | 1.6254E-20 | 202459 | OSTCP1 |
| -0.102978818 | 1.61616E-20 | 55342 | STRBP |
| -0.102983363 | 1.60993E-20 | 6382 | SDC1 |
| -0.102991074 | 1.59939E-20 | 51191 | HERC5 |
| -0.103038251 | 1.53641E-20 | 9667 | SAFB2 |
| -0.103051811 | 1.51877E-20 | 57587 | KIAA1430 |
| -0.10305766 | 1.51123E-20 | 117178 | SSX2IP |
| -0.103060633 | 1.50739E-20 | 128710 | C20orf94 |
| -0.103077441 | 1.48596E-20 | 55248 | TMEM206 |
| -0.103078462 | 1.48467E-20 | 27076 | LYPD3 |
| -0.103149131 | 1.39789E-20 | 58472 | SQRDL |
| -0.103185818 | 1.35484E-20 | 5554 | PRH1 |
| -0.103207827 | 1.32963E-20 | 341883 | LRRC9 |
| -0.103213206 | 1.32354E-20 | 51678 | MPP6 |
| -0.103237078 | 1.29685E-20 | 10495 | ENOX2 |
| -0.103244044 | 1.28917E-20 | 57645 | POGK |
| -0.10326577 | 1.26549E-20 | 399687 | MYO18A |
| -0.103276916 | 1.25351E-20 | 55274 | PHF10 |
| -0.103360958 | 1.16669E-20 | 11331 | PHB2 |
| -0.103426613 | 1.10303E-20 | 1513 | CTSK |
| -0.103483729 | 1.05045E-20 | 23064 | SETX |
| -0.10352654 | 1.01267E-20 | 197258 | FUK |
| -0.103553005 | 9.89991E-21 | 54067 | C21orf49 |
| -0.103555605 | 9.87791E-21 | 2272 | FHIT |
| -0.103564613 | 9.80197E-21 | 4580 | MTX1 |
| -0.103608169 | 9.44315E-21 | 79156 | PLEKHF1 |
| -0.103629246 | 9.27421E-21 | 4008 | LMO7 |
| -0.103647448 | 9.13075E-21 | 1376 | CPT2 |
| -0.103651069 | 9.1024E-21 | 7543 | ZFX |
| -0.103732333 | 8.48997E-21 | 282566 | LINC00515 |
| -0.103747189 | 8.38258E-21 | 654346 | LGALS9C |
| -0.103761211 | 8.28239E-21 | 50863 | OPCML |
| -0.103772447 | 8.20291E-21 | 4831 | NME2 |
| -0.10377951 | 8.15337E-21 | 7106 | TSPAN4 |
| -0.103806622 | 7.96594E-21 | 51360 | MBTPS2 |
| -0.103853986 | 7.64858E-21 | 9563 | H6PD |
| -0.103863269 | 7.58783E-21 | 85415 | RHPN2 |
| -0.103877574 | 7.49529E-21 | 57511 | COG6 |
| -0.103943415 | 7.08313E-21 | 55916 | NXT2 |
| -0.103965424 | 6.95041E-21 | 7069 | THRSP |
| -0.103977494 | 6.87869E-21 | 79603 | LASS4 |
| -0.103978612 | 6.87215E-21 | 643387 | LOC643387 |
| -0.104015015 | 6.66035E-21 | 6610 | SMPD2 |
| -0.104147069 | 5.94512E-21 | 23116 | FAM179B |
| -0.104219131 | 5.58743E-21 | 84886 | C1orf198 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.148005143 | 0.38754335 | 0.448 | 1 | 29103 | DNAJC15 |
| -0.148005143 | 0.38754335 | 0.431 | 1 | 51312 | SLC25A37 |
| -0.148005143 | 0.38754335 | 0.414 | 1 | 55788 | LMBRD1 |
| -0.148005143 | 0.38754335 | 0.416 | 1 | 84214 | RP13-254B10.1 |
| -0.148005143 | 0.38754335 | 0.426 | 1 | 143903 | LAYN |
| -0.148005143 | 0.38754335 | 0.401 | 1 | 253461 | ZBTB38 |
| -0.148262545 | 0.386711001 | 0.44 | 1 | 2670 | GFAP |
| -0.148262545 | 0.386711001 | 0.423 | 1 | 3665 | IRF7 |
| -0.148262545 | 0.386711001 | 0.44 | 1 | 8942 | KYNU |
| -0.148262545 | 0.386711001 | 0.395 | 1 | 23221 | RHOBTB2 |
| -0.148262545 | 0.386711001 | 0.436 | 1 | 26648 | OR7E24 |
| -0.148262545 | 0.386711001 | 0.401 | 1 | 51520 | LARS |
| -0.148262545 | 0.386711001 | 0.441 | 1 | 57719 | ANO8 |
| -0.148262545 | 0.386711001 | 0.432 | 1 | 79169 | C1orf35 |
| -0.148262545 | 0.386711001 | 0.45 | 1 | 116512 | MRGPRD |
| -0.148262545 | 0.386711001 | 0.433 | 1 | 134492 | NUDCD2 |
| -0.148262545 | 0.386711001 | 0.441 | 1 | 148254 | ZNF555 |
| -0.148262545 | 0.386711001 | 0.421 | 1 | 340277 | C7orf46 |
| -0.148262545 | 0.386711001 | 0.421 | 1 | 729046 | LOC729046 |
| -0.148519948 | 0.385879636 | 0.406 | 1 | 190 | NR0B1 |
| -0.148519948 | 0.385879636 | 0.471 | 1 | 2657 | GDF1 |
| -0.148519948 | 0.385879636 | 0.425 | 1 | 7284 | TUFM |
| -0.148519948 | 0.385879636 | 0.433 | 1 | 23704 | KCNE4 |
| -0.148519948 | 0.385879636 | 0.386 | 1 | 58533 | SNX6 |
| -0.148519948 | 0.385879636 | 0.452 | 1 | 148345 | C1orf127 |
| -0.148777336 | 0.385049373 | 0.447 | 1 | 293 | SLC25A6 |
| -0.148777336 | 0.385049373 | 0.433 | 1 | 2000 | ELF4 |
| -0.148777336 | 0.385049373 | 0.396 | 1 | 3135 | HLA-G |
| -0.148777336 | 0.385049373 | 0.428 | 1 | 6747 | SSR3 |
| -0.148777336 | 0.385049373 | 0.433 | 1 | 8358 | HIST1H3B |
| -0.148777336 | 0.385049373 | 0.398 | 1 | 11099 | PTPN21 |
| -0.148777336 | 0.385049373 | 0.461 | 1 | 79750 | ZNF385D |
| -0.148777336 | 0.385049373 | 0.429 | 1 | 81790 | RNF170 |
| -0.148777336 | 0.385049373 | 0.433 | 1 | 254050 | LRRC43 |
| -0.148777336 | 0.385049373 | 0.392 | 1 | 373863 | DND1 |
| -0.149034739 | 0.384220213 | 0.428 | 1 | 3930 | LBR |
| -0.149034739 | 0.384220213 | 0.406 | 1 | 10715 | LASS1 |
| -0.149034739 | 0.384220213 | 0.446 | 1 | 11014 | KDELR2 |
| -0.149034739 | 0.384220213 | 0.444 | 1 | 64864 | RFX7 |
| -0.149292141 | 0.383391589 | 0.419 | 1 | 6505 | SLC1A1 |
| -0.149292141 | 0.383391589 | 0.419 | 1 | 51691 | NAA38 |
| -0.149292141 | 0.383391589 | 0.43 | 1 | 84675 | TRIM55 |
| -0.149292141 | 0.383391589 | 0.429 | 1 | 93349 | SP140L |
| -0.149292141 | 0.383391589 | 0.406 | 1 | 200894 | ARL13B |
| -0.149549544 | 0.382564515 | 0.405 | 1 | 221 | ALDH3B1 |
| -0.149549544 | 0.382564515 | 0.441 | 1 | 4331 | MNAT1 |
| -0.149549544 | 0.382564515 | 0.407 | 1 | 5494 | PPM1A |
| -0.149549544 | 0.382564515 | 0.421 | 1 | 6120 | RPE |
| -0.149549544 | 0.382564515 | 0.444 | 1 | 80031 | SEMA6D |
| -0.149549544 | 0.382564515 | 0.417 | 1 | 84820 | POLR2J4 |
| -0.149549544 | 0.382564515 | 0.401 | 1 | 728448 | PPIEL |
| -0.149806947 | 0.381738514 | 0.448 | 1 | 1503 | CTPS |
| -0.149806947 | 0.381738514 | 0.384 | 1 | 6125 | RPL5 |
| -0.149806947 | 0.381738514 | 0.437 | 1 | 10549 | PRDX4 |
| -0.149806947 | 0.381738514 | 0.441 | 1 | 80303 | EFHD1 |
| -0.149806947 | 0.381738514 | 0.41 | 1 | 284532 | OR14A16 |
| -0.150064334 | 0.380913496 | 0.433 | 1 | 8886 | DDX18 |
| -0.150064334 | 0.380913496 | 0.402 | 1 | 9529 | BAG5 |
| -0.150064334 | 0.380913496 | 0.4 | 1 | 11157 | LSM6 |
| -0.150064334 | 0.380913496 | 0.43 | 1 | 25932 | CLIC4 |
| -0.150064334 | 0.380913496 | 0.442 | 1 | 113402 | SFT2D1 |
| -0.150064334 | 0.380913496 | 0.43 | 1 | 286042 | AC068020.3 |
| -0.150064334 | 0.380913496 | 0.436 | 1 | 100130449 | AC110619.2 |
| -0.150321737 | 0.380089194 | 0.397 | 1 | 7965 | AIMP2 |
| -0.150321737 | 0.380089194 | 0.441 | 1 | 8687 | KRT38 |
| -0.150321737 | 0.380089194 | 0.417 | 1 | 10058 | ABCB6 |
| -0.150321737 | 0.380089194 | 0.418 | 1 | 54964 | C1orf56 |
| -0.150321737 | 0.380089194 | 0.391 | 1 | 56851 | C15orf24 |
| -0.150321737 | 0.380089194 | 0.432 | 1 | 132228 | C3orf45 |
| -0.150321737 | 0.380089194 | 0.421 | 1 | 353131 | LCE1A |
| -0.150321737 | 0.380089194 | 0.399 | 1 | 654346 | LGALS9C |
| -0.150579154 | 0.379266351 | 0.419 | 1 | 2733 | GLE1 |
| -0.150579154 | 0.379266351 | 0.419 | 1 | 5775 | PTPN4 |
| -0.150579154 | 0.379266351 | 0.408 | 1 | 54969 | C4orf27 |
| -0.150579154 | 0.379266351 | 0.407 | 1 | 57570 | TRMT5 |
| -0.150579154 | 0.379266351 | 0.414 | 1 | 79811 | SLTM |
| -0.150579154 | 0.379266351 | 0.407 | 1 | 84335 | AKT1S1 |
| -0.150579154 | 0.379266351 | 0.414 | 1 | 91316 | AP000347.4 |
| -0.150579154 | 0.379266351 | 0.401 | 1 | 137209 | ZNF572 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.104227863 | 5.54554E-21 | 10023 | FRAT1 |
| -0.104230464 | 5.53313E-21 | 5450 | POU2AF1 |
| -0.104314603 | 5.14605E-21 | 6522 | SLC4A2 |
| -0.104341067 | 5.02992E-21 | 3636 | INPPL1 |
| -0.104354441 | 4.97227E-21 | 6929 | TCF3 |
| -0.104421489 | 4.69277E-21 | 55093 | WDYHV1 |
| -0.104439415 | 4.6207E-21 | 51239 | ANKRD39 |
| -0.104462907 | 4.52791E-21 | 23052 | ENDOD1 |
| -0.104484357 | 4.44484E-21 | 8343 | HIST1H2BF |
| -0.104508415 | 4.35344E-21 | 83759 | RBM4B |
| -0.104527265 | 4.2831E-21 | 54892 | NCAPG2 |
| -0.104537666 | 4.24477E-21 | 5324 | PLAG1 |
| -0.104587905 | 4.06442E-21 | 30815 | ST6GALNAC6 |
| -0.104625329 | 3.93496E-21 | 8303 | SNN |
| -0.104626447 | 3.93116E-21 | 2760 | GM2A |
| -0.104674645 | 3.77065E-21 | 745 | C11orf9 |
| -0.104684114 | 3.73986E-21 | 8673 | VAMP8 |
| -0.104703799 | 3.6767E-21 | 10520 | ZNF211 |
| -0.10477113 | 3.46851E-21 | 284325 | C19orf54 |
| -0.104785427 | 3.42582E-21 | 786 | CACNG1 |
| -0.104818955 | 3.32776E-21 | 27148 | STK36 |
| -0.104870871 | 3.18134E-21 | 283254 | HARBI1 |
| -0.104875043 | 3.16987E-21 | 23411 | SIRT1 |
| -0.104884051 | 3.14521E-21 | 221613 | HIST1H2AA |
| -0.104974508 | 2.90787E-21 | 6139 | RPL17P20 |
| -0.105013512 | 2.8111E-21 | 84681 | HINT2 |
| -0.105047964 | 2.72826E-21 | 55905 | RNF114 |
| -0.105051123 | 2.72078E-21 | 6275 | S100A4 |
| -0.105064586 | 2.68915E-21 | 8225 | GTPBP6 |
| -0.105088733 | 2.63335E-21 | 55657 | ZNF692 |
| -0.105092444 | 2.62487E-21 | 114799 | ESCO1 |
| -0.105136462 | 2.52637E-21 | 56899 | ANKS1B |
| -0.105145283 | 2.50709E-21 | 5814 | PURB |
| -0.105174541 | 2.44411E-21 | 128346 | C1orf162 |
| -0.105182156 | 2.42802E-21 | 9879 | DDX46 |
| -0.105218932 | 2.35158E-21 | 518 | ATP5G3 |
| -0.105226919 | 2.3353E-21 | 5106 | PCK2 |
| -0.105244003 | 2.30087E-21 | 57468 | SLC12A5 |
| -0.105286904 | 2.21655E-21 | 23131 | GPATCH8 |
| -0.105305851 | 2.18028E-21 | 120379 | PIH1D2 |
| -0.105309471 | 2.17344E-21 | 146852 | ODF4 |
| -0.105333157 | 2.12908E-21 | 130507 | UBR3 |
| -0.105335757 | 2.12425E-21 | 56963 | RGMA |
| -0.105347827 | 2.10206E-21 | 440900 | AC010982.1 |
| -0.105443105 | 1.93463E-21 | 25837 | RAB26 |
| -0.105452858 | 1.91825E-21 | 3704 | ITPA |
| -0.105491772 | 1.85426E-21 | 64795 | RMND5A |
| -0.105535232 | 1.78529E-21 | 55888 | ZNF167 |
| -0.105596334 | 1.69258E-21 | 4352 | MPL |
| -0.105599776 | 1.68751E-21 | 286042 | AC068020.3 |
| -0.105602555 | 1.68341E-21 | 84866 | TMEM25 |
| -0.105625682 | 1.64978E-21 | 6159 | RPL29 |
| -0.105656795 | 1.60555E-21 | 200185 | KRTCAP2 |
| -0.105686232 | 1.56481E-21 | 5638 | PRRG1 |
| -0.105699793 | 1.54636E-21 | 5442 | POLRMT |
| -0.105704807 | 1.53961E-21 | 54471 | SMCR7L |
| -0.105746225 | 1.48488E-21 | 283234 | CCDC88B |
| -0.105811134 | 1.40295E-21 | 139081 | MAGEC3 |
| -0.105818659 | 1.39375E-21 | 79443 | FYCO1 |
| -0.105877347 | 1.32398E-21 | 6257 | RXRB |
| -0.105882086 | 1.3185E-21 | 7528 | YY1 |
| -0.105886266 | 1.31369E-21 | 27109 | ATP5S |
| -0.105900563 | 1.29736E-21 | 22891 | ZNF365 |
| -0.105902426 | 1.29525E-21 | 113177 | C19orf36 |
| -0.105917096 | 1.27871E-21 | 3665 | IRF7 |
| -0.105957307 | 1.23448E-21 | 6352 | CCL5 |
| -0.105990648 | 1.19894E-21 | 54851 | ANKRD49 |
| -0.106019065 | 1.16945E-21 | 8649 | MAPKSP1 |
| -0.1060706 | 1.1178E-21 | 389741 | MGC21881 |
| -0.106077567 | 1.111E-21 | 10422 | UBAC1 |
| -0.106081374 | 1.10729E-21 | 64856 | VWA1 |
| -0.1060993 | 1.09002E-21 | 389362 | PSMG4 |
| -0.106103852 | 1.08568E-21 | 6671 | SP4 |
| -0.10610608 | 1.08355E-21 | 3060 | HCRT |
| -0.106109239 | 1.08055E-21 | 2339 | FNTA |
| -0.106131338 | 1.05981E-21 | 10217 | CTDSPL |
| -0.10615743 | 1.03583E-21 | 6617 | SNAPC1 |
| -0.106238134 | 9.64982E-22 | 23450 | SF3B3 |
| -0.106297754 | 9.15748E-22 | 4682 | NUBP1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.150836557 | 0.378444523 | 0.427 | 1 | 358 | AQP1 |
| -0.150836557 | 0.378444523 | 0.424 | 1 | 3212 | HOXB2 |
| -0.150836557 | 0.378444523 | 0.405 | 1 | 5096 | PCCB |
| -0.150836557 | 0.378444523 | 0.409 | 1 | 7024 | TFCP2 |
| -0.150836557 | 0.378444523 | 0.426 | 1 | 8673 | VAMP8 |
| -0.150836557 | 0.378444523 | 0.413 | 1 | 283933 | ZNF843 |
| -0.150836557 | 0.378444523 | 0.399 | 1 | 387695 | C10orf99 |
| -0.15109396 | 0.377623826 | 0.407 | 1 | 6847 | SYCP1 |
| -0.15109396 | 0.377623826 | 0.411 | 1 | 84545 | MRPL43 |
| -0.15109396 | 0.377623826 | 0.392 | 1 | 115106 | HAUS1 |
| -0.15109396 | 0.377623826 | 0.431 | 1 | 255104 | TMCO4 |
| -0.15109396 | 0.377623826 | 0.417 | 1 | 100133161 | LOC100133161 |
| -0.151351348 | 0.376803726 | 0.432 | 1 | 7546 | ZIC2 |
| -0.151351348 | 0.376803726 | 0.417 | 1 | 51065 | RPS27L |
| -0.151351348 | 0.376803726 | 0.407 | 1 | 51071 | DERA |
| -0.151351348 | 0.376803726 | 0.415 | 1 | 115019 | SLC26A9 |
| -0.151351348 | 0.376803726 | 0.429 | 1 | 415116 | PIM3 |
| -0.151351348 | 0.376803726 | 0.426 | 1 | 643637 | GLYATL1P4 |
| -0.15160875 | 0.375985116 | 0.38 | 1 | 6627 | SNRPA1 |
| -0.15160875 | 0.375985116 | 0.409 | 1 | 8115 | TCL1A |
| -0.15160875 | 0.375985116 | 0.402 | 1 | 23239 | PHLPP1 |
| -0.15160875 | 0.375985116 | 0.401 | 1 | 79962 | DNAJC22 |
| -0.15160875 | 0.375985116 | 0.416 | 1 | 84529 | C15orf41 |
| -0.15160875 | 0.375985116 | 0.432 | 1 | 348487 | FAM131C |
| -0.15160875 | 0.375985116 | 0.399 | 1 | 401827 | MSLNL |
| -0.15160875 | 0.375985116 | 0.443 | 1 | 729852 | LOC729852 |
| -0.151866153 | 0.375167578 | 0.426 | 1 | 81 | ACTN4 |
| -0.151866153 | 0.375167578 | 0.419 | 1 | 3006 | HIST1H1C |
| -0.151866153 | 0.375167578 | 0.435 | 1 | 8941 | CDK5R2 |
| -0.151866153 | 0.375167578 | 0.412 | 1 | 11269 | DDX19B |
| -0.151866153 | 0.375167578 | 0.445 | 1 | 55568 | GALNT10 |
| -0.151866153 | 0.375167578 | 0.404 | 1 | 79612 | NARG1L |
| -0.151866153 | 0.375167578 | 0.405 | 1 | 253970 | SFTA3 |
| -0.151866153 | 0.375167578 | 0.428 | 1 | 339221 | ENPP7 |
| -0.151866153 | 0.375167578 | 0.408 | 1 | 400961 | PAIP2B |
| -0.152123556 | 0.374351114 | 0.389 | 1 | 1031 | CDKN2C |
| -0.152123556 | 0.374351114 | 0.36 | 1 | 7716 | VEZF1 |
| -0.152123556 | 0.374351114 | 0.406 | 1 | 8073 | PTP4A2 |
| -0.152123556 | 0.374351114 | 0.438 | 1 | 8100 | IFT88 |
| -0.152123556 | 0.374351114 | 0.404 | 1 | 8639 | AOC3 |
| -0.152123556 | 0.374351114 | 0.422 | 1 | 10054 | UBA2 |
| -0.152123556 | 0.374351114 | 0.396 | 1 | 55278 | QRSL1 |
| -0.152123556 | 0.374351114 | 0.407 | 1 | 79723 | SUV39H2 |
| -0.152123556 | 0.374351114 | 0.421 | 1 | 150274 | HSCB |
| -0.152123556 | 0.374351114 | 0.428 | 1 | 728537 | AC017099.3 |
| -0.152380958 | 0.373535663 | 0.398 | 1 | 718 | C3 |
| -0.152380958 | 0.373535663 | 0.465 | 1 | 2037 | EPB41L2 |
| -0.152380958 | 0.373535663 | 0.415 | 1 | 4716 | NDUFB10 |
| -0.152380958 | 0.373535663 | 0.412 | 1 | 10452 | TOMM40 |
| -0.152380958 | 0.373535663 | 0.465 | 1 | 23130 | ATG2A |
| -0.152380958 | 0.373535663 | 0.382 | 1 | 25776 | CBY1 |
| -0.152380958 | 0.373535663 | 0.402 | 1 | 25998 | IBTK |
| -0.152380958 | 0.373535663 | 0.41 | 1 | 26577 | PCOLCE2 |
| -0.152380958 | 0.373535663 | 0.434 | 1 | 57787 | MARK4 |
| -0.152380958 | 0.373535663 | 0.428 | 1 | 60436 | TGIF2 |
| -0.152380958 | 0.373535663 | 0.419 | 1 | 647087 | C7orf73 |
| -0.152638346 | 0.372720897 | 0.417 | 1 | 9098 | USP6 |
| -0.152638346 | 0.372720897 | 0.382 | 1 | 29994 | BAZ2B |
| -0.152638346 | 0.372720897 | 0.431 | 1 | 55486 | PARL |
| -0.152638346 | 0.372720897 | 0.412 | 1 | 55916 | NXT2 |
| -0.152638346 | 0.372720897 | 0.436 | 1 | 58513 | EPS15L1 |
| -0.152638346 | 0.372720897 | 0.407 | 1 | 79710 | MORC4 |
| -0.152638346 | 0.372720897 | 0.389 | 1 | 125111 | GJD3 |
| -0.152638346 | 0.372720897 | 0.409 | 1 | 613212 | CTXN3 |
| -0.152895749 | 0.371907622 | 0.406 | 1 | 5260 | PHKG1 |
| -0.152895749 | 0.371907622 | 0.395 | 1 | 8850 | KAT2B |
| -0.152895749 | 0.371907622 | 0.414 | 1 | 9469 | CHST3 |
| -0.152895749 | 0.371907622 | 0.414 | 1 | 9741 | LAPTM4A |
| -0.152895749 | 0.371907622 | 0.397 | 1 | 80342 | TRAF3IP3 |
| -0.152895749 | 0.371907622 | 0.405 | 1 | 257364 | SNX33 |
| -0.153153151 | 0.371095359 | 0.421 | 1 | 23283 | CSTF2T |
| -0.153153151 | 0.371095359 | 0.429 | 1 | 50999 | TMED5 |
| -0.153153151 | 0.371095359 | 0.43 | 1 | 54951 | COMMD8 |
| -0.153153151 | 0.371095359 | 0.435 | 1 | 56956 | LHX9 |
| -0.153153151 | 0.371095359 | 0.404 | 1 | 127253 | TYW3 |
| -0.153153151 | 0.371095359 | 0.412 | 1 | 140625 | ACTRT2 |
| -0.153410554 | 0.3702842 | 0.407 | 1 | 1512 | CTSH |
| -0.153410554 | 0.3702842 | 0.391 | 1 | 6575 | SLC20A2 |
| -0.153410554 | 0.3702842 | 0.39 | 1 | 26277 | TINF2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.106320508 | 8.97618E-22 | 51110 | LACTB2 |
| -0.106365547 | 8.62773E-22 | 80221 | ACSF2 |
| -0.106426649 | 8.17632E-22 | 5605 | MAP2K2 |
| -0.106431477 | 8.14168E-22 | 79963 | ABCA11P |
| -0.106576443 | 7.16615E-22 | 280636 | C11orf31 |
| -0.106604211 | 6.99293E-22 | 55713 | ZNF334 |
| -0.106605418 | 6.98556E-22 | 10840 | ALDH1L1 |
| -0.10661006 | 6.95703E-22 | 27111 | SDCBP2 |
| -0.106620088 | 6.89582E-22 | 166378 | SPATA5 |
| -0.106681101 | 6.53472E-22 | 338657 | CCDC84 |
| -0.106683984 | 6.51809E-22 | 874 | CBR3 |
| -0.106725305 | 6.28484E-22 | 914 | CD2 |
| -0.106822446 | 5.7684E-22 | 55347 | ABHD10 |
| -0.106841393 | 5.67273E-22 | 84331 | C16orf14 |
| -0.106868975 | 5.5362E-22 | 506 | ATP5B |
| -0.106870554 | 5.52843E-22 | 643198 | RBPJP6 |
| -0.106888101 | 5.44342E-22 | 7478 | WNT8A |
| -0.106920049 | 5.29189E-22 | 54629 | FAM63B |
| -0.106925435 | 5.26674E-22 | 166379 | BBS12 |
| -0.107078664 | 4.59918E-22 | 80216 | ALPK1 |
| -0.107125007 | 4.41432E-22 | 9134 | CCNE2 |
| -0.107131965 | 4.38721E-22 | 29880 | ALG5 |
| -0.10713698 | 4.36779E-22 | 285613 | RELL2 |
| -0.107199758 | 4.13147E-22 | 3768 | KCNJ12 |
| -0.107210256 | 4.09323E-22 | 7594 | ZNF43 |
| -0.107229941 | 4.02241E-22 | 79691 | QTRTD1 |
| -0.107236534 | 3.99896E-22 | 644538 | Z83826.4 |
| -0.107240252 | 3.98584E-22 | 10579 | TACC2 |
| -0.107307948 | 3.75362E-22 | 8648 | NCOA1 |
| -0.107344635 | 3.63337E-22 | 400961 | PAIP2B |
| -0.107392088 | 3.48353E-22 | 54209 | TREM2 |
| -0.107432857 | 3.35972E-22 | 80896 | NPL |
| -0.107446693 | 3.31866E-22 | 6191 | RPS4X |
| -0.10745997 | 3.27976E-22 | 55168 | MRPS18A |
| -0.107529342 | 3.08368E-22 | 81788 | NUAK2 |
| -0.107582644 | 2.94096E-22 | 79960 | PHF17 |
| -0.107606329 | 2.87965E-22 | 1906 | EDN1 |
| -0.107693247 | 2.66532E-22 | 5010 | CLDN11 |
| -0.107698634 | 2.65258E-22 | 157574 | FBXO16 |
| -0.107706062 | 2.63507E-22 | 7942 | TFEB |
| -0.107712291 | 2.62051E-22 | 80347 | COASY |
| -0.107730396 | 2.57862E-22 | 26959 | HBP1 |
| -0.107791319 | 2.44239E-22 | 29950 | SERTAD1 |
| -0.107851863 | 2.31408E-22 | 83746 | L3MBTL2 |
| -0.107883252 | 2.25022E-22 | 644397 | LOC644397 |
| -0.107885577 | 2.24556E-22 | 1352 | COX10 |
| -0.107925229 | 2.16752E-22 | 8284 | KDM5D |
| -0.107972778 | 2.07747E-22 | 55031 | USP47 |
| -0.108109474 | 1.83872E-22 | 6434 | TRA2B |
| -0.10811802 | 1.82473E-22 | 10478 | SLC25A17 |
| -0.108142719 | 1.78489E-22 | 142679 | DUSP19 |
| -0.108143561 | 1.78354E-22 | 3185 | HNRNPF |
| -0.108187765 | 1.71443E-22 | 4081 | MAB21L1 |
| -0.108226858 | 1.65552E-22 | 1974 | EIF4A2 |
| -0.108230576 | 1.65002E-22 | 60625 | DHX35 |
| -0.108246826 | 1.62619E-22 | 10595 | ERN2 |
| -0.108274035 | 1.58708E-22 | 10443 | N4BP2L2 |
| -0.108371176 | 1.45485E-22 | 374462 | PTPRQ |
| -0.108375162 | 1.44967E-22 | 386724 | AMIGO3 |
| -0.108393274 | 1.42634E-22 | 78996 | C7orf49 |
| -0.108448438 | 1.35753E-22 | 57474 | ZNF490 |
| -0.108503416 | 1.29223E-22 | 113157 | RPLP0P2 |
| -0.108552076 | 1.23702E-22 | 169200 | TMEM64 |
| -0.10855449 | 1.23435E-22 | 6421 | SFPQ |
| -0.108564146 | 1.22369E-22 | 55199 | FAM86C |
| -0.108587734 | 1.19806E-22 | 100128361 | LOC100128361 |
| -0.108659796 | 1.123E-22 | 119392 | C10orf78 |
| -0.108668253 | 1.11449E-22 | 54443 | ANLN |
| -0.108672522 | 1.11023E-22 | 8601 | RGS20 |
| -0.108694807 | 1.08823E-22 | 375611 | SLC26A5 |
| -0.108730845 | 1.05354E-22 | 54883 | CCDC49 |
| -0.108794361 | 9.95066E-23 | 148327 | CREB3L4 |
| -0.108801514 | 9.8869E-23 | 11167 | FSTL1 |
| -0.108807087 | 9.83735E-23 | 441250 | TYW1B |
| -0.108819343 | 9.72946E-23 | 26769 | SNORD81 |
| -0.108824268 | 9.68652E-23 | 55069 | C7orf42 |
| -0.108828351 | 9.65101E-23 | 4173 | MCM4 |
| -0.108843304 | 9.52196E-23 | 57501 | KIAA1257 |
| -0.10890989 | 8.96809E-23 | 57035 | C1orf63 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.153410554 | 0.3702842 | 0.406 | 1 | 57530 | CGN |
| -0.153410554 | 0.3702842 | 0.434 | 1 | 59283 | CACNG8 |
| -0.153410554 | 0.3702842 | 0.41 | 1 | 81671 | TMEM49 |
| -0.153410554 | 0.3702842 | 0.452 | 1 | 283481 | LOC283481 |
| -0.153410554 | 0.3702842 | 0.417 | 1 | 388115 | C15orf52 |
| -0.153667957 | 0.369473726 | 0.427 | 1 | 1757 | SARDH |
| -0.153667957 | 0.369473726 | 0.45 | 1 | 2070 | EYA4 |
| -0.153667957 | 0.369473726 | 0.409 | 1 | 3881 | KRT31 |
| -0.153667957 | 0.369473726 | 0.426 | 1 | 80205 | CHD9 |
| -0.153667957 | 0.369473726 | 0.426 | 1 | 84295 | PHF6 |
| -0.153667957 | 0.369473726 | 0.396 | 1 | 89122 | TRIM4 |
| -0.153667957 | 0.369473726 | 0.413 | 1 | 148867 | SLC30A7 |
| -0.153925344 | 0.368664712 | 0.413 | 1 | 2146 | EZH2 |
| -0.153925344 | 0.368664712 | 0.391 | 1 | 2760 | GM2A |
| -0.153925344 | 0.368664712 | 0.403 | 1 | 55786 | ZNF415 |
| -0.153925344 | 0.368664712 | 0.412 | 1 | 94101 | ORMDL1 |
| -0.153925344 | 0.368664712 | 0.412 | 1 | 114880 | OSBPL6 |
| -0.153925344 | 0.368664712 | 0.395 | 1 | 130872 | AHSA2 |
| -0.153925344 | 0.368664712 | 0.407 | 1 | 164045 | HFM1 |
| -0.153925344 | 0.368664712 | 0.384 | 1 | 100131943 | LOC100131943 |
| -0.154182747 | 0.367856711 | 0.425 | 1 | 8352 | HIST1H3C |
| -0.154182747 | 0.367856711 | 0.423 | 1 | 11314 | CD300A |
| -0.154182747 | 0.367856711 | 0.415 | 1 | 57708 | MIER1 |
| -0.154182747 | 0.367856711 | 0.412 | 1 | 113201 | CASC4 |
| -0.154182747 | 0.367856711 | 0.417 | 1 | 115294 | PCMTD1 |
| -0.15444015 | 0.367049783 | 0.404 | 1 | 3516 | RBPSUH |
| -0.15444015 | 0.367049783 | 0.398 | 1 | 5094 | PCBP2 |
| -0.15444015 | 0.367049783 | 0.407 | 1 | 5420 | PODXL |
| -0.15444015 | 0.367049783 | 0.388 | 1 | 5927 | KDM5A |
| -0.15444015 | 0.367049783 | 0.415 | 1 | 8458 | TTF2 |
| -0.15444015 | 0.367049783 | 0.408 | 1 | 9274 | BCL7C |
| -0.15444015 | 0.367049783 | 0.407 | 1 | 9802 | DAZAP2 |
| -0.15444015 | 0.367049783 | 0.405 | 1 | 51099 | ABHD5 |
| -0.15444015 | 0.367049783 | 0.418 | 1 | 64764 | CREB3L2 |
| -0.15444015 | 0.367049783 | 0.393 | 1 | 91227 | GGTLC2 |
| -0.15444015 | 0.367049783 | 0.406 | 1 | 285830 | HLA-F-AS1 |
| -0.154697552 | 0.366243631 | 0.41 | 1 | 2487 | FRZB |
| -0.154697552 | 0.366243631 | 0.432 | 1 | 5196 | PF4 |
| -0.154697552 | 0.366243631 | 0.42 | 1 | 5825 | ABCD3 |
| -0.154697552 | 0.366243631 | 0.41 | 1 | 8859 | STK19 |
| -0.154697552 | 0.366243631 | 0.413 | 1 | 23097 | CDC2L6 |
| -0.154697552 | 0.366243631 | 0.386 | 1 | 79066 | METTL16 |
| -0.154697552 | 0.366243631 | 0.42 | 1 | 79133 | C20orf7 |
| -0.154697552 | 0.366243631 | 0.4 | 1 | 196051 | PPAPDC1A |
| -0.154954955 | 0.365438849 | 0.4 | 1 | 100 | ADA |
| -0.154954955 | 0.365438849 | 0.403 | 1 | 1979 | EIF4EBP2 |
| -0.154954955 | 0.365438849 | 0.423 | 1 | 6792 | CDKL5 |
| -0.154954955 | 0.365438849 | 0.366 | 1 | 7705 | ZNF146 |
| -0.154954955 | 0.365438849 | 0.432 | 1 | 8277 | TKTL1 |
| -0.154954955 | 0.365438849 | 0.392 | 1 | 8518 | IKBKAP |
| -0.154954955 | 0.365438849 | 0.383 | 1 | 9988 | DMTF1 |
| -0.154954955 | 0.365438849 | 0.413 | 1 | 10039 | PARP3 |
| -0.154954955 | 0.365438849 | 0.39 | 1 | 57580 | PREX1 |
| -0.154954955 | 0.365438849 | 0.442 | 1 | 60681 | FKBP10 |
| -0.154954955 | 0.365438849 | 0.418 | 1 | 255031 | FLJ35390 |
| -0.154954955 | 0.365438849 | 0.391 | 1 | 338328 | GPIHBP1 |
| -0.155212343 | 0.36463517 | 0.432 | 1 | 2099 | ESR1 |
| -0.155212343 | 0.36463517 | 0.393 | 1 | 4669 | NAGLU |
| -0.155212343 | 0.36463517 | 0.396 | 1 | 5317 | PKP1 |
| -0.155212343 | 0.36463517 | 0.403 | 1 | 5365 | PLXNB3 |
| -0.155212343 | 0.36463517 | 0.415 | 1 | 10297 | APC2 |
| -0.155212343 | 0.36463517 | 0.387 | 1 | 11276 | AP1GBP1 |
| -0.155212343 | 0.36463517 | 0.443 | 1 | 55676 | SLC30A6 |
| -0.155212343 | 0.36463517 | 0.408 | 1 | 57661 | PHRF1 |
| -0.155212343 | 0.36463517 | 0.41 | 1 | 79054 | TRPM8 |
| -0.155469745 | 0.363832504 | 0.406 | 1 | 3163 | HMOX2 |
| -0.155469745 | 0.363832504 | 0.417 | 1 | 3234 | HOXD8 |
| -0.155469745 | 0.363832504 | 0.382 | 1 | 6100 | RP9 |
| -0.155469745 | 0.363832504 | 0.415 | 1 | 9403 | RP4-604K5.1 |
| -0.155727148 | 0.36303091 | 0.387 | 1 | 8797 | TNFRSF10A |
| -0.155727148 | 0.36303091 | 0.384 | 1 | 51128 | SAR1B |
| -0.155727148 | 0.36303091 | 0.417 | 1 | 51778 | MYOZ2 |
| -0.155727148 | 0.36303091 | 0.404 | 1 | 115201 | ATG4A |
| -0.155727148 | 0.36303091 | 0.379 | 1 | 118987 | PDZD8 |
| -0.155727148 | 0.36303091 | 0.409 | 1 | 255394 | TCP11L2 |
| -0.155727148 | 0.36303091 | 0.386 | 1 | 401022 | HOXD-AS1 |
| -0.155727148 | 0.36303091 | 0.441 | 1 | 497190 | CLEC18B |
| -0.155984551 | 0.362230092 | 0.401 | 1 | 3306 | HSPA2 |
| -0.155984551 | 0.362230092 | 0.38 | 1 | 9531 | BAG3 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.108920008 | 8.88681E-23 | 9877 | ZC3H11A |
| -0.109052435 | 7.88732E-23 | 51264 | MRPL27 |
| -0.109109737 | 7.49006E-23 | 6201 | RPS7 |
| -0.109235384 | 6.68716E-23 | 389058 | SP5 |
| -0.109255068 | 6.56933E-23 | 11189 | CELF3 |
| -0.109256275 | 6.5621E-23 | 308 | ANXA5 |
| -0.109257951 | 6.55224E-23 | 122060 | SLAIN1 |
| -0.109287761 | 6.37818E-23 | 54807 | ZNF586 |
| -0.109296307 | 6.32907E-23 | 57480 | PLEKHG1 |
| -0.109311812 | 6.24105E-23 | 643382 | C14orf176 |
| -0.109316453 | 6.21491E-23 | 5428 | POLG |
| -0.10932342 | 6.17594E-23 | 3292 | HSD17B1 |
| -0.10938035 | 5.8661E-23 | 285527 | FRYL |
| -0.109538868 | 5.08223E-23 | 132241 | RPL32P3 |
| -0.10955596 | 5.00419E-23 | 7159 | TP53BP2 |
| -0.109576665 | 4.91121E-23 | 767 | CA8 |
| -0.109657645 | 4.56365E-23 | 9840 | KIAA0748 |
| -0.109677888 | 4.4807E-23 | 6161 | RPL32 |
| -0.109705195 | 4.37112E-23 | 3902 | LAG3 |
| -0.109717451 | 4.32274E-23 | 91526 | ANKRD44 |
| -0.109745957 | 4.21246E-23 | 10171 | RCL1 |
| -0.109762587 | 4.14937E-23 | 51506 | UFC1 |
| -0.109870955 | 3.76055E-23 | 2063 | NR2F6 |
| -0.109908663 | 3.63396E-23 | 9851 | KIAA0753 |
| -0.109909125 | 3.6324E-23 | 51107 | APH1A |
| -0.109930389 | 3.56288E-23 | 152404 | IGSF11 |
| -0.109940425 | 3.53056E-23 | 1138 | CHRNA5 |
| -0.110046849 | 3.20489E-23 | 284131 | AC120024.1 |
| -0.11009226 | 3.07515E-23 | 84872 | ZC3H10 |
| -0.110108234 | 3.03076E-23 | 79037 | PVRIG |
| -0.110156611 | 2.90017E-23 | 6813 | STXBP2 |
| -0.110217623 | 2.74337E-23 | 100130109 | SNRPEP4 |
| -0.110253751 | 2.65453E-23 | 3570 | IL6R |
| -0.110272698 | 2.60908E-23 | 22909 | MTMR15 |
| -0.110278085 | 2.59628E-23 | 154091 | SLC2A12 |
| -0.110406049 | 2.31024E-23 | 4217 | MAP3K5 |
| -0.11043939 | 2.24099E-23 | 1852 | DUSP9 |
| -0.110454716 | 2.20982E-23 | 9554 | SEC22B |
| -0.110505417 | 2.10984E-23 | 9084 | VCY1B |
| -0.110516749 | 2.0881E-23 | 50649 | ARHGEF4 |
| -0.110542469 | 2.0396E-23 | 10561 | IFI44 |
| -0.110574514 | 1.98075E-23 | 83666 | PARP9 |
| -0.110596612 | 1.94111E-23 | 100287825 | LOC100287825 |
| -0.110616393 | 1.90634E-23 | 85444 | LRRCC1 |
| -0.110648714 | 1.85079E-23 | 112817 | NPL2 |
| -0.110722728 | 1.72958E-23 | 55321 | C20orf46 |
| -0.110724956 | 1.72606E-23 | 55486 | PARL |
| -0.110747799 | 1.69034E-23 | 442194 | OR10C1 |
| -0.110760704 | 1.67048E-23 | 3115 | HLA-DPB1 |
| -0.110804357 | 1.60501E-23 | 6000 | RGS7 |
| -0.110860445 | 1.52461E-23 | 199731 | CADM4 |
| -0.11093279 | 1.42678E-23 | 23660 | ZKSCAN5 |
| -0.110971421 | 1.37709E-23 | 117289 | TAGAP |
| -0.110972352 | 1.37592E-23 | 26140 | TTLL3 |
| -0.110979125 | 1.36739E-23 | 11194 | ABCB8 |
| -0.110997051 | 1.34508E-23 | 114883 | OSBPL9 |
| -0.111031972 | 1.30267E-23 | 344148 | AC010974.2 |
| -0.111041255 | 1.29161E-23 | 8292 | COLQ |
| -0.111046918 | 1.28491E-23 | 846 | CASR |
| -0.111078404 | 1.24829E-23 | 55746 | NUP133 |
| -0.111102544 | 1.22091E-23 | 9274 | BCL7C |
| -0.111132175 | 1.18814E-23 | 8651 | SOCS1 |
| -0.111249648 | 1.06651E-23 | 4782 | NFIC |
| -0.111259863 | 1.05654E-23 | 79670 | ZCCHC6 |
| -0.111302674 | 1.01574E-23 | 7266 | DNAJC7 |
| -0.111342326 | 9.79334E-24 | 2091 | AC005393.1 |
| -0.111366376 | 9.57886E-24 | 1028 | CDKN1C |
| -0.111388482 | 9.38578E-24 | 100287482 | RP11-305M3.3 |
| -0.111388572 | 9.38506E-24 | 4303 | FOXO4 |
| -0.111467697 | 8.72524E-24 | 113263 | GLCCI1 |
| -0.111498155 | 8.48376E-24 | 9380 | GRHPR |
| -0.111572079 | 7.92475E-24 | 219983 | OR4D6 |
| -0.111580804 | 7.86118E-24 | 57381 | RHOJ |
| -0.111607738 | 7.66822E-24 | 2160 | F11 |
| -0.111607827 | 7.66766E-24 | 64077 | LHPP |
| -0.11163383 | 7.48579E-24 | 85457 | KIAA1737 |
| -0.111661881 | 7.29441E-24 | 593 | BCKDHA |
| -0.111679427 | 7.17724E-24 | 3850 | KRT3 |
| -0.111831449 | 6.2367E-24 | 10845 | CLPX |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.155984551 | 0.362230092 | 0.409 | 1 | 25938 | HEATR5A |
| -0.155984551 | 0.362230092 | 0.382 | 1 | 53904 | MYO3A |
| -0.155984551 | 0.362230092 | 0.403 | 1 | 55783 | FTSJD1 |
| -0.155984551 | 0.362230092 | 0.399 | 1 | 57412 | AS3MT |
| -0.155984551 | 0.362230092 | 0.421 | 1 | 119392 | C10orf78 |
| -0.155984551 | 0.362230092 | 0.405 | 1 | 140467 | ZNF358 |
| -0.155984551 | 0.362230092 | 0.401 | 1 | 399665 | FAM102A |
| -0.155984551 | 0.362230092 | 0.397 | 1 | 646050 | LOC646050 |
| -0.156241953 | 0.361430645 | 0.397 | 1 | 38 | ACAT1 |
| -0.156241953 | 0.361430645 | 0.406 | 1 | 5542 | PRB1 |
| -0.156241953 | 0.361430645 | 0.364 | 1 | 5757 | PTMA |
| -0.156241953 | 0.361430645 | 0.405 | 1 | 8887 | TAX1BP1 |
| -0.156241953 | 0.361430645 | 0.403 | 1 | 8932 | MBD2 |
| -0.156241953 | 0.361430645 | 0.427 | 1 | 23030 | KDM4B |
| -0.156241953 | 0.361430645 | 0.396 | 1 | 29119 | CTNNA3 |
| -0.156241953 | 0.361430645 | 0.42 | 1 | 151963 | C3orf59 |
| -0.156499341 | 0.36063233 | 0.391 | 1 | 873 | CBR1 |
| -0.156499341 | 0.36063233 | 0.425 | 1 | 930 | CD19 |
| -0.156499341 | 0.36063233 | 0.398 | 1 | 2588 | GALNS |
| -0.156499341 | 0.36063233 | 0.419 | 1 | 3455 | IFNAR2 |
| -0.156499341 | 0.36063233 | 0.402 | 1 | 4099 | MAG |
| -0.156499341 | 0.36063233 | 0.41 | 1 | 64285 | RHBDF1 |
| -0.156499341 | 0.36063233 | 0.41 | 1 | 80183 | C13orf18 |
| -0.156499341 | 0.36063233 | 0.386 | 1 | 93233 | CCDC114 |
| -0.156756744 | 0.359834999 | 0.386 | 1 | 4880 | NPPC |
| -0.156756744 | 0.359834999 | 0.406 | 1 | 6356 | CCL11 |
| -0.156756744 | 0.359834999 | 0.407 | 1 | 55540 | IL17RB |
| -0.156756744 | 0.359834999 | 0.414 | 1 | 84895 | FAM73B |
| -0.157014146 | 0.359038472 | 0.394 | 1 | 725 | C4BPB |
| -0.157014146 | 0.359038472 | 0.391 | 1 | 9026 | HIP1R |
| -0.157014146 | 0.359038472 | 0.404 | 1 | 9139 | CBFA2T2 |
| -0.157014146 | 0.359038472 | 0.415 | 1 | 55731 | C17orf63 |
| -0.157014146 | 0.359038472 | 0.416 | 1 | 84851 | TRIM52 |
| -0.157014146 | 0.359038472 | 0.364 | 1 | 91664 | ZNF845 |
| -0.157014146 | 0.359038472 | 0.408 | 1 | 128346 | C1orf162 |
| -0.157014146 | 0.359038472 | 0.401 | 1 | 200185 | KRTCAP2 |
| -0.157271549 | 0.358243316 | 0.407 | 1 | 3996 | LLGL1 |
| -0.157271549 | 0.358243316 | 0.407 | 1 | 5896 | RAG1 |
| -0.157271549 | 0.358243316 | 0.383 | 1 | 6206 | RPS12 |
| -0.157271549 | 0.358243316 | 0.395 | 1 | 25926 | NOL11 |
| -0.157271549 | 0.358243316 | 0.402 | 1 | 85009 | MGC16025 |
| -0.157271549 | 0.358243316 | 0.414 | 1 | 219699 | UNC5B |
| -0.157271549 | 0.358243316 | 0.397 | 1 | 254427 | C10orf47 |
| -0.157271549 | 0.358243316 | 0.399 | 1 | 728255 | KRTAP1-4 |
| -0.157528967 | 0.357449234 | 0.416 | 1 | 8359 | HIST1H4A |
| -0.157528967 | 0.357449234 | 0.395 | 1 | 79736 | TEFM |
| -0.157528967 | 0.357449234 | 0.377 | 1 | 90668 | LRRC16B |
| -0.157528967 | 0.357449234 | 0.407 | 1 | 162540 | AC217771.1 |
| -0.157528967 | 0.357449234 | 0.385 | 1 | 339344 | MYPOP |
| -0.157528967 | 0.357449234 | 0.412 | 1 | 729330 | OC90 |
| -0.157528967 | 0.357449234 | 0.404 | 1 | 729769 | UQCRHP2 |
| -0.157786369 | 0.356656253 | 0.401 | 1 | 3104 | ZBTB48 |
| -0.157786369 | 0.356656253 | 0.405 | 1 | 4283 | CXCL9 |
| -0.157786369 | 0.356656253 | 0.4 | 1 | 5463 | POU6F1 |
| -0.157786369 | 0.356656253 | 0.397 | 1 | 65125 | WNK1 |
| -0.158043757 | 0.355863959 | 0.395 | 1 | 2110 | ETFDH |
| -0.158043757 | 0.355863959 | 0.383 | 1 | 3643 | INSR |
| -0.158043757 | 0.355863959 | 0.38 | 1 | 9446 | GSTO1 |
| -0.158043757 | 0.355863959 | 0.403 | 1 | 11221 | DUSP10 |
| -0.158043757 | 0.355863959 | 0.377 | 1 | 51271 | UBAP1 |
| -0.158043757 | 0.355863959 | 0.425 | 1 | 84455 | EFCAB7 |
| -0.158043757 | 0.355863959 | 0.396 | 1 | 338755 | OR2AG2 |
| -0.15830116 | 0.355073154 | 0.386 | 1 | 8496 | PPFIBP1 |
| -0.15830116 | 0.355073154 | 0.393 | 1 | 25963 | TMEM87A |
| -0.15830116 | 0.355073154 | 0.388 | 1 | 79923 | NANOGP8 |
| -0.158558562 | 0.354283333 | 0.373 | 1 | 3067 | HDC |
| -0.158558562 | 0.354283333 | 0.369 | 1 | 6648 | SOD2 |
| -0.158558562 | 0.354283333 | 0.415 | 1 | 10307 | APBB3 |
| -0.158558562 | 0.354283333 | 0.393 | 1 | 57447 | NDRG2 |
| -0.158558562 | 0.354283333 | 0.375 | 1 | 84725 | PLEKHA8 |
| -0.158558562 | 0.354283333 | 0.386 | 1 | 283150 | FOXR1 |
| -0.158558562 | 0.354283333 | 0.427 | 1 | 414899 | BLID |
| -0.158815965 | 0.353494585 | 0.384 | 1 | 43 | ACHE |
| -0.158815965 | 0.353494585 | 0.424 | 1 | 3779 | KCNMB1 |
| -0.158815965 | 0.353494585 | 0.39 | 1 | 8503 | PIK3R3 |
| -0.158815965 | 0.353494585 | 0.404 | 1 | 23390 | ZDHHC17 |
| -0.158815965 | 0.353494585 | 0.386 | 1 | 23676 | SMPX |
| -0.158815965 | 0.353494585 | 0.383 | 1 | 259289 | TAS2R43 |
| -0.158815965 | 0.353494585 | 0.383 | 1 | 440050 | KRTAP5-7 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.111837767 | 6.20031E-24 | 57337 | SENP7 |
| -0.112039194 | 5.14582E-24 | 7175 | TPR |
| -0.112058692 | 5.05369E-24 | 148254 | ZNF555 |
| -0.112144686 | 4.66654E-24 | 29896 | TRA2A |
| -0.112149335 | 4.64646E-24 | 883 | CCBL1 |
| -0.112157598 | 4.61098E-24 | 65083 | NOL6 |
| -0.112222232 | 4.34271E-24 | 2872 | MKNK2 |
| -0.112226784 | 4.32441E-24 | 4940 | OAS3 |
| -0.112230308 | 4.31028E-24 | 8864 | PER2 |
| -0.112258449 | 4.19915E-24 | 1495 | CTNNA1 |
| -0.112283058 | 4.10434E-24 | 158880 | USP51 |
| -0.112299591 | 4.04181E-24 | 90592 | ZNF700 |
| -0.112308316 | 4.00921E-24 | 3290 | HSD11B1 |
| -0.112333111 | 3.91791E-24 | 51272 | BET1L |
| -0.112421989 | 3.60736E-24 | 10418 | SPON1 |
| -0.1124309 | 3.57762E-24 | 1473 | CST5 |
| -0.112482719 | 3.40931E-24 | 57130 | ATP13A1 |
| -0.112582549 | 3.10691E-24 | 80776 | B9D2 |
| -0.112617008 | 3.00879E-24 | 6738 | TROVE2 |
| -0.112622857 | 2.99248E-24 | 54556 | ING3 |
| -0.112645425 | 2.93022E-24 | 5981 | RFC1 |
| -0.112665482 | 2.87601E-24 | 5925 | RB1 |
| -0.112669848 | 2.86434E-24 | 7752 | ZNF200 |
| -0.112694733 | 2.79868E-24 | 2815 | GP9 |
| -0.112723522 | 2.7246E-24 | 387071 | FAM136BP |
| -0.112780541 | 2.58355E-24 | 646962 | HRCT1 |
| -0.11284174 | 2.4402E-24 | 9368 | SLC9A3R1 |
| -0.112850845 | 2.41956E-24 | 90113 | VWA5B2 |
| -0.112859569 | 2.39994E-24 | 222183 | AC005077.3 |
| -0.112895139 | 2.32157E-24 | 23545 | ATP6V0A2 |
| -0.113080591 | 1.95226E-24 | 10672 | GNA13 |
| -0.113124795 | 1.87321E-24 | 7855 | FZD5 |
| -0.113125354 | 1.87222E-24 | 55619 | DOCK10 |
| -0.113151357 | 1.82722E-24 | 54790 | TET2 |
| -0.113198623 | 1.74818E-24 | 23036 | ZNF292 |
| -0.11320132 | 1.74377E-24 | 4820 | NKTR |
| -0.11322955 | 1.69828E-24 | 729614 | RP11-169K16.9 |
| -0.113237254 | 1.68607E-24 | 391192 | OR2L3 |
| -0.113297246 | 1.59394E-24 | 3033 | HADH |
| -0.113333374 | 1.5409E-24 | 2304 | FOXE1 |
| -0.113355197 | 1.5097E-24 | 345895 | RSHL1 |
| -0.113360673 | 1.50199E-24 | 51161 | C3orf18 |
| -0.11339578 | 1.45334E-24 | 51135 | IRAK4 |
| -0.113530435 | 1.28086E-24 | 2261 | FGFR3 |
| -0.113566376 | 1.23837E-24 | 65989 | DLK2 |
| -0.11358235 | 1.21992E-24 | 6302 | TSPAN31 |
| -0.113590986 | 1.21008E-24 | 51742 | ARID4B |
| -0.113624975 | 1.17204E-24 | 374291 | NDUFS7 |
| -0.113639086 | 1.15661E-24 | 54596 | L1TD1 |
| -0.113659151 | 1.135E-24 | 90141 | EFCAB11 |
| -0.113688774 | 1.10384E-24 | 55333 | SYNJ2BP |
| -0.113715239 | 1.07671E-24 | 3684 | ITGAM |
| -0.113718584 | 1.07332E-24 | 1523 | CUX1 |
| -0.113745421 | 1.04658E-24 | 153328 | AC011427.1 |
| -0.113768362 | 1.02424E-24 | 55775 | TDP1 |
| -0.113796778 | 9.97211E-25 | 83591 | THAP2 |
| -0.113812283 | 9.82775E-25 | 3065 | HDAC1 |
| -0.113908768 | 8.97437E-25 | 10793 | ZNF273 |
| -0.113984644 | 8.35516E-25 | 253152 | EPHX4 |
| -0.114025041 | 8.04302E-25 | 8665 | EIF3F |
| -0.114030518 | 8.00147E-25 | 23404 | EXOSC2 |
| -0.114033028 | 7.98249E-25 | 8659 | ALDH4A1 |
| -0.114043057 | 7.9075E-25 | 3433 | IFIT2 |
| -0.114047974 | 7.8709E-25 | 27237 | ARHGEF16 |
| -0.114075743 | 7.66736E-25 | 646799 | ZAR1L |
| -0.114078157 | 7.64996E-25 | 7923 | HSD17B8 |
| -0.114120319 | 7.35165E-25 | 25876 | SPEF1 |
| -0.11412283 | 7.3342E-25 | 26088 | GGA1 |
| -0.114135735 | 7.24544E-25 | 9975 | NR1D2 |
| -0.114158578 | 7.09088E-25 | 221035 | REEP3 |
| -0.114165172 | 7.04687E-25 | 4047 | LSS |
| -0.114234358 | 6.60119E-25 | 64750 | SMURF2 |
| -0.114413217 | 5.57424E-25 | 3988 | LIPA |
| -0.114482872 | 5.21859E-25 | 65988 | ZNF747 |
| -0.114485003 | 5.20807E-25 | 57634 | EP400 |
| -0.114546113 | 4.91528E-25 | 90827 | ZNF479 |
| -0.114554651 | 4.87568E-25 | 3811 | KIR3DL1 |
| -0.11458493 | 4.73785E-25 | 100272217 | LOC100272217 |
| -0.114586882 | 4.72908E-25 | 10428 | CFDP1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.158815965 | 0.353494585 | 0.37 | 1 | 494513 | DFNB59 |
| -0.159073368 | 0.352707028 | 0.381 | 1 | 1548 | CYP2A6 |
| -0.159073368 | 0.352707028 | 0.403 | 1 | 10148 | EBI3 |
| -0.159073368 | 0.352707028 | 0.399 | 1 | 10668 | CGRRF1 |
| -0.159073368 | 0.352707028 | 0.383 | 1 | 55035 | NOL8 |
| -0.159073368 | 0.352707028 | 0.38 | 1 | 127665 | ZNF648 |
| -0.159330755 | 0.351920068 | 0.413 | 1 | 11039 | SMA4 |
| -0.159330755 | 0.351920068 | 0.395 | 1 | 51575 | ESF1 |
| -0.159330755 | 0.351920068 | 0.375 | 1 | 79109 | MAPKAP1 |
| -0.159330755 | 0.351920068 | 0.387 | 1 | 157927 | C9orf62 |
| -0.159330755 | 0.351920068 | 0.411 | 1 | 169200 | TMEM64 |
| -0.159588158 | 0.351134628 | 0.392 | 1 | 207 | AKT1 |
| -0.159588158 | 0.351134628 | 0.408 | 1 | 6094 | ROM1 |
| -0.159588158 | 0.351134628 | 0.384 | 1 | 8342 | HIST1H2BM |
| -0.159588158 | 0.351134628 | 0.406 | 1 | 9690 | UBE3C |
| -0.159588158 | 0.351134628 | 0.389 | 1 | 23378 | RRP8 |
| -0.159588158 | 0.351134628 | 0.395 | 1 | 84865 | CCDC142 |
| -0.159588158 | 0.351134628 | 0.367 | 1 | 90226 | UCN2 |
| -0.159588158 | 0.351134628 | 0.376 | 1 | 113675 | SDSL |
| -0.159588158 | 0.351134628 | 0.415 | 1 | 728411 | AC138951.4 |
| -0.159845561 | 0.350350201 | 0.431 | 1 | 582 | BBS1 |
| -0.159845561 | 0.350350201 | 0.387 | 1 | 4077 | NBR1 |
| -0.159845561 | 0.350350201 | 0.396 | 1 | 7542 | ZFPL1 |
| -0.159845561 | 0.350350201 | 0.373 | 1 | 9377 | COX5A |
| -0.159845561 | 0.350350201 | 0.382 | 1 | 84514 | GHDC |
| -0.159845561 | 0.350350201 | 0.371 | 1 | 84938 | ATG4C |
| -0.159845561 | 0.350350201 | 0.405 | 1 | 157777 | C8orf45 |
| -0.160102963 | 0.349566877 | 0.378 | 1 | 7093 | TLL2 |
| -0.160102963 | 0.349566877 | 0.393 | 1 | 23017 | FAIM2 |
| -0.160102963 | 0.349566877 | 0.366 | 1 | 23351 | KIAA0323 |
| -0.160102963 | 0.349566877 | 0.405 | 1 | 51088 | KLHL5 |
| -0.160102963 | 0.349566877 | 0.396 | 1 | 54874 | FNBP1L |
| -0.160102963 | 0.349566877 | 0.388 | 1 | 55743 | CHFR |
| -0.160102963 | 0.349566877 | 0.391 | 1 | 56246 | MRAP |
| -0.160102963 | 0.349566877 | 0.402 | 1 | 353219 | KAAG1 |
| -0.160102963 | 0.349566877 | 0.405 | 1 | 441177 | LINC00602 |
| -0.160102963 | 0.349566877 | 0.411 | 1 | 644150 | WIPF3 |
| -0.160360366 | 0.348784268 | 0.393 | 1 | 55726 | C12orf11 |
| -0.160360366 | 0.348784268 | 0.382 | 1 | 57165 | GJC2 |
| -0.160360366 | 0.348784268 | 0.399 | 1 | 116179 | TGM7 |
| -0.160360366 | 0.348784268 | 0.39 | 1 | 129804 | FBLN7 |
| -0.160360366 | 0.348784268 | 0.4 | 1 | 359948 | IRF2BP2 |
| -0.160617754 | 0.348003089 | 0.396 | 1 | 4040 | LRP6 |
| -0.160617754 | 0.348003089 | 0.364 | 1 | 5158 | PDE6B |
| -0.160617754 | 0.348003089 | 0.393 | 1 | 5998 | RGS3 |
| -0.160617754 | 0.348003089 | 0.38 | 1 | 9712 | USP6NL |
| -0.160617754 | 0.348003089 | 0.387 | 1 | 9813 | KIAA0494 |
| -0.160617754 | 0.348003089 | 0.424 | 1 | 50807 | ASAP1 |
| -0.160617754 | 0.348003089 | 0.387 | 1 | 79603 | LASS4 |
| -0.160617754 | 0.348003089 | 0.395 | 1 | 339327 | ZNF546 |
| -0.160875157 | 0.347223014 | 0.384 | 1 | 58486 | ZBED5 |
| -0.160875157 | 0.347223014 | 0.383 | 1 | 84433 | CARD11 |
| -0.160875157 | 0.347223014 | 0.425 | 1 | 126070 | ZNF440 |
| -0.160875157 | 0.347223014 | 0.371 | 1 | 100132831 | LOC100132831 |
| -0.161132559 | 0.346443951 | 0.396 | 1 | 2720 | GLB1 |
| -0.161132559 | 0.346443951 | 0.41 | 1 | 3551 | IKBKB |
| -0.161132559 | 0.346443951 | 0.394 | 1 | 23052 | ENDOD1 |
| -0.161132559 | 0.346443951 | 0.386 | 1 | 54454 | ATAD2B |
| -0.161132559 | 0.346443951 | 0.407 | 1 | 55997 | CFC1 |
| -0.161132559 | 0.346443951 | 0.362 | 1 | 284293 | HMSD |
| -0.161132559 | 0.346443951 | 0.392 | 1 | 730755 | KRTAP2-1 |
| -0.161389962 | 0.345665634 | 0.364 | 1 | 2253 | FGF8 |
| -0.161389962 | 0.345665634 | 0.393 | 1 | 2911 | GRM1 |
| -0.161389962 | 0.345665634 | 0.4 | 1 | 3001 | GZMA |
| -0.161389962 | 0.345665634 | 0.4 | 1 | 5538 | PPT1 |
| -0.161389962 | 0.345665634 | 0.375 | 1 | 5831 | PYCR1 |
| -0.161389962 | 0.345665634 | 0.373 | 1 | 10011 | SRA1 |
| -0.161389962 | 0.345665634 | 0.407 | 1 | 10060 | ABCC9 |
| -0.161389962 | 0.345665634 | 0.414 | 1 | 10068 | IL18BP |
| -0.161389962 | 0.345665634 | 0.398 | 1 | 23149 | FCHO1 |
| -0.161389962 | 0.345665634 | 0.368 | 1 | 24150 | TP53TG3 |
| -0.161389962 | 0.345665634 | 0.378 | 1 | 83939 | EIF2A |
| -0.161389962 | 0.345665634 | 0.358 | 1 | 84992 | PIGY |
| -0.161389962 | 0.345665634 | 0.408 | 1 | 390595 | UBAP1L |
| -0.161389962 | 0.345665634 | 0.382 | 1 | 729967 | MORN2 |
| -0.161647364 | 0.344888806 | 0.385 | 1 | 2306 | FOXD2 |
| -0.161647364 | 0.344888806 | 0.377 | 1 | 23038 | WDTC1 |
| -0.161647364 | 0.344888806 | 0.395 | 1 | 160335 | TMTC2 |
| -0.161904752 | 0.344112962 | 0.393 | 1 | 1120 | CHKB |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.11462681 | 4.55342E-25 | 57038 | RARS2 |
| -0.114637397 | 4.50798E-25 | 4862 | NPAS2 |
| -0.114658386 | 4.41916E-25 | 93164 | AC007688.2 |
| -0.114675842 | 4.34662E-25 | 6649 | SOD3 |
| -0.114679188 | 4.33285E-25 | 3587 | IL10RA |
| -0.11469423 | 4.27146E-25 | 2783 | GNB2 |
| -0.114706121 | 4.22358E-25 | 286411 | RP1-177G6.1 |
| -0.114787653 | 3.90913E-25 | 11015 | KDELR3 |
| -0.114848763 | 3.68879E-25 | 286436 | H2BFM |
| -0.114878945 | 3.58452E-25 | 29929 | ALG6 |
| -0.114885539 | 3.56211E-25 | 5137 | PDE1C |
| -0.114898354 | 3.51899E-25 | 641311 | RPL31P11 |
| -0.114909306 | 3.4826E-25 | 78998 | C8ORF51 |
| -0.115035422 | 3.08906E-25 | 203429 | FAM226A |
| -0.115035981 | 3.08742E-25 | 8664 | EIF3D |
| -0.115144633 | 2.78411E-25 | 51479 | ANKFY1 |
| -0.1152023 | 2.6353E-25 | 91851 | CHRDL1 |
| -0.115212798 | 2.60909E-25 | 6348 | CCL3 |
| -0.115246043 | 2.52771E-25 | 4851 | NOTCH1 |
| -0.115316994 | 2.3624E-25 | 6907 | TBL1X |
| -0.115356833 | 2.27432E-25 | 4638 | MYLK |
| -0.115369461 | 2.24708E-25 | 414149 | ACBD7 |
| -0.115392581 | 2.19803E-25 | 58529 | MYOZ1 |
| -0.115408368 | 2.16516E-25 | 9775 | EIF4A3 |
| -0.115453042 | 2.07478E-25 | 1641 | DCX |
| -0.115490556 | 2.00177E-25 | 54887 | UHRF1BP1 |
| -0.115519904 | 1.94645E-25 | 388561 | ZNF761 |
| -0.115549438 | 1.89227E-25 | 2059 | EPS8 |
| -0.115559183 | 1.87472E-25 | 4052 | LTBP1 |
| -0.115564667 | 1.86493E-25 | 9844 | ELMO1 |
| -0.115582399 | 1.83359E-25 | 255877 | BCL6B |
| -0.115653165 | 1.71363E-25 | 53834 | FGFRL1 |
| -0.115674712 | 1.67868E-25 | 3454 | IFNAR1 |
| -0.115688458 | 1.65674E-25 | 10487 | CAP1 |
| -0.115691796 | 1.65146E-25 | 646090 | RHPN2P1 |
| -0.115764976 | 1.53974E-25 | 9863 | MAGI2 |
| -0.115777701 | 1.52109E-25 | 3695 | ITGB7 |
| -0.115802683 | 1.48514E-25 | 54811 | ZNF562 |
| -0.115943745 | 1.29736E-25 | 8242 | KDM5C |
| -0.116151206 | 1.06313E-25 | 140803 | TRPM6 |
| -0.116226889 | 9.88565E-26 | 9911 | TMCC2 |
| -0.116234414 | 9.8143E-26 | 81844 | TRIM56 |
| -0.116258837 | 9.58661E-26 | 400618 | AC005152.2 |
| -0.116271935 | 9.46667E-26 | 7456 | WIPF1 |
| -0.116337404 | 8.88875E-26 | 219965 | OR5B17 |
| -0.116347522 | 8.80273E-26 | 22907 | DHX30 |
| -0.11635486 | 8.74084E-26 | 26747 | NUFIP1 |
| -0.116388947 | 8.45868E-26 | 3835 | KIF22 |
| -0.116411977 | 8.27326E-26 | 25842 | ASF1A |
| -0.116419308 | 8.215E-26 | 6299 | SALL1 |
| -0.116431013 | 8.12294E-26 | 8801 | SUCLG2 |
| -0.116581082 | 7.02927E-26 | 858 | CAV2 |
| -0.116595201 | 6.93425E-26 | 51112 | TTC15 |
| -0.116595477 | 6.93238E-26 | 246176 | GAS2L2 |
| -0.116601698 | 6.89093E-26 | 10425 | ARIH2 |
| -0.116602816 | 6.88348E-26 | 79635 | CCDC121 |
| -0.116725765 | 6.11344E-26 | 5878 | RAB5C |
| -0.116726793 | 6.10742E-26 | 84919 | PPP1R15B |
| -0.116795696 | 5.71425E-26 | 64969 | MRPS5 |
| -0.116807491 | 5.6495E-26 | 8550 | MAPKAPK5 |
| -0.116831079 | 5.52223E-26 | 7559 | ZNF12 |
| -0.116866738 | 5.3351E-26 | 22938 | SNW1 |
| -0.116869986 | 5.31838E-26 | 51114 | ZDHHC9 |
| -0.116889209 | 5.22052E-26 | 390595 | UBAP1L |
| -0.116966568 | 4.8442E-26 | 51524 | TMEM138 |
| -0.117050707 | 4.46534E-26 | 6203 | RPS9 |
| -0.117066771 | 4.39645E-26 | 3221 | HOXC4 |
| -0.117101692 | 4.25026E-26 | 9919 | SEC16A |
| -0.117217585 | 3.79872E-26 | 1632 | DCI |
| -0.11722938 | 3.75553E-26 | 2078 | ERG |
| -0.117244519 | 3.70081E-26 | 632 | BGLAP |
| -0.117305905 | 3.48689E-26 | 5396 | PRRX1 |
| -0.117307946 | 3.47998E-26 | 4919 | ROR1 |
| -0.117368124 | 3.28256E-26 | 79709 | GLT25D1 |
| -0.117393292 | 3.20331E-26 | 7592 | ZNF41 |
| -0.117403135 | 3.17285E-26 | 127428 | C1orf83 |
| -0.117405921 | 3.16429E-26 | 51324 | SPG21 |
| -0.117442325 | 3.05434E-26 | 2734 | GLG1 |
| -0.11751847 | 2.83654E-26 | 5028 | P2RY1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.161904752 | 0.344112962 | 0.394 | 1 | 1482 | NKX2-5 |
| -0.161904752 | 0.344112962 | 0.384 | 1 | 3572 | IL6ST |
| -0.161904752 | 0.344112962 | 0.389 | 1 | 4004 | LMO1 |
| -0.161904752 | 0.344112962 | 0.395 | 1 | 8242 | KDM5C |
| -0.161904752 | 0.344112962 | 0.374 | 1 | 30833 | NT5C |
| -0.161904752 | 0.344112962 | 0.384 | 1 | 51043 | ZBTB7B |
| -0.161904752 | 0.344112962 | 0.362 | 1 | 51542 | VPS54 |
| -0.161904752 | 0.344112962 | 0.374 | 1 | 441208 | ZNRF2P1 |
| -0.162162155 | 0.343338281 | 0.365 | 1 | 534 | ATP6V1G2 |
| -0.162162155 | 0.343338281 | 0.392 | 1 | 1660 | DHX9 |
| -0.162162155 | 0.343338281 | 0.355 | 1 | 5934 | RBL2 |
| -0.162162155 | 0.343338281 | 0.416 | 1 | 6716 | SRD5A2 |
| -0.162162155 | 0.343338281 | 0.403 | 1 | 10194 | TSHZ1 |
| -0.162162155 | 0.343338281 | 0.396 | 1 | 64856 | VWA1 |
| -0.162162155 | 0.343338281 | 0.41 | 1 | 221749 | C6orf145 |
| -0.162162155 | 0.343338281 | 0.384 | 1 | 340784 | HMX3 |
| -0.162162155 | 0.343338281 | 0.382 | 1 | 348327 | ZNF530 |
| -0.162419558 | 0.342564672 | 0.372 | 1 | 629 | CFB |
| -0.162419558 | 0.342564672 | 0.373 | 1 | 7702 | ZNF143 |
| -0.162419558 | 0.342564672 | 0.347 | 1 | 9878 | TOX4 |
| -0.162419558 | 0.342564672 | 0.396 | 1 | 83473 | KATNAL2 |
| -0.162419558 | 0.342564672 | 0.39 | 1 | 158314 | LINC00475 |
| -0.16267696 | 0.341791719 | 0.383 | 1 | 3766 | KCNJ10 |
| -0.16267696 | 0.341791719 | 0.372 | 1 | 10413 | YAP1 |
| -0.16267696 | 0.341791719 | 0.379 | 1 | 23060 | ZNF609 |
| -0.16267696 | 0.341791719 | 0.388 | 1 | 55156 | ARMC1 |
| -0.16267696 | 0.341791719 | 0.365 | 1 | 84223 | IQCG |
| -0.16267696 | 0.341791719 | 0.417 | 1 | 159296 | NKX2-3 |
| -0.16267696 | 0.341791719 | 0.395 | 1 | 440335 | LOC440335 |
| -0.162934363 | 0.341020256 | 0.417 | 1 | 2521 | FUS |
| -0.162934363 | 0.341020256 | 0.379 | 1 | 6342 | SCP2 |
| -0.162934363 | 0.341020256 | 0.396 | 1 | 6524 | SLC5A2 |
| -0.162934363 | 0.341020256 | 0.396 | 1 | 339500 | ZNF678 |
| -0.162934363 | 0.341020256 | 0.39 | 1 | 344148 | AC010974.2 |
| -0.162934363 | 0.341020256 | 0.387 | 1 | 387254 | SLC7A5P2 |
| -0.163191751 | 0.340249896 | 0.368 | 1 | 978 | CDA |
| -0.163191751 | 0.340249896 | 0.359 | 1 | 3821 | KLRK1 |
| -0.163191751 | 0.340249896 | 0.387 | 1 | 5165 | PDK3 |
| -0.163191751 | 0.340249896 | 0.349 | 1 | 79957 | PAQR6 |
| -0.163191751 | 0.340249896 | 0.41 | 1 | 93659 | CGB5 |
| -0.163191751 | 0.340249896 | 0.398 | 1 | 127495 | LRRC39 |
| -0.163191751 | 0.340249896 | 0.382 | 1 | 284325 | C19orf54 |
| -0.163191751 | 0.340249896 | 0.382 | 1 | 374454 | KRT77 |
| -0.163449153 | 0.339480609 | 0.364 | 1 | 2200 | FBN1 |
| -0.163449153 | 0.339480609 | 0.357 | 1 | 7249 | TSC2 |
| -0.163449153 | 0.339480609 | 0.376 | 1 | 9557 | CHD1L |
| -0.163449153 | 0.339480609 | 0.387 | 1 | 10105 | PPIF |
| -0.163449153 | 0.339480609 | 0.383 | 1 | 10450 | PPIE |
| -0.163449153 | 0.339480609 | 0.38 | 1 | 57232 | ZNF630 |
| -0.163449153 | 0.339480609 | 0.375 | 1 | 120224 | TMEM45B |
| -0.163706556 | 0.338711947 | 0.397 | 1 | 307 | ANXA4 |
| -0.163706556 | 0.338711947 | 0.372 | 1 | 5781 | PTPN11 |
| -0.163706556 | 0.338711947 | 0.358 | 1 | 6536 | SLC6A9 |
| -0.163706556 | 0.338711947 | 0.374 | 1 | 6691 | SPINK2 |
| -0.163706556 | 0.338711947 | 0.35 | 1 | 26520 | TIMM9 |
| -0.163706556 | 0.338711947 | 0.393 | 1 | 51075 | TMX2 |
| -0.163706556 | 0.338711947 | 0.347 | 1 | 79023 | NUP37 |
| -0.163963959 | 0.337944806 | 0.362 | 1 | 9101 | USP8 |
| -0.163963959 | 0.337944806 | 0.378 | 1 | 83887 | TTLL2 |
| -0.164221361 | 0.337178737 | 0.405 | 1 | 5376 | PMP22 |
| -0.164221361 | 0.337178737 | 0.362 | 1 | 54942 | C9orf6 |
| -0.164221361 | 0.337178737 | 0.404 | 1 | 79660 | PPP1R3B |
| -0.164221361 | 0.337178737 | 0.39 | 1 | 284186 | TMEM105 |
| -0.164478764 | 0.336413711 | 0.363 | 1 | 3936 | LCP1 |
| -0.164478764 | 0.336413711 | 0.366 | 1 | 9066 | SYT7 |
| -0.164478764 | 0.336413711 | 0.378 | 1 | 25925 | ZNF521 |
| -0.164478764 | 0.336413711 | 0.359 | 1 | 54739 | XAF1 |
| -0.164478764 | 0.336413711 | 0.394 | 1 | 79618 | HMBOX1 |
| -0.164478764 | 0.336413711 | 0.376 | 1 | 80010 | RMI1 |
| -0.164478764 | 0.336413711 | 0.372 | 1 | 124641 | OVCA2 |
| -0.164478764 | 0.336413711 | 0.354 | 1 | 643904 | RNF222 |
| -0.164478764 | 0.336413711 | 0.381 | 1 | 100131211 | TMEM194B |
| -0.164736167 | 0.335649818 | 0.373 | 1 | 487 | ATP2A1 |
| -0.164736167 | 0.335649818 | 0.386 | 1 | 1298 | COL9A2 |
| -0.164736167 | 0.335649818 | 0.347 | 1 | 50862 | RNF141 |
| -0.164736167 | 0.335649818 | 0.367 | 1 | 51479 | ANKFY1 |
| -0.164736167 | 0.335649818 | 0.387 | 1 | 55717 | BRWD2 |
| -0.164736167 | 0.335649818 | 0.381 | 1 | 285636 | C5orf51 |
| -0.164993569 | 0.33488664 | 0.368 | 1 | 4987 | OPRL1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.117543451 | 2.76846E-26 | 4123 | MAN2C1 |
| -0.117547169 | 2.75849E-26 | 8909 | AC004241.1 |
| -0.117614865 | 2.58269E-26 | 7712 | ZNF157 |
| -0.117620535 | 2.56852E-26 | 838 | CASP5 |
| -0.117632233 | 2.53945E-26 | 23243 | ANKRD28 |
| -0.117659166 | 2.47374E-26 | 230 | ALDOC |
| -0.117662229 | 2.46637E-26 | 4926 | NUMA1 |
| -0.117721573 | 2.32794E-26 | 23325 | KIAA1033 |
| -0.117762245 | 2.23751E-26 | 51315 | KRCC1 |
| -0.1177641 | 2.23348E-26 | 11238 | CA5B |
| -0.11778193 | 2.19503E-26 | 400322 | AC091565.3 |
| -0.117894948 | 1.96606E-26 | 51460 | SFMBT1 |
| -0.117896155 | 1.96375E-26 | 84236 | RHBDD1 |
| -0.117928475 | 1.90282E-26 | 127066 | OR14C36 |
| -0.117934421 | 1.89181E-26 | 85007 | AGXT2L2 |
| -0.117973886 | 1.82034E-26 | 114879 | OSBPL5 |
| -0.117991716 | 1.78896E-26 | 84078 | KBTBD7 |
| -0.118078269 | 1.64397E-26 | 920 | CD4 |
| -0.118103899 | 1.60332E-26 | 163589 | TDRD5 |
| -0.118170299 | 1.5026E-26 | 84952 | CGNL1 |
| -0.118234187 | 1.4116E-26 | 27343 | POLL |
| -0.118235491 | 1.40982E-26 | 1160 | CKMT2 |
| -0.118268922 | 1.36445E-26 | 4811 | NID1 |
| -0.118327521 | 1.2884E-26 | 2246 | FGF1 |
| -0.118379153 | 1.22489E-26 | 54921 | CHTF8 |
| -0.118388996 | 1.21316E-26 | 1312 | COMT |
| -0.118498489 | 1.08973E-26 | 23341 | DNAJC16 |
| -0.118554763 | 1.03124E-26 | 80303 | EFHD1 |
| -0.118578628 | 1.00739E-26 | 633 | BGN |
| -0.118598133 | 9.88288E-27 | 143458 | LDLRAD3 |
| -0.118612245 | 9.74708E-27 | 3576 | IL8 |
| -0.118618377 | 9.68857E-27 | 55858 | TMEM165 |
| -0.118672609 | 9.18635E-27 | 79848 | CSPP1 |
| -0.1186793 | 9.12628E-27 | 118611 | C10orf90 |
| -0.118713468 | 8.82519E-27 | 2186 | BPTF |
| -0.118731767 | 8.66795E-27 | 3861 | KRT14 |
| -0.118769191 | 8.35503E-27 | 81786 | TRIM7 |
| -0.118799098 | 8.11307E-27 | 10057 | ABCC5 |
| -0.118813023 | 8.00284E-27 | 170958 | ZNF525 |
| -0.118995599 | 6.68728E-27 | 8243 | SMC1A |
| -0.119010366 | 6.59071E-27 | 54663 | WDR74 |
| -0.119034231 | 6.43767E-27 | 10637 | LEFTY1 |
| -0.119055681 | 6.30307E-27 | 64852 | TUT1 |
| -0.119119108 | 5.92131E-27 | 91746 | YTHDC1 |
| -0.119185232 | 5.54768E-27 | 8073 | PTP4A2 |
| -0.119211607 | 5.40522E-27 | 10973 | ASCC3 |
| -0.119231388 | 5.3008E-27 | 56674 | TMEM9B |
| -0.119266488 | 5.12036E-27 | 55749 | CCAR1 |
| -0.11930085 | 4.94965E-27 | 26986 | PABPCP5 |
| -0.119324155 | 4.8371E-27 | 255919 | TMEM188 |
| -0.119367525 | 4.63433E-27 | 8703 | B4GALT3 |
| -0.119393438 | 4.51731E-27 | 56302 | TRPV5 |
| -0.119409777 | 4.44492E-27 | 692094 | MSMP |
| -0.119506545 | 4.03956E-27 | 122046 | TEX26 |
| -0.119531438 | 3.94134E-27 | 256356 | GK5 |
| -0.119537748 | 3.91682E-27 | 81533 | ITFG1 |
| -0.119544156 | 3.89211E-27 | 23236 | PLCB1 |
| -0.119579636 | 3.75785E-27 | 440181 | LOC440181 |
| -0.119590871 | 3.71633E-27 | 2920 | CXCL2 |
| -0.119616777 | 3.62228E-27 | 51081 | MRPS7 |
| -0.119655505 | 3.48603E-27 | 7920 | BAT5 |
| -0.119704634 | 3.32054E-27 | 113675 | SDSL |
| -0.119711593 | 3.29771E-27 | 5971 | RELB |
| -0.119719118 | 3.27322E-27 | 51009 | DERL2 |
| -0.119819596 | 2.96307E-27 | 5069 | PAPPA |
| -0.119833432 | 2.92264E-27 | 1630 | DCC |
| -0.119844764 | 2.89007E-27 | 51574 | LARP7 |
| -0.119863898 | 2.83568E-27 | 57419 | SLC24A3 |
| -0.119929552 | 2.65692E-27 | 339500 | ZNF678 |
| -0.120006815 | 2.46077E-27 | 84265 | POLR3GL |
| -0.120032445 | 2.39893E-27 | 54852 | PAQR5 |
| -0.120034397 | 2.39428E-27 | 165545 | DQX1 |
| -0.120052785 | 2.35099E-27 | 54739 | XAF1 |
| -0.120113149 | 2.21411E-27 | 55086 | CXorf57 |
| -0.12014398 | 2.1473E-27 | 79939 | SLC35E1 |
| -0.120223843 | 1.98336E-27 | 11129 | SFRS16 |
| -0.120242693 | 1.94654E-27 | 90427 | BMF |
| -0.120248362 | 1.93558E-27 | 134548 | ANKRD43 |
| -0.120256901 | 1.9192E-27 | 5304 | PIP |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.164993569 | 0.33488664 | 0.364 | 1 | 51081 | MRPS7 |
| -0.164993569 | 0.33488664 | 0.398 | 1 | 55217 | TMLHE |
| -0.164993569 | 0.33488664 | 0.367 | 1 | 84106 | PRAM1 |
| -0.164993569 | 0.33488664 | 0.389 | 1 | 163050 | ZNF564 |
| -0.164993569 | 0.33488664 | 0.379 | 1 | 100130700 | LOC100130700 |
| -0.165250972 | 0.334124833 | 0.39 | 1 | 672 | BRCA1 |
| -0.165250972 | 0.334124833 | 0.355 | 1 | 883 | CCBL1 |
| -0.165250972 | 0.334124833 | 0.368 | 1 | 2059 | EPS8 |
| -0.165250972 | 0.334124833 | 0.352 | 1 | 2692 | GHRHR |
| -0.165250972 | 0.334124833 | 0.355 | 1 | 6944 | VPS72 |
| -0.165250972 | 0.334124833 | 0.39 | 1 | 10899 | JTB |
| -0.165250972 | 0.334124833 | 0.381 | 1 | 26637 | OR7E36P |
| -0.165250972 | 0.334124833 | 0.386 | 1 | 51318 | MRPL35 |
| -0.165250972 | 0.334124833 | 0.375 | 1 | 55137 | FIGN |
| -0.165250972 | 0.334124833 | 0.373 | 1 | 93058 | COQ10A |
| -0.165250972 | 0.334124833 | 0.358 | 1 | 284739 | LINC00176 |
| -0.165508375 | 0.333364189 | 0.376 | 1 | 1121 | CHM |
| -0.165508375 | 0.333364189 | 0.394 | 1 | 5283 | PIGH |
| -0.165508375 | 0.333364189 | 0.384 | 1 | 8773 | SNAP23 |
| -0.165508375 | 0.333364189 | 0.368 | 1 | 10795 | ZNF268 |
| -0.165508375 | 0.333364189 | 0.367 | 1 | 51110 | LACTB2 |
| -0.165508375 | 0.333364189 | 0.364 | 1 | 54834 | GDAP2 |
| -0.165508375 | 0.333364189 | 0.401 | 1 | 114041 | C21orf88 |
| -0.165508375 | 0.333364189 | 0.355 | 1 | 259291 | TAS2R45 |
| -0.165765762 | 0.332604587 | 0.383 | 1 | 7103 | TSPAN8 |
| -0.165765762 | 0.332604587 | 0.372 | 1 | 8200 | GDF5 |
| -0.165765762 | 0.332604587 | 0.352 | 1 | 9126 | SMC3 |
| -0.165765762 | 0.332604587 | 0.352 | 1 | 10428 | CFDP1 |
| -0.165765762 | 0.332604587 | 0.395 | 1 | 29896 | TRA2A |
| -0.165765762 | 0.332604587 | 0.359 | 1 | 768096 | HAR1A |
| -0.166023165 | 0.331845701 | 0.395 | 1 | 2882 | GPX7 |
| -0.166023165 | 0.331845701 | 0.373 | 1 | 3336 | HSPE1 |
| -0.166023165 | 0.331845701 | 0.37 | 1 | 3770 | KCNJ14 |
| -0.166023165 | 0.331845701 | 0.391 | 1 | 54498 | SMOX |
| -0.166023165 | 0.331845701 | 0.381 | 1 | 729317 | LOC729317 |
| -0.166280568 | 0.331088305 | 0.372 | 1 | 2538 | G6PC |
| -0.166280568 | 0.331088305 | 0.381 | 1 | 7494 | XBP1 |
| -0.166280568 | 0.331088305 | 0.387 | 1 | 23469 | PHF3 |
| -0.166280568 | 0.331088305 | 0.377 | 1 | 26205 | GMEB2 |
| -0.166280568 | 0.331088305 | 0.337 | 1 | 89894 | TMEM116 |
| -0.166280568 | 0.331088305 | 0.357 | 1 | 134288 | TMEM174 |
| -0.16653797 | 0.330331951 | 0.349 | 1 | 1939 | LGTN |
| -0.16653797 | 0.330331951 | 0.368 | 1 | 3920 | LAMP2 |
| -0.16653797 | 0.330331951 | 0.368 | 1 | 203429 | FAM226A |
| -0.16653797 | 0.330331951 | 0.356 | 1 | 100128385 | LINC00256B |
| -0.166795373 | 0.329576671 | 0.375 | 1 | 2701 | GJA4 |
| -0.166795373 | 0.329576671 | 0.356 | 1 | 3846 | KRTAP5-9 |
| -0.166795373 | 0.329576671 | 0.391 | 1 | 5291 | PIK3CB |
| -0.166795373 | 0.329576671 | 0.382 | 1 | 6910 | TBX5 |
| -0.166795373 | 0.329576671 | 0.398 | 1 | 8837 | CFLAR |
| -0.166795373 | 0.329576671 | 0.373 | 1 | 9048 | ARTN |
| -0.166795373 | 0.329576671 | 0.381 | 1 | 10285 | SMNDC1 |
| -0.166795373 | 0.329576671 | 0.361 | 1 | 57217 | TTC7A |
| -0.166795373 | 0.329576671 | 0.347 | 1 | 79096 | C11orf49 |
| -0.166795373 | 0.329576671 | 0.366 | 1 | 80854 | SETD7 |
| -0.167052761 | 0.328822136 | 0.385 | 1 | 5106 | PCK2 |
| -0.167052761 | 0.328822136 | 0.369 | 1 | 7673 | ZNF222 |
| -0.167052761 | 0.328822136 | 0.354 | 1 | 10178 | ODZ1 |
| -0.167052761 | 0.328822136 | 0.383 | 1 | 23500 | DAAM2 |
| -0.167052761 | 0.328822136 | 0.363 | 1 | 25956 | SEC31B |
| -0.167052761 | 0.328822136 | 0.397 | 1 | 129685 | TAF8 |
| -0.167052761 | 0.328822136 | 0.359 | 1 | 389852 | SPACA5 |
| -0.167310163 | 0.328069061 | 0.348 | 1 | 27430 | MAT2B |
| -0.167310163 | 0.328069061 | 0.367 | 1 | 79073 | TMEM109 |
| -0.167310163 | 0.328069061 | 0.377 | 1 | 221035 | REEP3 |
| -0.167567566 | 0.327316999 | 0.383 | 1 | 7388 | UQCRH |
| -0.167567566 | 0.327316999 | 0.379 | 1 | 9295 | SFRS11 |
| -0.167567566 | 0.327316999 | 0.38 | 1 | 10274 | STAG1 |
| -0.167567566 | 0.327316999 | 0.366 | 1 | 81628 | TSC22D4 |
| -0.167567566 | 0.327316999 | 0.354 | 1 | 199692 | ZNF627 |
| -0.167824969 | 0.3265661 | 0.323 | 1 | 5430 | POLR2A |
| -0.167824969 | 0.3265661 | 0.358 | 1 | 8085 | MLL2 |
| -0.167824969 | 0.3265661 | 0.377 | 1 | 9416 | DDX23 |
| -0.167824969 | 0.3265661 | 0.391 | 1 | 55729 | ATF7IP |
| -0.167824969 | 0.3265661 | 0.378 | 1 | 83986 | ITFG3 |
| -0.167824969 | 0.3265661 | 0.383 | 1 | 84061 | MAGT1 |
| -0.167824969 | 0.3265661 | 0.374 | 1 | 252884 | ZNF396 |
| -0.167824969 | 0.3265661 | 0.334 | 1 | 375189 | PFN4 |
| -0.168082371 | 0.325816214 | 0.359 | 1 | 16 | AARS |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.120304734 | 1.82999E-27 | 3655 | ITGA6 |
| -0.120319404 | 1.80347E-27 | 3315 | HSPB1 |
| -0.120390445 | 1.6803E-27 | 309 | ANXA6 |
| -0.120444678 | 1.59191E-27 | 85452 | C1orf222 |
| -0.120450713 | 1.58236E-27 | 60484 | HAPLN2 |
| -0.120453872 | 1.57738E-27 | 161742 | SPRED1 |
| -0.1204587 | 1.56982E-27 | 79802 | HHIPL2 |
| -0.120473377 | 1.547E-27 | 2108 | ETFA |
| -0.120515443 | 1.48348E-27 | 6428 | SRSF3 |
| -0.120528817 | 1.46383E-27 | 7128 | TNFAIP3 |
| -0.1205329 | 1.45789E-27 | 55750 | AGK |
| -0.12056578 | 1.41084E-27 | 374920 | C19orf68 |
| -0.120585464 | 1.3834E-27 | 10252 | SPRY1 |
| -0.120608307 | 1.35223E-27 | 25780 | RASGRP3 |
| -0.120743707 | 1.18124E-27 | 1485 | CTAG1B |
| -0.12080472 | 1.11137E-27 | 5037 | PEBP1 |
| -0.120828405 | 1.08536E-27 | 24141 | C20orf103 |
| -0.120837964 | 1.07504E-27 | 64446 | DNAI2 |
| -0.120889418 | 1.02113E-27 | 50813 | COPS7A |
| -0.120903812 | 1.00652E-27 | 162427 | FAM134C |
| -0.12090715 | 1.00318E-27 | 8842 | PROM1 |
| -0.120924793 | 9.8562E-28 | 1027 | CDKN1B |
| -0.120946251 | 9.64682E-28 | 6637 | SNRPG |
| -0.12105184 | 8.67898E-28 | 169522 | KCNV2 |
| -0.121052206 | 8.67584E-28 | 7941 | PLA2G7 |
| -0.121187791 | 7.5735E-28 | 5660 | PSAP |
| -0.121221691 | 7.32038E-28 | 10717 | AP4B1 |
| -0.12123014 | 7.25853E-28 | 51071 | DERA |
| -0.121235341 | 7.22088E-28 | 55553 | SOX6 |
| -0.121279731 | 6.90632E-28 | 64770 | CCDC14 |
| -0.121293008 | 6.81489E-28 | 84938 | ATG4C |
| -0.12130601 | 6.7265E-28 | 9770 | RASSF2 |
| -0.121309914 | 6.70022E-28 | 55633 | TBC1D22B |
| -0.121329598 | 6.56908E-28 | 130940 | CCDC148 |
| -0.121369809 | 6.30909E-28 | 158471 | PRUNE2 |
| -0.1213817 | 6.23425E-28 | 55182 | RNF220 |
| -0.121390797 | 6.17751E-28 | 348995 | NUP43 |
| -0.121404544 | 6.0928E-28 | 5074 | PAWR |
| -0.121469736 | 5.70644E-28 | 84447 | SYVN1 |
| -0.121472709 | 5.68943E-28 | 646278 | LOC646278 |
| -0.121649429 | 4.7629E-28 | 202299 | C5ORF27 |
| -0.121651381 | 4.7535E-28 | 3661 | IRF3 |
| -0.121652402 | 4.74861E-28 | 22836 | RHOBTB3 |
| -0.121653982 | 4.74109E-28 | 84337 | ELOF1 |
| -0.121677846 | 4.62853E-28 | 23205 | ACSBG1 |
| -0.121750005 | 4.30408E-28 | 1497 | CTNS |
| -0.121772386 | 4.2081E-28 | 84890 | ADO |
| -0.121774703 | 4.19823E-28 | 55196 | C12orf35 |
| -0.121778049 | 4.18418E-28 | 7494 | XBP1 |
| -0.121810742 | 4.04856E-28 | 284371 | ZNF841 |
| -0.121865623 | 3.83059E-28 | 10434 | LYPLA1 |
| -0.121874258 | 3.79737E-28 | 10184 | LHFPL2 |
| -0.121885031 | 3.75635E-28 | 653604 | HIST2H3D |
| -0.121888928 | 3.74164E-28 | 22794 | CASC3 |
| -0.121902302 | 3.69153E-28 | 3758 | KCNJ1 |
| -0.121929325 | 3.59216E-28 | 168850 | ZNF800 |
| -0.121960342 | 3.4815E-28 | 100506658 | OCLN |
| -0.121978179 | 3.41938E-28 | 9283 | GPR37L1 |
| -0.122036956 | 3.22238E-28 | 83604 | TMEM47 |
| -0.122045413 | 3.19497E-28 | 7586 | ZKSCAN1 |
| -0.122056276 | 3.16011E-28 | 6773 | STAT2 |
| -0.122059338 | 3.15035E-28 | 10174 | SORBS3 |
| -0.122061849 | 3.14237E-28 | 6323 | SCN1A |
| -0.122152485 | 2.86733E-28 | 57580 | PREX1 |
| -0.122165114 | 2.83099E-28 | 11342 | RNF13 |
| -0.12216679 | 2.82619E-28 | 7297 | TYK2 |
| -0.122249991 | 2.59812E-28 | 6650 | SOLH |
| -0.122324102 | 2.41037E-28 | 80346 | REEP4 |
| -0.122351035 | 2.34555E-28 | 57348 | TTYH1 |
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| -0.122375362 | 2.28846E-28 | 284695 | ZNF326 |
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| -0.122497387 | 2.02229E-28 | 150159 | NHEDC1 |
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| -0.122616909 | 1.79144E-28 | 85358 | SHANK3 |
| -0.122713581 | 1.62396E-28 | 11226 | GALNT6 |
| -0.122729279 | 1.59828E-28 | 26231 | LRRC29 |
| -0.122756116 | 1.5553E-28 | 10810 | WASF3 |
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| region-wise, subcortex | | | | | |
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| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.168082371 | 0.325816214 | 0.375 | 1 | 25821 | MTO1 |
| -0.168082371 | 0.325816214 | 0.372 | 1 | 84267 | C9orf64 |
| -0.168082371 | 0.325816214 | 0.356 | 1 | 122060 | SLAIN1 |
| -0.168339759 | 0.325067103 | 0.383 | 1 | 3138 | HLA-K |
| -0.168339759 | 0.325067103 | 0.37 | 1 | 9358 | ITGBL1 |
| -0.168339759 | 0.325067103 | 0.399 | 1 | 10773 | ZBTB6 |
| -0.168597162 | 0.324319422 | 0.347 | 1 | 7544 | ZFY |
| -0.168597162 | 0.324319422 | 0.35 | 1 | 8455 | ATRN |
| -0.168597162 | 0.324319422 | 0.379 | 1 | 22880 | MORC2 |
| -0.168597162 | 0.324319422 | 0.338 | 1 | 65109 | UPF3B |
| -0.168597162 | 0.324319422 | 0.355 | 1 | 84224 | NBPF3 |
| -0.168597162 | 0.324319422 | 0.349 | 1 | 90203 | SNX21 |
| -0.168597162 | 0.324319422 | 0.353 | 1 | 123096 | SLC25A29 |
| -0.168854564 | 0.323572785 | 0.362 | 1 | 23308 | ICOSLG |
| -0.168854564 | 0.323572785 | 0.374 | 1 | 84693 | MCEE |
| -0.169111967 | 0.322827309 | 0.358 | 1 | 2710 | GK |
| -0.169111967 | 0.322827309 | 0.383 | 1 | 4719 | NDUFS1 |
| -0.169111967 | 0.322827309 | 0.351 | 1 | 55435 | C4orf16 |
| -0.169111967 | 0.322827309 | 0.349 | 1 | 388551 | CEACAM16 |
| -0.16936937 | 0.32208252 | 0.377 | 1 | 36 | ACADSB |
| -0.16936937 | 0.32208252 | 0.345 | 1 | 3222 | HOXC5 |
| -0.16936937 | 0.32208252 | 0.36 | 1 | 3433 | IFIT2 |
| -0.16936937 | 0.32208252 | 0.357 | 1 | 9293 | GPR52 |
| -0.16936937 | 0.32208252 | 0.332 | 1 | 55252 | ASXL2 |
| -0.16936937 | 0.32208252 | 0.361 | 1 | 144233 | BCDIN3D |
| -0.169626758 | 0.32133913 | 0.361 | 1 | 760 | CA2 |
| -0.169626758 | 0.32133913 | 0.368 | 1 | 3691 | ITGB4 |
| -0.169626758 | 0.32133913 | 0.361 | 1 | 10542 | HBXIP |
| -0.169626758 | 0.32133913 | 0.358 | 1 | 80153 | EDC3 |
| -0.169626758 | 0.32133913 | 0.38 | 1 | 92999 | ZBTB47 |
| -0.169626758 | 0.32133913 | 0.362 | 1 | 285527 | FRYL |
| -0.16988416 | 0.320596874 | 0.361 | 1 | 432 | ASGR1 |
| -0.16988416 | 0.320596874 | 0.363 | 1 | 4118 | MAL |
| -0.16988416 | 0.320596874 | 0.373 | 1 | 6872 | TAF1 |
| -0.16988416 | 0.320596874 | 0.342 | 1 | 9953 | HS3ST3B1 |
| -0.16988416 | 0.320596874 | 0.348 | 1 | 30812 | SOX8 |
| -0.16988416 | 0.320596874 | 0.362 | 1 | 54407 | SLC38A2 |
| -0.16988416 | 0.320596874 | 0.367 | 1 | 54800 | KLHL24 |
| -0.16988416 | 0.320596874 | 0.386 | 1 | 79992 | AGPAT4-IT1 |
| -0.16988416 | 0.320596874 | 0.367 | 1 | 91369 | ANKRD40 |
| -0.170141563 | 0.31985572 | 0.362 | 1 | 2012 | EMP1 |
| -0.170141563 | 0.31985572 | 0.359 | 1 | 5338 | PLD2 |
| -0.170141563 | 0.31985572 | 0.389 | 1 | 7456 | WIPF1 |
| -0.170141563 | 0.31985572 | 0.378 | 1 | 64097 | EPB41L4A |
| -0.170141563 | 0.31985572 | 0.351 | 1 | 246184 | CDC26 |
| -0.170398965 | 0.319115281 | 0.361 | 1 | 1613 | DAPK3 |
| -0.170398965 | 0.319115281 | 0.351 | 1 | 7756 | ZNF207 |
| -0.170398965 | 0.319115281 | 0.347 | 1 | 8021 | NUP214 |
| -0.170398965 | 0.319115281 | 0.388 | 1 | 27032 | ATP2C1 |
| -0.170398965 | 0.319115281 | 0.358 | 1 | 441722 | LOC441722 |
| -0.170656368 | 0.318376243 | 0.361 | 1 | 6152 | RPL24 |
| -0.170656368 | 0.318376243 | 0.339 | 1 | 7205 | TRIP6 |
| -0.170656368 | 0.318376243 | 0.369 | 1 | 23360 | FNBP4 |
| -0.170656368 | 0.318376243 | 0.336 | 1 | 51133 | KCTD3 |
| -0.170656368 | 0.318376243 | 0.356 | 1 | 55007 | FAM118A |
| -0.170656368 | 0.318376243 | 0.363 | 1 | 79886 | C9orf82 |
| -0.170656368 | 0.318376243 | 0.359 | 1 | 80319 | CXXC4 |
| -0.170656368 | 0.318376243 | 0.347 | 1 | 112802 | KRT71 |
| -0.170656368 | 0.318376243 | 0.348 | 1 | 147744 | TMEM190 |
| -0.170656368 | 0.318376243 | 0.349 | 1 | 402644 | LOC402644 |
| -0.170913756 | 0.317638278 | 0.37 | 1 | 2172 | FABP6 |
| -0.170913756 | 0.317638278 | 0.35 | 1 | 3988 | LIPA |
| -0.170913756 | 0.317638278 | 0.352 | 1 | 55227 | LRRC1 |
| -0.170913756 | 0.317638278 | 0.344 | 1 | 80146 | UXS1 |
| -0.170913756 | 0.317638278 | 0.364 | 1 | 162681 | C18orf54 |
| -0.170913756 | 0.317638278 | 0.364 | 1 | 353376 | TICAM2 |
| -0.171171159 | 0.316901445 | 0.354 | 1 | 2896 | GRN |
| -0.171171159 | 0.316901445 | 0.358 | 1 | 3977 | LIFR |
| -0.171171159 | 0.316901445 | 0.354 | 1 | 5654 | HTRA1 |
| -0.171171159 | 0.316901445 | 0.388 | 1 | 283303 | C11ORF36 |
| -0.171171159 | 0.316901445 | 0.372 | 1 | 441454 | LOC441454 |
| -0.171428576 | 0.316165745 | 0.37 | 1 | 3217 | HOXB7 |
| -0.171428576 | 0.316165745 | 0.35 | 1 | 4179 | CD46 |
| -0.171428576 | 0.316165745 | 0.357 | 1 | 8633 | UNC5C |
| -0.171428576 | 0.316165745 | 0.358 | 1 | 10842 | C7orf16 |
| -0.171428576 | 0.316165745 | 0.353 | 1 | 50813 | COPS7A |
| -0.171428576 | 0.316165745 | 0.361 | 1 | 56605 | ERO1LB |
| -0.171428576 | 0.316165745 | 0.343 | 1 | 80196 | RNF34 |
| -0.171428576 | 0.316165745 | 0.352 | 1 | 114799 | ESCO1 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.122808956 | 1.474E-28 | 6737 | TRIM21 |
| -0.122830778 | 1.44165E-28 | 81562 | LMAN2L |
| -0.122843407 | 1.42324E-28 | 284942 | RPL23AP82 |
| -0.12288408 | 1.3656E-28 | 22835 | ZFP30 |
| -0.122939803 | 1.29035E-28 | 55892 | MYNN |
| -0.122946486 | 1.28161E-28 | 5372 | PMM1 |
| -0.122950949 | 1.27579E-28 | 57484 | RNF150 |
| -0.122969151 | 1.25239E-28 | 4166 | CHST6 |
| -0.123015121 | 1.19513E-28 | 100130935 | LOC100130935 |
| -0.123094514 | 1.1023E-28 | 84281 | C2orf88 |
| -0.123177908 | 1.0125E-28 | 389332 | LOC389332 |
| -0.123223506 | 9.66491E-29 | 284402 | SCGBL |
| -0.123237066 | 9.53214E-29 | 10549 | PRDX4 |
| -0.123245798 | 9.44765E-29 | 6391 | SDHC |
| -0.123344511 | 8.54228E-29 | 100131176 | RP4-555L14.5 |
| -0.123349153 | 8.50191E-29 | 29899 | GPSM2 |
| -0.123372376 | 8.30264E-29 | 90589 | ZNF625 |
| -0.123459205 | 7.59797E-29 | 164395 | TTLL9 |
| -0.123486504 | 7.38895E-29 | 283481 | LOC283481 |
| -0.123530619 | 7.06312E-29 | 440184 | LINC00238 |
| -0.1235881 | 6.65986E-29 | 9762 | RP5-1187M17.1 |
| -0.123628497 | 6.39028E-29 | 10063 | COX17 |
| -0.123631097 | 6.37326E-29 | 4507 | MTAP |
| -0.1236974 | 5.95513E-29 | 9552 | SPAG7 |
| -0.12370149 | 5.93023E-29 | 23324 | MAN2B2 |
| -0.123891398 | 4.88151E-29 | 10905 | MAN1A2 |
| -0.123944707 | 4.62181E-29 | 79058 | ASPSCR1 |
| -0.124008693 | 4.32813E-29 | 57461 | ISY1 |
| -0.124011755 | 4.31455E-29 | 96764 | TGS1 |
| -0.124044538 | 4.17172E-29 | 29103 | DNAJC15 |
| -0.124056235 | 4.12193E-29 | 7381 | UQCRB |
| -0.124061435 | 4.09997E-29 | 23604 | DAPK2 |
| -0.124088831 | 3.98622E-29 | 1807 | DPYS |
| -0.124119386 | 3.86307E-29 | 4717 | NDUFC1 |
| -0.124139078 | 3.78564E-29 | 8405 | SPOP |
| -0.124150589 | 3.74118E-29 | 11197 | WIF1 |
| -0.124156252 | 3.71947E-29 | 51473 | DCDC2 |
| -0.124165356 | 3.68475E-29 | 6204 | RPS10 |
| -0.124197394 | 3.56539E-29 | 5830 | PEX5 |
| -0.124232128 | 3.44035E-29 | 9860 | LRIG2 |
| -0.12429212 | 3.23445E-29 | 79642 | ARSJ |
| -0.124334276 | 3.09719E-29 | 5174 | PDZK1 |
| -0.124351554 | 3.04253E-29 | 7392 | USF2 |
| -0.124403559 | 2.88393E-29 | 3516 | RBPSUH |
| -0.124470979 | 2.69046E-29 | 831 | CAST |
| -0.124592632 | 2.37335E-29 | 11018 | TMED1 |
| -0.124613434 | 2.32296E-29 | 1946 | EFNA5 |
| -0.124627732 | 2.28895E-29 | 79064 | TMEM223 |
| -0.124664508 | 2.20372E-29 | 10060 | ABCC9 |
| -0.124680206 | 2.16832E-29 | 90102 | PHLDB2 |
| -0.124684572 | 2.15858E-29 | 5173 | PDYN |
| -0.124772236 | 1.97175E-29 | 79993 | ELOVL7 |
| -0.124804273 | 1.90759E-29 | 3320 | HSP90AA2 |
| -0.124811612 | 1.89317E-29 | 1026 | CDKN1A |
| -0.124819599 | 1.87759E-29 | 79872 | CBLL1 |
| -0.124899648 | 1.7285E-29 | 10227 | MFSD10 |
| -0.1249016 | 1.72504E-29 | 6939 | TCF15 |
| -0.124903359 | 1.72188E-29 | 6579 | SLCO1A2 |
| -0.125005141 | 1.54982E-29 | 64754 | SMYD3 |
| -0.125025764 | 1.51709E-29 | 161436 | EML5 |
| -0.125026688 | 1.51564E-29 | 5122 | PCSK1 |
| -0.125040427 | 1.49425E-29 | 6189 | RPS3AP47 |
| -0.125065416 | 1.45608E-29 | 645638 | LOC645638 |
| -0.125066623 | 1.45425E-29 | 100289361 | LOC100289361 |
| -0.125095963 | 1.41074E-29 | 4077 | NBR1 |
| -0.125110924 | 1.38904E-29 | 4800 | NFYA |
| -0.12517722 | 1.29685E-29 | 4300 | MLLT3 |
| -0.125284016 | 1.16092E-29 | 57109 | REXO4 |
| -0.125292093 | 1.15124E-29 | 8625 | RFXANK |
| -0.125387937 | 1.04226E-29 | 10152 | ABI2 |
| -0.125396669 | 1.03285E-29 | 118 | ADD1 |
| -0.125496224 | 9.31397E-30 | 28973 | MRPS18B |
| -0.125704333 | 7.50152E-30 | 6004 | RGS16 |
| -0.125725597 | 7.3374E-30 | 666 | BOK |
| -0.125762552 | 7.06045E-30 | 79005 | SCNM1 |
| -0.125789866 | 6.86239E-30 | 85025 | TMEM60 |
| -0.125801936 | 6.77673E-30 | 347 | APOD |
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| region-wise, subcortex | | | | | |
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| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.171428576 | 0.316165745 | 0.333 | 1 | 253725 | FAM21C |
| -0.171428576 | 0.316165745 | 0.39 | 1 | 284288 | RSL24D1P11 |
| -0.171685979 | 0.315430701 | 0.35 | 1 | 2582 | GALE |
| -0.171685979 | 0.315430701 | 0.362 | 1 | 22854 | NTNG1 |
| -0.171685979 | 0.315430701 | 0.337 | 1 | 53838 | C11orf24 |
| -0.171685979 | 0.315430701 | 0.356 | 1 | 55677 | IWS1 |
| -0.171943381 | 0.314697087 | 0.338 | 1 | 3981 | LIG4 |
| -0.171943381 | 0.314697087 | 0.373 | 1 | 4036 | LRP2 |
| -0.171943381 | 0.314697087 | 0.353 | 1 | 4204 | MECP2 |
| -0.171943381 | 0.314697087 | 0.337 | 1 | 5962 | RDX |
| -0.171943381 | 0.314697087 | 0.354 | 1 | 10078 | TSSC4 |
| -0.171943381 | 0.314697087 | 0.354 | 1 | 10850 | CCL27 |
| -0.171943381 | 0.314697087 | 0.357 | 1 | 55696 | RBM22 |
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| -0.171943381 | 0.314697087 | 0.34 | 1 | 80035 | ANP32A-IT1 |
| -0.171943381 | 0.314697087 | 0.354 | 1 | 727936 | GXYLT2 |
| -0.172458172 | 0.313233137 | 0.367 | 1 | 2878 | GPX3 |
| -0.172458172 | 0.313233137 | 0.339 | 1 | 4741 | NEFM |
| -0.172458172 | 0.313233137 | 0.348 | 1 | 5742 | PTGS1 |
| -0.172458172 | 0.313233137 | 0.34 | 1 | 6452 | SH3BP2 |
| -0.172458172 | 0.313233137 | 0.348 | 1 | 9028 | RHBDL1 |
| -0.172458172 | 0.313233137 | 0.362 | 1 | 63946 | DMRTC2 |
| -0.172458172 | 0.313233137 | 0.357 | 1 | 80194 | TMEM134 |
| -0.172458172 | 0.313233137 | 0.336 | 1 | 100130264 | RP5-1027G4.3 |
| -0.172715575 | 0.312502503 | 0.349 | 1 | 999 | CDH1 |
| -0.172715575 | 0.312502503 | 0.355 | 1 | 8829 | NRP1 |
| -0.172715575 | 0.312502503 | 0.355 | 1 | 9605 | C16orf7 |
| -0.172715575 | 0.312502503 | 0.352 | 1 | 23503 | ZFYVE26 |
| -0.172715575 | 0.312502503 | 0.36 | 1 | 54820 | NDE1 |
| -0.172715575 | 0.312502503 | 0.369 | 1 | 64779 | MTHFSD |
| -0.172972977 | 0.311773241 | 0.356 | 1 | 3344 | FOXN2 |
| -0.172972977 | 0.311773241 | 0.351 | 1 | 4650 | MYO9B |
| -0.172972977 | 0.311773241 | 0.36 | 1 | 6314 | ATXN7 |
| -0.172972977 | 0.311773241 | 0.312 | 1 | 57572 | DOCK6 |
| -0.172972977 | 0.311773241 | 0.359 | 1 | 84892 | C3orf39 |
| -0.172972977 | 0.311773241 | 0.33 | 1 | 100288083 | LOC100288083 |
| -0.17323038 | 0.311045051 | 0.359 | 1 | 2928 | GSC2 |
| -0.17323038 | 0.311045051 | 0.357 | 1 | 4211 | MEIS1 |
| -0.17323038 | 0.311045051 | 0.337 | 1 | 56992 | KIF15 |
| -0.17323038 | 0.311045051 | 0.368 | 1 | 197350 | AC108134.5 |
| -0.173487768 | 0.310318023 | 0.346 | 1 | 6834 | SURF1 |
| -0.173487768 | 0.310318023 | 0.319 | 1 | 11342 | RNF13 |
| -0.173487768 | 0.310318023 | 0.351 | 1 | 26064 | RAI14 |
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| -0.17374517 | 0.309591651 | 0.326 | 1 | 151903 | CCDC12 |
| -0.17374517 | 0.309591651 | 0.358 | 1 | 340205 | TREML1 |
| -0.174002573 | 0.308866799 | 0.326 | 1 | 23070 | FTSJD2 |
| -0.174002573 | 0.308866799 | 0.301 | 1 | 79894 | ZNF672 |
| -0.174002573 | 0.308866799 | 0.377 | 1 | 83666 | PARP9 |
| -0.174002573 | 0.308866799 | 0.35 | 1 | 337967 | KRTAP6-2 |
| -0.174002573 | 0.308866799 | 0.365 | 1 | 100131479 | LOC100131479 |
| -0.174259976 | 0.30814293 | 0.354 | 1 | 915 | CD3D |
| -0.174259976 | 0.30814293 | 0.325 | 1 | 1292 | COL6A2 |
| -0.174259976 | 0.30814293 | 0.374 | 1 | 3142 | HLX |
| -0.174259976 | 0.30814293 | 0.358 | 1 | 7942 | TFEB |
| -0.174259976 | 0.30814293 | 0.357 | 1 | 22803 | XRN2 |
| -0.174259976 | 0.30814293 | 0.355 | 1 | 51074 | APIP |
| -0.174259976 | 0.30814293 | 0.373 | 1 | 64855 | FAM129B |
| -0.174517378 | 0.307420194 | 0.342 | 1 | 2339 | FNTA |
| -0.174517378 | 0.307420194 | 0.367 | 1 | 2969 | GTF2I |
| -0.174517378 | 0.307420194 | 0.364 | 1 | 3221 | HOXC4 |
| -0.174517378 | 0.307420194 | 0.354 | 1 | 9051 | PSTPIP1 |
| -0.174517378 | 0.307420194 | 0.364 | 1 | 10083 | USH1C |
| -0.174517378 | 0.307420194 | 0.341 | 1 | 58494 | JAM2 |
| -0.174517378 | 0.307420194 | 0.35 | 1 | 80765 | STARD5 |
| -0.174517378 | 0.307420194 | 0.361 | 1 | 112939 | NACC1 |
| -0.174517378 | 0.307420194 | 0.346 | 1 | 219854 | TMEM218 |
| -0.174517378 | 0.307420194 | 0.329 | 1 | 440926 | H3F3AP4 |
| -0.174517378 | 0.307420194 | 0.331 | 1 | 642987 | TMEM232 |
| -0.174774766 | 0.306698561 | 0.362 | 1 | 1841 | DTYMK |
| -0.174774766 | 0.306698561 | 0.347 | 1 | 8548 | BLZF1 |
| -0.174774766 | 0.306698561 | 0.361 | 1 | 9131 | AIFM1 |
| -0.174774766 | 0.306698561 | 0.337 | 1 | 28971 | C11orf67 |
| -0.174774766 | 0.306698561 | 0.357 | 1 | 55213 | RCBTB1 |
| -0.174774766 | 0.306698561 | 0.347 | 1 | 79056 | PRRG4 |
| -0.174774766 | 0.306698561 | 0.323 | 1 | 83746 | L3MBTL2 |
| -0.174774766 | 0.306698561 | 0.369 | 1 | 84299 | MIEN1 |
| -0.174774766 | 0.306698561 | 0.34 | 1 | 89781 | HPS4 |
| -0.174774766 | 0.306698561 | 0.348 | 1 | 161779 | PGBD4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.125866294 | 6.33729E-30 | 3145 | HMBS |
| -0.125876963 | 6.26716E-30 | 122183 | PRR20 |
| -0.125891268 | 6.1744E-30 | 401236 | RP3-486B10.1 |
| -0.125899449 | 6.12197E-30 | 221785 | ZNF498 |
| -0.125942722 | 5.852E-30 | 4595 | MUTYH |
| -0.125968158 | 5.69872E-30 | 56957 | OTUD7B |
| -0.126003087 | 5.49483E-30 | 1798 | DPAGT1 |
| -0.12601617 | 5.42035E-30 | 90407 | TMEM41A |
| -0.126042366 | 5.27423E-30 | 65009 | NDRG4 |
| -0.12606214 | 5.16651E-30 | 6942 | TCF20 |
| -0.12608248 | 5.05791E-30 | 200197 | C1orf126 |
| -0.126090184 | 5.0174E-30 | 115330 | GPR146 |
| -0.126113966 | 4.89435E-30 | 51617 | AC093310.1 |
| -0.126149163 | 4.71778E-30 | 79684 | C11orf61 |
| -0.126182586 | 4.55587E-30 | 51035 | UBXN1 |
| -0.12632969 | 3.90649E-30 | 84455 | EFCAB7 |
| -0.126351327 | 3.8191E-30 | 93349 | SP140L |
| -0.126356527 | 3.79837E-30 | 10866 | HCP5 |
| -0.126366928 | 3.75723E-30 | 7347 | UCHL3 |
| -0.12637268 | 3.73473E-30 | 10456 | HAX1 |
| -0.126395345 | 3.64713E-30 | 170463 | SSBP4 |
| -0.126420796 | 3.55127E-30 | 285668 | AC094086.1 |
| -0.126437977 | 3.48795E-30 | 11221 | DUSP10 |
| -0.126467779 | 3.38083E-30 | 57463 | AMIGO1 |
| -0.126562044 | 3.06288E-30 | 57142 | RTN4 |
| -0.126636803 | 2.83206E-30 | 57540 | PTCHD2 |
| -0.126643762 | 2.81148E-30 | 55729 | ATF7IP |
| -0.126649991 | 2.79313E-30 | 113510 | HELQ |
| -0.126664191 | 2.75184E-30 | 22841 | RAB11FIP2 |
| -0.126670972 | 2.73235E-30 | 51128 | SAR1B |
| -0.126711085 | 2.61977E-30 | 55313 | CPPED1 |
| -0.126724094 | 2.58425E-30 | 1785 | DNM2 |
| -0.126748323 | 2.5194E-30 | 28511 | NKIRAS2 |
| -0.126806095 | 2.37113E-30 | 6016 | RIT1 |
| -0.126807585 | 2.36742E-30 | 10218 | ANGPTL7 |
| -0.126807764 | 2.36698E-30 | 664701 | ZNF826P |
| -0.126829028 | 2.31471E-30 | 477 | ATP1A2 |
| -0.126854852 | 2.25277E-30 | 2184 | FAH |
| -0.126877606 | 2.19957E-30 | 10284 | SAP18 |
| -0.126879543 | 2.1951E-30 | 85315 | PAQR8 |
| -0.126898125 | 2.15265E-30 | 55435 | C4orf16 |
| -0.126940101 | 2.05974E-30 | 51768 | TM7SF3 |
| -0.126955971 | 2.02567E-30 | 79901 | CYBRD1 |
| -0.127026096 | 1.88168E-30 | 730144 | LOC730144 |
| -0.127165943 | 1.62414E-30 | 29072 | SETD2 |
| -0.127214238 | 1.54359E-30 | 79003 | MIS12 |
| -0.127250269 | 1.48609E-30 | 374666 | WASH3P |
| -0.127334774 | 1.35943E-30 | 25870 | SUMF2 |
| -0.127346009 | 1.34343E-30 | 11234 | HPS5 |
| -0.127359942 | 1.32383E-30 | 84313 | VPS25 |
| -0.127379537 | 1.29674E-30 | 24 | ABCA4 |
| -0.127408981 | 1.25708E-30 | 50862 | RNF141 |
| -0.127423748 | 1.23768E-30 | 20 | ABCA2 |
| -0.12744306 | 1.21269E-30 | 389084 | C2orf82 |
| -0.127591461 | 1.0368E-30 | 9677 | HISPPD2A |
| -0.127696022 | 9.28297E-31 | 27236 | ARFIP1 |
| -0.127696589 | 9.27739E-31 | 2947 | GSTM3 |
| -0.127761036 | 8.666E-31 | 55128 | TRIM68 |
| -0.127763167 | 8.64644E-31 | 54093 | SETD4 |
| -0.127781466 | 8.48073E-31 | 1601 | DAB2 |
| -0.127838761 | 7.98156E-31 | 23133 | PHF8 |
| -0.12786077 | 7.79774E-31 | 25793 | FBXO7 |
| -0.127901822 | 7.46609E-31 | 22882 | ZHX2 |
| -0.12794055 | 7.16593E-31 | 6218 | RPS17 |
| -0.127943605 | 7.14276E-31 | 100190986 | LOC100190986 |
| -0.12798892 | 6.8078E-31 | 79856 | SNX22 |
| -0.128001839 | 6.71529E-31 | 1889 | ECE1 |
| -0.12805301 | 6.36061E-31 | 7988 | ZNF212 |
| -0.12806201 | 6.30012E-31 | 4931 | NVL |
| -0.128086254 | 6.14022E-31 | 11154 | AP4S1 |
| -0.128167048 | 5.63574E-31 | 11093 | ADAMTS13 |
| -0.128172427 | 5.60366E-31 | 5380 | PMS2L2 |
| -0.128201872 | 5.43123E-31 | 54758 | KLHDC4 |
| -0.128294826 | 4.92058E-31 | 6510 | SLC1A5 |
| -0.128307268 | 4.85588E-31 | 26118 | WSB1 |
| -0.12839587 | 4.41946E-31 | 100288083 | LOC100288083 |
| -0.128437281 | 4.22903E-31 | 79883 | PODNL1 |
| -0.128448889 | 4.17713E-31 | 342035 | GLDN |
| -0.12848112 | 4.0363E-31 | 23500 | DAAM2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.174774766 | 0.306698561 | 0.339 | 1 | 168850 | ZNF800 |
| -0.174774766 | 0.306698561 | 0.349 | 1 | 196374 | KRT78 |
| -0.175032169 | 0.305977613 | 0.363 | 1 | 2936 | GSR |
| -0.175032169 | 0.305977613 | 0.35 | 1 | 3831 | C14orf153 |
| -0.175032169 | 0.305977613 | 0.343 | 1 | 4601 | MXI1 |
| -0.175032169 | 0.305977613 | 0.343 | 1 | 5194 | PEX13 |
| -0.175032169 | 0.305977613 | 0.353 | 1 | 5429 | POLH |
| -0.175032169 | 0.305977613 | 0.338 | 1 | 11046 | SLC35D2 |
| -0.175032169 | 0.305977613 | 0.344 | 1 | 55061 | SUSD4 |
| -0.175032169 | 0.305977613 | 0.377 | 1 | 130507 | UBR3 |
| -0.175032169 | 0.305977613 | 0.348 | 1 | 439933 | MGC42157 |
| -0.175289571 | 0.305258185 | 0.327 | 1 | 3832 | KIF11 |
| -0.175289571 | 0.305258185 | 0.361 | 1 | 8675 | STX16 |
| -0.175289571 | 0.305258185 | 0.351 | 1 | 10507 | SEMA4D |
| -0.175289571 | 0.305258185 | 0.345 | 1 | 30008 | EFEMP2 |
| -0.175289571 | 0.305258185 | 0.337 | 1 | 55572 | FOXRED1 |
| -0.175289571 | 0.305258185 | 0.362 | 1 | 64151 | NCAPG |
| -0.175289571 | 0.305258185 | 0.34 | 1 | 388335 | TMEM220 |
| -0.175546974 | 0.30453977 | 0.346 | 1 | 8028 | MLLT10 |
| -0.175546974 | 0.30453977 | 0.34 | 1 | 9692 | KIAA0391 |
| -0.175546974 | 0.30453977 | 0.33 | 1 | 10541 | ANP32B |
| -0.175546974 | 0.30453977 | 0.359 | 1 | 27129 | HSPB7 |
| -0.175546974 | 0.30453977 | 0.358 | 1 | 54187 | NANS |
| -0.175546974 | 0.30453977 | 0.352 | 1 | 79641 | ROGDI |
| -0.175804377 | 0.303822488 | 0.343 | 1 | 4089 | SMAD4 |
| -0.175804377 | 0.303822488 | 0.365 | 1 | 8913 | CACNA1G |
| -0.175804377 | 0.303822488 | 0.367 | 1 | 55109 | AGGF1 |
| -0.175804377 | 0.303822488 | 0.359 | 1 | 56903 | PAPOLB |
| -0.175804377 | 0.303822488 | 0.322 | 1 | 653238 | GTF2H2B |
| -0.176061764 | 0.303105891 | 0.343 | 1 | 5763 | PTMS |
| -0.176061764 | 0.303105891 | 0.339 | 1 | 26507 | CNNM1 |
| -0.176061764 | 0.303105891 | 0.347 | 1 | 57554 | LRRC7 |
| -0.176061764 | 0.303105891 | 0.355 | 1 | 84231 | TRAF7 |
| -0.176061764 | 0.303105891 | 0.325 | 1 | 114898 | C1QTNF2 |
| -0.176061764 | 0.303105891 | 0.328 | 1 | 140738 | TMEM37 |
| -0.176061764 | 0.303105891 | 0.35 | 1 | 150776 | AC093838.4 |
| -0.176061764 | 0.303105891 | 0.334 | 1 | 284988 | RHOQP3 |
| -0.176061764 | 0.303105891 | 0.363 | 1 | 286262 | C9orf75 |
| -0.176061764 | 0.303105891 | 0.344 | 1 | 400566 | C17orf97 |
| -0.176319167 | 0.302390754 | 0.36 | 1 | 3204 | HOXA7 |
| -0.176319167 | 0.302390754 | 0.354 | 1 | 5702 | PSMC3 |
| -0.176319167 | 0.302390754 | 0.345 | 1 | 6370 | CCL25 |
| -0.176319167 | 0.302390754 | 0.349 | 1 | 7252 | TSHB |
| -0.176319167 | 0.302390754 | 0.343 | 1 | 51710 | ZNF44 |
| -0.176319167 | 0.302390754 | 0.35 | 1 | 81887 | LAS1L |
| -0.176319167 | 0.302390754 | 0.338 | 1 | 85417 | CCNB3 |
| -0.176319167 | 0.302390754 | 0.331 | 1 | 286530 | P2RY8 |
| -0.176319167 | 0.302390754 | 0.363 | 1 | 653247 | PRB2 |
| -0.17657657 | 0.30167675 | 0.333 | 1 | 745 | C11orf9 |
| -0.17657657 | 0.30167675 | 0.335 | 1 | 9987 | HNRPDL |
| -0.17657657 | 0.30167675 | 0.334 | 1 | 22861 | AC055839.1 |
| -0.17657657 | 0.30167675 | 0.312 | 1 | 54482 | CCDC76 |
| -0.17657657 | 0.30167675 | 0.331 | 1 | 57169 | ZNFX1 |
| -0.176833972 | 0.300963819 | 0.358 | 1 | 4528 | MTIF2 |
| -0.176833972 | 0.300963819 | 0.351 | 1 | 400617 | KCNJ2-AS1 |
| -0.176833972 | 0.300963819 | 0.351 | 1 | 728743 | LOC728743 |
| -0.177091375 | 0.300251573 | 0.318 | 1 | 2034 | EPAS1 |
| -0.177091375 | 0.300251573 | 0.336 | 1 | 4047 | LSS |
| -0.177091375 | 0.300251573 | 0.324 | 1 | 22933 | SIRT2 |
| -0.177091375 | 0.300251573 | 0.354 | 1 | 64816 | CYP3A43 |
| -0.177091375 | 0.300251573 | 0.335 | 1 | 283254 | HARBI1 |
| -0.177348763 | 0.299540758 | 0.34 | 1 | 10224 | ZNF443 |
| -0.177348763 | 0.299540758 | 0.32 | 1 | 23099 | ZBTB43 |
| -0.177348763 | 0.299540758 | 0.339 | 1 | 23126 | POGZ |
| -0.177348763 | 0.299540758 | 0.341 | 1 | 51338 | MS4A4A |
| -0.177348763 | 0.299540758 | 0.335 | 1 | 54876 | C4orf30 |
| -0.177348763 | 0.299540758 | 0.34 | 1 | 55900 | ZNF302 |
| -0.177348763 | 0.299540758 | 0.335 | 1 | 84440 | RAB11FIP4 |
| -0.177606165 | 0.298831046 | 0.341 | 1 | 2263 | FGFR2 |
| -0.177606165 | 0.298831046 | 0.336 | 1 | 6134 | RPL10 |
| -0.177606165 | 0.298831046 | 0.358 | 1 | 7813 | EVI5 |
| -0.177606165 | 0.298831046 | 0.341 | 1 | 9444 | QKI |
| -0.177606165 | 0.298831046 | 0.346 | 1 | 387036 | GUSBP2 |
| -0.177863568 | 0.298122495 | 0.326 | 1 | 2528 | FUT6 |
| -0.177863568 | 0.298122495 | 0.331 | 1 | 4124 | MAN2A1 |
| -0.177863568 | 0.298122495 | 0.34 | 1 | 84775 | ZNF607 |
| -0.177863568 | 0.298122495 | 0.337 | 1 | 146378 | C16orf92 |
| -0.178120971 | 0.297414929 | 0.332 | 1 | 1773 | DNASE1 |
| -0.178120971 | 0.297414929 | 0.363 | 1 | 3028 | HSD17B10 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.128498942 | 3.96046E-31 | 2287 | FKBP3 |
| -0.128563955 | 3.69567E-31 | 5445 | PON2 |
| -0.128594235 | 3.57835E-31 | 261729 | STEAP2 |
| -0.128718391 | 3.13492E-31 | 160897 | GPR180 |
| -0.128720611 | 3.1275E-31 | 1687 | DFNA5 |
| -0.128736585 | 3.07471E-31 | 55167 | MSL2 |
| -0.128740683 | 3.06127E-31 | 340252 | ZNF680 |
| -0.128745779 | 3.04469E-31 | 7692 | ZNF133 |
| -0.128750235 | 3.03025E-31 | 2263 | FGFR2 |
| -0.128754228 | 3.0174E-31 | 56946 | C11orf30 |
| -0.128852487 | 2.71709E-31 | 728537 | AC017099.3 |
| -0.128867805 | 2.67302E-31 | 161176 | C14orf49 |
| -0.128881097 | 2.63535E-31 | 23076 | RRP1B |
| -0.128888518 | 2.61457E-31 | 9533 | POLR1C |
| -0.12894173 | 2.47015E-31 | 55151 | TMEM38B |
| -0.128942847 | 2.4672E-31 | 2200 | FBN1 |
| -0.128992245 | 2.34037E-31 | 3400 | ID4 |
| -0.129049182 | 2.20222E-31 | 10165 | SLC25A13 |
| -0.129052609 | 2.19417E-31 | 390940 | AC026369.2 |
| -0.129059017 | 2.17921E-31 | 10957 | PNRC1 |
| -0.129068583 | 2.15701E-31 | 134285 | TMEM171 |
| -0.129074156 | 2.1442E-31 | 284207 | METRNL |
| -0.129076391 | 2.1391E-31 | 388394 | RPRML |
| -0.129118919 | 2.04398E-31 | 415116 | PIM3 |
| -0.129123569 | 2.03385E-31 | 224 | ALDH3A2 |
| -0.129141301 | 1.99565E-31 | 8293 | SERF1A |
| -0.129194513 | 1.88519E-31 | 9927 | MFN2 |
| -0.129245028 | 1.78598E-31 | 8335 | HIST1H2AB |
| -0.129400671 | 1.5117E-31 | 390284 | SRP14P1 |
| -0.129504785 | 1.35199E-31 | 6697 | SPR |
| -0.129511833 | 1.3418E-31 | 56912 | C11orf60 |
| -0.129537746 | 1.30501E-31 | 399694 | SHC4 |
| -0.129567087 | 1.26457E-31 | 285268 | ZNF621 |
| -0.129574522 | 1.25452E-31 | 164153 | UBL4B |
| -0.129590303 | 1.23343E-31 | 80205 | CHD9 |
| -0.129622713 | 1.19126E-31 | 3955 | LFNG |
| -0.129648715 | 1.15846E-31 | 55701 | AL161668.2 |
| -0.129706115 | 1.08918E-31 | 4439 | MSH5 |
| -0.12971893 | 1.0743E-31 | 401152 | C4orf3 |
| -0.129779935 | 1.0061E-31 | 5236 | PGM1 |
| -0.129782632 | 1.00319E-31 | 84436 | ZNF528 |
| -0.129789695 | 9.9561E-32 | 5611 | DNAJC3 |
| -0.129843175 | 9.39954E-32 | 54910 | SEMA4C |
| -0.129876435 | 9.06921E-32 | 64344 | HIF3A |
| -0.129903361 | 8.81017E-32 | 7093 | TLL2 |
| -0.1299081 | 8.76549E-32 | 3354 | HTR1E |
| -0.129909307 | 8.754E-32 | 8904 | CPNE1 |
| -0.129936323 | 8.50317E-32 | 797 | CALCB |
| -0.129955083 | 8.33314E-32 | 83641 | FAM107B |
| -0.129987314 | 8.04891E-32 | 116362 | RBP7 |
| -0.130040333 | 7.60212E-32 | 442454 | UQCRBP1 |
| -0.130055472 | 7.47913E-32 | 245802 | MS4A6E |
| -0.130108684 | 7.06238E-32 | 5623 | PSPN |
| -0.130142123 | 6.81234E-32 | 2013 | EMP2 |
| -0.130168125 | 6.62393E-32 | 92092 | ZC3HAV1L |
| -0.130195603 | 6.43051E-32 | 757 | TMEM50B |
| -0.130332589 | 5.54679E-32 | 1288 | COL4A6 |
| -0.130432978 | 4.97673E-32 | 84522 | JAGN1 |
| -0.130433902 | 4.97182E-32 | 79912 | PYROXD1 |
| -0.130451173 | 4.87984E-32 | 3170 | FOXA2 |
| -0.130497515 | 4.64146E-32 | 8654 | PDE5A |
| -0.130553424 | 4.36907E-32 | 567 | B2M |
| -0.130553693 | 4.36786E-32 | 57610 | RANBP10 |
| -0.130592987 | 4.18608E-32 | 222699 | TOB2P1 |
| -0.130596235 | 4.17138E-32 | 6285 | S100B |
| -0.130633935 | 4.00463E-32 | 9321 | TRIP11 |
| -0.13066031 | 3.89194E-32 | 157773 | C8orf48 |
| -0.130684182 | 3.7926E-32 | 10220 | GDF11 |
| -0.130702093 | 3.71977E-32 | 4720 | NDUFS2 |
| -0.130731076 | 3.60485E-32 | 3293 | HSD17B3 |
| -0.130770355 | 3.45463E-32 | 6324 | SCN1B |
| -0.130784571 | 3.40186E-32 | 64965 | MRPS9 |
| -0.130852818 | 3.15928E-32 | 84645 | C22orf23 |
| -0.130864993 | 3.11787E-32 | 9650 | MTFR1 |
| -0.130865082 | 3.11753E-32 | 8537 | BCAS1 |
| -0.130922556 | 2.92914E-32 | 1603 | DAD1 |
| -0.13094309 | 2.86465E-32 | 7080 | NKX2-1 |
| -0.13108851 | 2.4463E-32 | 103 | ADAR |
| -0.131111264 | 2.3866E-32 | 127495 | LRRC39 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.178120971 | 0.297414929 | 0.331 | 1 | 26589 | MRPL46 |
| -0.178120971 | 0.297414929 | 0.314 | 1 | 55775 | TDP1 |
| -0.178120971 | 0.297414929 | 0.323 | 1 | 284161 | GDPD1 |
| -0.178378388 | 0.296708167 | 0.359 | 1 | 1129 | CHRM2 |
| -0.178378388 | 0.296708167 | 0.322 | 1 | 1514 | CTSL1 |
| -0.178378388 | 0.296708167 | 0.294 | 1 | 5525 | PPP2R5A |
| -0.178378388 | 0.296708167 | 0.327 | 1 | 23192 | ATG4B |
| -0.178378388 | 0.296708167 | 0.351 | 1 | 23259 | DDHD2 |
| -0.178378388 | 0.296708167 | 0.313 | 1 | 51741 | WWOX |
| -0.178378388 | 0.296708167 | 0.341 | 1 | 55969 | C20orf24 |
| -0.178378388 | 0.296708167 | 0.318 | 1 | 64760 | FAM160B2 |
| -0.178635776 | 0.296002775 | 0.354 | 1 | 23136 | EPB41L3 |
| -0.178635776 | 0.296002775 | 0.303 | 1 | 25983 | NGDN |
| -0.178635776 | 0.296002775 | 0.327 | 1 | 56112 | PCDHGA3 |
| -0.178635776 | 0.296002775 | 0.348 | 1 | 90139 | TSPAN18 |
| -0.178635776 | 0.296002775 | 0.334 | 1 | 144193 | AMDHD1 |
| -0.178893179 | 0.295298487 | 0.344 | 1 | 323 | APBB2 |
| -0.178893179 | 0.295298487 | 0.358 | 1 | 4352 | MPL |
| -0.178893179 | 0.295298487 | 0.342 | 1 | 9801 | MRPL19 |
| -0.178893179 | 0.295298487 | 0.323 | 1 | 11141 | IL1RAPL1 |
| -0.178893179 | 0.295298487 | 0.323 | 1 | 11156 | PTP4A3 |
| -0.178893179 | 0.295298487 | 0.355 | 1 | 51596 | CUTA |
| -0.178893179 | 0.295298487 | 0.323 | 1 | 55613 | MTMR8 |
| -0.178893179 | 0.295298487 | 0.332 | 1 | 79884 | MAP9 |
| -0.178893179 | 0.295298487 | 0.335 | 1 | 152485 | ZNF827 |
| -0.178893179 | 0.295298487 | 0.315 | 1 | 643641 | ZNF862 |
| -0.178893179 | 0.295298487 | 0.358 | 1 | 100131564 | LOC100131564 |
| -0.179150581 | 0.294595361 | 0.324 | 1 | 3231 | HOXD1 |
| -0.179150581 | 0.294595361 | 0.313 | 1 | 6924 | TCEB3 |
| -0.179150581 | 0.294595361 | 0.316 | 1 | 7221 | TRPC2 |
| -0.179150581 | 0.294595361 | 0.344 | 1 | 114883 | OSBPL9 |
| -0.179150581 | 0.294595361 | 0.362 | 1 | 202052 | DNAJC18 |
| -0.179150581 | 0.294595361 | 0.335 | 1 | 414919 | C8orf82 |
| -0.179150581 | 0.294595361 | 0.369 | 1 | 100132708 | CYP4F30P |
| -0.179407984 | 0.29389286 | 0.34 | 1 | 1798 | DPAGT1 |
| -0.179407984 | 0.29389286 | 0.348 | 1 | 2494 | NR5A2 |
| -0.179407984 | 0.29389286 | 0.356 | 1 | 2934 | GSN |
| -0.179407984 | 0.29389286 | 0.334 | 1 | 8714 | ABCC3 |
| -0.179407984 | 0.29389286 | 0.335 | 1 | 56833 | SLAMF8 |
| -0.179407984 | 0.29389286 | 0.326 | 1 | 84446 | BRSK1 |
| -0.179407984 | 0.29389286 | 0.352 | 1 | 90332 | EXOC3L2 |
| -0.179407984 | 0.29389286 | 0.345 | 1 | 197342 | EME2 |
| -0.179407984 | 0.29389286 | 0.336 | 1 | 200895 | DHFRL1 |
| -0.179665387 | 0.29319188 | 0.347 | 1 | 1687 | DFNA5 |
| -0.179665387 | 0.29319188 | 0.337 | 1 | 4595 | MUTYH |
| -0.179665387 | 0.29319188 | 0.361 | 1 | 10240 | MRPS31 |
| -0.179665387 | 0.29319188 | 0.306 | 1 | 55818 | KDM3A |
| -0.179665387 | 0.29319188 | 0.308 | 1 | 57459 | GATAD2B |
| -0.179665387 | 0.29319188 | 0.346 | 1 | 80279 | CDK5RAP3 |
| -0.179665387 | 0.29319188 | 0.338 | 1 | 85016 | C11orf70 |
| -0.179665387 | 0.29319188 | 0.345 | 1 | 90827 | ZNF479 |
| -0.179665387 | 0.29319188 | 0.343 | 1 | 220979 | C10orf25 |
| -0.179922774 | 0.292491913 | 0.328 | 1 | 7175 | TPR |
| -0.179922774 | 0.292491913 | 0.322 | 1 | 10628 | TXNIP |
| -0.179922774 | 0.292491913 | 0.329 | 1 | 26140 | TTLL3 |
| -0.179922774 | 0.292491913 | 0.369 | 1 | 29956 | LASS2 |
| -0.179922774 | 0.292491913 | 0.323 | 1 | 29957 | SLC25A24 |
| -0.179922774 | 0.292491913 | 0.332 | 1 | 54621 | AC131238.1 |
| -0.179922774 | 0.292491913 | 0.311 | 1 | 124842 | TMEM132E |
| -0.179922774 | 0.292491913 | 0.314 | 1 | 246126 | CYorf15B |
| -0.180180177 | 0.291793138 | 0.349 | 1 | 587 | BCAT2 |
| -0.180180177 | 0.291793138 | 0.314 | 1 | 3688 | ITGB1 |
| -0.180180177 | 0.291793138 | 0.344 | 1 | 8187 | ZNF239 |
| -0.180180177 | 0.291793138 | 0.31 | 1 | 10755 | GIPC1 |
| -0.180180177 | 0.291793138 | 0.329 | 1 | 51447 | IP6K2 |
| -0.180180177 | 0.291793138 | 0.31 | 1 | 54558 | SPATA6 |
| -0.180180177 | 0.291793138 | 0.319 | 1 | 388561 | ZNF761 |
| -0.180180177 | 0.291793138 | 0.354 | 1 | 391322 | LOC391322 |
| -0.18043758 | 0.291094989 | 0.321 | 1 | 2829 | XCR1 |
| -0.18043758 | 0.291094989 | 0.355 | 1 | 9039 | UBA3 |
| -0.18043758 | 0.291094989 | 0.343 | 1 | 9517 | SPTLC2 |
| -0.18043758 | 0.291094989 | 0.34 | 1 | 9618 | TRAF4 |
| -0.18043758 | 0.291094989 | 0.346 | 1 | 51676 | ASB2 |
| -0.18043758 | 0.291094989 | 0.342 | 1 | 64429 | ZDHHC6 |
| -0.18043758 | 0.291094989 | 0.343 | 1 | 64599 | GIGYF1 |
| -0.18043758 | 0.291094989 | 0.344 | 1 | 127428 | C1orf83 |
| -0.18043758 | 0.291094989 | 0.342 | 1 | 159371 | TMEM20 |
| -0.18043758 | 0.291094989 | 0.313 | 1 | 163059 | ZNF433 |
| -0.180694982 | 0.290398359 | 0.335 | 1 | 1785 | DNM2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.131119341 | 2.36573E-32 | 140460 | ASB7 |
| -0.131126493 | 2.34744E-32 | 23329 | TBC1D30 |
| -0.131168559 | 2.24256E-32 | 55556 | ENOSF1 |
| -0.131186485 | 2.19927E-32 | 7378 | UPP1 |
| -0.131216303 | 2.12913E-32 | 51125 | GOLGA7 |
| -0.131278798 | 1.98921E-32 | 401431 | RP4-751H13.1 |
| -0.131295696 | 1.95299E-32 | 1298 | COL9A2 |
| -0.131302193 | 1.93922E-32 | 6010 | RHO |
| -0.131324679 | 1.89234E-32 | 7916 | BAT2 |
| -0.131328106 | 1.8853E-32 | 199692 | ZNF627 |
| -0.131409273 | 1.72589E-32 | 10151 | HNRNPA3P1 |
| -0.131443352 | 1.663E-32 | 10111 | RAD50 |
| -0.131444663 | 1.66064E-32 | 8773 | SNAP23 |
| -0.131481707 | 1.59496E-32 | 83656 | C8orf12 |
| -0.131497681 | 1.56743E-32 | 646993 | HMGB3P24 |
| -0.131499544 | 1.56424E-32 | 7164 | TPD52L1 |
| -0.131542817 | 1.49221E-32 | 10630 | PDPN |
| -0.131612375 | 1.3832E-32 | 54504 | CPVL |
| -0.13161999 | 1.37179E-32 | 147525 | LINC00526 |
| -0.131636143 | 1.34782E-32 | 55653 | BCAS4 |
| -0.131708398 | 1.24564E-32 | 93953 | ACRC |
| -0.131725475 | 1.22263E-32 | 1195 | CLK1 |
| -0.131762072 | 1.17475E-32 | 23306 | TMEM194A |
| -0.131779164 | 1.15303E-32 | 91664 | ZNF845 |
| -0.131790489 | 1.13886E-32 | 50831 | TAS2R3 |
| -0.131822616 | 1.09958E-32 | 139324 | HDX |
| -0.131856978 | 1.05908E-32 | 4066 | LYL1 |
| -0.131886512 | 1.02544E-32 | 81669 | CCNL2 |
| -0.131903604 | 1.00645E-32 | 162 | AP1B1 |
| -0.131904811 | 1.00512E-32 | 4054 | LTBP3 |
| -0.131923288 | 9.85027E-33 | 57459 | GATAD2B |
| -0.131927833 | 9.80151E-33 | 6296 | ACSM3 |
| -0.132137805 | 7.7896E-33 | 120 | ADD3 |
| -0.132188052 | 7.37252E-33 | 51004 | COQ6 |
| -0.132213593 | 7.16911E-33 | 445329 | SULT1A4 |
| -0.132271901 | 6.72529E-33 | 642280 | ZNF876P |
| -0.132380933 | 5.96739E-33 | 2187 | FANCB |
| -0.132404611 | 5.81431E-33 | 163223 | ZNF676 |
| -0.132557377 | 4.91648E-33 | 51079 | NDUFA13 |
| -0.132656738 | 4.40789E-33 | 6872 | TAF1 |
| -0.132753327 | 3.96361E-33 | 8522 | GAS7 |
| -0.132788792 | 3.8119E-33 | 112495 | GTF3C6 |
| -0.132797256 | 3.77661E-33 | 6170 | RPL39 |
| -0.132816941 | 3.69558E-33 | 81846 | SBF2 |
| -0.132819444 | 3.68549E-33 | 79648 | MCPH1 |
| -0.132866621 | 3.49895E-33 | 100128822 | LOC100128822 |
| -0.132897541 | 3.38174E-33 | 26240 | FAM50B |
| -0.132953733 | 3.17871E-33 | 1944 | EFNA3 |
| -0.133063585 | 2.81619E-33 | 1739 | DLG1 |
| -0.133075193 | 2.78038E-33 | 200634 | KRTCAP3 |
| -0.133088842 | 2.73884E-33 | 10623 | POLR3C |
| -0.13316305 | 2.5235E-33 | 84275 | SLC25A33 |
| -0.133178651 | 2.4804E-33 | 966 | CD59 |
| -0.133187011 | 2.45762E-33 | 84061 | MAGT1 |
| -0.133203909 | 2.41219E-33 | 55177 | FAM82A2 |
| -0.133229166 | 2.34586E-33 | 11159 | RABL2A |
| -0.133257672 | 2.27318E-33 | 404093 | CUEDC1 |
| -0.133288696 | 2.19659E-33 | 83695 | C12orf32 |
| -0.133288786 | 2.19637E-33 | 124512 | C17orf95 |
| -0.133296683 | 2.17728E-33 | 26958 | COPG2 |
| -0.133307368 | 2.15173E-33 | 3181 | HNRNPA2B1 |
| -0.133329093 | 2.10069E-33 | 151790 | WDR49 |
| -0.133354262 | 2.04305E-33 | 1378 | CR1 |
| -0.133382961 | 1.97926E-33 | 5627 | PROS1 |
| -0.133401528 | 1.93903E-33 | 10314 | LANCL1 |
| -0.133405611 | 1.93028E-33 | 83475 | DOHH |
| -0.133425489 | 1.88833E-33 | 22929 | SEPHS1 |
| -0.133431986 | 1.87481E-33 | 1407 | CRY1 |
| -0.133489385 | 1.75945E-33 | 11176 | BAZ2A |
| -0.133520588 | 1.69974E-33 | 7841 | MOGS |
| -0.133531079 | 1.6801E-33 | 79411 | GLB1L |
| -0.133531541 | 1.67923E-33 | 54948 | MRPL16 |
| -0.133582518 | 1.58709E-33 | 57611 | ISLR2 |
| -0.133593947 | 1.56716E-33 | 9328 | GTF3C5 |
| -0.133610293 | 1.53905E-33 | 219285 | SAMD9L |
| -0.133649021 | 1.4744E-33 | 283248 | RCOR2 |
| -0.133665547 | 1.44764E-33 | 91316 | AP000347.4 |
| -0.133673251 | 1.43535E-33 | 2803 | GOLGA4 |
| -0.133703902 | 1.3874E-33 | 11180 | WDR6 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.180694982 | 0.290398359 | 0.327 | 1 | 25988 | HINFP |
| -0.180694982 | 0.290398359 | 0.355 | 1 | 55326 | AGPAT5 |
| -0.180694982 | 0.290398359 | 0.322 | 1 | 56006 | C19orf61 |
| -0.180694982 | 0.290398359 | 0.314 | 1 | 79649 | MAP7D3 |
| -0.180952385 | 0.289702773 | 0.332 | 1 | 3421 | IDH3G |
| -0.180952385 | 0.289702773 | 0.351 | 1 | 4796 | NFKBIL2 |
| -0.180952385 | 0.289702773 | 0.307 | 1 | 6302 | TSPAN31 |
| -0.180952385 | 0.289702773 | 0.341 | 1 | 23228 | PLCL2 |
| -0.180952385 | 0.289702773 | 0.335 | 1 | 56650 | CLDND1 |
| -0.180952385 | 0.289702773 | 0.326 | 1 | 148103 | ZNF599 |
| -0.180952385 | 0.289702773 | 0.356 | 1 | 645027 | EVPLL |
| -0.180952385 | 0.289702773 | 0.336 | 1 | 100128174 | LOC100128174 |
| -0.180952385 | 0.289702773 | 0.329 | 1 | 100288560 | LOC100288560 |
| -0.181209773 | 0.28900823 | 0.333 | 1 | 3884 | KRT33B |
| -0.181209773 | 0.28900823 | 0.338 | 1 | 26353 | HSPB8 |
| -0.181209773 | 0.28900823 | 0.325 | 1 | 54059 | C21orf57 |
| -0.181467175 | 0.288314849 | 0.335 | 1 | 98 | ACYP2 |
| -0.181467175 | 0.288314849 | 0.325 | 1 | 178 | AGL |
| -0.181467175 | 0.288314849 | 0.318 | 1 | 3635 | INPP5D |
| -0.181467175 | 0.288314849 | 0.324 | 1 | 6207 | RPS13P2 |
| -0.181467175 | 0.288314849 | 0.302 | 1 | 6520 | SLC3A2 |
| -0.181467175 | 0.288314849 | 0.314 | 1 | 9786 | KIAA0586 |
| -0.181467175 | 0.288314849 | 0.307 | 1 | 23433 | RHOQ |
| -0.181467175 | 0.288314849 | 0.336 | 1 | 55421 | C17orf85 |
| -0.181467175 | 0.288314849 | 0.35 | 1 | 57122 | NUP107 |
| -0.181467175 | 0.288314849 | 0.334 | 1 | 57409 | MIF4GD |
| -0.181724578 | 0.287622213 | 0.336 | 1 | 4684 | NCAM1 |
| -0.181724578 | 0.287622213 | 0.323 | 1 | 7681 | MKRN3 |
| -0.181724578 | 0.287622213 | 0.344 | 1 | 8751 | ADAM15 |
| -0.181724578 | 0.287622213 | 0.321 | 1 | 11161 | C14orf1 |
| -0.181724578 | 0.287622213 | 0.34 | 1 | 25878 | MXRA5 |
| -0.181724578 | 0.287622213 | 0.333 | 1 | 92815 | HIST3H2A |
| -0.181724578 | 0.287622213 | 0.333 | 1 | 94274 | PPP1R14A |
| -0.181724578 | 0.287622213 | 0.338 | 1 | 123920 | CMTM3 |
| -0.181724578 | 0.287622213 | 0.337 | 1 | 124512 | C17orf95 |
| -0.181724578 | 0.287622213 | 0.341 | 1 | 259293 | TAS2R30 |
| -0.181981981 | 0.286930919 | 0.324 | 1 | 9770 | RASSF2 |
| -0.181981981 | 0.286930919 | 0.328 | 1 | 10483 | SEC23B |
| -0.181981981 | 0.286930919 | 0.327 | 1 | 23683 | PRKD3 |
| -0.181981981 | 0.286930919 | 0.337 | 1 | 83878 | USHBP1 |
| -0.181981981 | 0.286930919 | 0.332 | 1 | 115560 | ZNF501 |
| -0.182239383 | 0.286240727 | 0.33 | 1 | 250 | ALPP |
| -0.182239383 | 0.286240727 | 0.323 | 1 | 2800 | GOLGA1 |
| -0.182239383 | 0.286240727 | 0.353 | 1 | 3818 | KLKB1 |
| -0.182239383 | 0.286240727 | 0.314 | 1 | 4643 | MYO1E |
| -0.182239383 | 0.286240727 | 0.311 | 1 | 5191 | PEX7 |
| -0.182239383 | 0.286240727 | 0.327 | 1 | 55755 | CDK5RAP2 |
| -0.182239383 | 0.286240727 | 0.318 | 1 | 79944 | L2HGDH |
| -0.182239383 | 0.286240727 | 0.301 | 1 | 114908 | TMEM123 |
| -0.182496771 | 0.285551667 | 0.331 | 1 | 1747 | DLX3 |
| -0.182496771 | 0.285551667 | 0.322 | 1 | 3125 | HLA-DRB3 |
| -0.182496771 | 0.285551667 | 0.341 | 1 | 3556 | IL1RAP |
| -0.182496771 | 0.285551667 | 0.329 | 1 | 9806 | SPOCK2 |
| -0.182496771 | 0.285551667 | 0.335 | 1 | 26118 | WSB1 |
| -0.182496771 | 0.285551667 | 0.319 | 1 | 51493 | C22orf28 |
| -0.182496771 | 0.285551667 | 0.319 | 1 | 79905 | TMC7 |
| -0.182754174 | 0.284863412 | 0.351 | 1 | 1287 | COL4A5 |
| -0.182754174 | 0.284863412 | 0.31 | 1 | 29088 | MRPL15 |
| -0.182754174 | 0.284863412 | 0.3 | 1 | 54544 | CRCT1 |
| -0.182754174 | 0.284863412 | 0.324 | 1 | 56649 | TMPRSS4 |
| -0.182754174 | 0.284863412 | 0.351 | 1 | 90529 | C1orf201 |
| -0.182754174 | 0.284863412 | 0.321 | 1 | 389558 | FAM180A |
| -0.183011577 | 0.284176469 | 0.338 | 1 | 5597 | MAPK6 |
| -0.183011577 | 0.284176469 | 0.327 | 1 | 6121 | RPE65 |
| -0.183011577 | 0.284176469 | 0.33 | 1 | 7917 | BAT3 |
| -0.183011577 | 0.284176469 | 0.352 | 1 | 9654 | TTLL4 |
| -0.183011577 | 0.284176469 | 0.321 | 1 | 65110 | UPF3A |
| -0.183011577 | 0.284176469 | 0.327 | 1 | 119587 | CPXM2 |
| -0.183011577 | 0.284176469 | 0.332 | 1 | 222229 | LRWD1 |
| -0.183268979 | 0.283490628 | 0.334 | 1 | 10198 | MPHOSPH9 |
| -0.183268979 | 0.283490628 | 0.304 | 1 | 25793 | FBXO7 |
| -0.183268979 | 0.283490628 | 0.315 | 1 | 55379 | LRRC59 |
| -0.183268979 | 0.283490628 | 0.317 | 1 | 81328 | OR4A15 |
| -0.183268979 | 0.283490628 | 0.318 | 1 | 140679 | SLC32A1 |
| -0.183268979 | 0.283490628 | 0.314 | 1 | 219654 | ZCCHC24 |
| -0.183268979 | 0.283490628 | 0.343 | 1 | 254827 | NAALADL2 |
| -0.183526382 | 0.28280586 | 0.297 | 1 | 2013 | EMP2 |
| -0.183526382 | 0.28280586 | 0.329 | 1 | 2549 | GAB1 |
| -0.183526382 | 0.28280586 | 0.334 | 1 | 23048 | FNBP1 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.133764818 | 1.29681E-33 | 4040 | LRP6 |
| -0.133949623 | 1.05637E-33 | 11068 | CYB561D2 |
| -0.133965597 | 1.03781E-33 | 29796 | UCRC |
| -0.133965775 | 1.0376E-33 | 6217 | RPS16P1 |
| -0.134091705 | 9.02124E-34 | 84173 | ELMOD3 |
| -0.134108424 | 8.85521E-34 | 55783 | FTSJD1 |
| -0.134179562 | 8.18164E-34 | 10423 | CDIPT |
| -0.134219021 | 7.83017E-34 | 64288 | ZNF323 |
| -0.134247348 | 7.58724E-34 | 56650 | CLDND1 |
| -0.134263143 | 7.45496E-34 | 56479 | KCNQ5 |
| -0.134281427 | 7.30483E-34 | 6764 | ST5 |
| -0.134296939 | 7.17975E-34 | 54149 | C21orf91 |
| -0.134304836 | 7.11677E-34 | 3795 | KHK |
| -0.134331763 | 6.90668E-34 | 4694 | NDUFA1 |
| -0.134368822 | 6.62741E-34 | 23155 | CLCC1 |
| -0.13437058 | 6.61437E-34 | 6138 | RPL15 |
| -0.134388134 | 6.48637E-34 | 10998 | SLC27A5 |
| -0.134389535 | 6.47616E-34 | 23630 | KCNE1L |
| -0.134441435 | 6.11231E-34 | 57685 | CACHD1 |
| -0.13445881 | 5.99499E-34 | 57578 | KIAA1409 |
| -0.134471908 | 5.9081E-34 | 84217 | ZMYND12 |
| -0.134475157 | 5.88679E-34 | 10808 | HSPH1 |
| -0.134502739 | 5.70846E-34 | 10645 | CAMKK2 |
| -0.134527162 | 5.5551E-34 | 5653 | KLK6 |
| -0.134532258 | 5.52358E-34 | 122953 | JDP2 |
| -0.134614259 | 5.0407E-34 | 202333 | CMYA5 |
| -0.134710014 | 4.52964E-34 | 27291 | C10orf28 |
| -0.134738982 | 4.38537E-34 | 143684 | FAM76B |
| -0.13476564 | 4.25672E-34 | 6678 | SPARC |
| -0.134798691 | 4.10238E-34 | 9986 | RCE1 |
| -0.134827852 | 3.97083E-34 | 317649 | EIF4E3 |
| -0.134829164 | 3.96498E-34 | 55819 | RNF130 |
| -0.134831846 | 3.95318E-34 | 4124 | MAN2A1 |
| -0.134832412 | 3.95061E-34 | 489 | ATP2A3 |
| -0.134896487 | 3.67749E-34 | 25925 | ZNF521 |
| -0.13490206 | 3.65467E-34 | 10513 | APPBP2 |
| -0.13491793 | 3.59028E-34 | 255043 | TMEM86B |
| -0.135007739 | 3.24702E-34 | 87178 | PNPT1 |
| -0.135044053 | 3.11773E-34 | 5894 | RAF1 |
| -0.135067821 | 3.03579E-34 | 64919 | BCL11B |
| -0.135113969 | 2.88288E-34 | 4058 | LTK |
| -0.135132551 | 2.82344E-34 | 23451 | SF3B1 |
| -0.135165051 | 2.72251E-34 | 285367 | RPUSD3 |
| -0.135240555 | 2.50151E-34 | 26524 | LATS2 |
| -0.135324597 | 2.27648E-34 | 729535 | FAM207BP |
| -0.135328874 | 2.26561E-34 | 57650 | KIAA1524 |
| -0.135358036 | 2.19263E-34 | 51096 | UTP18 |
| -0.135358676 | 2.19105E-34 | 25805 | BAMBI |
| -0.135377064 | 2.14631E-34 | 10991 | SLC38A3 |
| -0.135468721 | 1.93639E-34 | 6233 | RPS27A |
| -0.135517567 | 1.83299E-34 | 283598 | C14orf177 |
| -0.135564476 | 1.73885E-34 | 441722 | LOC441722 |
| -0.135596409 | 1.67753E-34 | 8226 | HDHD1A |
| -0.135596886 | 1.67661E-34 | 10270 | AKAP8 |
| -0.13560088 | 1.66913E-34 | 648 | BMI1 |
| -0.135610163 | 1.65179E-34 | 64771 | C6orf106 |
| -0.135622144 | 1.62968E-34 | 54708 | MARCHF5 |
| -0.135655478 | 1.56972E-34 | 8604 | SLC25A12 |
| -0.135677025 | 1.53213E-34 | 5424 | POLD1 |
| -0.135724202 | 1.4529E-34 | 23382 | AHCYL2 |
| -0.135733202 | 1.43827E-34 | 79694 | MANEA |
| -0.135749549 | 1.41203E-34 | 115399 | LRRC56 |
| -0.135763943 | 1.38935E-34 | 55191 | NADSYN1 |
| -0.135800168 | 1.33382E-34 | 7711 | ZNF155 |
| -0.135814458 | 1.31254E-34 | 79012 | CAMKV |
| -0.135978281 | 1.09127E-34 | 153443 | SRFBP1 |
| -0.135982364 | 1.08625E-34 | 340947 | LOC340947 |
| -0.136051267 | 1.00502E-34 | 53407 | STX18 |
| -0.136070862 | 9.83037E-35 | 56521 | DNAJC12 |
| -0.136117294 | 9.32849E-35 | 390354 | RPL18AP3 |
| -0.136190474 | 8.58877E-35 | 9732 | DOCK4 |
| -0.136220574 | 8.3016E-35 | 4716 | NDUFB10 |
| -0.136242479 | 8.09869E-35 | 91807 | MYLK3 |
| -0.136305541 | 7.54162E-35 | 55020 | TTC38 |
| -0.136321053 | 7.41049E-35 | 9054 | NFS1 |
| -0.13634482 | 7.21412E-35 | 91768 | CABLES1 |
| -0.136352718 | 7.14994E-35 | 55765 | C1orf106 |
| -0.136355594 | 7.12673E-35 | 147991 | DPY19L3 |
| -0.136383086 | 6.90858E-35 | 100505741 | SPATA1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.183526382 | 0.28280586 | 0.336 | 1 | 170487 | C20orf134 |
| -0.18378377 | 0.282121897 | 0.322 | 1 | 4336 | MOBP |
| -0.18378377 | 0.282121897 | 0.333 | 1 | 4656 | MYOG |
| -0.18378377 | 0.282121897 | 0.324 | 1 | 6579 | SLCO1A2 |
| -0.18378377 | 0.282121897 | 0.325 | 1 | 11167 | FSTL1 |
| -0.18378377 | 0.282121897 | 0.306 | 1 | 23119 | HIC2 |
| -0.18378377 | 0.282121897 | 0.336 | 1 | 64756 | ATPAF1 |
| -0.18378377 | 0.282121897 | 0.338 | 1 | 348995 | NUP43 |
| -0.184041172 | 0.281439394 | 0.31 | 1 | 4671 | NAIP |
| -0.184041172 | 0.281439394 | 0.305 | 1 | 4804 | NGFR |
| -0.184041172 | 0.281439394 | 0.293 | 1 | 54799 | MBTD1 |
| -0.184041172 | 0.281439394 | 0.33 | 1 | 55971 | BAIAP2L1 |
| -0.184041172 | 0.281439394 | 0.337 | 1 | 116362 | RBP7 |
| -0.184041172 | 0.281439394 | 0.313 | 1 | 120364 | LOC120364 |
| -0.184298575 | 0.280757874 | 0.324 | 1 | 51114 | ZDHHC9 |
| -0.184298575 | 0.280757874 | 0.316 | 1 | 57507 | ZNF608 |
| -0.184298575 | 0.280757874 | 0.341 | 1 | 80723 | TMEM22 |
| -0.184555978 | 0.280077457 | 0.322 | 1 | 140876 | C20orf175 |
| -0.18481338 | 0.279398113 | 0.291 | 1 | 1522 | CTSZ |
| -0.18481338 | 0.279398113 | 0.343 | 1 | 6440 | SFTPC |
| -0.18481338 | 0.279398113 | 0.312 | 1 | 8632 | DNAH17 |
| -0.18481338 | 0.279398113 | 0.276 | 1 | 29893 | PSMC3IP |
| -0.18481338 | 0.279398113 | 0.337 | 1 | 55806 | HR |
| -0.18481338 | 0.279398113 | 0.311 | 1 | 85001 | CTD-2514K5.2 |
| -0.18481338 | 0.279398113 | 0.314 | 1 | 401357 | LOC401357 |
| -0.185070768 | 0.278719574 | 0.339 | 1 | 538 | ATP7A |
| -0.185070768 | 0.278719574 | 0.327 | 1 | 4050 | LTB |
| -0.185070768 | 0.278719574 | 0.353 | 1 | 6426 | SRSF1 |
| -0.185070768 | 0.278719574 | 0.295 | 1 | 22807 | IKZF2 |
| -0.185070768 | 0.278719574 | 0.284 | 1 | 56127 | PCDHB9 |
| -0.185070768 | 0.278719574 | 0.302 | 1 | 79912 | PYROXD1 |
| -0.185070768 | 0.278719574 | 0.321 | 1 | 442720 | EIF3IP1 |
| -0.185328171 | 0.278042465 | 0.313 | 1 | 7326 | AC087742.2 |
| -0.185328171 | 0.278042465 | 0.337 | 1 | 27229 | TUBGCP4 |
| -0.185328171 | 0.278042465 | 0.311 | 1 | 55701 | AL161668.2 |
| -0.185328171 | 0.278042465 | 0.295 | 1 | 339829 | CCDC39 |
| -0.185328171 | 0.278042465 | 0.31 | 1 | 388523 | ZNF728 |
| -0.185585588 | 0.2773664 | 0.324 | 1 | 3111 | HLA-DOA |
| -0.185585588 | 0.2773664 | 0.344 | 1 | 7417 | VDAC2 |
| -0.185585588 | 0.2773664 | 0.299 | 1 | 285381 | DPH3 |
| -0.185585588 | 0.2773664 | 0.324 | 1 | 374666 | WASH3P |
| -0.185842991 | 0.276691377 | 0.317 | 1 | 5175 | PECAM1 |
| -0.185842991 | 0.276691377 | 0.314 | 1 | 8535 | CBX4 |
| -0.185842991 | 0.276691377 | 0.324 | 1 | 10548 | TM9SF1 |
| -0.185842991 | 0.276691377 | 0.326 | 1 | 10954 | PDIA5 |
| -0.185842991 | 0.276691377 | 0.318 | 1 | 23019 | CNOT1 |
| -0.185842991 | 0.276691377 | 0.289 | 1 | 23660 | ZKSCAN5 |
| -0.185842991 | 0.276691377 | 0.34 | 1 | 79029 | SPATA5L1 |
| -0.185842991 | 0.276691377 | 0.351 | 1 | 84327 | ZBED3 |
| -0.185842991 | 0.276691377 | 0.324 | 1 | 133482 | SLCO6A1 |
| -0.185842991 | 0.276691377 | 0.313 | 1 | 442113 | LOC442113 |
| -0.185842991 | 0.276691377 | 0.308 | 1 | 619455 | SPANXA2-OT1 |
| -0.186100394 | 0.276017159 | 0.317 | 1 | 63931 | MRPS14 |
| -0.186100394 | 0.276017159 | 0.316 | 1 | 84079 | ANKRD27 |
| -0.186100394 | 0.276017159 | 0.319 | 1 | 401265 | KLHL31 |
| -0.186357796 | 0.275344312 | 0.321 | 1 | 632 | BGLAP |
| -0.186357796 | 0.275344312 | 0.336 | 1 | 3092 | HIP1 |
| -0.186357796 | 0.275344312 | 0.299 | 1 | 3612 | IMPA1 |
| -0.186357796 | 0.275344312 | 0.284 | 1 | 4778 | NFE2 |
| -0.186357796 | 0.275344312 | 0.306 | 1 | 6764 | ST5 |
| -0.186357796 | 0.275344312 | 0.295 | 1 | 8879 | SGPL1 |
| -0.186357796 | 0.275344312 | 0.289 | 1 | 10010 | TANK |
| -0.186357796 | 0.275344312 | 0.315 | 1 | 55603 | FAM46A |
| -0.186357796 | 0.275344312 | 0.32 | 1 | 80012 | PHC3 |
| -0.186357796 | 0.275344312 | 0.348 | 1 | 340526 | RGAG4 |
| -0.186357796 | 0.275344312 | 0.318 | 1 | 645996 | NAP1L6 |
| -0.186615184 | 0.274672627 | 0.307 | 1 | 6237 | RRAS |
| -0.186615184 | 0.274672627 | 0.308 | 1 | 6330 | SCN4B |
| -0.186615184 | 0.274672627 | 0.305 | 1 | 6856 | SYPL1 |
| -0.186615184 | 0.274672627 | 0.29 | 1 | 9936 | CD302 |
| -0.186615184 | 0.274672627 | 0.31 | 1 | 23545 | ATP6V0A2 |
| -0.186615184 | 0.274672627 | 0.315 | 1 | 26574 | AATF |
| -0.186615184 | 0.274672627 | 0.336 | 1 | 29925 | GMPPB |
| -0.186615184 | 0.274672627 | 0.311 | 1 | 143941 | TTC36 |
| -0.186615184 | 0.274672627 | 0.314 | 1 | 339291 | LRRC30 |
| -0.186872587 | 0.274001956 | 0.313 | 1 | 11083 | DIDO1 |
| -0.186872587 | 0.274001956 | 0.33 | 1 | 85317 | BAGE4 |
| -0.186872587 | 0.274001956 | 0.315 | 1 | 123283 | TARSL2 |
| -0.186872587 | 0.274001956 | 0.302 | 1 | 202374 | STK32A |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.136435926 | 6.50757E-35 | 201627 | FAM116A |
| -0.136475205 | 6.22469E-35 | 11145 | PLA2G16 |
| -0.136567146 | 5.60927E-35 | 7422 | VEGFA |
| -0.136586547 | 5.48739E-35 | 8943 | AP3D1 |
| -0.136647016 | 5.12402E-35 | 203190 | LGI3 |
| -0.136692703 | 4.86536E-35 | 10875 | FGL2 |
| -0.136698648 | 4.83267E-35 | 79929 | MAP6D1 |
| -0.136711925 | 4.76049E-35 | 79811 | SLTM |
| -0.136718601 | 4.72456E-35 | 148789 | B3GALNT2 |
| -0.136733189 | 4.64707E-35 | 8661 | EIF3A |
| -0.136826888 | 4.17852E-35 | 1742 | DLG4 |
| -0.136995435 | 3.45058E-35 | 10657 | KHDRBS1 |
| -0.137003988 | 3.41724E-35 | 440077 | ZNF705A |
| -0.137074649 | 3.1535E-35 | 440138 | ALG11 |
| -0.137089238 | 3.10163E-35 | 7728 | ZNF175 |
| -0.137090534 | 3.09703E-35 | 8693 | GALNT4 |
| -0.137105584 | 3.04447E-35 | 90871 | C9orf123 |
| -0.137119606 | 2.99631E-35 | 8348 | HIST1H2BO |
| -0.13712424 | 2.98056E-35 | 60496 | AASDHPPT |
| -0.137135759 | 2.94177E-35 | 1325 | CORT |
| -0.137141332 | 2.92317E-35 | 6775 | STAT4 |
| -0.137208387 | 2.70848E-35 | 399821 | RP11-383C5.4 |
| -0.137245253 | 2.59715E-35 | 11057 | ABHD2 |
| -0.137249991 | 2.58317E-35 | 83878 | USHBP1 |
| -0.137264654 | 2.54044E-35 | 3083 | HGFAC |
| -0.137278125 | 2.50174E-35 | 7385 | UQCRC2 |
| -0.137370348 | 2.25228E-35 | 5343 | PLGLB1 |
| -0.13738659 | 2.21096E-35 | 388799 | C20orf107 |
| -0.137404427 | 2.16645E-35 | 3306 | HSPA2 |
| -0.137445003 | 2.06854E-35 | 30061 | SLC40A1 |
| -0.137518749 | 1.90169E-35 | 208 | AKT2 |
| -0.137526825 | 1.88427E-35 | 5507 | PPP1R3C |
| -0.137551337 | 1.83231E-35 | 10130 | PDIA6 |
| -0.137574375 | 1.78475E-35 | 100129034 | LOC100129034 |
| -0.137592107 | 1.74899E-35 | 9531 | BAG3 |
| -0.137592942 | 1.74734E-35 | 284312 | ZSCAN1 |
| -0.137602881 | 1.72762E-35 | 85440 | DOCK7 |
| -0.137623593 | 1.68726E-35 | 25836 | NIPBL |
| -0.137671784 | 1.59692E-35 | 54933 | RHBDL2 |
| -0.137677908 | 1.58581E-35 | 7761 | ZNF214 |
| -0.137685061 | 1.5729E-35 | 84750 | FUT10 |
| -0.137709945 | 1.52882E-35 | 58496 | LY6G5B |
| -0.137714788 | 1.52039E-35 | 23203 | PMPCA |
| -0.137722209 | 1.50754E-35 | 10632 | ATP5L |
| -0.137808487 | 1.36599E-35 | 303 | ANXA2P1 |
| -0.137862816 | 1.28373E-35 | 7404 | UTY |
| -0.137863651 | 1.28249E-35 | 1317 | SLC31A1 |
| -0.137912869 | 1.21228E-35 | 114908 | TMEM123 |
| -0.137969047 | 1.13679E-35 | 79934 | ADCK4 |
| -0.137969792 | 1.13583E-35 | 51067 | YARS2 |
| -0.137987152 | 1.11349E-35 | 984 | CDC2L1 |
| -0.138035998 | 1.05293E-35 | 84883 | AIFM2 |
| -0.138095438 | 9.83625E-36 | 4992 | OR1F1 |
| -0.138215244 | 8.57424E-36 | 10129 | FRY |
| -0.138225541 | 8.47354E-36 | 196385 | DNAH10 |
| -0.138263807 | 8.10971E-36 | 56658 | TRIM39 |
| -0.138288513 | 7.88316E-36 | 26020 | LRP10 |
| -0.138296023 | 7.81554E-36 | 143 | PARP4 |
| -0.138364479 | 7.22508E-36 | 7644 | ZNF91 |
| -0.13836503 | 7.22039E-36 | 79918 | SETD6 |
| -0.138369948 | 7.17978E-36 | 55256 | ADI1 |
| -0.13840124 | 6.92639E-36 | 83849 | SYT15 |
| -0.138404027 | 6.90427E-36 | 79659 | DYNC2H1 |
| -0.138449728 | 6.55128E-36 | 285368 | PRRT3 |
| -0.138481304 | 6.31778E-36 | 5455 | POU3F3 |
| -0.138487235 | 6.27497E-36 | 80243 | PREX2 |
| -0.13849625 | 6.21033E-36 | 84366 | PRAC |
| -0.138520762 | 6.03777E-36 | 130872 | AHSA2 |
| -0.1385777 | 5.65531E-36 | 9187 | SLC24A1 |
| -0.13860333 | 5.49108E-36 | 57144 | PAK7 |
| -0.138616696 | 5.4072E-36 | 79740 | ZBBX |
| -0.138661921 | 5.13316E-36 | 392 | ARHGAP1 |
| -0.138691083 | 4.96383E-36 | 65220 | NADK |
| -0.138741687 | 4.68289E-36 | 4599 | MX1 |
| -0.13875246 | 4.62524E-36 | 84991 | RBM17 |
| -0.138753027 | 4.62224E-36 | 6871 | TADA2L |
| -0.138784319 | 4.45862E-36 | 57467 | HHATL |
| -0.138840318 | 4.18018E-36 | 7718 | ZNF165 |
| -0.138947487 | 3.69448E-36 | 29956 | LASS2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.187129989 | 0.273332417 | 0.315 | 1 | 1103 | CHAT |
| -0.187129989 | 0.273332417 | 0.305 | 1 | 3858 | KRT10 |
| -0.187129989 | 0.273332417 | 0.342 | 1 | 6299 | SALL1 |
| -0.187129989 | 0.273332417 | 0.306 | 1 | 9196 | KCNAB3 |
| -0.187129989 | 0.273332417 | 0.313 | 1 | 27006 | FGF22 |
| -0.187129989 | 0.273332417 | 0.333 | 1 | 51603 | METTL13 |
| -0.187129989 | 0.273332417 | 0.317 | 1 | 58476 | TP53INP2 |
| -0.187129989 | 0.273332417 | 0.333 | 1 | 79754 | ASB13 |
| -0.187129989 | 0.273332417 | 0.303 | 1 | 139760 | GPR119 |
| -0.187387392 | 0.272663563 | 0.307 | 1 | 102 | ADAM10 |
| -0.187387392 | 0.272663563 | 0.305 | 1 | 216 | ALDH1A1 |
| -0.187387392 | 0.272663563 | 0.316 | 1 | 546 | ATRX |
| -0.187387392 | 0.272663563 | 0.311 | 1 | 7043 | TGFB3 |
| -0.187387392 | 0.272663563 | 0.328 | 1 | 28990 | ASTE1 |
| -0.187387392 | 0.272663563 | 0.291 | 1 | 54443 | ANLN |
| -0.187387392 | 0.272663563 | 0.311 | 1 | 55023 | PHIP |
| -0.187387392 | 0.272663563 | 0.298 | 1 | 91392 | ZNF502 |
| -0.187387392 | 0.272663563 | 0.324 | 1 | 113510 | HELQ |
| -0.187387392 | 0.272663563 | 0.284 | 1 | 118738 | ZNF488 |
| -0.187387392 | 0.272663563 | 0.319 | 1 | 260429 | PRSS33 |
| -0.187387392 | 0.272663563 | 0.327 | 1 | 285800 | PRR18 |
| -0.187387392 | 0.272663563 | 0.321 | 1 | 399881 | HNRNPKP3 |
| -0.187387392 | 0.272663563 | 0.319 | 1 | 648359 | FAM108A4P |
| -0.187644795 | 0.27199617 | 0.325 | 1 | 354 | KLK3 |
| -0.187644795 | 0.27199617 | 0.299 | 1 | 498 | ATP5A1 |
| -0.187644795 | 0.27199617 | 0.305 | 1 | 2827 | GPR3 |
| -0.187644795 | 0.27199617 | 0.308 | 1 | 84313 | VPS25 |
| -0.187644795 | 0.27199617 | 0.305 | 1 | 124751 | KRBA2 |
| -0.187644795 | 0.27199617 | 0.334 | 1 | 143244 | EIF5AL1 |
| -0.187644795 | 0.27199617 | 0.285 | 1 | 646891 | SDCCAG3P2 |
| -0.187902182 | 0.27132988 | 0.29 | 1 | 7082 | TJP1 |
| -0.187902182 | 0.27132988 | 0.35 | 1 | 10071 | MUC12 |
| -0.187902182 | 0.27132988 | 0.314 | 1 | 84765 | ZNF577 |
| -0.187902182 | 0.27132988 | 0.299 | 1 | 165679 | SPTSSB |
| -0.188159585 | 0.270664603 | 0.316 | 1 | 6873 | TAF2 |
| -0.188159585 | 0.270664603 | 0.284 | 1 | 7323 | UBE2D3 |
| -0.188159585 | 0.270664603 | 0.313 | 1 | 10278 | EFS |
| -0.188159585 | 0.270664603 | 0.293 | 1 | 64838 | FNDC4 |
| -0.188159585 | 0.270664603 | 0.303 | 1 | 353135 | LCE1E |
| -0.188416988 | 0.27000013 | 0.329 | 1 | 9246 | UBE2L6 |
| -0.188416988 | 0.27000013 | 0.32 | 1 | 91614 | DEPDC7 |
| -0.188416988 | 0.27000013 | 0.296 | 1 | 139322 | APOOL |
| -0.188416988 | 0.27000013 | 0.313 | 1 | 100310812 | RP11-577H5.2 |
| -0.18867439 | 0.269337058 | 0.315 | 1 | 23650 | TRIM29 |
| -0.18867439 | 0.269337058 | 0.305 | 1 | 26184 | OR1F2P |
| -0.18867439 | 0.269337058 | 0.329 | 1 | 54508 | FLJ11235 |
| -0.18867439 | 0.269337058 | 0.301 | 1 | 55832 | CAND1 |
| -0.18867439 | 0.269337058 | 0.327 | 1 | 81850 | KRTAP1-3 |
| -0.18867439 | 0.269337058 | 0.323 | 1 | 131177 | FAM3D |
| -0.188931793 | 0.268675059 | 0.305 | 1 | 10655 | DMRT2 |
| -0.188931793 | 0.268675059 | 0.294 | 1 | 29954 | POMT2 |
| -0.189189181 | 0.268014163 | 0.302 | 1 | 143 | PARP4 |
| -0.189189181 | 0.268014163 | 0.296 | 1 | 2843 | GPR20 |
| -0.189189181 | 0.268014163 | 0.323 | 1 | 8641 | PCDHGB4 |
| -0.189189181 | 0.268014163 | 0.307 | 1 | 29843 | SENP1 |
| -0.189189181 | 0.268014163 | 0.321 | 1 | 51259 | TMEM216 |
| -0.189189181 | 0.268014163 | 0.309 | 1 | 79885 | HDAC11 |
| -0.189189181 | 0.268014163 | 0.285 | 1 | 219858 | OR8B12 |
| -0.189446583 | 0.267354012 | 0.319 | 1 | 1636 | ACE |
| -0.189446583 | 0.267354012 | 0.313 | 1 | 5476 | CTSA |
| -0.189446583 | 0.267354012 | 0.276 | 1 | 54933 | RHBDL2 |
| -0.189446583 | 0.267354012 | 0.301 | 1 | 55367 | LRDD |
| -0.189446583 | 0.267354012 | 0.266 | 1 | 80349 | WDR61 |
| -0.189446583 | 0.267354012 | 0.277 | 1 | 81576 | CCDC130 |
| -0.189446583 | 0.267354012 | 0.298 | 1 | 92285 | ZNF585B |
| -0.189446583 | 0.267354012 | 0.293 | 1 | 388555 | IGFL3 |
| -0.189703986 | 0.266695231 | 0.276 | 1 | 10763 | NES |
| -0.189703986 | 0.266695231 | 0.316 | 1 | 11093 | ADAMTS13 |
| -0.189703986 | 0.266695231 | 0.314 | 1 | 50835 | TAS2R9 |
| -0.189703986 | 0.266695231 | 0.304 | 1 | 56000 | NXF3 |
| -0.189703986 | 0.266695231 | 0.297 | 1 | 64979 | MRPL36 |
| -0.189703986 | 0.266695231 | 0.321 | 1 | 81856 | ZNF611 |
| -0.189961389 | 0.266037583 | 0.297 | 1 | 1236 | CCR7 |
| -0.189961389 | 0.266037583 | 0.312 | 1 | 10404 | AP003117.1 |
| -0.189961389 | 0.266037583 | 0.307 | 1 | 28987 | NOB1 |
| -0.189961389 | 0.266037583 | 0.283 | 1 | 150291 | MORC2-AS1 |
| -0.189961389 | 0.266037583 | 0.286 | 1 | 256987 | SERINC5 |
| -0.189961389 | 0.266037583 | 0.305 | 1 | 727764 | MAFIP |
| -0.190218791 | 0.265380949 | 0.311 | 1 | 7033 | TFF3 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.139017969 | 3.40605E-36 | 6494 | SIPA1 |
| -0.139021039 | 3.39402E-36 | 63920 | C5orf54 |
| -0.139049456 | 3.28461E-36 | 79809 | TTC21B |
| -0.139091983 | 3.12728E-36 | 56915 | EXOSC5 |
| -0.139104053 | 3.08401E-36 | 84541 | KBTBD8 |
| -0.139112979 | 3.0524E-36 | 3572 | IL6ST |
| -0.139144734 | 2.94252E-36 | 93166 | PRDM6 |
| -0.139155224 | 2.90713E-36 | 140901 | STK35 |
| -0.139180392 | 2.82381E-36 | 10776 | ARPP19 |
| -0.139197394 | 2.7689E-36 | 53838 | C11orf24 |
| -0.139233142 | 2.65692E-36 | 10181 | RBM5 |
| -0.139238432 | 2.64071E-36 | 9918 | NCAPD2 |
| -0.139276788 | 2.52625E-36 | 51692 | CPSF3 |
| -0.13929081 | 2.48565E-36 | 201456 | FBXO15 |
| -0.139320806 | 2.4009E-36 | 3563 | IL3RA |
| -0.139349222 | 2.32331E-36 | 8500 | PPFIA1 |
| -0.139368355 | 2.27245E-36 | 147657 | ZNF480 |
| -0.139368534 | 2.272E-36 | 84002 | B3GNT5 |
| -0.139385536 | 2.22778E-36 | 92304 | SCGB3A1 |
| -0.139387116 | 2.2237E-36 | 285800 | PRR18 |
| -0.139392778 | 2.2092E-36 | 167691 | LCA5 |
| -0.139397144 | 2.19802E-36 | 50832 | TAS2R4 |
| -0.139475614 | 2.00728E-36 | 27233 | SULT1C4 |
| -0.139502451 | 1.9459E-36 | 2066 | ERBB4 |
| -0.139515087 | 1.91763E-36 | 57097 | PARP11 |
| -0.139523908 | 1.89814E-36 | 1466 | CSRP2 |
| -0.139538571 | 1.86617E-36 | 29980 | DONSON |
| -0.139573395 | 1.79241E-36 | 84553 | FAXC |
| -0.139710099 | 1.52981E-36 | 7544 | ZFY |
| -0.139739811 | 1.47801E-36 | 646576 | RP11-291L15.2 |
| -0.139749661 | 1.46122E-36 | 84631 | SLITRK2 |
| -0.139765263 | 1.435E-36 | 57488 | ESYT2 |
| -0.13979359 | 1.38865E-36 | 9687 | AC110754.1 |
| -0.139838904 | 1.31751E-36 | 23048 | FNBP1 |
| -0.139899179 | 1.22849E-36 | 9444 | QKI |
| -0.139927402 | 1.18889E-36 | 51133 | KCTD3 |
| -0.139945328 | 1.16438E-36 | 332 | BIRC5 |
| -0.140011176 | 1.07862E-36 | 374887 | YJEFN3 |
| -0.140053615 | 1.02673E-36 | 6657 | SOX2 |
| -0.140132919 | 9.36285E-37 | 6194 | RPS6 |
| -0.140179634 | 8.86775E-37 | 5132 | PDC |
| -0.140196905 | 8.69131E-37 | 375757 | C9orf119 |
| -0.140219942 | 8.46143E-37 | 51663 | ZFR |
| -0.140220031 | 8.46052E-37 | 1174 | AP1S1 |
| -0.140245944 | 8.20922E-37 | 2161 | F12 |
| -0.140276402 | 7.92332E-37 | 55270 | NUDT15 |
| -0.140389323 | 6.94676E-37 | 349334 | FOXD4L4 |
| -0.140469 | 6.33079E-37 | 283337 | ZNF740 |
| -0.140523791 | 5.93889E-37 | 55846 | ITFG2 |
| -0.140529454 | 5.89972E-37 | 9951 | HS3ST4 |
| -0.140652418 | 5.11109E-37 | 23469 | PHF3 |
| -0.140682593 | 4.93422E-37 | 256979 | SUNC1 |
| -0.14069958 | 4.83731E-37 | 9001 | HAP1 |
| -0.140741661 | 4.6052E-37 | 7389 | UROD |
| -0.140760601 | 4.50454E-37 | 254552 | NUDT8 |
| -0.140796453 | 4.31964E-37 | 254042 | METAP1D |
| -0.14081344 | 4.2348E-37 | 6431 | SFRS6 |
| -0.140820965 | 4.19768E-37 | 6529 | SLC6A1 |
| -0.140821055 | 4.19726E-37 | 2113 | ETS1 |
| -0.14084065 | 4.10218E-37 | 84942 | WDR73 |
| -0.140865356 | 3.98543E-37 | 221476 | PI16 |
| -0.140926272 | 3.71134E-37 | 94274 | PPP1R14A |
| -0.140936583 | 3.66685E-37 | 125476 | INO80C |
| -0.141020074 | 3.32554E-37 | 162681 | C18orf54 |
| -0.141024336 | 3.30898E-37 | 57828 | C19orf15 |
| -0.141028419 | 3.29323E-37 | 26152 | ZNF337 |
| -0.141031027 | 3.28322E-37 | 4646 | MYO6 |
| -0.141052753 | 3.20076E-37 | 8547 | FCN3 |
| -0.14113076 | 2.92125E-37 | 3122 | HLA-DRA |
| -0.141154259 | 2.84193E-37 | 266623 | SLC25A5P1 |
| -0.141191497 | 2.72061E-37 | 91893 | FDXACB1 |
| -0.141299874 | 2.39592E-37 | 5934 | RBL2 |
| -0.141314641 | 2.3548E-37 | 59348 | ZNF350 |
| -0.141362458 | 2.2263E-37 | 10811 | NOXA1 |
| -0.141405001 | 2.11788E-37 | 4793 | NFKBIB |
| -0.141417533 | 2.08696E-37 | 3137 | HLA-J |
| -0.141484678 | 1.92872E-37 | 158572 | LOC158572 |
| -0.141523957 | 1.84176E-37 | 79797 | ZNF408 |
| -0.141541421 | 1.80434E-37 | 644037 | HNRNPA1P12 |

| region-wise, subcortex | | | | | |
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| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.190218791 | 0.265380949 | 0.297 | 1 | 9860 | LRIG2 |
| -0.190218791 | 0.265380949 | 0.297 | 1 | 9940 | DLEC1 |
| -0.190218791 | 0.265380949 | 0.299 | 1 | 220729 | AC024560.3 |
| -0.190218791 | 0.265380949 | 0.299 | 1 | 339175 | METTL2A |
| -0.190218791 | 0.265380949 | 0.327 | 1 | 653269 | POTEI |
| -0.190476179 | 0.264725506 | 0.3 | 1 | 3597 | IL13RA1 |
| -0.190476179 | 0.264725506 | 0.292 | 1 | 9658 | ZNF516 |
| -0.190476179 | 0.264725506 | 0.306 | 1 | 23451 | SF3B1 |
| -0.190476179 | 0.264725506 | 0.303 | 1 | 25853 | WDR40A |
| -0.190476179 | 0.264725506 | 0.298 | 1 | 26246 | OR2L2 |
| -0.190476179 | 0.264725506 | 0.302 | 1 | 30851 | TAX1BP3 |
| -0.190476179 | 0.264725506 | 0.308 | 1 | 54868 | TMEM104 |
| -0.190476179 | 0.264725506 | 0.319 | 1 | 56953 | NT5M |
| -0.190733582 | 0.264070719 | 0.288 | 1 | 860 | RUNX2 |
| -0.190733582 | 0.264070719 | 0.303 | 1 | 4298 | MLLT1 |
| -0.190733582 | 0.264070719 | 0.282 | 1 | 9025 | RNF8 |
| -0.190733582 | 0.264070719 | 0.296 | 1 | 50619 | DEF6 |
| -0.190990984 | 0.263417393 | 0.323 | 1 | 1145 | CHRNE |
| -0.190990984 | 0.263417393 | 0.311 | 1 | 6480 | ST6GAL1 |
| -0.190990984 | 0.263417393 | 0.301 | 1 | 6538 | SLC6A11 |
| -0.190990984 | 0.263417393 | 0.327 | 1 | 7458 | EIF4H |
| -0.190990984 | 0.263417393 | 0.287 | 1 | 7869 | SEMA3B |
| -0.190990984 | 0.263417393 | 0.303 | 1 | 10089 | KCNK7 |
| -0.190990984 | 0.263417393 | 0.308 | 1 | 23315 | SLC9A8 |
| -0.190990984 | 0.263417393 | 0.304 | 1 | 27238 | GPKOW |
| -0.190990984 | 0.263417393 | 0.307 | 1 | 51161 | C3orf18 |
| -0.190990984 | 0.263417393 | 0.288 | 1 | 64172 | OSGEPL1 |
| -0.190990984 | 0.263417393 | 0.299 | 1 | 84645 | C22orf23 |
| -0.190990984 | 0.263417393 | 0.315 | 1 | 147184 | TMEM99 |
| -0.190990984 | 0.263417393 | 0.298 | 1 | 284391 | ZNF844 |
| -0.191248387 | 0.26276508 | 0.305 | 1 | 4702 | NDUFA8 |
| -0.191248387 | 0.26276508 | 0.276 | 1 | 7171 | TPM4 |
| -0.191248387 | 0.26276508 | 0.299 | 1 | 7200 | TRH |
| -0.191248387 | 0.26276508 | 0.307 | 1 | 27201 | GPR78 |
| -0.191248387 | 0.26276508 | 0.296 | 1 | 51564 | HDAC7 |
| -0.191248387 | 0.26276508 | 0.326 | 1 | 57561 | ARRDC3 |
| -0.191248387 | 0.26276508 | 0.3 | 1 | 64771 | C6orf106 |
| -0.191248387 | 0.26276508 | 0.31 | 1 | 79591 | C10orf76 |
| -0.191248387 | 0.26276508 | 0.318 | 1 | 89797 | NAV2 |
| -0.191248387 | 0.26276508 | 0.314 | 1 | 114327 | EFHC1 |
| -0.191248387 | 0.26276508 | 0.299 | 1 | 390072 | OR52N4 |
| -0.19150579 | 0.262113869 | 0.308 | 1 | 5010 | CLDN11 |
| -0.19150579 | 0.262113869 | 0.276 | 1 | 8290 | HIST3H3 |
| -0.19150579 | 0.262113869 | 0.311 | 1 | 23213 | SULF1 |
| -0.19150579 | 0.262113869 | 0.3 | 1 | 65979 | PHACTR4 |
| -0.19150579 | 0.262113869 | 0.304 | 1 | 140803 | TRPM6 |
| -0.191763178 | 0.261463493 | 0.267 | 1 | 3137 | HLA-J |
| -0.191763178 | 0.261463493 | 0.289 | 1 | 7576 | ZNF28 |
| -0.191763178 | 0.261463493 | 0.308 | 1 | 8738 | CRADD |
| -0.191763178 | 0.261463493 | 0.304 | 1 | 10181 | RBM5 |
| -0.191763178 | 0.261463493 | 0.283 | 1 | 10425 | ARIH2 |
| -0.191763178 | 0.261463493 | 0.317 | 1 | 57222 | ERGIC1 |
| -0.191763178 | 0.261463493 | 0.313 | 1 | 91894 | C11orf52 |
| -0.191763178 | 0.261463493 | 0.287 | 1 | 93643 | TJAP1 |
| -0.191763178 | 0.261463493 | 0.31 | 1 | 283953 | TMEM114 |
| -0.19202058 | 0.260814458 | 0.29 | 1 | 5082 | PDCL |
| -0.19202058 | 0.260814458 | 0.292 | 1 | 8642 | DCHS1 |
| -0.19202058 | 0.260814458 | 0.289 | 1 | 25764 | HYPK |
| -0.19202058 | 0.260814458 | 0.324 | 1 | 29763 | PACSIN3 |
| -0.19202058 | 0.260814458 | 0.291 | 1 | 84971 | ATG4D |
| -0.19202058 | 0.260814458 | 0.296 | 1 | 144347 | FAM101A |
| -0.19202058 | 0.260814458 | 0.304 | 1 | 389400 | GFRAL |
| -0.192277983 | 0.260166466 | 0.292 | 1 | 84142 | FAM175A |
| -0.192277983 | 0.260166466 | 0.313 | 1 | 387644 | LINC00202 |
| -0.192277983 | 0.260166466 | 0.292 | 1 | 440061 | TRIM64EP |
| -0.192277983 | 0.260166466 | 0.31 | 1 | 554202 | MIR31HG |
| -0.1925354 | 0.259519547 | 0.3 | 1 | 7027 | TFDP1 |
| -0.1925354 | 0.259519547 | 0.296 | 1 | 7597 | ZBTB25 |
| -0.1925354 | 0.259519547 | 0.291 | 1 | 10667 | FARS2 |
| -0.1925354 | 0.259519547 | 0.295 | 1 | 25780 | RASGRP3 |
| -0.1925354 | 0.259519547 | 0.316 | 1 | 54973 | CPSF3L |
| -0.1925354 | 0.259519547 | 0.288 | 1 | 93134 | ZNF561 |
| -0.192792803 | 0.258873492 | 0.288 | 1 | 105 | ADARB2 |
| -0.192792803 | 0.258873492 | 0.256 | 1 | 1477 | CSTF1 |
| -0.192792803 | 0.258873492 | 0.302 | 1 | 2631 | GBAS |
| -0.192792803 | 0.258873492 | 0.326 | 1 | 9270 | ITGB1BP1 |
| -0.192792803 | 0.258873492 | 0.282 | 1 | 9381 | OTOF |
| -0.192792803 | 0.258873492 | 0.271 | 1 | 56616 | DIABLO |
| -0.192792803 | 0.258873492 | 0.276 | 1 | 64077 | LHPP |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.141573176 | 1.73826E-37 | 28231 | SLCO4A1 |
| -0.141594172 | 1.6959E-37 | 5095 | PCCA |
| -0.141605869 | 1.67273E-37 | 284648 | LOC284648 |
| -0.141631126 | 1.62377E-37 | 10113 | PREB |
| -0.141836181 | 1.27567E-37 | 6572 | SLC18A3 |
| -0.141841844 | 1.26719E-37 | 100132356 | LOC100132356 |
| -0.141875833 | 1.21749E-37 | 284119 | PTRF |
| -0.141882792 | 1.20753E-37 | 23193 | GANAB |
| -0.141898215 | 1.18579E-37 | 3705 | ITPK1 |
| -0.141964704 | 1.09644E-37 | 3126 | HLA-DRB4 |
| -0.141976953 | 1.08071E-37 | 93653 | ST7-AS1 |
| -0.142004639 | 1.04601E-37 | 64764 | CREB3L2 |
| -0.142033234 | 1.01136E-37 | 55062 | WIPI1 |
| -0.142050698 | 9.90715E-38 | 1936 | EEF1D |
| -0.142120525 | 9.12392E-38 | 6714 | SRC |
| -0.142159164 | 8.71709E-38 | 23040 | MYT1L |
| -0.142214507 | 8.16579E-38 | 728407 | LOC728407 |
| -0.142220646 | 8.1069E-38 | 256987 | SERINC5 |
| -0.142239958 | 7.92394E-38 | 51012 | SLMO2 |
| -0.142281935 | 7.54076E-38 | 55421 | C17orf85 |
| -0.142316759 | 7.23678E-38 | 6927 | HNF1A |
| -0.142323717 | 7.17749E-38 | 23642 | SNHG1 |
| -0.142454013 | 6.15282E-38 | 11279 | KLF8 |
| -0.142505735 | 5.78757E-38 | 9365 | KL |
| -0.142598599 | 5.18512E-38 | 137872 | ADHFE1 |
| -0.142599538 | 5.17943E-38 | 85366 | MYLK2 |
| -0.142606318 | 5.13798E-38 | 647030 | LOC647030 |
| -0.142645687 | 4.90385E-38 | 3382 | ICA1 |
| -0.142652377 | 4.86521E-38 | 89887 | ZNF628 |
| -0.142676234 | 4.72966E-38 | 5956 | OPN1LW |
| -0.142883241 | 3.70033E-38 | 9778 | KIAA0232 |
| -0.142895028 | 3.64892E-38 | 51093 | C1orf66 |
| -0.142927438 | 3.51128E-38 | 6160 | RPL31 |
| -0.142944247 | 3.44189E-38 | 80323 | CCDC68 |
| -0.143066093 | 2.97822E-38 | 221458 | KIF6 |
| -0.143090889 | 2.89175E-38 | 29954 | POMT2 |
| -0.143112332 | 2.81899E-38 | 7965 | AIMP2 |
| -0.143150687 | 2.69335E-38 | 10052 | GJC1 |
| -0.143359542 | 2.10078E-38 | 80162 | ATHL1 |
| -0.143369108 | 2.07696E-38 | 10153 | CEBPZ |
| -0.143383607 | 2.04146E-38 | 5597 | MAPK6 |
| -0.14353469 | 1.70519E-38 | 619279 | ZNF704 |
| -0.143557638 | 1.65914E-38 | 23113 | CUL9 |
| -0.143565714 | 1.64325E-38 | 50848 | F11R |
| -0.1435671 | 1.64052E-38 | 977 | CD151 |
| -0.143599138 | 1.57903E-38 | 80829 | ZFP91 |
| -0.143619195 | 1.54171E-38 | 100130264 | RP5-1027G4.3 |
| -0.143635169 | 1.51262E-38 | 4041 | LRP5 |
| -0.143649474 | 1.48702E-38 | 8613 | PPAP2B |
| -0.143664896 | 1.45991E-38 | 6092 | ROBO2 |
| -0.143680215 | 1.43347E-38 | 92399 | MRRF |
| -0.143720701 | 1.36584E-38 | 9808 | KIAA0087 |
| -0.143786266 | 1.26303E-38 | 6137 | RPL13 |
| -0.143817008 | 1.21747E-38 | 57185 | NIPAL3 |
| -0.143872917 | 1.13881E-38 | 79692 | ZNF322 |
| -0.143904209 | 1.09701E-38 | 255967 | PAN3 |
| -0.143956497 | 1.03055E-38 | 2549 | GAB1 |
| -0.143966898 | 1.0178E-38 | 91353 | IGLL3P |
| -0.143997163 | 9.81621E-39 | 9356 | SLC22A6 |
| -0.144018903 | 9.56422E-39 | 8079 | MLF2 |
| -0.144035801 | 9.37283E-39 | 83607 | AMMECR1L |
| -0.144136086 | 8.31274E-39 | 57514 | CDGAP |
| -0.14422366 | 7.48499E-39 | 5150 | PDE7A |
| -0.144248083 | 7.26929E-39 | 10755 | GIPC1 |
| -0.144258022 | 7.1832E-39 | 124411 | ZNF720 |
| -0.144286066 | 6.94588E-39 | 441519 | CT45A3 |
| -0.144299358 | 6.83606E-39 | 55727 | BTBD7 |
| -0.144301489 | 6.81853E-39 | 23210 | JMJD6 |
| -0.144318104 | 6.6841E-39 | 5799 | PTPRN2 |
| -0.144353673 | 6.40512E-39 | 286451 | YIPF6 |
| -0.144371226 | 6.27161E-39 | 9475 | ROCK2 |
| -0.144385159 | 6.16778E-39 | 79602 | ADIPOR2 |
| -0.144404754 | 6.02441E-39 | 1463 | NCAN |
| -0.144423693 | 5.88912E-39 | 54039 | PCBP3 |
| -0.144465297 | 5.60239E-39 | 22850 | ADNP2 |
| -0.144479886 | 5.5052E-39 | 11244 | ZHX1 |
| -0.144511089 | 5.30279E-39 | 79888 | LPCAT1 |
| -0.144567177 | 4.9574E-39 | 51652 | VPS24 |
| -0.14456746 | 4.95571E-39 | 79723 | SUV39H2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.192792803 | 0.258873492 | 0.272 | 1 | 389084 | C2orf82 |
| -0.192792803 | 0.258873492 | 0.308 | 1 | 730094 | C16ORF52 |
| -0.193050191 | 0.258228749 | 0.302 | 1 | 2645 | GCK |
| -0.193050191 | 0.258228749 | 0.297 | 1 | 5424 | POLD1 |
| -0.193050191 | 0.258228749 | 0.298 | 1 | 10509 | SEMA4B |
| -0.193050191 | 0.258228749 | 0.317 | 1 | 27347 | STK39 |
| -0.193050191 | 0.258228749 | 0.284 | 1 | 27351 | PPPDE2 |
| -0.193050191 | 0.258228749 | 0.314 | 1 | 54765 | TRIM44 |
| -0.193050191 | 0.258228749 | 0.269 | 1 | 55051 | C14orf102 |
| -0.193050191 | 0.258228749 | 0.299 | 1 | 116844 | LRG1 |
| -0.193050191 | 0.258228749 | 0.3 | 1 | 118663 | BTBD16 |
| -0.193050191 | 0.258228749 | 0.291 | 1 | 283116 | AC084851.1 |
| -0.193307593 | 0.257585108 | 0.308 | 1 | 1180 | CLCN1 |
| -0.193307593 | 0.257585108 | 0.291 | 1 | 4241 | MFI2 |
| -0.193307593 | 0.257585108 | 0.309 | 1 | 5638 | PRRG1 |
| -0.193307593 | 0.257585108 | 0.312 | 1 | 25912 | C1orf43 |
| -0.193307593 | 0.257585108 | 0.306 | 1 | 55167 | MSL2 |
| -0.193307593 | 0.257585108 | 0.295 | 1 | 55503 | TRPV6 |
| -0.193307593 | 0.257585108 | 0.287 | 1 | 64940 | STAG3L4 |
| -0.193307593 | 0.257585108 | 0.318 | 1 | 150223 | YDJC |
| -0.193307593 | 0.257585108 | 0.298 | 1 | 205251 | LINC00116 |
| -0.193307593 | 0.257585108 | 0.303 | 1 | 222389 | BEND7 |
| -0.193564996 | 0.256942511 | 0.269 | 1 | 6566 | SLC16A1 |
| -0.193564996 | 0.256942511 | 0.281 | 1 | 6698 | SPRR1A |
| -0.193564996 | 0.256942511 | 0.304 | 1 | 8082 | SSPN |
| -0.193564996 | 0.256942511 | 0.278 | 1 | 55749 | CCAR1 |
| -0.193564996 | 0.256942511 | 0.304 | 1 | 57704 | GBA2 |
| -0.193564996 | 0.256942511 | 0.293 | 1 | 100134229 | LOC100134229 |
| -0.193822399 | 0.256300986 | 0.31 | 1 | 1376 | CPT2 |
| -0.193822399 | 0.256300986 | 0.297 | 1 | 3148 | HMGB2 |
| -0.193822399 | 0.256300986 | 0.291 | 1 | 5305 | PIP5K2A |
| -0.193822399 | 0.256300986 | 0.314 | 1 | 57732 | ZFYVE28 |
| -0.193822399 | 0.256300986 | 0.31 | 1 | 440934 | AC010980.2 |
| -0.194079801 | 0.255660295 | 0.276 | 1 | 4146 | MATN1 |
| -0.194079801 | 0.255660295 | 0.293 | 1 | 22981 | NINL |
| -0.194079801 | 0.255660295 | 0.305 | 1 | 29916 | SNX11 |
| -0.194079801 | 0.255660295 | 0.323 | 1 | 388389 | CCDC103 |
| -0.194337189 | 0.255020976 | 0.283 | 1 | 4708 | NDUFB2 |
| -0.194337189 | 0.255020976 | 0.309 | 1 | 79100 | RP1-10C16.2 |
| -0.194337189 | 0.255020976 | 0.289 | 1 | 84946 | LTV1 |
| -0.194337189 | 0.255020976 | 0.289 | 1 | 123879 | DCUN1D3 |
| -0.194594592 | 0.25438267 | 0.307 | 1 | 8521 | GCM1 |
| -0.194594592 | 0.25438267 | 0.281 | 1 | 23140 | ZZEF1 |
| -0.194594592 | 0.25438267 | 0.311 | 1 | 26696 | OR2T1 |
| -0.194594592 | 0.25438267 | 0.297 | 1 | 55695 | NSUN5 |
| -0.194594592 | 0.25438267 | 0.303 | 1 | 80317 | ZKSCAN3 |
| -0.194594592 | 0.25438267 | 0.334 | 1 | 84872 | ZC3H10 |
| -0.194594592 | 0.25438267 | 0.298 | 1 | 94240 | EPSTI1 |
| -0.194594592 | 0.25438267 | 0.304 | 1 | 150356 | CHADL |
| -0.194851995 | 0.253745437 | 0.299 | 1 | 20 | ABCA2 |
| -0.194851995 | 0.253745437 | 0.299 | 1 | 916 | CD3E |
| -0.194851995 | 0.253745437 | 0.289 | 1 | 10281 | DSCR4 |
| -0.194851995 | 0.253745437 | 0.278 | 1 | 11011 | TLK2 |
| -0.194851995 | 0.253745437 | 0.3 | 1 | 26133 | TRPC4AP |
| -0.194851995 | 0.253745437 | 0.267 | 1 | 85025 | TMEM60 |
| -0.194851995 | 0.253745437 | 0.288 | 1 | 284365 | AC010325.3 |
| -0.194851995 | 0.253745437 | 0.291 | 1 | 388323 | GLTPD2 |
| -0.194851995 | 0.253745437 | 0.262 | 1 | 100506144 | RP11-244H3.1 |
| -0.195109397 | 0.253109038 | 0.301 | 1 | 10284 | SAP18 |
| -0.195109397 | 0.253109038 | 0.291 | 1 | 204851 | HIPK1 |
| -0.195109397 | 0.253109038 | 0.306 | 1 | 399694 | SHC4 |
| -0.1953668 | 0.25247401 | 0.297 | 1 | 833 | CARS |
| -0.1953668 | 0.25247401 | 0.291 | 1 | 952 | CD38 |
| -0.1953668 | 0.25247401 | 0.273 | 1 | 8341 | HIST1H2BN |
| -0.1953668 | 0.25247401 | 0.273 | 1 | 56957 | OTUD7B |
| -0.1953668 | 0.25247401 | 0.297 | 1 | 63035 | BCORL1 |
| -0.195624188 | 0.251840025 | 0.292 | 1 | 2920 | CXCL2 |
| -0.195624188 | 0.251840025 | 0.295 | 1 | 5253 | PHF2 |
| -0.195624188 | 0.251840025 | 0.289 | 1 | 9907 | AP5Z1 |
| -0.195624188 | 0.251840025 | 0.296 | 1 | 54814 | QPCTL |
| -0.195624188 | 0.251840025 | 0.286 | 1 | 54882 | ANKHD1 |
| -0.195624188 | 0.251840025 | 0.275 | 1 | 84230 | LRRC8C |
| -0.195624188 | 0.251840025 | 0.306 | 1 | 221476 | PI16 |
| -0.195624188 | 0.251840025 | 0.295 | 1 | 643253 | CCT6P1 |
| -0.19588159 | 0.251207113 | 0.283 | 1 | 6775 | STAT4 |
| -0.19588159 | 0.251207113 | 0.285 | 1 | 8537 | BCAS1 |
| -0.19588159 | 0.251207113 | 0.265 | 1 | 80095 | ZNF606 |
| -0.19588159 | 0.251207113 | 0.293 | 1 | 81488 | GRINL1A |
| -0.196138993 | 0.250574976 | 0.307 | 1 | 3293 | HSD17B3 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.144582868 | 4.865E-39 | 53944 | CSNK1G1 |
| -0.144619927 | 4.65307E-39 | 9445 | ITM2B |
| -0.14469932 | 4.22968E-39 | 54558 | SPATA6 |
| -0.144699976 | 4.22628E-39 | 57531 | HACE1 |
| -0.144712701 | 4.16216E-39 | 863 | CBFA2T3 |
| -0.144729778 | 4.07764E-39 | 2921 | CXCL3 |
| -0.144756436 | 3.94898E-39 | 51542 | VPS54 |
| -0.144764975 | 3.90867E-39 | 6300 | MAPK12 |
| -0.144766554 | 3.90124E-39 | 9051 | PSTPIP1 |
| -0.144771114 | 3.87987E-39 | 29984 | RHOD |
| -0.144812897 | 3.68969E-39 | 79971 | GPR177 |
| -0.144827753 | 3.62431E-39 | 25841 | ABTB2 |
| -0.144840568 | 3.56882E-39 | 163050 | ZNF564 |
| -0.144882828 | 3.3919E-39 | 397 | ARHGDIB |
| -0.144883379 | 3.38961E-39 | 113791 | PIK3IP1 |
| -0.145013019 | 2.89974E-39 | 5349 | FXYD3 |
| -0.145024076 | 2.86136E-39 | 10293 | TRAIP |
| -0.145039961 | 2.80713E-39 | 30968 | STOML2 |
| -0.145067543 | 2.71534E-39 | 84809 | CROCCP2 |
| -0.145081848 | 2.66895E-39 | 7482 | WNT2B |
| -0.145104125 | 2.59821E-39 | 64834 | ELOVL1 |
| -0.145147964 | 2.46445E-39 | 80022 | MYO15B |
| -0.145153716 | 2.44742E-39 | 58526 | MID1IP1 |
| -0.145160317 | 2.42799E-39 | 23 | ABCF1 |
| -0.145191237 | 2.33911E-39 | 64172 | OSGEPL1 |
| -0.145212412 | 2.28012E-39 | 56922 | MCCC1 |
| -0.145254388 | 2.16755E-39 | 57215 | THAP11 |
| -0.14535208 | 1.92641E-39 | 55914 | ERBB2IP |
| -0.145360619 | 1.90661E-39 | 976 | CD97 |
| -0.145361185 | 1.90536E-39 | 2262 | GPC5 |
| -0.145366758 | 1.89254E-39 | 89797 | NAV2 |
| -0.145385042 | 1.85121E-39 | 8850 | KAT2B |
| -0.145418659 | 1.77753E-39 | 5348 | FXYD1 |
| -0.145471692 | 1.6672E-39 | 348 | APOE |
| -0.145502806 | 1.60564E-39 | 114932 | MRFAP1L1 |
| -0.145540878 | 1.53342E-39 | 115123 | MARCHF3 |
| -0.145540968 | 1.53324E-39 | 4643 | MYO1E |
| -0.145545155 | 1.52552E-39 | 114899 | C1QTNF3 |
| -0.145567626 | 1.48462E-39 | 9765 | ZFYVE16 |
| -0.145567894 | 1.48412E-39 | 9757 | AD000671.1 |
| -0.14557673 | 1.46833E-39 | 4839 | NOP2 |
| -0.145590276 | 1.44448E-39 | 100287852 | LOC100287852 |
| -0.145632356 | 1.37277E-39 | 55037 | PTCD3 |
| -0.14565213 | 1.34033E-39 | 84859 | LRCH3 |
| -0.145758092 | 1.17896E-39 | 80312 | TET1 |
| -0.145823374 | 1.08932E-39 | 79068 | FTO |
| -0.145864055 | 1.03691E-39 | 6376 | CX3CL1 |
| -0.145901382 | 9.9104E-40 | 57447 | NDRG2 |
| -0.145932123 | 9.54783E-40 | 55325 | UFSP2 |
| -0.146007523 | 8.7133E-40 | 84081 | CCDC55 |
| -0.146029726 | 8.48172E-40 | 55250 | ELP2 |
| -0.146045789 | 8.31794E-40 | 301 | ANXA1 |
| -0.146051273 | 8.26284E-40 | 643438 | LOC643438 |
| -0.146061212 | 8.16388E-40 | 51537 | MTP18 |
| -0.146092966 | 7.85506E-40 | 51201 | ZDHHC2 |
| -0.146105692 | 7.73478E-40 | 51604 | PIGT |
| -0.146135494 | 7.45992E-40 | 23492 | CBX7 |
| -0.146137446 | 7.4421E-40 | 63982 | ANO3 |
| -0.146154627 | 7.28838E-40 | 158427 | C9orf97 |
| -0.14616558 | 7.19216E-40 | 91120 | ZNF682 |
| -0.146184072 | 7.03239E-40 | 23478 | SEC11B |
| -0.146214902 | 6.77385E-40 | 11240 | PADI2 |
| -0.146229103 | 6.65799E-40 | 146712 | B3GNTL1 |
| -0.146246105 | 6.52181E-40 | 342574 | KRT27 |
| -0.146261513 | 6.40085E-40 | 23313 | C22orf9 |
| -0.146279529 | 6.26223E-40 | 2592 | GALT |
| -0.14636144 | 5.6685E-40 | 23766 | GABARAPL3 |
| -0.146404251 | 5.38087E-40 | 84288 | EFCAB2 |
| -0.146423563 | 5.25599E-40 | 5617 | PRL |
| -0.146435365 | 5.18099E-40 | 6631 | SNRPC |
| -0.146449387 | 5.0933E-40 | 7541 | ZFP161 |
| -0.146475568 | 4.93358E-40 | 53828 | FXYD4 |
| -0.146488667 | 4.8555E-40 | 11046 | SLC35D2 |
| -0.146517172 | 4.68992E-40 | 11039 | SMA4 |
| -0.146576047 | 4.36538E-40 | 11066 | SNRNP35 |
| -0.146621555 | 4.12993E-40 | 27013 | C2orf24 |
| -0.146643102 | 4.02285E-40 | 57477 | SHROOM4 |
| -0.146654338 | 3.9682E-40 | 146429 | SLC22A31 |
| -0.146706536 | 3.72359E-40 | 388550 | CEACAM22P |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.196138993 | 0.250574976 | 0.269 | 1 | 6242 | RTKN |
| -0.196138993 | 0.250574976 | 0.277 | 1 | 23604 | DAPK2 |
| -0.196138993 | 0.250574976 | 0.282 | 1 | 25870 | SUMF2 |
| -0.196138993 | 0.250574976 | 0.287 | 1 | 60678 | EEFSEC |
| -0.196138993 | 0.250574976 | 0.296 | 1 | 91012 | LASS5 |
| -0.196138993 | 0.250574976 | 0.26 | 1 | 124790 | HEXIM2 |
| -0.196138993 | 0.250574976 | 0.303 | 1 | 196740 | C10orf72 |
| -0.196138993 | 0.250574976 | 0.286 | 1 | 642513 | LOC642513 |
| -0.196396396 | 0.24994421 | 0.269 | 1 | 1655 | DDX5 |
| -0.196396396 | 0.24994421 | 0.282 | 1 | 22834 | ZNF652 |
| -0.196396396 | 0.24994421 | 0.321 | 1 | 284312 | ZSCAN1 |
| -0.196396396 | 0.24994421 | 0.277 | 1 | 388336 | AC007510.1 |
| -0.196653798 | 0.249314591 | 0.286 | 1 | 1410 | CRYAB |
| -0.196653798 | 0.249314591 | 0.26 | 1 | 5906 | RAP1A |
| -0.196653798 | 0.249314591 | 0.303 | 1 | 51302 | CYP39A1 |
| -0.196653798 | 0.249314591 | 0.282 | 1 | 51317 | PHF21A |
| -0.196653798 | 0.249314591 | 0.269 | 1 | 54205 | CYCS |
| -0.196653798 | 0.249314591 | 0.277 | 1 | 55316 | RSAD1 |
| -0.196653798 | 0.249314591 | 0.27 | 1 | 64434 | NOM1 |
| -0.196653798 | 0.249314591 | 0.295 | 1 | 260341 | TFAMP1 |
| -0.196653798 | 0.249314591 | 0.29 | 1 | 389337 | AC022100.1 |
| -0.196911186 | 0.248685941 | 0.295 | 1 | 1499 | CTNNB1 |
| -0.196911186 | 0.248685941 | 0.296 | 1 | 4521 | NUDT1 |
| -0.196911186 | 0.248685941 | 0.292 | 1 | 6496 | SIX3 |
| -0.196911186 | 0.248685941 | 0.263 | 1 | 10826 | C5orf4 |
| -0.196911186 | 0.248685941 | 0.278 | 1 | 10881 | ACTL7A |
| -0.196911186 | 0.248685941 | 0.294 | 1 | 23512 | SUZ12 |
| -0.196911186 | 0.248685941 | 0.297 | 1 | 56164 | STK31 |
| -0.196911186 | 0.248685941 | 0.284 | 1 | 100130933 | C17ORF110 |
| -0.197168589 | 0.248058408 | 0.277 | 1 | 2058 | EPRS |
| -0.197168589 | 0.248058408 | 0.271 | 1 | 3915 | LAMC1 |
| -0.197168589 | 0.248058408 | 0.267 | 1 | 7174 | TPP2 |
| -0.197168589 | 0.248058408 | 0.296 | 1 | 55623 | THUMPD1 |
| -0.197168589 | 0.248058408 | 0.319 | 1 | 55861 | DBNDD2 |
| -0.197168589 | 0.248058408 | 0.296 | 1 | 79602 | ADIPOR2 |
| -0.197168589 | 0.248058408 | 0.288 | 1 | 399744 | LOC399744 |
| -0.197168589 | 0.248058408 | 0.294 | 1 | 644135 | RP13-143G15.3 |
| -0.197425991 | 0.247431636 | 0.283 | 1 | 4299 | AFF1 |
| -0.197425991 | 0.247431636 | 0.28 | 1 | 4520 | MTF1 |
| -0.197425991 | 0.247431636 | 0.285 | 1 | 4782 | NFIC |
| -0.197425991 | 0.247431636 | 0.301 | 1 | 6373 | CXCL11 |
| -0.197425991 | 0.247431636 | 0.275 | 1 | 10749 | KIF1C |
| -0.197425991 | 0.247431636 | 0.289 | 1 | 10780 | ZNF234 |
| -0.197425991 | 0.247431636 | 0.287 | 1 | 79844 | ZDHHC11 |
| -0.197683394 | 0.246806219 | 0.279 | 1 | 7013 | TERF1 |
| -0.197683394 | 0.246806219 | 0.257 | 1 | 9625 | AATK |
| -0.197683394 | 0.246806219 | 0.284 | 1 | 22909 | MTMR15 |
| -0.197683394 | 0.246806219 | 0.273 | 1 | 54149 | C21orf91 |
| -0.197683394 | 0.246806219 | 0.295 | 1 | 87769 | A2LD1 |
| -0.197940797 | 0.24618195 | 0.307 | 1 | 2033 | EP300 |
| -0.197940797 | 0.24618195 | 0.296 | 1 | 4144 | MAT2A |
| -0.197940797 | 0.24618195 | 0.282 | 1 | 5814 | PURB |
| -0.197940797 | 0.24618195 | 0.269 | 1 | 79628 | SH3TC2 |
| -0.197940797 | 0.24618195 | 0.294 | 1 | 85235 | HIST1H2AH |
| -0.197940797 | 0.24618195 | 0.299 | 1 | 374907 | B3GNT8 |
| -0.198198184 | 0.245558679 | 0.278 | 1 | 4303 | FOXO4 |
| -0.198198184 | 0.245558679 | 0.298 | 1 | 6591 | SNAI2 |
| -0.198198184 | 0.245558679 | 0.294 | 1 | 9121 | SLC16A5 |
| -0.198198184 | 0.245558679 | 0.276 | 1 | 23120 | ATP10B |
| -0.198198184 | 0.245558679 | 0.284 | 1 | 51567 | TTRAP |
| -0.198198184 | 0.245558679 | 0.28 | 1 | 94031 | HTRA3 |
| -0.198198184 | 0.245558679 | 0.285 | 1 | 122183 | PRR20 |
| -0.198198184 | 0.245558679 | 0.268 | 1 | 147015 | DHRS13 |
| -0.198198184 | 0.245558679 | 0.282 | 1 | 100132346 | LOC100132346 |
| -0.198455587 | 0.244936213 | 0.324 | 1 | 1902 | LPAR1 |
| -0.198455587 | 0.244936213 | 0.274 | 1 | 2524 | FUT2 |
| -0.198455587 | 0.244936213 | 0.288 | 1 | 5030 | P2RY4 |
| -0.198455587 | 0.244936213 | 0.28 | 1 | 7596 | ZNF45 |
| -0.198455587 | 0.244936213 | 0.289 | 1 | 22993 | HMGXB3 |
| -0.198455587 | 0.244936213 | 0.282 | 1 | 51228 | GLTP |
| -0.198455587 | 0.244936213 | 0.272 | 1 | 51292 | GMPR2 |
| -0.198455587 | 0.244936213 | 0.268 | 1 | 57404 | CYP20A1 |
| -0.198455587 | 0.244936213 | 0.274 | 1 | 79364 | ZXDC |
| -0.198455587 | 0.244936213 | 0.286 | 1 | 80155 | NARG1 |
| -0.198455587 | 0.244936213 | 0.312 | 1 | 92129 | RIPPLY1 |
| -0.198455587 | 0.244936213 | 0.262 | 1 | 113451 | ADC |
| -0.198455587 | 0.244936213 | 0.284 | 1 | 128218 | TMEM125 |
| -0.198455587 | 0.244936213 | 0.283 | 1 | 138864 | LOC138864 |
| -0.198455587 | 0.244936213 | 0.281 | 1 | 257044 | C1orf101 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.146710798 | 3.70425E-40 | 339290 | LOC339290 |
| -0.146715537 | 3.68295E-40 | 643394 | SPINK9 |
| -0.14677757 | 3.41454E-40 | 9913 | SUPT7L |
| -0.146785006 | 3.38374E-40 | 154007 | SNRNP48 |
| -0.146811187 | 3.27736E-40 | 7542 | ZFPL1 |
| -0.146817967 | 3.2504E-40 | 10066 | SCAMP2 |
| -0.146859288 | 3.09054E-40 | 8295 | TRRAP |
| -0.146887526 | 2.98583E-40 | 7639 | ZNF85 |
| -0.146934047 | 2.82093E-40 | 6222 | RPS18 |
| -0.146940276 | 2.79957E-40 | 3856 | KRT8P9 |
| -0.146951139 | 2.76269E-40 | 84701 | COX4I2 |
| -0.146977425 | 2.67536E-40 | 114907 | FBXO32 |
| -0.146997944 | 2.60913E-40 | 25976 | TIPARP |
| -0.147022933 | 2.53066E-40 | 6374 | CXCL5 |
| -0.14703685 | 2.48801E-40 | 80336 | PABPC1L |
| -0.147162601 | 2.13339E-40 | 125144 | C17orf45 |
| -0.147278026 | 1.8524E-40 | 23548 | TTC33 |
| -0.147295028 | 1.81423E-40 | 145389 | SLC38A6 |
| -0.147401541 | 1.59238E-40 | 2346 | FOLH1 |
| -0.147414446 | 1.56738E-40 | 84125 | LRRIQ1 |
| -0.147432283 | 1.53352E-40 | 8412 | BCAR3 |
| -0.14744927 | 1.50191E-40 | 4116 | MAGOH |
| -0.147512332 | 1.39014E-40 | 6560 | SLC12A4 |
| -0.147531092 | 1.35859E-40 | 56648 | EIF5A2 |
| -0.147605568 | 1.23995E-40 | 729975 | AC018755.8 |
| -0.147606686 | 1.23824E-40 | 22839 | DLGAP4 |
| -0.147703812 | 1.09907E-40 | 54987 | C1orf123 |
| -0.14773047 | 1.0637E-40 | 1565 | CYP2D6 |
| -0.14775981 | 1.02606E-40 | 79818 | AC010645.1 |
| -0.147812471 | 9.61795E-41 | 54757 | FAM20A |
| -0.147835404 | 9.35058E-41 | 202559 | KHDRBS2 |
| -0.147845432 | 9.23568E-41 | 10404 | AP003117.1 |
| -0.147849426 | 9.19056E-41 | 788 | SLC25A20 |
| -0.147855192 | 9.12582E-41 | 29925 | GMPPB |
| -0.147912398 | 8.50588E-41 | 51228 | GLTP |
| -0.147921771 | 8.40835E-41 | 6558 | SLC12A2 |
| -0.147955298 | 8.06896E-41 | 221481 | C6orf81 |
| -0.148006007 | 7.58102E-41 | 64397 | ZFP106 |
| -0.148012042 | 7.52497E-41 | 11020 | RABL4 |
| -0.148015752 | 7.4905E-41 | 27164 | SALL3 |
| -0.148035347 | 7.31198E-41 | 92342 | C1orf156 |
| -0.148105189 | 6.7097E-41 | 9255 | AIMP1 |
| -0.148122638 | 6.56705E-41 | 90990 | KIFC2 |
| -0.148130447 | 6.50427E-41 | 64418 | TMEM168 |
| -0.148146972 | 6.37311E-41 | 84329 | HVCN1 |
| -0.148177803 | 6.13573E-41 | 6242 | RTKN |
| -0.148187935 | 6.05949E-41 | 54567 | DLL4 |
| -0.148215041 | 5.86051E-41 | 84532 | ACSS1 |
| -0.148217738 | 5.84117E-41 | 7102 | TSPAN7 |
| -0.148237616 | 5.69992E-41 | 55056 | FLJ10038 |
| -0.148256749 | 5.56708E-41 | 55690 | PACS1 |
| -0.14830029 | 5.27617E-41 | 79628 | SH3TC2 |
| -0.148339301 | 5.02842E-41 | 55183 | RIF1 |
| -0.148366049 | 4.86503E-41 | 6441 | SFTPD |
| -0.148388058 | 4.73471E-41 | 10600 | USP16 |
| -0.148393437 | 4.70332E-41 | 147727 | LOC147727 |
| -0.148420095 | 4.55142E-41 | 84851 | TRIM52 |
| -0.148455754 | 4.35524E-41 | 55776 | C6orf64 |
| -0.148512408 | 4.06096E-41 | 91607 | SLFN11 |
| -0.148557439 | 3.84124E-41 | 390213 | DOC2GP |
| -0.148575276 | 3.75772E-41 | 11177 | BAZ1A |
| -0.148577601 | 3.74707E-41 | 5281 | PIGF |
| -0.14857769 | 3.74651E-41 | 56246 | MRAP |
| -0.148617625 | 3.56602E-41 | 388523 | ZNF728 |
| -0.148617804 | 3.56546E-41 | 84967 | LSM10 |
| -0.148618549 | 3.5621E-41 | 387521 | TMEM189 |
| -0.14869684 | 3.23364E-41 | 333932 | HIST2H3A |
| -0.148714945 | 3.16189E-41 | 2902 | GRIN1 |
| -0.148820907 | 2.77345E-41 | 3337 | DNAJB1 |
| -0.148853868 | 2.66247E-41 | 2843 | GPR20 |
| -0.148871794 | 2.60417E-41 | 26027 | ACOT11 |
| -0.148877278 | 2.5868E-41 | 7572 | ZNF24 |
| -0.148930207 | 2.42256E-41 | 22802 | CLCA4 |
| -0.149016753 | 2.17622E-41 | 2905 | GRIN2C |
| -0.149023905 | 2.15688E-41 | 9538 | EI24 |
| -0.149028465 | 2.14483E-41 | 200403 | VWA3B |
| -0.149134785 | 1.87998E-41 | 128338 | DRAM2 |
| -0.149206489 | 1.72023E-41 | 84513 | PPAPDC1B |
| -0.149226457 | 1.67791E-41 | 642517 | BMS1P6 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.19871299 | 0.244315073 | 0.312 | 1 | 9509 | ADAMTS2 |
| -0.19871299 | 0.244315073 | 0.295 | 1 | 10349 | ABCA10 |
| -0.19871299 | 0.244315073 | 0.288 | 1 | 50859 | SPOCK3 |
| -0.19871299 | 0.244315073 | 0.273 | 1 | 54776 | LENG3 |
| -0.19871299 | 0.244315073 | 0.296 | 1 | 54861 | SNRK |
| -0.19871299 | 0.244315073 | 0.298 | 1 | 57691 | KIAA1586 |
| -0.198970392 | 0.243695021 | 0.271 | 1 | 8620 | NPFF |
| -0.198970392 | 0.243695021 | 0.285 | 1 | 9144 | SYNGR2 |
| -0.198970392 | 0.243695021 | 0.31 | 1 | 10420 | TESK2 |
| -0.198970392 | 0.243695021 | 0.295 | 1 | 23245 | ASTN2 |
| -0.198970392 | 0.243695021 | 0.271 | 1 | 51660 | BRP44L |
| -0.198970392 | 0.243695021 | 0.276 | 1 | 83692 | CD99L2 |
| -0.198970392 | 0.243695021 | 0.284 | 1 | 84266 | ALKBH7 |
| -0.198970392 | 0.243695021 | 0.278 | 1 | 255488 | RNF144B |
| -0.199227795 | 0.243076101 | 0.303 | 1 | 2297 | RP11-79P5.6 |
| -0.199227795 | 0.243076101 | 0.291 | 1 | 3038 | HAS3 |
| -0.199227795 | 0.243076101 | 0.278 | 1 | 5859 | QARS |
| -0.199227795 | 0.243076101 | 0.287 | 1 | 8819 | SAP30 |
| -0.199227795 | 0.243076101 | 0.267 | 1 | 11155 | LDB3 |
| -0.199227795 | 0.243076101 | 0.303 | 1 | 55658 | RNF126 |
| -0.199227795 | 0.243076101 | 0.288 | 1 | 280664 | WFDC10B |
| -0.199227795 | 0.243076101 | 0.279 | 1 | 284427 | SLC25A41 |
| -0.199227795 | 0.243076101 | 0.295 | 1 | 353274 | ZNF445 |
| -0.199227795 | 0.243076101 | 0.276 | 1 | 644538 | Z83826.4 |
| -0.199485198 | 0.242457896 | 0.269 | 1 | 6285 | S100B |
| -0.199485198 | 0.242457896 | 0.297 | 1 | 8736 | MYOM1 |
| -0.199485198 | 0.242457896 | 0.273 | 1 | 10196 | PRMT3 |
| -0.199485198 | 0.242457896 | 0.287 | 1 | 23114 | NFASC |
| -0.199485198 | 0.242457896 | 0.284 | 1 | 28966 | SNX24 |
| -0.199485198 | 0.242457896 | 0.304 | 1 | 80162 | ATHL1 |
| -0.199485198 | 0.242457896 | 0.292 | 1 | 80264 | ZNF430 |
| -0.199485198 | 0.242457896 | 0.276 | 1 | 81610 | FAM83D |
| -0.199485198 | 0.242457896 | 0.304 | 1 | 84893 | FBXO18 |
| -0.199485198 | 0.242457896 | 0.265 | 1 | 117196 | MRGPRX4 |
| -0.199485198 | 0.242457896 | 0.254 | 1 | 645644 | FLJ42627 |
| -0.1997426 | 0.241841048 | 0.268 | 1 | 4332 | MNDA |
| -0.1997426 | 0.241841048 | 0.298 | 1 | 8661 | EIF3A |
| -0.1997426 | 0.241841048 | 0.282 | 1 | 9670 | IPO13 |
| -0.1997426 | 0.241841048 | 0.294 | 1 | 10110 | SGK2 |
| -0.1997426 | 0.241841048 | 0.297 | 1 | 117283 | IP6K3 |
| -0.1997426 | 0.241841048 | 0.266 | 1 | 124599 | CD300LB |
| -0.200000003 | 0.241225272 | 0.293 | 1 | 1132 | CHRM4 |
| -0.200000003 | 0.241225272 | 0.281 | 1 | 7507 | XPA |
| -0.200000003 | 0.241225272 | 0.294 | 1 | 9341 | VAMP3 |
| -0.200000003 | 0.241225272 | 0.28 | 1 | 221496 | LEMD2 |
| -0.200257406 | 0.24061057 | 0.292 | 1 | 412 | STS |
| -0.200257406 | 0.24061057 | 0.278 | 1 | 4642 | MYO1D |
| -0.200257406 | 0.24061057 | 0.292 | 1 | 8625 | RFXANK |
| -0.200257406 | 0.24061057 | 0.303 | 1 | 8701 | DNAH11 |
| -0.200257406 | 0.24061057 | 0.29 | 1 | 23384 | CYTSA |
| -0.200257406 | 0.24061057 | 0.301 | 1 | 27086 | FOXP1 |
| -0.200257406 | 0.24061057 | 0.283 | 1 | 128312 | HIST3H2BB |
| -0.200257406 | 0.24061057 | 0.266 | 1 | 219965 | OR5B17 |
| -0.200257406 | 0.24061057 | 0.267 | 1 | 220108 | FAM124A |
| -0.200257406 | 0.24061057 | 0.276 | 1 | 347734 | SLC35B2 |
| -0.200514808 | 0.23999697 | 0.282 | 1 | 5162 | PDHB |
| -0.200514808 | 0.23999697 | 0.262 | 1 | 7248 | TSC1 |
| -0.200514808 | 0.23999697 | 0.274 | 1 | 9238 | TBRG4 |
| -0.200514808 | 0.23999697 | 0.296 | 1 | 26153 | KIF26A |
| -0.200514808 | 0.23999697 | 0.309 | 1 | 83461 | CDCA3 |
| -0.200514808 | 0.23999697 | 0.286 | 1 | 439949 | LOC439949 |
| -0.200514808 | 0.23999697 | 0.27 | 1 | 728957 | ZNF705C |
| -0.200772196 | 0.239384115 | 0.279 | 1 | 3337 | DNAJB1 |
| -0.200772196 | 0.239384115 | 0.268 | 1 | 6386 | SDCBP |
| -0.200772196 | 0.239384115 | 0.264 | 1 | 8398 | PLA2G6 |
| -0.200772196 | 0.239384115 | 0.291 | 1 | 9765 | ZFYVE16 |
| -0.200772196 | 0.239384115 | 0.268 | 1 | 126295 | ZNF57 |
| -0.200772196 | 0.239384115 | 0.291 | 1 | 148229 | ATP8B3 |
| -0.200772196 | 0.239384115 | 0.307 | 1 | 374768 | SPEM1 |
| -0.201029599 | 0.238772601 | 0.278 | 1 | 1234 | CCR5 |
| -0.201029599 | 0.238772601 | 0.288 | 1 | 25923 | ATL3 |
| -0.201029599 | 0.238772601 | 0.279 | 1 | 51700 | CYB5R2 |
| -0.201029599 | 0.238772601 | 0.276 | 1 | 64793 | CCDC21 |
| -0.201029599 | 0.238772601 | 0.267 | 1 | 83449 | PMFBP1 |
| -0.201287001 | 0.238162175 | 0.306 | 1 | 2634 | GBP2 |
| -0.201287001 | 0.238162175 | 0.278 | 1 | 3340 | NDST1 |
| -0.201287001 | 0.238162175 | 0.304 | 1 | 3769 | KCNJ13 |
| -0.201287001 | 0.238162175 | 0.287 | 1 | 8170 | SLC14A2 |
| -0.201287001 | 0.238162175 | 0.279 | 1 | 53407 | STX18 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.149234429 | 1.66138E-41 | 55844 | PPP2R2D |
| -0.149258211 | 1.61317E-41 | 1350 | COX7C |
| -0.149332508 | 1.4708E-41 | 1130 | LYST |
| -0.149338171 | 1.46071E-41 | 8552 | INE1 |
| -0.14934662 | 1.44558E-41 | 26528 | DAZAP1 |
| -0.149378479 | 1.38953E-41 | 8994 | LIMD1 |
| -0.149414033 | 1.32927E-41 | 148645 | LINC00337 |
| -0.149416268 | 1.32563E-41 | 586 | BCAT1 |
| -0.14941971 | 1.32002E-41 | 8028 | MLLT10 |
| -0.149420083 | 1.31946E-41 | 1327 | COX4I1 |
| -0.149422213 | 1.31582E-41 | 286140 | RNF5P1 |
| -0.149427593 | 1.30713E-41 | 113655 | MFSD3 |
| -0.149483874 | 1.21885E-41 | 9341 | VAMP3 |
| -0.149502724 | 1.19054E-41 | 3783 | KCNN4 |
| -0.149544328 | 1.13057E-41 | 1797 | DOM3Z |
| -0.149559557 | 1.10927E-41 | 23511 | NUP188 |
| -0.149598092 | 1.05742E-41 | 25906 | C11orf51 |
| -0.149605528 | 1.04761E-41 | 51230 | PHF20 |
| -0.14961648 | 1.0336E-41 | 144321 | GLIPR1L2 |
| -0.149674058 | 9.61851E-42 | 6668 | SP2 |
| -0.149771765 | 8.51989E-42 | 100287430 | LOC100287430 |
| -0.149790153 | 8.32371E-42 | 3640 | INSL3 |
| -0.149888396 | 7.36522E-42 | 9557 | CHD1L |
| -0.149944857 | 6.86636E-42 | 56903 | PAPOLB |
| -0.14996019 | 6.73464E-42 | 550 | AUP1 |
| -0.149974942 | 6.61413E-42 | 11155 | LDB3 |
| -0.150009125 | 6.33667E-42 | 7205 | TRIP6 |
| -0.150022954 | 6.22737E-42 | 7766 | ZNF223 |
| -0.150063083 | 5.92469E-42 | 4089 | SMAD4 |
| -0.150123253 | 5.49309E-42 | 79027 | ZNF655 |
| -0.150124654 | 5.48748E-42 | 51302 | CYP39A1 |
| -0.150157988 | 5.26328E-42 | 400569 | MED11 |
| -0.150195971 | 5.01665E-42 | 375295 | LOC375295 |
| -0.150204048 | 4.9662E-42 | 120534 | C11orf46 |
| -0.150237575 | 4.76441E-42 | 255239 | ANKK1 |
| -0.150293857 | 4.43931E-42 | 471 | ATIC |
| -0.150422752 | 3.7779E-42 | 100129543 | ZNF730 |
| -0.150428325 | 3.75268E-42 | 50865 | HEBP1 |
| -0.150473356 | 3.54809E-42 | 25936 | NSL1 |
| -0.150473922 | 3.54529E-42 | 3249 | HPN |
| -0.150474191 | 3.54248E-42 | 5151 | PDE8A |
| -0.150495738 | 3.44719E-42 | 54606 | DDX56 |
| -0.15056558 | 3.16133E-42 | 9670 | IPO13 |
| -0.15056929 | 3.14451E-42 | 11213 | IRAK3 |
| -0.150587305 | 3.07725E-42 | 9469 | CHST3 |
| -0.150628731 | 2.92031E-42 | 51204 | TACO1 |
| -0.150681287 | 2.73533E-42 | 92745 | SLC38A5 |
| -0.150721505 | 2.60081E-42 | 55230 | USP40 |
| -0.150800899 | 2.35418E-42 | 100127206 | KIAA1024L |
| -0.150816873 | 2.30654E-42 | 641298 | RP11-368J21.1 |
| -0.150940195 | 1.97583E-42 | 10054 | UBA2 |
| -0.150944844 | 1.96462E-42 | 2915 | GRM5 |
| -0.151000842 | 1.8301E-42 | 6776 | STAT5A |
| -0.151031956 | 1.76003E-42 | 26164 | GTPBP5 |
| -0.15108414 | 1.64793E-42 | 84273 | NOA1 |
| -0.151103079 | 1.60869E-42 | 79905 | TMC7 |
| -0.151243031 | 1.35085E-42 | 27230 | SERP1 |
| -0.151247963 | 1.34244E-42 | 7784 | ZP3 |
| -0.151263565 | 1.31722E-42 | 343099 | CCDC18 |
| -0.151263833 | 1.31722E-42 | 157739 | TDH |
| -0.151322618 | 1.22193E-42 | 55254 | TMEM39A |
| -0.151326329 | 1.21633E-42 | 58517 | RBM25 |
| -0.151378334 | 1.13785E-42 | 339453 | TMEM240 |
| -0.151380286 | 1.13785E-42 | 79781 | IQCA1 |
| -0.151388466 | 1.12384E-42 | 124857 | WFIKKN2 |
| -0.15139617 | 1.11543E-42 | 23007 | PLCH1 |
| -0.151471764 | 1.01174E-42 | 134 | ADORA1 |
| -0.151502594 | 9.75304E-43 | 221908 | C7orf47 |
| -0.151516899 | 9.55686E-43 | 2800 | GOLGA1 |
| -0.151659161 | 7.9874E-43 | 6168 | RPL37A |
| -0.151712567 | 7.45491E-43 | 125061 | AFMID |
| -0.151814446 | 6.55808E-43 | 1583 | CYP11A1 |
| -0.151820287 | 6.50202E-43 | 131405 | TRIM71 |
| -0.151850849 | 6.27782E-43 | 8227 | SFRS17A |
| -0.15200825 | 5.15678E-43 | 55509 | BATF3 |
| -0.152021348 | 5.04467E-43 | 9361 | LONP1 |
| -0.152114496 | 4.48416E-43 | 51053 | GMNN |
| -0.15215525 | 4.25995E-43 | 2526 | FUT4 |
| -0.152195841 | 4.03574E-43 | 1489 | CTF1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.201287001 | 0.238162175 | 0.285 | 1 | 55308 | DDX19A |
| -0.201287001 | 0.238162175 | 0.271 | 1 | 118611 | C10orf90 |
| -0.201287001 | 0.238162175 | 0.268 | 1 | 407975 | MIR17HG |
| -0.201287001 | 0.238162175 | 0.295 | 1 | 653188 | GUSBP3 |
| -0.201544404 | 0.237552807 | 0.278 | 1 | 908 | CCT6A |
| -0.201544404 | 0.237552807 | 0.279 | 1 | 1047 | CLGN |
| -0.201544404 | 0.237552807 | 0.279 | 1 | 6275 | S100A4 |
| -0.201544404 | 0.237552807 | 0.276 | 1 | 6558 | SLC12A2 |
| -0.201544404 | 0.237552807 | 0.262 | 1 | 6655 | SOS2 |
| -0.201544404 | 0.237552807 | 0.252 | 1 | 9056 | SLC7A7 |
| -0.201544404 | 0.237552807 | 0.272 | 1 | 51300 | TIMMDC1 |
| -0.201544404 | 0.237552807 | 0.257 | 1 | 64149 | C17orf75 |
| -0.201544404 | 0.237552807 | 0.269 | 1 | 90592 | ZNF700 |
| -0.201544404 | 0.237552807 | 0.28 | 1 | 388591 | RNF207 |
| -0.201801807 | 0.236944243 | 0.284 | 1 | 2803 | GOLGA4 |
| -0.201801807 | 0.236944243 | 0.286 | 1 | 4973 | OLR1 |
| -0.201801807 | 0.236944243 | 0.306 | 1 | 6801 | STRN |
| -0.201801807 | 0.236944243 | 0.295 | 1 | 221061 | FAM171A1 |
| -0.201801807 | 0.236944243 | 0.282 | 1 | 259290 | TAS2R31 |
| -0.202059194 | 0.236336991 | 0.267 | 1 | 2880 | GPX5 |
| -0.202059194 | 0.236336991 | 0.289 | 1 | 3676 | ITGA4 |
| -0.202059194 | 0.236336991 | 0.286 | 1 | 9644 | SH3PXD2A |
| -0.202059194 | 0.236336991 | 0.287 | 1 | 50865 | HEBP1 |
| -0.202059194 | 0.236336991 | 0.274 | 1 | 54514 | DDX4 |
| -0.202059194 | 0.236336991 | 0.267 | 1 | 84747 | UNC119B |
| -0.202059194 | 0.236336991 | 0.271 | 1 | 387628 | FAM88A |
| -0.202316597 | 0.235730797 | 0.262 | 1 | 831 | CAST |
| -0.202316597 | 0.235730797 | 0.261 | 1 | 1676 | DFFA |
| -0.202316597 | 0.235730797 | 0.248 | 1 | 3292 | HSD17B1 |
| -0.202316597 | 0.235730797 | 0.277 | 1 | 5425 | POLD2 |
| -0.202316597 | 0.235730797 | 0.263 | 1 | 26022 | TMEM98 |
| -0.202316597 | 0.235730797 | 0.281 | 1 | 26266 | SLC13A4 |
| -0.202316597 | 0.235730797 | 0.289 | 1 | 51000 | SLC35B3 |
| -0.202316597 | 0.235730797 | 0.257 | 1 | 51104 | FAM108B1 |
| -0.202316597 | 0.235730797 | 0.266 | 1 | 51735 | RAPGEF6 |
| -0.202316597 | 0.235730797 | 0.269 | 1 | 121274 | ZNF641 |
| -0.202316597 | 0.235730797 | 0.282 | 1 | 221785 | ZNF498 |
| -0.202316597 | 0.235730797 | 0.284 | 1 | 402682 | UFSP1 |
| -0.202316597 | 0.235730797 | 0.287 | 1 | 729359 | KIAA1881 |
| -0.202574 | 0.235125706 | 0.277 | 1 | 1265 | CNN2 |
| -0.202574 | 0.235125706 | 0.271 | 1 | 6646 | SOAT1 |
| -0.202574 | 0.235125706 | 0.289 | 1 | 9188 | DDX21 |
| -0.202574 | 0.235125706 | 0.271 | 1 | 147808 | ZNF784 |
| -0.202574 | 0.235125706 | 0.278 | 1 | 254065 | BRWD3 |
| -0.202574 | 0.235125706 | 0.292 | 1 | 259266 | ASPM |
| -0.202831402 | 0.234521344 | 0.265 | 1 | 4999 | ORC2 |
| -0.202831402 | 0.234521344 | 0.301 | 1 | 10845 | CLPX |
| -0.202831402 | 0.234521344 | 0.289 | 1 | 60437 | CDH26 |
| -0.202831402 | 0.234521344 | 0.276 | 1 | 93377 | OPALIN |
| -0.202831402 | 0.234521344 | 0.269 | 1 | 284459 | AC008806.1 |
| -0.202831402 | 0.234521344 | 0.285 | 1 | 440603 | BCL2L15 |
| -0.203088805 | 0.233918414 | 0.267 | 1 | 3155 | HMGCL |
| -0.203088805 | 0.233918414 | 0.278 | 1 | 9331 | B4GALT6 |
| -0.203088805 | 0.233918414 | 0.297 | 1 | 23580 | CDC42EP4 |
| -0.203088805 | 0.233918414 | 0.252 | 1 | 26493 | OR8B8 |
| -0.203088805 | 0.233918414 | 0.262 | 1 | 54361 | WNT4 |
| -0.203346193 | 0.233316481 | 0.26 | 1 | 4041 | LRP5 |
| -0.203346193 | 0.233316481 | 0.263 | 1 | 27296 | TP53TG5 |
| -0.203346193 | 0.233316481 | 0.269 | 1 | 79035 | OBFC2B |
| -0.203346193 | 0.233316481 | 0.256 | 1 | 121601 | AC079953.2 |
| -0.203346193 | 0.233316481 | 0.275 | 1 | 285512 | FAM13A-AS1 |
| -0.203603595 | 0.232715636 | 0.28 | 1 | 12 | SERPINA3 |
| -0.203603595 | 0.232715636 | 0.288 | 1 | 4286 | MITF |
| -0.203603595 | 0.232715636 | 0.272 | 1 | 57060 | PCBP4 |
| -0.203603595 | 0.232715636 | 0.277 | 1 | 80740 | LY6G6C |
| -0.203603595 | 0.232715636 | 0.245 | 1 | 136157 | SSU72P8 |
| -0.203603595 | 0.232715636 | 0.28 | 1 | 347689 | SOX2-OT |
| -0.203860998 | 0.232115835 | 0.271 | 1 | 3012 | HIST1H2AE |
| -0.203860998 | 0.232115835 | 0.262 | 1 | 3151 | HMGN2 |
| -0.203860998 | 0.232115835 | 0.274 | 1 | 3185 | HNRNPF |
| -0.203860998 | 0.232115835 | 0.268 | 1 | 7439 | BEST1 |
| -0.203860998 | 0.232115835 | 0.258 | 1 | 28965 | SLC27A6 |
| -0.203860998 | 0.232115835 | 0.28 | 1 | 51726 | DNAJB11 |
| -0.203860998 | 0.232115835 | 0.284 | 1 | 84815 | MGC12916 |
| -0.203860998 | 0.232115835 | 0.262 | 1 | 389123 | IQCF2 |
| -0.203860998 | 0.232115835 | 0.269 | 1 | 646626 | LOC646626 |
| -0.203860998 | 0.232115835 | 0.259 | 1 | 100128361 | LOC100128361 |
| -0.204118401 | 0.231516823 | 0.249 | 1 | 2109 | ETFB |
| -0.204118401 | 0.231516823 | 0.268 | 1 | 23383 | KIAA0892 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.152213395 | 3.97969E-43 | 7289 | TULP3 |
| -0.152237535 | 3.86758E-43 | 283102 | KRT8P41 |
| -0.152312949 | 3.47522E-43 | 7376 | NR1H2 |
| -0.152331799 | 3.41917E-43 | 23098 | SARM1 |
| -0.152353063 | 3.30706E-43 | 25 | ABL1 |
| -0.15236105 | 3.30706E-43 | 121227 | LRIG3 |
| -0.152401254 | 3.13891E-43 | 203286 | ANKS6 |
| -0.152406275 | 3.11088E-43 | 6935 | ZEB1 |
| -0.152420104 | 3.05483E-43 | 375775 | PNPLA7 |
| -0.152452245 | 2.9147E-43 | 100287015 | RP11-115C21.2 |
| -0.152456611 | 2.9147E-43 | 6133 | RPL9 |
| -0.152527183 | 2.66247E-43 | 79970 | ZNF767 |
| -0.152571201 | 2.52234E-43 | 113189 | CHST14 |
| -0.152599245 | 2.43826E-43 | 79741 | C10orf68 |
| -0.152675867 | 2.18603E-43 | 2622 | GAS8 |
| -0.152681336 | 2.18603E-43 | 203427 | SLC25A43 |
| -0.152698711 | 2.12997E-43 | 55281 | TMEM140 |
| -0.152726203 | 2.07392E-43 | 11095 | ADAMTS8 |
| -0.152743742 | 2.01787E-43 | 22996 | TTC39A |
| -0.152785718 | 1.90577E-43 | 7390 | UROS |
| -0.152789623 | 1.90577E-43 | 8608 | RDH16 |
| -0.152860671 | 1.73761E-43 | 9275 | BCL7B |
| -0.152883604 | 1.68156E-43 | 728411 | AC138951.4 |
| -0.152949825 | 1.56945E-43 | 51585 | PCF11 |
| -0.152989656 | 1.48538E-43 | 9487 | PIGL |
| -0.153006837 | 1.45735E-43 | 11345 | GABARAPL2 |
| -0.153009534 | 1.45735E-43 | 84466 | MEGF10 |
| -0.153163224 | 1.17709E-43 | 4899 | NRF1 |
| -0.15331395 | 9.80909E-44 | 79845 | RNF122 |
| -0.153329819 | 9.52883E-44 | 1236 | CCR7 |
| -0.153352484 | 9.24857E-44 | 64801 | ARV1 |
| -0.153391674 | 8.96831E-44 | 8323 | FZD6 |
| -0.153423622 | 8.40779E-44 | 145853 | C15orf61 |
| -0.153431892 | 8.40779E-44 | 79658 | ARHGAP10 |
| -0.153487697 | 7.84727E-44 | 1660 | DHX9 |
| -0.15353775 | 7.28675E-44 | 51199 | NIN |
| -0.153565988 | 7.28675E-44 | 57541 | ZNF398 |
| -0.153611585 | 6.72623E-44 | 401428 | OR2A20P |
| -0.15392454 | 4.48416E-44 | 2648 | KAT2A |
| -0.154029384 | 3.92364E-44 | 118663 | BTBD16 |
| -0.154032081 | 3.92364E-44 | 9375 | TM9SF2 |
| -0.154069036 | 3.92364E-44 | 5754 | PTK7 |
| -0.154077023 | 3.64338E-44 | 22893 | BAHD1 |
| -0.154081017 | 3.64338E-44 | 11083 | DIDO1 |
| -0.154111296 | 3.36312E-44 | 4691 | NCL |
| -0.154258296 | 2.8026E-44 | 6141 | RPL18 |
| -0.154299259 | 2.8026E-44 | 10330 | CNPY2 |
| -0.154383674 | 2.52234E-44 | 1730 | DIAPH2 |
| -0.154388219 | 2.52234E-44 | 196513 | DCP1B |
| -0.154469386 | 2.24208E-44 | 84164 | ASCC2 |
| -0.154478297 | 2.24208E-44 | 727936 | GXYLT2 |
| -0.15449743 | 2.24208E-44 | 25850 | ZNF345 |
| -0.154509321 | 2.24208E-44 | 8340 | HIST1H2BL |
| -0.15453513 | 2.24208E-44 | 55255 | WDR41 |
| -0.154548779 | 1.96182E-44 | 55802 | DCP1A |
| -0.154560387 | 1.96182E-44 | 84978 | FRMD5 |
| -0.154581934 | 1.96182E-44 | 1311 | COMP |
| -0.154597625 | 1.68156E-44 | 10110 | SGK2 |
| -0.154655769 | 1.68156E-44 | 8449 | DHX16 |
| -0.154682696 | 1.68156E-44 | 219287 | FAM123A |
| -0.154706568 | 1.68156E-44 | 246744 | STH |
| -0.15470852 | 1.68156E-44 | 25912 | C1orf43 |
| -0.154767573 | 1.68156E-44 | 10319 | LAMC3 |
| -0.154867217 | 1.4013E-44 | 2879 | GPX4 |
| -0.15488255 | 1.12104E-44 | 8576 | STK16 |
| -0.154895738 | 1.12104E-44 | 10628 | TXNIP |
| -0.155019805 | 1.12104E-44 | 55094 | GPATCH1 |
| -0.155065864 | 1.12104E-44 | 79258 | MMEL1 |
| -0.155072361 | 1.12104E-44 | 9440 | MED17 |
| -0.155130401 | 1.12104E-44 | 3965 | LGALS9 |
| -0.155171543 | 8.40779E-45 | 81832 | NETO1 |
| -0.155196428 | 8.40779E-45 | 252995 | FNDC5 |
| -0.155240446 | 8.40779E-45 | 80258 | EFHC2 |
| -0.155272394 | 8.40779E-45 | 27351 | PPPDE2 |
| -0.155302763 | 5.60519E-45 | 147650 | NCRNA00085 |
| -0.15531075 | 5.60519E-45 | 22890 | ZBTB1 |
| -0.155314744 | 5.60519E-45 | 6815 | STYX |
| -0.155343354 | 5.60519E-45 | 572 | BAD |
| -0.155349106 | 5.60519E-45 | 100129616 | LOC100129616 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.204118401 | 0.231516823 | 0.298 | 1 | 79797 | ZNF408 |
| -0.204118401 | 0.231516823 | 0.271 | 1 | 285961 | SEPT7L |
| -0.204118401 | 0.231516823 | 0.252 | 1 | 442524 | AC007276.5 |
| -0.204375803 | 0.230919167 | 0.275 | 1 | 3636 | INPPL1 |
| -0.204375803 | 0.230919167 | 0.276 | 1 | 4056 | LTC4S |
| -0.204375803 | 0.230919167 | 0.269 | 1 | 4616 | GADD45B |
| -0.204375803 | 0.230919167 | 0.282 | 1 | 5375 | PMP2 |
| -0.204375803 | 0.230919167 | 0.253 | 1 | 6549 | SLC9A2 |
| -0.204375803 | 0.230919167 | 0.279 | 1 | 8313 | AXIN2 |
| -0.204375803 | 0.230919167 | 0.278 | 1 | 341378 | LOC341378 |
| -0.204375803 | 0.230919167 | 0.258 | 1 | 440434 | AC183087.2 |
| -0.204633191 | 0.23032257 | 0.269 | 1 | 1674 | DES |
| -0.204633191 | 0.23032257 | 0.255 | 1 | 22828 | RBM16 |
| -0.204633191 | 0.23032257 | 0.274 | 1 | 55449 | AL136419.1 |
| -0.204633191 | 0.23032257 | 0.265 | 1 | 127396 | ZNF684 |
| -0.204633191 | 0.23032257 | 0.258 | 1 | 138639 | PTPDC1 |
| -0.204633191 | 0.23032257 | 0.261 | 1 | 139411 | PTCHD1 |
| -0.204890594 | 0.229727 | 0.248 | 1 | 889 | KRIT1 |
| -0.204890594 | 0.229727 | 0.262 | 1 | 933 | CD22 |
| -0.204890594 | 0.229727 | 0.278 | 1 | 3553 | IL1B |
| -0.204890594 | 0.229727 | 0.291 | 1 | 23583 | SMUG1 |
| -0.204890594 | 0.229727 | 0.266 | 1 | 51661 | FKBP7 |
| -0.204890594 | 0.229727 | 0.266 | 1 | 84466 | MEGF10 |
| -0.205147997 | 0.229132235 | 0.265 | 1 | 1509 | CTSD |
| -0.205147997 | 0.229132235 | 0.26 | 1 | 10581 | IFITM2 |
| -0.205147997 | 0.229132235 | 0.271 | 1 | 11262 | SP140 |
| -0.205147997 | 0.229132235 | 0.258 | 1 | 23303 | KIF13B |
| -0.205147997 | 0.229132235 | 0.255 | 1 | 30817 | EMR2 |
| -0.205147997 | 0.229132235 | 0.258 | 1 | 55112 | WDR60 |
| -0.205147997 | 0.229132235 | 0.268 | 1 | 55374 | TMCO6 |
| -0.205147997 | 0.229132235 | 0.294 | 1 | 81033 | KCNH6 |
| -0.205147997 | 0.229132235 | 0.269 | 1 | 126074 | C19orf39 |
| -0.205147997 | 0.229132235 | 0.26 | 1 | 642394 | ADARB2-AS1 |
| -0.205405399 | 0.228538767 | 0.259 | 1 | 4034 | LRCH4 |
| -0.205405399 | 0.228538767 | 0.285 | 1 | 51643 | TMBIM4 |
| -0.205405399 | 0.228538767 | 0.277 | 1 | 94015 | TTYH2 |
| -0.205405399 | 0.228538767 | 0.249 | 1 | 119395 | CALHM3 |
| -0.205405399 | 0.228538767 | 0.262 | 1 | 122704 | MRPL52 |
| -0.205405399 | 0.228538767 | 0.276 | 1 | 192669 | EIF2C3 |
| -0.205662802 | 0.227946445 | 0.263 | 1 | 1160 | CKMT2 |
| -0.205662802 | 0.227946445 | 0.282 | 1 | 1267 | CNP |
| -0.205662802 | 0.227946445 | 0.251 | 1 | 2214 | FCGR3A |
| -0.205662802 | 0.227946445 | 0.28 | 1 | 2639 | GCDH |
| -0.205662802 | 0.227946445 | 0.282 | 1 | 57594 | HOMEZ |
| -0.205662802 | 0.227946445 | 0.243 | 1 | 83938 | C10orf11 |
| -0.205662802 | 0.227946445 | 0.29 | 1 | 130916 | MTERFD2 |
| -0.205662802 | 0.227946445 | 0.273 | 1 | 201176 | SH3D20 |
| -0.20592019 | 0.227355123 | 0.283 | 1 | 5287 | PIK3C2B |
| -0.20592019 | 0.227355123 | 0.259 | 1 | 6050 | RNH1 |
| -0.20592019 | 0.227355123 | 0.285 | 1 | 9696 | CROCC |
| -0.20592019 | 0.227355123 | 0.265 | 1 | 10186 | LHFP |
| -0.20592019 | 0.227355123 | 0.256 | 1 | 23446 | SLC44A1 |
| -0.20592019 | 0.227355123 | 0.262 | 1 | 84445 | LZTS2 |
| -0.20592019 | 0.227355123 | 0.244 | 1 | 93081 | C13orf27 |
| -0.20592019 | 0.227355123 | 0.26 | 1 | 116064 | LRRC58 |
| -0.20592019 | 0.227355123 | 0.264 | 1 | 150678 | MYEOV2 |
| -0.20592019 | 0.227355123 | 0.266 | 1 | 253260 | RICTOR |
| -0.206177592 | 0.226764575 | 0.254 | 1 | 1876 | E2F6 |
| -0.206177592 | 0.226764575 | 0.261 | 1 | 2252 | FGF7 |
| -0.206177592 | 0.226764575 | 0.249 | 1 | 2689 | GH2 |
| -0.206177592 | 0.226764575 | 0.262 | 1 | 3753 | KCNE1 |
| -0.206177592 | 0.226764575 | 0.256 | 1 | 4242 | MFNG |
| -0.206177592 | 0.226764575 | 0.298 | 1 | 8705 | B3GALT4 |
| -0.206177592 | 0.226764575 | 0.285 | 1 | 9376 | SLC22A8 |
| -0.206177592 | 0.226764575 | 0.261 | 1 | 9553 | MRPL33 |
| -0.206177592 | 0.226764575 | 0.259 | 1 | 23556 | PIGN |
| -0.206177592 | 0.226764575 | 0.253 | 1 | 79090 | TRAPPC6A |
| -0.206177592 | 0.226764575 | 0.266 | 1 | 113419 | TEX261 |
| -0.206177592 | 0.226764575 | 0.268 | 1 | 122809 | SOCS4 |
| -0.206177592 | 0.226764575 | 0.261 | 1 | 122961 | ISCA2 |
| -0.206177592 | 0.226764575 | 0.255 | 1 | 219899 | TBCEL |
| -0.206177592 | 0.226764575 | 0.259 | 1 | 494514 | C18orf56 |
| -0.20643501 | 0.226175368 | 0.254 | 1 | 4117 | MAK |
| -0.20643501 | 0.226175368 | 0.271 | 1 | 9848 | MFAP3L |
| -0.20643501 | 0.226175368 | 0.26 | 1 | 10144 | FAM13A |
| -0.20643501 | 0.226175368 | 0.24 | 1 | 10664 | CTCF |
| -0.20643501 | 0.226175368 | 0.26 | 1 | 23193 | GANAB |
| -0.20643501 | 0.226175368 | 0.273 | 1 | 55230 | USP40 |
| -0.20643501 | 0.226175368 | 0.263 | 1 | 55714 | ODZ3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.155352354 | 5.60519E-45 | 55771 | PRR11 |
| -0.155378729 | 5.60519E-45 | 60684 | C4orf41 |
| -0.155416057 | 5.60519E-45 | 728637 | LOC728637 |
| -0.155424982 | 5.60519E-45 | 26022 | TMEM98 |
| -0.155427486 | 5.60519E-45 | 201973 | CCDC111 |
| -0.155458599 | 5.60519E-45 | 9235 | IL32 |
| -0.155464634 | 5.60519E-45 | 117246 | FTSJ3 |
| -0.155467883 | 5.60519E-45 | 5257 | PHKB |
| -0.155544117 | 5.60519E-45 | 4641 | MYO1C |
| -0.155591756 | 5.60519E-45 | 116143 | WDR92 |
| -0.155649334 | 5.60519E-45 | 9113 | LATS1 |
| -0.155653805 | 5.60519E-45 | 10237 | SLC35B1 |
| -0.155671999 | 5.60519E-45 | 2681 | GGTA1 |
| -0.15587306 | 5.60519E-45 | 131601 | GPR175 |
| -0.155925438 | 2.8026E-45 | 26574 | AATF |
| -0.155930817 | 2.8026E-45 | 56919 | DHX33 |
| -0.155946419 | 2.8026E-45 | 730234 | LOC730234 |
| -0.155969083 | 2.8026E-45 | 55217 | TMLHE |
| -0.155970931 | 2.8026E-45 | 1672 | DEFB1 |
| -0.156076521 | 2.8026E-45 | 51566 | ARMCX3 |
| -0.156102806 | 2.8026E-45 | 1191 | CLU |
| -0.156123981 | 2.8026E-45 | 100133091 | AC004980.7 |
| -0.156131685 | 2.8026E-45 | 84674 | CARD6 |
| -0.1561407 | 2.8026E-45 | 688 | KLF5 |
| -0.156157404 | 2.8026E-45 | 56140 | PCDHA8 |
| -0.156183317 | 2.8026E-45 | 1073 | CFL2 |
| -0.156209141 | 2.8026E-45 | 51639 | AC008073.1 |
| -0.156213969 | 2.8026E-45 | 51386 | EIF3L |
| -0.156255841 | 2.8026E-45 | 64434 | NOM1 |
| -0.15627265 | 2.8026E-45 | 29082 | CHMP4A |
| -0.156276271 | 2.8026E-45 | 9124 | PDLIM1 |
| -0.156292528 | 2.8026E-45 | 79053 | ALG8 |
| -0.156344444 | < 0.001 | 162540 | AC217771.1 |
| -0.156359851 | < 0.001 | 7307 | U2AF1 |
| -0.156363115 | < 0.001 | 5771 | PTPN2 |
| -0.156368673 | < 0.001 | 339512 | C1orf110 |
| -0.156444266 | < 0.001 | 419 | ART3 |
| -0.156468973 | < 0.001 | 11267 | SNF8 |
| -0.156491354 | < 0.001 | 389766 | C9orf153 |
| -0.156596854 | < 0.001 | 26119 | LDLRAP1 |
| -0.156629547 | < 0.001 | 1961 | EGR4 |
| -0.156646907 | < 0.001 | 1663 | DDX11 |
| -0.156728357 | < 0.001 | 54680 | ZNHIT6 |
| -0.156792432 | < 0.001 | 125704 | C18orf51 |
| -0.1567927 | < 0.001 | 53637 | S1PR5 |
| -0.156865135 | < 0.001 | 387264 | KRTAP5-1 |
| -0.156865329 | < 0.001 | 100127983 | RP11-122A3.2 |
| -0.156873226 | < 0.001 | 11013 | TMSB15A |
| -0.156877026 | < 0.001 | 91107 | TRIM47 |
| -0.156905726 | < 0.001 | 128218 | TMEM125 |
| -0.156951606 | < 0.001 | 51056 | LAP3 |
| -0.157035172 | < 0.001 | 6900 | CNTN2 |
| -0.157048181 | < 0.001 | 79915 | ATAD5 |
| -0.157056347 | < 0.001 | 6173 | RPL36A |
| -0.157088861 | < 0.001 | 441150 | C6orf226 |
| -0.157177821 | < 0.001 | 5577 | PRKAR2B |
| -0.157206982 | < 0.001 | 4792 | NFKBIA |
| -0.157208562 | < 0.001 | 2861 | GPR37 |
| -0.157243013 | < 0.001 | 2297 | RP11-79P5.6 |
| -0.157337084 | < 0.001 | 57471 | ERMN |
| -0.157372102 | < 0.001 | 29799 | YPEL1 |
| -0.157414168 | < 0.001 | 2990 | GUSB |
| -0.157422334 | < 0.001 | 440888 | ACTR3BP2 |
| -0.157482415 | < 0.001 | 79710 | MORC4 |
| -0.157512695 | < 0.001 | 5872 | RAB13 |
| -0.157545388 | < 0.001 | 369 | ARAF |
| -0.157553285 | < 0.001 | 27296 | TP53TG5 |
| -0.157555044 | < 0.001 | 216 | ALDH1A1 |
| -0.157593861 | < 0.001 | 59283 | CACNG8 |
| -0.157617912 | < 0.001 | 54820 | NDE1 |
| -0.157638341 | < 0.001 | 79621 | RNASEH2B |
| -0.157661378 | < 0.001 | 2801 | GOLGA2 |
| -0.157668993 | < 0.001 | 1474 | CST6 |
| -0.157679856 | < 0.001 | 387036 | GUSBP2 |
| -0.157749876 | < 0.001 | 51059 | FAM135B |
| -0.15783374 | < 0.001 | 10417 | SPON2 |
| -0.157887325 | < 0.001 | 84817 | TXNDC17 |
| -0.157908678 | < 0.001 | 3455 | IFNAR2 |
| -0.15791741 | < 0.001 | 63935 | PCIF1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.20643501 | 0.226175368 | 0.245 | 1 | 202020 | FLJ39653 |
| -0.20643501 | 0.226175368 | 0.267 | 1 | 202299 | C5ORF27 |
| -0.20643501 | 0.226175368 | 0.258 | 1 | 400506 | C16orf88 |
| -0.206692412 | 0.225587204 | 0.25 | 1 | 1462 | VCAN |
| -0.206692412 | 0.225587204 | 0.26 | 1 | 6164 | RPL34 |
| -0.206692412 | 0.225587204 | 0.275 | 1 | 6534 | SLC6A7 |
| -0.206692412 | 0.225587204 | 0.266 | 1 | 10906 | TRAFD1 |
| -0.206692412 | 0.225587204 | 0.258 | 1 | 157657 | C8orf37 |
| -0.206692412 | 0.225587204 | 0.257 | 1 | 219595 | FOLH1B |
| -0.206692412 | 0.225587204 | 0.247 | 1 | 246269 | LACE1 |
| -0.206692412 | 0.225587204 | 0.279 | 1 | 285671 | RNF180 |
| -0.206949815 | 0.225000173 | 0.259 | 1 | 5867 | RAB4A |
| -0.206949815 | 0.225000173 | 0.265 | 1 | 11226 | GALNT6 |
| -0.206949815 | 0.225000173 | 0.277 | 1 | 84255 | SLC37A3 |
| -0.207207203 | 0.22441411 | 0.27 | 1 | 26472 | PPP1R14B |
| -0.207207203 | 0.22441411 | 0.246 | 1 | 79943 | ZNF696 |
| -0.207464606 | 0.223828852 | 0.258 | 1 | 1654 | DDX3X |
| -0.207464606 | 0.223828852 | 0.27 | 1 | 10129 | FRY |
| -0.207464606 | 0.223828852 | 0.27 | 1 | 23166 | STAB1 |
| -0.207464606 | 0.223828852 | 0.259 | 1 | 55225 | RAVER2 |
| -0.207722008 | 0.22324492 | 0.265 | 1 | 8301 | PICALM |
| -0.207722008 | 0.22324492 | 0.262 | 1 | 8804 | CREG1 |
| -0.207722008 | 0.22324492 | 0.252 | 1 | 23743 | BHMT2 |
| -0.207722008 | 0.22324492 | 0.277 | 1 | 28989 | NTMT1 |
| -0.207722008 | 0.22324492 | 0.284 | 1 | 50617 | ATP6V0A4 |
| -0.207722008 | 0.22324492 | 0.245 | 1 | 64327 | LMBR1 |
| -0.207979411 | 0.222662032 | 0.274 | 1 | 3726 | JUNB |
| -0.207979411 | 0.222662032 | 0.249 | 1 | 5354 | PLP1 |
| -0.207979411 | 0.222662032 | 0.282 | 1 | 55193 | PBRM1 |
| -0.207979411 | 0.222662032 | 0.255 | 1 | 219988 | PATL1 |
| -0.207979411 | 0.222662032 | 0.25 | 1 | 389766 | C9orf153 |
| -0.208236814 | 0.222080275 | 0.261 | 1 | 8787 | RGS9 |
| -0.208236814 | 0.222080275 | 0.25 | 1 | 9261 | MAPKAPK2 |
| -0.208236814 | 0.222080275 | 0.257 | 1 | 81932 | HDHD3 |
| -0.208236814 | 0.222080275 | 0.293 | 1 | 399806 | FLJ41350 |
| -0.208236814 | 0.222080275 | 0.274 | 1 | 646799 | ZAR1L |
| -0.208494201 | 0.221499234 | 0.244 | 1 | 976 | CD97 |
| -0.208494201 | 0.221499234 | 0.241 | 1 | 7096 | TLR1 |
| -0.208494201 | 0.221499234 | 0.246 | 1 | 11248 | NXPH3 |
| -0.208494201 | 0.221499234 | 0.249 | 1 | 22802 | CLCA4 |
| -0.208494201 | 0.221499234 | 0.244 | 1 | 26150 | RIBC2 |
| -0.208494201 | 0.221499234 | 0.253 | 1 | 79137 | FAM134A |
| -0.208494201 | 0.221499234 | 0.278 | 1 | 84162 | KIAA1109 |
| -0.208494201 | 0.221499234 | 0.238 | 1 | 170692 | ADAMTS18 |
| -0.208494201 | 0.221499234 | 0.244 | 1 | 201798 | TIGD4 |
| -0.208751604 | 0.22091952 | 0.258 | 1 | 4723 | NDUFV1 |
| -0.208751604 | 0.22091952 | 0.251 | 1 | 6529 | SLC6A1 |
| -0.208751604 | 0.22091952 | 0.263 | 1 | 57593 | EBF4 |
| -0.208751604 | 0.22091952 | 0.255 | 1 | 83460 | TMEM93 |
| -0.208751604 | 0.22091952 | 0.263 | 1 | 90246 | LOC90246 |
| -0.208751604 | 0.22091952 | 0.264 | 1 | 135932 | TMEM139 |
| -0.208751604 | 0.22091952 | 0.288 | 1 | 150946 | FAM59B |
| -0.208751604 | 0.22091952 | 0.253 | 1 | 399687 | MYO18A |
| -0.208751604 | 0.22091952 | 0.23 | 1 | 646577 | HMGB1P16 |
| -0.209009007 | 0.220340848 | 0.233 | 1 | 3007 | HIST1H1D |
| -0.209009007 | 0.220340848 | 0.284 | 1 | 5976 | UPF1 |
| -0.209009007 | 0.220340848 | 0.261 | 1 | 8863 | PER3 |
| -0.209009007 | 0.220340848 | 0.248 | 1 | 9366 | RAB9BP1 |
| -0.209009007 | 0.220340848 | 0.263 | 1 | 10468 | FST |
| -0.209009007 | 0.220340848 | 0.254 | 1 | 29777 | ABT1 |
| -0.209009007 | 0.220340848 | 0.264 | 1 | 55748 | CNDP2 |
| -0.209009007 | 0.220340848 | 0.254 | 1 | 79963 | ABCA11P |
| -0.209009007 | 0.220340848 | 0.271 | 1 | 89822 | KCNK17 |
| -0.209009007 | 0.220340848 | 0.266 | 1 | 140825 | NEURL2 |
| -0.209009007 | 0.220340848 | 0.246 | 1 | 284998 | AC068057.2 |
| -0.209009007 | 0.220340848 | 0.266 | 1 | 440181 | LOC440181 |
| -0.209009007 | 0.220340848 | 0.25 | 1 | 445347 | TARP |
| -0.209266409 | 0.219763219 | 0.266 | 1 | 3895 | KTN1 |
| -0.209266409 | 0.219763219 | 0.256 | 1 | 340260 | UNCX |
| -0.209523812 | 0.219186708 | 0.256 | 1 | 2887 | GRB10 |
| -0.209523812 | 0.219186708 | 0.25 | 1 | 4864 | NPC1 |
| -0.209523812 | 0.219186708 | 0.259 | 1 | 9710 | KIAA0355 |
| -0.209523812 | 0.219186708 | 0.249 | 1 | 337963 | KRTAP23-1 |
| -0.209523812 | 0.219186708 | 0.262 | 1 | 388969 | C2orf68 |
| -0.209523812 | 0.219186708 | 0.259 | 1 | 400960 | PCBP1-AS1 |
| -0.2097812 | 0.218610942 | 0.252 | 1 | 1106 | CHD2 |
| -0.2097812 | 0.218610942 | 0.253 | 1 | 8973 | CHRNA6 |
| -0.2097812 | 0.218610942 | 0.242 | 1 | 9635 | CLCA2 |
| -0.2097812 | 0.218610942 | 0.253 | 1 | 11105 | PRDM7 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.158048525 | < 0.001 | 4991 | OR1D2 |
| -0.158094406 | < 0.001 | 9802 | DAZAP2 |
| -0.158114284 | < 0.001 | 57169 | ZNFX1 |
| -0.158119574 | < 0.001 | 84278 | HIATL2 |
| -0.158122823 | < 0.001 | 81603 | TRIM8 |
| -0.158123478 | < 0.001 | 23555 | TSPAN15 |
| -0.158132762 | < 0.001 | 3930 | LBR |
| -0.158151522 | < 0.001 | 256435 | ST6GALNAC3 |
| -0.158241138 | < 0.001 | 50624 | CUZD1 |
| -0.158243179 | < 0.001 | 91683 | SYT12 |
| -0.158264726 | < 0.001 | 23585 | TMEM50A |
| -0.15827252 | < 0.001 | 55793 | FAM63A |
| -0.15827921 | < 0.001 | 729566 | ZBTB8OSP1 |
| -0.158354625 | < 0.001 | 115708 | TRMT61A |
| -0.158378303 | < 0.001 | 138639 | PTPDC1 |
| -0.158522338 | < 0.001 | 22834 | ZNF652 |
| -0.158535331 | < 0.001 | 7073 | TIAL1 |
| -0.158561066 | < 0.001 | 4152 | MBD1 |
| -0.158561796 | < 0.001 | 26469 | PTPN18 |
| -0.158573598 | < 0.001 | 83875 | BCO2 |
| -0.158621699 | < 0.001 | 10120 | ACTR1B |
| -0.158637121 | < 0.001 | 65975 | STK33 |
| -0.158639446 | < 0.001 | 5893 | RAD52 |
| -0.158680573 | < 0.001 | 440119 | RP11-143E21.7 |
| -0.158731103 | < 0.001 | 441502 | RPS26P11 |
| -0.1587753 | < 0.001 | 56133 | PCDHB2 |
| -0.15883632 | < 0.001 | 166929 | SGMS2 |
| -0.158887014 | < 0.001 | 283927 | NUDT7 |
| -0.158887386 | < 0.001 | 254272 | TBC1D28 |
| -0.158894822 | < 0.001 | 6048 | RNF5 |
| -0.15889816 | < 0.001 | 10392 | NOD1 |
| -0.158903092 | < 0.001 | 55623 | THUMPD1 |
| -0.158963636 | < 0.001 | 54997 | TESC |
| -0.158998922 | < 0.001 | 11270 | NRM |
| -0.159003749 | < 0.001 | 55705 | IPO9 |
| -0.159030691 | < 0.001 | 5606 | MAP2K3 |
| -0.159091234 | < 0.001 | 1040 | CDS1 |
| -0.159094661 | < 0.001 | 84129 | ACAD11 |
| -0.159103677 | < 0.001 | 339665 | SLC35E4 |
| -0.159107208 | < 0.001 | 79770 | TXNDC15 |
| -0.159113705 | < 0.001 | 401399 | RP11-155G14.1 |
| -0.159205824 | < 0.001 | 9968 | MED12 |
| -0.159228295 | < 0.001 | 123720 | WHAMM |
| -0.159242973 | < 0.001 | 9988 | DMTF1 |
| -0.15933612 | < 0.001 | 349075 | ZNF713 |
| -0.15939787 | < 0.001 | 55622 | TTC27 |
| -0.159424439 | < 0.001 | 51319 | RSRC1 |
| -0.159465954 | < 0.001 | 8495 | PPFIBP2 |
| -0.15952231 | < 0.001 | 64072 | CDH23 |
| -0.159598842 | < 0.001 | 26778 | SNORA70 |
| -0.159633562 | < 0.001 | 54715 | A2BP1 |
| -0.159702659 | < 0.001 | 9881 | LBA1 |
| -0.159725606 | < 0.001 | 284836 | LINC00319 |
| -0.15981847 | < 0.001 | 55018 | LINC00483 |
| -0.159863964 | < 0.001 | 4973 | OLR1 |
| -0.159887463 | < 0.001 | 3061 | HCRTR1 |
| -0.159901768 | < 0.001 | 10489 | LRRC41 |
| -0.159903988 | < 0.001 | 9813 | KIAA0494 |
| -0.160047665 | < 0.001 | 400966 | RGPD1 |
| -0.16006735 | < 0.001 | 1285 | COL4A3 |
| -0.160108387 | < 0.001 | 84154 | RPF2 |
| -0.160137087 | < 0.001 | 1036 | CDO1 |
| -0.160165593 | < 0.001 | 54453 | RIN2 |
| -0.16017814 | < 0.001 | 3399 | ID3 |
| -0.160179436 | < 0.001 | 1876 | E2F6 |
| -0.160199776 | < 0.001 | 7094 | TLN1 |
| -0.160203025 | < 0.001 | 3316 | HSPB2 |
| -0.160208881 | < 0.001 | 2662 | GDF10 |
| -0.160259485 | < 0.001 | 4799 | NFX1 |
| -0.160331175 | < 0.001 | 6156 | RPL30 |
| -0.160387456 | < 0.001 | 124975 | GGT6 |
| -0.160422653 | < 0.001 | 9211 | LGI1 |
| -0.160551459 | < 0.001 | 1410 | CRYAB |
| -0.160573378 | < 0.001 | 7840 | ALMS1 |
| -0.160585448 | < 0.001 | 60436 | TGIF2 |
| -0.160645351 | < 0.001 | 94240 | EPSTI1 |
| -0.160696045 | < 0.001 | 3672 | ITGA1 |
| -0.16069828 | < 0.001 | 92259 | MRPS36 |
| -0.160775259 | < 0.001 | 7569 | ZNF182 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.2097812 | 0.218610942 | 0.246 | 1 | 51106 | TFB1M |
| -0.2097812 | 0.218610942 | 0.26 | 1 | 51571 | FAM49B |
| -0.2097812 | 0.218610942 | 0.253 | 1 | 83608 | C18orf21 |
| -0.2097812 | 0.218610942 | 0.258 | 1 | 127062 | OR2M3 |
| -0.2097812 | 0.218610942 | 0.275 | 1 | 340024 | SLC6A19 |
| -0.2097812 | 0.218610942 | 0.281 | 1 | 100132707 | AC093726.2 |
| -0.210038602 | 0.218036473 | 0.272 | 1 | 2158 | F9 |
| -0.210038602 | 0.218036473 | 0.275 | 1 | 5151 | PDE8A |
| -0.210038602 | 0.218036473 | 0.245 | 1 | 6035 | RNASE1 |
| -0.210038602 | 0.218036473 | 0.277 | 1 | 7336 | UBE2V2 |
| -0.210038602 | 0.218036473 | 0.264 | 1 | 51274 | KLF3 |
| -0.210038602 | 0.218036473 | 0.279 | 1 | 79411 | GLB1L |
| -0.210038602 | 0.218036473 | 0.247 | 1 | 85450 | ITPRIP |
| -0.210038602 | 0.218036473 | 0.264 | 1 | 151188 | ARL6IP6 |
| -0.210038602 | 0.218036473 | 0.254 | 1 | 219995 | MS4A15 |
| -0.210296005 | 0.217463046 | 0.26 | 1 | 6609 | SMPD1 |
| -0.210296005 | 0.217463046 | 0.262 | 1 | 10335 | MRVI1 |
| -0.210296005 | 0.217463046 | 0.268 | 1 | 54896 | PQLC2 |
| -0.210296005 | 0.217463046 | 0.261 | 1 | 55766 | H2AFJ |
| -0.210296005 | 0.217463046 | 0.262 | 1 | 57645 | POGK |
| -0.210296005 | 0.217463046 | 0.244 | 1 | 84329 | HVCN1 |
| -0.210296005 | 0.217463046 | 0.273 | 1 | 133121 | ENPP6 |
| -0.210296005 | 0.217463046 | 0.254 | 1 | 155400 | NSUN5B |
| -0.210296005 | 0.217463046 | 0.261 | 1 | 158219 | TTC39B |
| -0.210553408 | 0.216890693 | 0.24 | 1 | 8883 | NAE1 |
| -0.210553408 | 0.216890693 | 0.233 | 1 | 10233 | LRRC23 |
| -0.210553408 | 0.216890693 | 0.269 | 1 | 113189 | CHST14 |
| -0.210553408 | 0.216890693 | 0.266 | 1 | 133022 | TRAM1L1 |
| -0.210553408 | 0.216890693 | 0.285 | 1 | 286528 | SSU72P1 |
| -0.21081081 | 0.216319159 | 0.238 | 1 | 837 | CASP4 |
| -0.21081081 | 0.216319159 | 0.248 | 1 | 54854 | FAM83E |
| -0.21081081 | 0.216319159 | 0.257 | 1 | 58157 | NGB |
| -0.21081081 | 0.216319159 | 0.254 | 1 | 90527 | DUOXA1 |
| -0.21081081 | 0.216319159 | 0.242 | 1 | 116448 | OLIG1 |
| -0.211068198 | 0.215748876 | 0.258 | 1 | 49860 | CRNN |
| -0.211068198 | 0.215748876 | 0.254 | 1 | 55627 | SMPD4 |
| -0.211068198 | 0.215748876 | 0.24 | 1 | 93653 | ST7-AS1 |
| -0.211325601 | 0.215179637 | 0.246 | 1 | 141 | ADPRH |
| -0.211325601 | 0.215179637 | 0.257 | 1 | 401 | PHOX2A |
| -0.211325601 | 0.215179637 | 0.25 | 1 | 54930 | HAUS4 |
| -0.211325601 | 0.215179637 | 0.239 | 1 | 54979 | HRASLS2 |
| -0.211325601 | 0.215179637 | 0.24 | 1 | 79635 | CCDC121 |
| -0.211325601 | 0.215179637 | 0.262 | 1 | 84173 | ELMOD3 |
| -0.211325601 | 0.215179637 | 0.261 | 1 | 84859 | LRCH3 |
| -0.211325601 | 0.215179637 | 0.264 | 1 | 127550 | A3GALT2P |
| -0.211325601 | 0.215179637 | 0.248 | 1 | 256643 | CXorf23 |
| -0.211583003 | 0.214611501 | 0.236 | 1 | 8412 | BCAR3 |
| -0.211583003 | 0.214611501 | 0.252 | 1 | 64231 | MS4A6A |
| -0.211583003 | 0.214611501 | 0.268 | 1 | 164127 | C1orf65 |
| -0.211583003 | 0.214611501 | 0.253 | 1 | 219445 | OR7E5P |
| -0.211583003 | 0.214611501 | 0.251 | 1 | 219793 | C10orf27 |
| -0.211583003 | 0.214611501 | 0.245 | 1 | 388284 | C16orf86 |
| -0.211840406 | 0.214044139 | 0.261 | 1 | 1839 | HBEGF |
| -0.211840406 | 0.214044139 | 0.254 | 1 | 3134 | HLA-F |
| -0.211840406 | 0.214044139 | 0.246 | 1 | 5660 | PSAP |
| -0.211840406 | 0.214044139 | 0.25 | 1 | 7581 | ZNF33A |
| -0.211840406 | 0.214044139 | 0.25 | 1 | 8291 | DYSF |
| -0.211840406 | 0.214044139 | 0.262 | 1 | 11243 | PMF1 |
| -0.211840406 | 0.214044139 | 0.237 | 1 | 22847 | ZNF507 |
| -0.211840406 | 0.214044139 | 0.228 | 1 | 51604 | PIGT |
| -0.211840406 | 0.214044139 | 0.24 | 1 | 55248 | TMEM206 |
| -0.211840406 | 0.214044139 | 0.266 | 1 | 115584 | SLC5A11 |
| -0.211840406 | 0.214044139 | 0.25 | 1 | 140862 | C20orf82 |
| -0.212097809 | 0.213478044 | 0.297 | 1 | 2796 | GNRH1 |
| -0.212097809 | 0.213478044 | 0.249 | 1 | 7923 | HSD17B8 |
| -0.212097809 | 0.213478044 | 0.254 | 1 | 22938 | SNW1 |
| -0.212097809 | 0.213478044 | 0.264 | 1 | 26020 | LRP10 |
| -0.212097809 | 0.213478044 | 0.286 | 1 | 50863 | OPCML |
| -0.212097809 | 0.213478044 | 0.245 | 1 | 60506 | NYX |
| -0.212097809 | 0.213478044 | 0.253 | 1 | 64418 | TMEM168 |
| -0.212355196 | 0.212913007 | 0.282 | 1 | 780 | DDR1 |
| -0.212355196 | 0.212913007 | 0.247 | 1 | 6692 | SPINT1 |
| -0.212355196 | 0.212913007 | 0.246 | 1 | 8382 | NME5 |
| -0.212355196 | 0.212913007 | 0.265 | 1 | 10437 | IFI30 |
| -0.212355196 | 0.212913007 | 0.254 | 1 | 146712 | B3GNTL1 |
| -0.212612599 | 0.212348998 | 0.264 | 1 | 5730 | PTGDS |
| -0.212612599 | 0.212348998 | 0.257 | 1 | 5939 | RBMS2 |
| -0.212612599 | 0.212348998 | 0.268 | 1 | 9586 | CREB5 |
| -0.212612599 | 0.212348998 | 0.237 | 1 | 10061 | ABCF2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.160808131 | < 0.001 | 153 | ADRB1 |
| -0.160829872 | < 0.001 | 1605 | DAG1 |
| -0.16083777 | < 0.001 | 494115 | RBMXL1 |
| -0.160902768 | < 0.001 | 1287 | COL4A5 |
| -0.160954952 | < 0.001 | 84807 | NFKBID |
| -0.160959423 | < 0.001 | 79029 | SPATA5L1 |
| -0.161005482 | < 0.001 | 10536 | LEPREL2 |
| -0.161011055 | < 0.001 | 58476 | TP53INP2 |
| -0.161025912 | < 0.001 | 65110 | UPF3A |
| -0.161123693 | < 0.001 | 51027 | BOLA1 |
| -0.161136046 | < 0.001 | 79801 | SHCBP1 |
| -0.161149696 | < 0.001 | 221692 | PHACTR1 |
| -0.161151737 | < 0.001 | 54512 | EXOSC4 |
| -0.161203012 | < 0.001 | 63898 | SH2D4A |
| -0.16128844 | < 0.001 | 7368 | UGT8 |
| -0.161331624 | < 0.001 | 79567 | FAM65A |
| -0.161375836 | < 0.001 | 8736 | MYOM1 |
| -0.161378056 | < 0.001 | 871 | SERPINH1 |
| -0.161455601 | < 0.001 | 1528 | CYB5A |
| -0.16146563 | < 0.001 | 2219 | FCN1 |
| -0.161473796 | < 0.001 | 7058 | THBS2 |
| -0.16150789 | < 0.001 | 117283 | IP6K3 |
| -0.161667049 | < 0.001 | 340198 | IFITM4P |
| -0.161682189 | < 0.001 | 81609 | SNX27 |
| -0.161698252 | < 0.001 | 57606 | SLAIN2 |
| -0.161718041 | < 0.001 | 84504 | NKX6-2 |
| -0.161728159 | < 0.001 | 6094 | ROM1 |
| -0.161733925 | < 0.001 | 84309 | NUDT16L1 |
| -0.161751464 | < 0.001 | 6303 | SAT1 |
| -0.161775798 | < 0.001 | 5175 | PECAM1 |
| -0.161815181 | < 0.001 | 2034 | EPAS1 |
| -0.161835521 | < 0.001 | 79788 | ZNF665 |
| -0.16184248 | < 0.001 | 348751 | AC073043.2 |
| -0.161945745 | < 0.001 | 9725 | TMEM63A |
| -0.161946401 | < 0.001 | 100008589 | RN28S1 |
| -0.161956698 | < 0.001 | 1839 | HBEGF |
| -0.162081987 | < 0.001 | 7078 | TIMP3 |
| -0.162105098 | < 0.001 | 283860 | LINC00304 |
| -0.162112355 | < 0.001 | 8418 | CMAH |
| -0.162204653 | < 0.001 | 65265 | C8orf33 |
| -0.162253499 | < 0.001 | 79961 | DENND2D |
| -0.162267894 | < 0.001 | 404201 | WDFY3-AS2 |
| -0.162341177 | < 0.001 | 57683 | ZDBF2 |
| -0.162360579 | < 0.001 | 126755 | LRRC38 |
| -0.16243951 | < 0.001 | 4430 | MYO1B |
| -0.162465706 | < 0.001 | 55314 | TMEM144 |
| -0.162600264 | < 0.001 | 25844 | YIPF3 |
| -0.162604913 | < 0.001 | 30817 | EMR2 |
| -0.162678927 | < 0.001 | 4502 | MT2A |
| -0.162691742 | < 0.001 | 23209 | MLC1 |
| -0.162770584 | < 0.001 | 1938 | EEF2 |
| -0.162783206 | < 0.001 | 728806 | NSFP1 |
| -0.162860662 | < 0.001 | 8992 | ATP6V0E1 |
| -0.162882492 | < 0.001 | 100130933 | C17ORF110 |
| -0.162952602 | < 0.001 | 5289 | PIK3C3 |
| -0.16296643 | < 0.001 | 9181 | ARHGEF2 |
| -0.163022712 | < 0.001 | 7726 | TRIM26 |
| -0.163037658 | < 0.001 | 64793 | CCDC21 |
| -0.163096443 | < 0.001 | 93643 | TJAP1 |
| -0.163128853 | < 0.001 | 23187 | PHLDB1 |
| -0.1631556 | < 0.001 | 64422 | ATG3 |
| -0.163181603 | < 0.001 | 152816 | C4orf26 |
| -0.163242534 | < 0.001 | 729096 | RP11-464F9.1 |
| -0.163341343 | < 0.001 | 8520 | HAT1 |
| -0.163342267 | < 0.001 | 57002 | C7orf36 |
| -0.163419068 | < 0.001 | 84957 | RELT |
| -0.163419619 | < 0.001 | 9325 | TRIP4 |
| -0.163458258 | < 0.001 | 9825 | SPATA2 |
| -0.16347535 | < 0.001 | 84327 | ZBED3 |
| -0.163530782 | < 0.001 | 873 | CBR1 |
| -0.163549364 | < 0.001 | 51427 | ZNF588 |
| -0.163592815 | < 0.001 | 79616 | CCNJL |
| -0.163632661 | < 0.001 | 9646 | CTR9 |
| -0.163634047 | < 0.001 | 10399 | GNB2L1 |
| -0.163666829 | < 0.001 | 259295 | TAS2R20 |
| -0.163790345 | < 0.001 | 440465 | AC013356.3 |
| -0.163874105 | < 0.001 | 7130 | TNFAIP6 |
| -0.164112404 | < 0.001 | 3920 | LAMP2 |
| -0.164113984 | < 0.001 | 342926 | ZNF677 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.212612599 | 0.212348998 | 0.224 | 1 | 10561 | IFI44 |
| -0.212612599 | 0.212348998 | 0.253 | 1 | 11068 | CYB561D2 |
| -0.212612599 | 0.212348998 | 0.252 | 1 | 57477 | SHROOM4 |
| -0.212612599 | 0.212348998 | 0.261 | 1 | 64087 | MCCC2 |
| -0.212612599 | 0.212348998 | 0.255 | 1 | 151790 | WDR49 |
| -0.212870002 | 0.211786076 | 0.265 | 1 | 2322 | FLT3 |
| -0.212870002 | 0.211786076 | 0.256 | 1 | 23555 | TSPAN15 |
| -0.212870002 | 0.211786076 | 0.261 | 1 | 51602 | NOP58 |
| -0.212870002 | 0.211786076 | 0.25 | 1 | 100131294 | LOC100131294 |
| -0.213127404 | 0.211223945 | 0.237 | 1 | 1119 | CHKA |
| -0.213127404 | 0.211223945 | 0.256 | 1 | 5876 | RABGGTB |
| -0.213127404 | 0.211223945 | 0.23 | 1 | 8910 | SGCE |
| -0.213127404 | 0.211223945 | 0.239 | 1 | 27309 | ZNF330 |
| -0.213384822 | 0.210663065 | 0.284 | 1 | 5224 | PGAM2 |
| -0.213384822 | 0.210663065 | 0.252 | 1 | 11234 | HPS5 |
| -0.213384822 | 0.210663065 | 0.242 | 1 | 54470 | ARMCX6 |
| -0.213384822 | 0.210663065 | 0.261 | 1 | 79899 | PRR5L |
| -0.213384822 | 0.210663065 | 0.257 | 1 | 81627 | C1orf25 |
| -0.213642225 | 0.210103244 | 0.249 | 1 | 51268 | PIPOX |
| -0.213642225 | 0.210103244 | 0.261 | 1 | 90338 | ZNF160 |
| -0.213899612 | 0.209544495 | 0.242 | 1 | 830 | CAPZA2 |
| -0.213899612 | 0.209544495 | 0.249 | 1 | 2861 | GPR37 |
| -0.213899612 | 0.209544495 | 0.224 | 1 | 26508 | HEYL |
| -0.213899612 | 0.209544495 | 0.266 | 1 | 55825 | PECR |
| -0.213899612 | 0.209544495 | 0.27 | 1 | 285668 | AC094086.1 |
| -0.214157015 | 0.208986476 | 0.244 | 1 | 678655 | AC005840.2 |
| -0.214414418 | 0.208429813 | 0.232 | 1 | 4814 | NINJ1 |
| -0.214414418 | 0.208429813 | 0.248 | 1 | 4939 | OAS2 |
| -0.214414418 | 0.208429813 | 0.243 | 1 | 9662 | CEP135 |
| -0.214414418 | 0.208429813 | 0.254 | 1 | 23187 | PHLDB1 |
| -0.214414418 | 0.208429813 | 0.253 | 1 | 25842 | ASF1A |
| -0.214414418 | 0.208429813 | 0.251 | 1 | 132241 | RPL32P3 |
| -0.214414418 | 0.208429813 | 0.255 | 1 | 254042 | METAP1D |
| -0.21467182 | 0.207874149 | 0.25 | 1 | 5473 | PPBP |
| -0.21467182 | 0.207874149 | 0.24 | 1 | 6753 | SSTR3 |
| -0.21467182 | 0.207874149 | 0.25 | 1 | 285498 | RNF212 |
| -0.214929223 | 0.207319558 | 0.245 | 1 | 9781 | RNF144A |
| -0.214929223 | 0.207319558 | 0.208 | 1 | 51631 | LUC7L2 |
| -0.214929223 | 0.207319558 | 0.223 | 1 | 54620 | FBXL19 |
| -0.214929223 | 0.207319558 | 0.235 | 1 | 57158 | JPH2 |
| -0.214929223 | 0.207319558 | 0.259 | 1 | 58505 | OSTC |
| -0.214929223 | 0.207319558 | 0.246 | 1 | 80135 | RPF1 |
| -0.214929223 | 0.207319558 | 0.255 | 1 | 80233 | C17orf70 |
| -0.214929223 | 0.207319558 | 0.256 | 1 | 653479 | MRPL45P2 |
| -0.215186611 | 0.206765696 | 0.229 | 1 | 825 | CAPN3 |
| -0.215186611 | 0.206765696 | 0.271 | 1 | 2166 | FAAH |
| -0.215186611 | 0.206765696 | 0.246 | 1 | 51201 | ZDHHC2 |
| -0.215186611 | 0.206765696 | 0.29 | 1 | 56928 | SPPL2B |
| -0.215186611 | 0.206765696 | 0.272 | 1 | 57471 | ERMN |
| -0.215444013 | 0.206213161 | 0.247 | 1 | 1203 | CLN5 |
| -0.215444013 | 0.206213161 | 0.25 | 1 | 6882 | TAF11 |
| -0.215444013 | 0.206213161 | 0.241 | 1 | 8611 | PPAP2A |
| -0.215444013 | 0.206213161 | 0.24 | 1 | 25946 | ZNF385A |
| -0.215444013 | 0.206213161 | 0.246 | 1 | 54893 | MTMR10 |
| -0.215444013 | 0.206213161 | 0.248 | 1 | 83641 | FAM107B |
| -0.215444013 | 0.206213161 | 0.25 | 1 | 85569 | GALP |
| -0.215444013 | 0.206213161 | 0.247 | 1 | 116173 | CMTM5 |
| -0.215444013 | 0.206213161 | 0.264 | 1 | 343505 | NBPF7 |
| -0.215701416 | 0.205661684 | 0.226 | 1 | 2705 | GJB1 |
| -0.215701416 | 0.205661684 | 0.227 | 1 | 2908 | NR3C1 |
| -0.215701416 | 0.205661684 | 0.239 | 1 | 3122 | HLA-DRA |
| -0.215701416 | 0.205661684 | 0.242 | 1 | 4815 | NINJ2 |
| -0.215701416 | 0.205661684 | 0.249 | 1 | 10291 | SF3A1 |
| -0.215701416 | 0.205661684 | 0.213 | 1 | 10985 | GCN1L1 |
| -0.215701416 | 0.205661684 | 0.259 | 1 | 90459 | ERI1 |
| -0.215701416 | 0.205661684 | 0.231 | 1 | 147807 | ZNF524 |
| -0.215701416 | 0.205661684 | 0.237 | 1 | 161176 | C14orf49 |
| -0.215701416 | 0.205661684 | 0.258 | 1 | 246778 | IL27 |
| -0.215958819 | 0.205111206 | 0.244 | 1 | 181 | AGRP |
| -0.215958819 | 0.205111206 | 0.252 | 1 | 1992 | SERPINB1 |
| -0.215958819 | 0.205111206 | 0.25 | 1 | 3866 | KRT15 |
| -0.215958819 | 0.205111206 | 0.235 | 1 | 4752 | NEK3 |
| -0.215958819 | 0.205111206 | 0.244 | 1 | 9924 | PAN2 |
| -0.215958819 | 0.205111206 | 0.236 | 1 | 10311 | DSCR3 |
| -0.215958819 | 0.205111206 | 0.227 | 1 | 10352 | WARS2 |
| -0.215958819 | 0.205111206 | 0.255 | 1 | 23198 | PSME4 |
| -0.215958819 | 0.205111206 | 0.244 | 1 | 57545 | CC2D2A |
| -0.215958819 | 0.205111206 | 0.243 | 1 | 83552 | MFRP |
| -0.215958819 | 0.205111206 | 0.257 | 1 | 85315 | PAQR8 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.164165795 | < 0.001 | 729683 | LOC729683 |
| -0.164173514 | < 0.001 | 4172 | MCM3 |
| -0.164227188 | < 0.001 | 5008 | OSM |
| -0.164259881 | < 0.001 | 50651 | SLC45A1 |
| -0.164293587 | < 0.001 | 8940 | TOP3B |
| -0.164433539 | < 0.001 | 5819 | PVRL2 |
| -0.164457768 | < 0.001 | 162972 | ZNF550 |
| -0.164509222 | < 0.001 | 10483 | SEC23B |
| -0.164513588 | < 0.001 | 55330 | CNO |
| -0.164518416 | < 0.001 | 25998 | IBTK |
| -0.164565399 | < 0.001 | 151258 | SLC38A11 |
| -0.164584622 | < 0.001 | 1917 | EEF1A2 |
| -0.164673135 | < 0.001 | 5193 | PEX12 |
| -0.164678797 | < 0.001 | 8291 | DYSF |
| -0.164681122 | < 0.001 | 90665 | TBL1Y |
| -0.164706096 | < 0.001 | 285955 | SPDYE1 |
| -0.164711758 | < 0.001 | 7276 | TTR |
| -0.164726898 | < 0.001 | 9507 | ADAMTS4 |
| -0.164729133 | < 0.001 | 158234 | RG9MTD3 |
| -0.164760515 | < 0.001 | 51362 | CDC40 |
| -0.164816231 | < 0.001 | 55139 | ANKZF1 |
| -0.164825797 | < 0.001 | 79899 | PRR5L |
| -0.164843723 | < 0.001 | 3142 | HLX |
| -0.1648947 | < 0.001 | 79736 | TEFM |
| -0.165011629 | < 0.001 | 116173 | CMTM5 |
| -0.16505982 | < 0.001 | 6786 | STIM1 |
| -0.165090099 | < 0.001 | 4864 | NPC1 |
| -0.165136993 | < 0.001 | 121457 | AC013283.1 |
| -0.165156588 | < 0.001 | 11065 | UBE2C |
| -0.165222064 | < 0.001 | 10419 | PRMT5 |
| -0.165289104 | < 0.001 | 6124 | RPL4 |
| -0.165343255 | < 0.001 | 79009 | DDX50 |
| -0.165349662 | < 0.001 | 83606 | C22orf13 |
| -0.165360615 | < 0.001 | 255403 | ZNF718 |
| -0.165365443 | < 0.001 | 51006 | SLC35C2 |
| -0.165370926 | < 0.001 | 55714 | ODZ3 |
| -0.165371299 | < 0.001 | 442293 | LOC442293 |
| -0.165386245 | < 0.001 | 157310 | PEBP4 |
| -0.165443912 | < 0.001 | 85403 | EAF1 |
| -0.165495649 | < 0.001 | 140432 | RNF113B |
| -0.165521175 | < 0.001 | 23239 | PHLPP1 |
| -0.165630668 | < 0.001 | 9180 | OSMR |
| -0.165655375 | < 0.001 | 55848 | C9orf46 |
| -0.165693909 | < 0.001 | 132228 | C3orf45 |
| -0.165891811 | < 0.001 | 663 | BNIP2 |
| -0.16590853 | < 0.001 | 91614 | DEPDC7 |
| -0.165959224 | < 0.001 | 10750 | GRAP |
| -0.166016161 | < 0.001 | 9586 | CREB5 |
| -0.166081622 | < 0.001 | 283229 | EFCAB4A |
| -0.166109949 | < 0.001 | 644619 | INTS4L2 |
| -0.166141346 | < 0.001 | 5609 | MAP2K7 |
| -0.166143015 | < 0.001 | 10078 | TSSC4 |
| -0.166185454 | < 0.001 | 23015 | GOLGA8A |
| -0.16620709 | < 0.001 | 55721 | IQCC |
| -0.166469246 | < 0.001 | 8733 | GPAA1 |
| -0.166492462 | < 0.001 | 58480 | RHOU |
| -0.166571587 | < 0.001 | 23519 | ANP32D |
| -0.166577339 | < 0.001 | 23493 | HEY2 |
| -0.166584775 | < 0.001 | 253559 | CADM2 |
| -0.166591838 | < 0.001 | 387273 | KRTAP5-10 |
| -0.166608736 | < 0.001 | 283232 | TMEM80 |
| -0.166620061 | < 0.001 | 123 | ADFP |
| -0.166625455 | < 0.001 | 84282 | RNF135 |
| -0.166634649 | < 0.001 | 83860 | TAF3 |
| -0.166641235 | < 0.001 | 55272 | IMP3 |
| -0.166797802 | < 0.001 | 5414 | SEPTIN4 |
| -0.166822597 | < 0.001 | 124245 | ZC3H18 |
| -0.166836157 | < 0.001 | 8622 | PDE8B |
| -0.166867465 | < 0.001 | 9144 | SYNGR2 |
| -0.167006388 | < 0.001 | 94081 | SFXN1 |
| -0.16700685 | < 0.001 | 210 | ALAD |
| -0.167075485 | < 0.001 | 55033 | FKBP14 |
| -0.167156085 | < 0.001 | 80031 | SEMA6D |
| -0.167170942 | < 0.001 | 246777 | SPESP1 |
| -0.167196199 | < 0.001 | 283554 | GPR137C |
| -0.167215526 | < 0.001 | 391 | RHOG |
| -0.167227507 | < 0.001 | 54543 | TOMM7 |
| -0.167241707 | < 0.001 | 23392 | KIAA0368 |
| -0.167246908 | < 0.001 | 56259 | CTNNBL1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.216216221 | 0.2045618 | 0.283 | 1 | 225 | ABCD2 |
| -0.216216221 | 0.2045618 | 0.234 | 1 | 403 | ARL3 |
| -0.216216221 | 0.2045618 | 0.251 | 1 | 871 | SERPINH1 |
| -0.216216221 | 0.2045618 | 0.227 | 1 | 9918 | NCAPD2 |
| -0.216216221 | 0.2045618 | 0.269 | 1 | 26534 | OR10G2 |
| -0.216216221 | 0.2045618 | 0.232 | 1 | 79064 | TMEM223 |
| -0.216216221 | 0.2045618 | 0.245 | 1 | 158586 | ZXDB |
| -0.216216221 | 0.2045618 | 0.241 | 1 | 171017 | ZNF384 |
| -0.216216221 | 0.2045618 | 0.244 | 1 | 200916 | RPL22L1 |
| -0.216216221 | 0.2045618 | 0.224 | 1 | 284348 | LYPD5 |
| -0.216473609 | 0.204013109 | 0.253 | 1 | 230 | ALDOC |
| -0.216473609 | 0.204013109 | 0.251 | 1 | 2192 | FBLN1 |
| -0.216473609 | 0.204013109 | 0.251 | 1 | 4793 | NFKBIB |
| -0.216473609 | 0.204013109 | 0.225 | 1 | 10195 | ALG3 |
| -0.216473609 | 0.204013109 | 0.243 | 1 | 23371 | TENC1 |
| -0.216473609 | 0.204013109 | 0.253 | 1 | 29015 | SLC43A3 |
| -0.216473609 | 0.204013109 | 0.253 | 1 | 54961 | SSH3 |
| -0.216473609 | 0.204013109 | 0.23 | 1 | 79083 | MLPH |
| -0.216473609 | 0.204013109 | 0.232 | 1 | 91404 | SESTD1 |
| -0.216473609 | 0.204013109 | 0.223 | 1 | 92140 | MTDH |
| -0.216731012 | 0.203465775 | 0.24 | 1 | 2635 | GBP3 |
| -0.216731012 | 0.203465775 | 0.236 | 1 | 3772 | KCNJ15 |
| -0.216731012 | 0.203465775 | 0.237 | 1 | 7018 | TF |
| -0.216731012 | 0.203465775 | 0.23 | 1 | 151516 | ASPRV1 |
| -0.216988415 | 0.202919468 | 0.269 | 1 | 7539 | ZFP37 |
| -0.216988415 | 0.202919468 | 0.259 | 1 | 9134 | CCNE2 |
| -0.216988415 | 0.202919468 | 0.233 | 1 | 157739 | TDH |
| -0.217245817 | 0.202374175 | 0.236 | 1 | 991 | CDC20 |
| -0.217245817 | 0.202374175 | 0.271 | 1 | 6238 | RRBP1 |
| -0.217245817 | 0.202374175 | 0.232 | 1 | 10397 | NDRG1 |
| -0.217245817 | 0.202374175 | 0.247 | 1 | 23557 | SNAPIN |
| -0.217245817 | 0.202374175 | 0.261 | 1 | 54414 | SIAE |
| -0.217245817 | 0.202374175 | 0.245 | 1 | 54941 | RNF125 |
| -0.217245817 | 0.202374175 | 0.254 | 1 | 64421 | DCLRE1C |
| -0.217245817 | 0.202374175 | 0.243 | 1 | 126668 | TDRD10 |
| -0.217245817 | 0.202374175 | 0.235 | 1 | 203190 | LGI3 |
| -0.217245817 | 0.202374175 | 0.224 | 1 | 388962 | BOLA3 |
| -0.21750322 | 0.201829627 | 0.239 | 1 | 1793 | DOCK1 |
| -0.21750322 | 0.201829627 | 0.227 | 1 | 5078 | PAX4 |
| -0.21750322 | 0.201829627 | 0.231 | 1 | 8309 | ACOX2 |
| -0.21750322 | 0.201829627 | 0.229 | 1 | 8605 | PLA2G4C |
| -0.21750322 | 0.201829627 | 0.239 | 1 | 10677 | AVIL |
| -0.21750322 | 0.201829627 | 0.234 | 1 | 10816 | SPINT3 |
| -0.21750322 | 0.201829627 | 0.256 | 1 | 24147 | FJX1 |
| -0.21750322 | 0.201829627 | 0.219 | 1 | 29923 | C7orf68 |
| -0.21750322 | 0.201829627 | 0.246 | 1 | 54796 | BNC2 |
| -0.21750322 | 0.201829627 | 0.233 | 1 | 55255 | WDR41 |
| -0.21750322 | 0.201829627 | 0.251 | 1 | 80820 | EEPD1 |
| -0.21750322 | 0.201829627 | 0.249 | 1 | 84844 | PHF5A |
| -0.21750322 | 0.201829627 | 0.24 | 1 | 140766 | ADAMTS14 |
| -0.217760608 | 0.20128642 | 0.214 | 1 | 3113 | HLA-DPA1 |
| -0.217760608 | 0.20128642 | 0.23 | 1 | 5873 | RAB27A |
| -0.217760608 | 0.20128642 | 0.247 | 1 | 51101 | ZC2HC1A |
| -0.217760608 | 0.20128642 | 0.219 | 1 | 80829 | ZFP91 |
| -0.217760608 | 0.20128642 | 0.206 | 1 | 84245 | MRI1 |
| -0.217760608 | 0.20128642 | 0.249 | 1 | 333932 | HIST2H3A |
| -0.217760608 | 0.20128642 | 0.246 | 1 | 729732 | LOC729732 |
| -0.21801801 | 0.200744227 | 0.244 | 1 | 26269 | FBXO8 |
| -0.21801801 | 0.200744227 | 0.257 | 1 | 51444 | RNF138 |
| -0.21801801 | 0.200744227 | 0.243 | 1 | 84681 | HINT2 |
| -0.21801801 | 0.200744227 | 0.262 | 1 | 113763 | C7orf29 |
| -0.21801801 | 0.200744227 | 0.228 | 1 | 114224 | PRO2852 |
| -0.218275413 | 0.200203106 | 0.258 | 1 | 6387 | CXCL12 |
| -0.218275413 | 0.200203106 | 0.217 | 1 | 27235 | COQ2 |
| -0.218275413 | 0.200203106 | 0.237 | 1 | 55159 | RFWD3 |
| -0.218275413 | 0.200203106 | 0.254 | 1 | 57209 | ZNF248 |
| -0.218275413 | 0.200203106 | 0.233 | 1 | 57609 | DIP2B |
| -0.218275413 | 0.200203106 | 0.24 | 1 | 85285 | KRTAP4-1 |
| -0.218275413 | 0.200203106 | 0.242 | 1 | 126820 | WDR63 |
| -0.218275413 | 0.200203106 | 0.23 | 1 | 653464 | SRGAP2C |
| -0.218532816 | 0.199662685 | 0.23 | 1 | 2592 | GALT |
| -0.218532816 | 0.199662685 | 0.245 | 1 | 5676 | PSG7 |
| -0.218532816 | 0.199662685 | 0.238 | 1 | 8482 | SEMA7A |
| -0.218532816 | 0.199662685 | 0.245 | 1 | 10630 | PDPN |
| -0.218532816 | 0.199662685 | 0.247 | 1 | 29117 | BRD7 |
| -0.218532816 | 0.199662685 | 0.22 | 1 | 80005 | DOCK5 |
| -0.218532816 | 0.199662685 | 0.26 | 1 | 728724 | RP11-1057N3.1 |
| -0.218790218 | 0.199123591 | 0.246 | 1 | 5286 | PIK3C2A |
| -0.218790218 | 0.199123591 | 0.226 | 1 | 6776 | STAT5A |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.167257771 | < 0.001 | 3732 | CD82 |
| -0.167292967 | < 0.001 | 79973 | ZNF442 |
| -0.167362347 | < 0.001 | 307 | ANXA4 |
| -0.167374134 | < 0.001 | 51108 | METTL9 |
| -0.167412579 | < 0.001 | 9940 | DLEC1 |
| -0.167449549 | < 0.001 | 5526 | PPP2R5B |
| -0.167544737 | < 0.001 | 1111 | CHEK1 |
| -0.167551979 | < 0.001 | 114805 | GALNT13 |
| -0.167559773 | < 0.001 | 79228 | THOC6 |
| -0.167560145 | < 0.001 | 23556 | PIGN |
| -0.167634904 | < 0.001 | 23091 | ZC3H13 |
| -0.167654037 | < 0.001 | 117248 | GALNTL2 |
| -0.167744115 | < 0.001 | 644135 | RP13-143G15.3 |
| -0.167794079 | < 0.001 | 201161 | CENPV |
| -0.167796671 | < 0.001 | 94239 | H2AFV |
| -0.167853042 | < 0.001 | 57555 | NLGN2 |
| -0.16797182 | < 0.001 | 2831 | NPBWR1 |
| -0.167975351 | < 0.001 | 27107 | ZBTB11 |
| -0.168000609 | < 0.001 | 285550 | FAM200B |
| -0.168043137 | < 0.001 | 64110 | MAGEF1 |
| -0.168059483 | < 0.001 | 90649 | ZNF486 |
| -0.168070912 | < 0.001 | 9815 | GIT2 |
| -0.168081954 | < 0.001 | 284723 | SLC25A34 |
| -0.168086424 | < 0.001 | 11098 | AP000654.2 |
| -0.168110937 | < 0.001 | 10763 | NES |
| -0.168176129 | < 0.001 | 6856 | SYPL1 |
| -0.168184012 | < 0.001 | 7249 | TSC2 |
| -0.168228403 | < 0.001 | 255520 | ELMOD2 |
| -0.168315053 | < 0.001 | 6210 | RPS15A |
| -0.168419808 | < 0.001 | 4700 | NDUFA6 |
| -0.168473482 | < 0.001 | 51061 | TXNDC11 |
| -0.168475986 | < 0.001 | 246184 | CDC26 |
| -0.168576106 | < 0.001 | 56898 | BDH2 |
| -0.168631077 | < 0.001 | 57146 | TMEM159 |
| -0.168640077 | < 0.001 | 55624 | POMGNT1 |
| -0.168644443 | < 0.001 | 399948 | C11orf92 |
| -0.168654382 | < 0.001 | 1723 | DHODH |
| -0.1686984 | < 0.001 | 84336 | TMEM101 |
| -0.168719947 | < 0.001 | 5338 | PLD2 |
| -0.168740377 | < 0.001 | 54964 | C1orf56 |
| -0.168743446 | < 0.001 | 26048 | ZNF500 |
| -0.168748453 | < 0.001 | 51531 | C9orf156 |
| -0.168775767 | < 0.001 | 51659 | GINS2 |
| -0.168822661 | < 0.001 | 84976 | DISP1 |
| -0.168856829 | < 0.001 | 283651 | HMGN2P46 |
| -0.168873265 | < 0.001 | 51747 | AC005921.3 |
| -0.168878376 | < 0.001 | 79903 | NAT15 |
| -0.168883294 | < 0.001 | 10283 | SDCCAG10 |
| -0.168896392 | < 0.001 | 2172 | FABP6 |
| -0.168897972 | < 0.001 | 23347 | AP001011.3 |
| -0.168915436 | < 0.001 | 54552 | GNL3L |
| -0.168923691 | < 0.001 | 54838 | C10orf26 |
| -0.168974221 | < 0.001 | 5311 | PKD2 |
| -0.169099495 | < 0.001 | 5147 | PDE6D |
| -0.16921781 | < 0.001 | 10278 | EFS |
| -0.169405669 | < 0.001 | 79685 | SAP30L |
| -0.169419885 | < 0.001 | 1793 | DOCK1 |
| -0.169436693 | < 0.001 | 387082 | SUMO4 |
| -0.169519067 | < 0.001 | 4126 | MANBA |
| -0.169532806 | < 0.001 | 10578 | GNLY |
| -0.169573754 | < 0.001 | 150356 | CHADL |
| -0.169650093 | < 0.001 | 100190939 | XXyac-R12DG2.1 |
| -0.169664204 | < 0.001 | 729495 | FAM108A5P |
| -0.169719741 | < 0.001 | 81576 | CCDC130 |
| -0.16974844 | < 0.001 | 85395 | C21orf70 |
| -0.169751406 | < 0.001 | 79090 | TRAPPC6A |
| -0.169799894 | < 0.001 | 1850 | DUSP8 |
| -0.169816136 | < 0.001 | 127003 | C1orf194 |
| -0.169885606 | < 0.001 | 10514 | MYBBP1A |
| -0.169919401 | < 0.001 | 6238 | RRBP1 |
| -0.169938356 | < 0.001 | 4642 | MYO1D |
| -0.169939458 | < 0.001 | 53335 | BCL11A |
| -0.169983581 | < 0.001 | 51547 | SIRT7 |
| -0.170098737 | < 0.001 | 57572 | DOCK6 |
| -0.17009984 | < 0.001 | 145200 | LINC00239 |
| -0.170107827 | < 0.001 | 5829 | PXN |
| -0.170170605 | < 0.001 | 1937 | EEF1G |
| -0.170211196 | < 0.001 | 100131294 | LOC100131294 |
| -0.170237005 | < 0.001 | 8021 | NUP214 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.218790218 | 0.199123591 | 0.256 | 1 | 54899 | PXK |
| -0.218790218 | 0.199123591 | 0.229 | 1 | 340198 | IFITM4P |
| -0.218790218 | 0.199123591 | 0.248 | 1 | 399947 | C11orf87 |
| -0.218790218 | 0.199123591 | 0.241 | 1 | 439916 | C12orf37 |
| -0.219047606 | 0.198585495 | 0.258 | 1 | 1545 | CYP1B1 |
| -0.219047606 | 0.198585495 | 0.237 | 1 | 3698 | ITIH2 |
| -0.219047606 | 0.198585495 | 0.251 | 1 | 6511 | SLC1A6 |
| -0.219047606 | 0.198585495 | 0.247 | 1 | 6887 | TAL2 |
| -0.219047606 | 0.198585495 | 0.253 | 1 | 7700 | ZNF141 |
| -0.219047606 | 0.198585495 | 0.219 | 1 | 10794 | ZNF460 |
| -0.219047606 | 0.198585495 | 0.256 | 1 | 29969 | MDFIC |
| -0.219047606 | 0.198585495 | 0.209 | 1 | 84985 | FAM83A |
| -0.219047606 | 0.198585495 | 0.242 | 1 | 643854 | RP5-988G15.1 |
| -0.219305009 | 0.198048443 | 0.248 | 1 | 332 | BIRC5 |
| -0.219305009 | 0.198048443 | 0.238 | 1 | 1737 | DLAT |
| -0.219305009 | 0.198048443 | 0.253 | 1 | 3276 | PRMT1 |
| -0.219305009 | 0.198048443 | 0.239 | 1 | 8842 | PROM1 |
| -0.219305009 | 0.198048443 | 0.255 | 1 | 84166 | NLRC5 |
| -0.219305009 | 0.198048443 | 0.235 | 1 | 84817 | TXNDC17 |
| -0.219305009 | 0.198048443 | 0.231 | 1 | 85481 | PSKH2 |
| -0.219305009 | 0.198048443 | 0.291 | 1 | 341947 | COX8C |
| -0.219562411 | 0.197512463 | 0.238 | 1 | 2335 | FN1 |
| -0.219562411 | 0.197512463 | 0.225 | 1 | 29902 | C12orf24 |
| -0.219562411 | 0.197512463 | 0.233 | 1 | 55846 | ITFG2 |
| -0.219562411 | 0.197512463 | 0.238 | 1 | 80312 | TET1 |
| -0.219562411 | 0.197512463 | 0.247 | 1 | 83543 | AIF1L |
| -0.219562411 | 0.197512463 | 0.231 | 1 | 140258 | KRTAP13-1 |
| -0.219562411 | 0.197512463 | 0.223 | 1 | 145270 | PRIMA1 |
| -0.219562411 | 0.197512463 | 0.248 | 1 | 146050 | ZSCAN29 |
| -0.219562411 | 0.197512463 | 0.22 | 1 | 254958 | REXO1L1 |
| -0.219562411 | 0.197512463 | 0.231 | 1 | 574036 | C1orf133 |
| -0.219819814 | 0.196977213 | 0.234 | 1 | 1639 | DCTN1 |
| -0.219819814 | 0.196977213 | 0.231 | 1 | 5150 | PDE7A |
| -0.219819814 | 0.196977213 | 0.232 | 1 | 7294 | TXK |
| -0.219819814 | 0.196977213 | 0.221 | 1 | 8227 | SFRS17A |
| -0.219819814 | 0.196977213 | 0.216 | 1 | 8322 | FZD4 |
| -0.219819814 | 0.196977213 | 0.204 | 1 | 10983 | CCNI |
| -0.219819814 | 0.196977213 | 0.235 | 1 | 28973 | MRPS18B |
| -0.219819814 | 0.196977213 | 0.229 | 1 | 28999 | KLF15 |
| -0.219819814 | 0.196977213 | 0.23 | 1 | 646791 | ANP32BP1 |
| -0.220077217 | 0.19644323 | 0.232 | 1 | 6911 | TBX6 |
| -0.220077217 | 0.19644323 | 0.248 | 1 | 25976 | TIPARP |
| -0.220077217 | 0.19644323 | 0.249 | 1 | 245802 | MS4A6E |
| -0.220077217 | 0.19644323 | 0.227 | 1 | 256435 | ST6GALNAC3 |
| -0.220334619 | 0.195910275 | 0.238 | 1 | 9869 | SETDB1 |
| -0.220334619 | 0.195910275 | 0.242 | 1 | 100132977 | LOC100132977 |
| -0.220592022 | 0.195378348 | 0.263 | 1 | 275 | AMT |
| -0.220592022 | 0.195378348 | 0.23 | 1 | 6570 | SLC18A1 |
| -0.220592022 | 0.195378348 | 0.237 | 1 | 7536 | SF1 |
| -0.220592022 | 0.195378348 | 0.249 | 1 | 57571 | ATPGD1 |
| -0.220592022 | 0.195378348 | 0.228 | 1 | 100129138 | RP11-364B6.1 |
| -0.220849425 | 0.194847226 | 0.218 | 1 | 1856 | DVL2 |
| -0.220849425 | 0.194847226 | 0.228 | 1 | 3363 | HTR7 |
| -0.220849425 | 0.194847226 | 0.243 | 1 | 7852 | CXCR4 |
| -0.220849425 | 0.194847226 | 0.226 | 1 | 54462 | KIAA1128 |
| -0.220849425 | 0.194847226 | 0.246 | 1 | 79738 | BBS10 |
| -0.221106827 | 0.194317386 | 0.213 | 1 | 3106 | HLA-B |
| -0.221106827 | 0.194317386 | 0.234 | 1 | 3746 | KCNC1 |
| -0.221106827 | 0.194317386 | 0.229 | 1 | 9725 | TMEM63A |
| -0.221106827 | 0.194317386 | 0.246 | 1 | 23318 | ZCCHC11 |
| -0.221106827 | 0.194317386 | 0.212 | 1 | 55344 | PLCXD1 |
| -0.22136423 | 0.193788514 | 0.231 | 1 | 3115 | HLA-DPB1 |
| -0.22136423 | 0.193788514 | 0.229 | 1 | 4069 | LYZ |
| -0.22136423 | 0.193788514 | 0.239 | 1 | 7007 | TECTA |
| -0.22136423 | 0.193788514 | 0.235 | 1 | 7517 | XRCC3 |
| -0.22136423 | 0.193788514 | 0.226 | 1 | 8153 | RND2 |
| -0.22136423 | 0.193788514 | 0.249 | 1 | 23559 | WBP1 |
| -0.22136423 | 0.193788514 | 0.223 | 1 | 80347 | COASY |
| -0.22136423 | 0.193788514 | 0.246 | 1 | 83903 | GSG2 |
| -0.221621618 | 0.193260685 | 0.236 | 1 | 3705 | ITPK1 |
| -0.221621618 | 0.193260685 | 0.225 | 1 | 5081 | PAX7 |
| -0.221621618 | 0.193260685 | 0.233 | 1 | 7728 | ZNF175 |
| -0.221621618 | 0.193260685 | 0.264 | 1 | 8349 | HIST2H2BE |
| -0.221621618 | 0.193260685 | 0.215 | 1 | 10066 | SCAMP2 |
| -0.221621618 | 0.193260685 | 0.243 | 1 | 11123 | RCAN3 |
| -0.221621618 | 0.193260685 | 0.239 | 1 | 161357 | MDGA2 |
| -0.221621618 | 0.193260685 | 0.233 | 1 | 340745 | LRIT2 |
| -0.221621618 | 0.193260685 | 0.228 | 1 | 442421 | PTGER4P2 |
| -0.22187902 | 0.192733631 | 0.25 | 1 | 956 | ENTPD3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.170262173 | < 0.001 | 92922 | CCDC102A |
| -0.17028743 | < 0.001 | 26005 | C2CD3 |
| -0.170301825 | < 0.001 | 80975 | TMPRSS5 |
| -0.170353085 | < 0.001 | 11141 | IL1RAPL1 |
| -0.170439079 | < 0.001 | 57695 | USP37 |
| -0.170471311 | < 0.001 | 43 | ACHE |
| -0.170472607 | < 0.001 | 100288165 | HMGN2P15 |
| -0.170530841 | < 0.001 | 4118 | MAL |
| -0.170566037 | < 0.001 | 1306 | COL15A1 |
| -0.170576334 | < 0.001 | 1607 | DGKB |
| -0.17059584 | < 0.001 | 10743 | RAI1 |
| -0.170642644 | < 0.001 | 100192378 | RP11-65D13.1 |
| -0.170682028 | < 0.001 | 2705 | GJB1 |
| -0.170694739 | < 0.001 | 51710 | ZNF44 |
| -0.170757428 | < 0.001 | 10849 | CD3EAP |
| -0.170766905 | < 0.001 | 23132 | RAD54L2 |
| -0.170798019 | < 0.001 | 58486 | ZBED5 |
| -0.17091994 | < 0.001 | 9516 | LITAF |
| -0.171007425 | < 0.001 | 3150 | HMGN1 |
| -0.171048284 | < 0.001 | 5502 | PPP1R1A |
| -0.171090081 | < 0.001 | 25880 | TMEM186 |
| -0.171092212 | < 0.001 | 729993 | AC092324.1 |
| -0.171248227 | < 0.001 | 440556 | RP1-163G9.1 |
| -0.171249151 | < 0.001 | 374354 | NHLRC2 |
| -0.171294108 | < 0.001 | 1465 | CSRP1 |
| -0.171363562 | < 0.001 | 6228 | RPS23 |
| -0.171394765 | < 0.001 | 7444 | VRK2 |
| -0.171470448 | < 0.001 | 55861 | DBNDD2 |
| -0.171489954 | < 0.001 | 6193 | RPS5 |
| -0.171511501 | < 0.001 | 645811 | CCDC154 |
| -0.171515584 | < 0.001 | 729973 | LOC729973 |
| -0.171526268 | < 0.001 | 643155 | C5orf43 |
| -0.171595544 | < 0.001 | 2968 | GTF2H4 |
| -0.171622843 | < 0.001 | 57062 | DDX24 |
| -0.171661019 | < 0.001 | 347746 | PAR-SN |
| -0.171670675 | < 0.001 | 219995 | MS4A15 |
| -0.171689063 | < 0.001 | 84657 | GHRLOS2 |
| -0.171702802 | < 0.001 | 252983 | STXBP4 |
| -0.171706885 | < 0.001 | 83743 | GRWD1 |
| -0.171720356 | < 0.001 | 8912 | CACNA1H |
| -0.171724066 | < 0.001 | 100310812 | RP11-577H5.2 |
| -0.171735585 | < 0.001 | 3700 | ITIH4 |
| -0.17174153 | < 0.001 | 81857 | MED25 |
| -0.171747848 | < 0.001 | 5876 | RABGGTB |
| -0.17176187 | < 0.001 | 6274 | S100A3 |
| -0.171789721 | < 0.001 | 90390 | MED30 |
| -0.171867833 | < 0.001 | 199857 | ALG14 |
| -0.171921417 | < 0.001 | 84440 | RAB11FIP4 |
| -0.171930984 | < 0.001 | 84945 | ABHD13 |
| -0.171953455 | < 0.001 | 163059 | ZNF433 |
| -0.171971843 | < 0.001 | 5909 | RAP1GAP |
| -0.172002017 | < 0.001 | 6125 | RPL5 |
| -0.172028676 | < 0.001 | 51065 | RPS27L |
| -0.172029972 | < 0.001 | 563 | AZGP1 |
| -0.172068045 | < 0.001 | 25962 | KIAA1429 |
| -0.172141314 | < 0.001 | 57699 | CPNE5 |
| -0.172197595 | < 0.001 | 5906 | RAP1A |
| -0.172227502 | < 0.001 | 1770 | DNAH9 |
| -0.172242537 | < 0.001 | 389170 | AC117392.3 |
| -0.172328264 | < 0.001 | 79673 | ZNF329 |
| -0.172342002 | < 0.001 | 130557 | ZNF513 |
| -0.172524944 | < 0.001 | 1477 | CSTF1 |
| -0.172531351 | < 0.001 | 22847 | ZNF507 |
| -0.172547325 | < 0.001 | 644563 | LOC644563 |
| -0.172584191 | < 0.001 | 3077 | HFE |
| -0.172594696 | < 0.001 | 55677 | IWS1 |
| -0.172612891 | < 0.001 | 7157 | TP53 |
| -0.172706127 | < 0.001 | 10521 | DDX17 |
| -0.172741517 | < 0.001 | 3623 | INHA |
| -0.172743931 | < 0.001 | 79073 | TMEM109 |
| -0.172749773 | < 0.001 | 7043 | TGFB3 |
| -0.172802612 | < 0.001 | 85407 | NKD1 |
| -0.172849327 | < 0.001 | 641518 | AC097067.1 |
| -0.17287375 | < 0.001 | 84219 | WDR24 |
| -0.172893628 | < 0.001 | 79137 | FAM134A |
| -0.172920555 | < 0.001 | 51703 | ACSL5 |
| -0.172957703 | < 0.001 | 255189 | PLA2G4F |
| -0.172997549 | < 0.001 | 4001 | LMNB1 |
| -0.173004419 | < 0.001 | 3178 | HNRNPA1P2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.22187902 | 0.192733631 | 0.227 | 1 | 6282 | S100A11 |
| -0.22187902 | 0.192733631 | 0.212 | 1 | 10215 | OLIG2 |
| -0.22187902 | 0.192733631 | 0.235 | 1 | 27295 | PDLIM3 |
| -0.22187902 | 0.192733631 | 0.22 | 1 | 60494 | CCDC81 |
| -0.22187902 | 0.192733631 | 0.236 | 1 | 84987 | C12orf62 |
| -0.22187902 | 0.192733631 | 0.219 | 1 | 123904 | NRN1L |
| -0.222136423 | 0.192207888 | 0.239 | 1 | 4176 | MCM7 |
| -0.222136423 | 0.192207888 | 0.244 | 1 | 8403 | SOX14 |
| -0.222136423 | 0.192207888 | 0.215 | 1 | 8615 | USO1 |
| -0.222136423 | 0.192207888 | 0.232 | 1 | 10020 | GNE |
| -0.222136423 | 0.192207888 | 0.204 | 1 | 10807 | SDCCAG3 |
| -0.222393826 | 0.191683114 | 0.209 | 1 | 3013 | HIST1H2AD |
| -0.222393826 | 0.191683114 | 0.22 | 1 | 9088 | PKMYT1 |
| -0.222393826 | 0.191683114 | 0.226 | 1 | 23328 | SASH1 |
| -0.222393826 | 0.191683114 | 0.227 | 1 | 51012 | SLMO2 |
| -0.222393826 | 0.191683114 | 0.246 | 1 | 389170 | AC117392.3 |
| -0.222651228 | 0.191159353 | 0.218 | 1 | 7586 | ZKSCAN1 |
| -0.222651228 | 0.191159353 | 0.242 | 1 | 10210 | TOPORS |
| -0.222651228 | 0.191159353 | 0.246 | 1 | 11132 | CAPN10 |
| -0.222651228 | 0.191159353 | 0.243 | 1 | 55032 | SLC35A5 |
| -0.222651228 | 0.191159353 | 0.238 | 1 | 55314 | TMEM144 |
| -0.222651228 | 0.191159353 | 0.222 | 1 | 57488 | ESYT2 |
| -0.222651228 | 0.191159353 | 0.223 | 1 | 79818 | AC010645.1 |
| -0.222651228 | 0.191159353 | 0.213 | 1 | 84504 | NKX6-2 |
| -0.222651228 | 0.191159353 | 0.24 | 1 | 389033 | AC079776.2 |
| -0.222908616 | 0.19063662 | 0.216 | 1 | 6389 | SDHA |
| -0.222908616 | 0.19063662 | 0.205 | 1 | 9554 | SEC22B |
| -0.222908616 | 0.19063662 | 0.241 | 1 | 11149 | BVES |
| -0.222908616 | 0.19063662 | 0.225 | 1 | 29920 | PYCR2 |
| -0.222908616 | 0.19063662 | 0.203 | 1 | 64072 | CDH23 |
| -0.222908616 | 0.19063662 | 0.224 | 1 | 116461 | TSEN15 |
| -0.222908616 | 0.19063662 | 0.215 | 1 | 284695 | ZNF326 |
| -0.223166019 | 0.190114662 | 0.266 | 1 | 2326 | FMO1 |
| -0.223166019 | 0.190114662 | 0.227 | 1 | 2702 | GJA5 |
| -0.223166019 | 0.190114662 | 0.228 | 1 | 2954 | GSTZ1 |
| -0.223166019 | 0.190114662 | 0.213 | 1 | 3351 | HTR1B |
| -0.223166019 | 0.190114662 | 0.239 | 1 | 4821 | NKX2-2 |
| -0.223166019 | 0.190114662 | 0.221 | 1 | 8476 | CDC42BPA |
| -0.223166019 | 0.190114662 | 0.226 | 1 | 55266 | TMEM19 |
| -0.223166019 | 0.190114662 | 0.221 | 1 | 79152 | FA2H |
| -0.223166019 | 0.190114662 | 0.21 | 1 | 155370 | SBDSP1 |
| -0.223166019 | 0.190114662 | 0.207 | 1 | 283446 | MYO1H |
| -0.223166019 | 0.190114662 | 0.235 | 1 | 388796 | RP4-564F22.1 |
| -0.223166019 | 0.190114662 | 0.242 | 1 | 100133091 | AC004980.7 |
| -0.223423421 | 0.189594015 | 0.221 | 1 | 4055 | LTBR |
| -0.223423421 | 0.189594015 | 0.249 | 1 | 6663 | SOX10 |
| -0.223423421 | 0.189594015 | 0.224 | 1 | 10049 | DNAJB6 |
| -0.223423421 | 0.189594015 | 0.227 | 1 | 54058 | C21orf58 |
| -0.223423421 | 0.189594015 | 0.219 | 1 | 79670 | ZCCHC6 |
| -0.223423421 | 0.189594015 | 0.233 | 1 | 219287 | FAM123A |
| -0.223423421 | 0.189594015 | 0.215 | 1 | 339352 | LOC339352 |
| -0.223423421 | 0.189594015 | 0.216 | 1 | 642658 | SCXB |
| -0.223423421 | 0.189594015 | 0.222 | 1 | 646567 | OSTCP2 |
| -0.223680824 | 0.189074323 | 0.223 | 1 | 2122 | EVI1 |
| -0.223680824 | 0.189074323 | 0.214 | 1 | 7351 | UCP2 |
| -0.223680824 | 0.189074323 | 0.228 | 1 | 8826 | IQGAP1 |
| -0.223680824 | 0.189074323 | 0.233 | 1 | 9175 | MAP3K13 |
| -0.223680824 | 0.189074323 | 0.242 | 1 | 9592 | IER2 |
| -0.223680824 | 0.189074323 | 0.256 | 1 | 54209 | TREM2 |
| -0.223680824 | 0.189074323 | 0.23 | 1 | 84282 | RNF135 |
| -0.223680824 | 0.189074323 | 0.236 | 1 | 90861 | HN1L |
| -0.223938227 | 0.188555643 | 0.21 | 1 | 2346 | FOLH1 |
| -0.223938227 | 0.188555643 | 0.224 | 1 | 3459 | IFNGR1 |
| -0.223938227 | 0.188555643 | 0.226 | 1 | 22997 | RP11-259P6.1 |
| -0.223938227 | 0.188555643 | 0.224 | 1 | 25937 | WWTR1 |
| -0.223938227 | 0.188555643 | 0.228 | 1 | 55829 | AC023024.1 |
| -0.223938227 | 0.188555643 | 0.218 | 1 | 84229 | CCDC135 |
| -0.223938227 | 0.188555643 | 0.234 | 1 | 400013 | TCP1P3 |
| -0.224195614 | 0.188037768 | 0.209 | 1 | 824 | CAPN2 |
| -0.224195614 | 0.188037768 | 0.23 | 1 | 1633 | DCK |
| -0.224195614 | 0.188037768 | 0.224 | 1 | 10392 | NOD1 |
| -0.224195614 | 0.188037768 | 0.204 | 1 | 151636 | DTX3L |
| -0.224195614 | 0.188037768 | 0.219 | 1 | 386678 | KRTAP10-11 |
| -0.224453017 | 0.1875211 | 0.234 | 1 | 571 | BACH1 |
| -0.224453017 | 0.1875211 | 0.228 | 1 | 1149 | CIDEA |
| -0.224453017 | 0.1875211 | 0.212 | 1 | 645317 | CHCHD2P6 |
| -0.22471042 | 0.187005535 | 0.212 | 1 | 6010 | RHO |
| -0.22471042 | 0.187005535 | 0.242 | 1 | 8345 | HIST1H2BH |
| -0.22471042 | 0.187005535 | 0.228 | 1 | 64108 | RTP4 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.173010632 | < 0.001 | 7700 | ZNF141 |
| -0.173018351 | < 0.001 | 6165 | RPL35A |
| -0.173058644 | < 0.001 | 85449 | KIAA1755 |
| -0.173122257 | < 0.001 | 28971 | C11orf67 |
| -0.173261926 | < 0.001 | 29117 | BRD7 |
| -0.173265547 | < 0.001 | 54951 | COMMD8 |
| -0.173274651 | < 0.001 | 64425 | POLR1E |
| -0.173288584 | < 0.001 | 51616 | TAF9B |
| -0.173431128 | < 0.001 | 55904 | MLL5 |
| -0.173436806 | < 0.001 | 23327 | NEDD4L |
| -0.17349948 | < 0.001 | 79892 | C10orf119 |
| -0.173562169 | < 0.001 | 590 | BCHE |
| -0.173588723 | < 0.001 | 3026 | HABP2 |
| -0.173627362 | < 0.001 | 760 | CA2 |
| -0.173645377 | < 0.001 | 376693 | RPS10P7 |
| -0.173673972 | < 0.001 | 5168 | ENPP2 |
| -0.173676014 | < 0.001 | 11322 | TMC6 |
| -0.173712701 | < 0.001 | 5454 | POU3F2 |
| -0.17372933 | < 0.001 | 10588 | MTHFS |
| -0.173750132 | < 0.001 | 7732 | RNF112 |
| -0.173787653 | < 0.001 | 253982 | ASPHD1 |
| -0.173792109 | < 0.001 | 51435 | SCARA3 |
| -0.17381151 | < 0.001 | 116369 | SLC26A8 |
| -0.173828781 | < 0.001 | 26508 | HEYL |
| -0.173831671 | < 0.001 | 647087 | C7orf73 |
| -0.173885152 | < 0.001 | 26585 | GREM1 |
| -0.173888311 | < 0.001 | 1522 | CTSZ |
| -0.173896953 | < 0.001 | 348938 | NIPAL4 |
| -0.173932791 | < 0.001 | 23126 | POGZ |
| -0.173959628 | < 0.001 | 5927 | KDM5A |
| -0.174019441 | < 0.001 | 8557 | TCAP |
| -0.174101159 | < 0.001 | 220963 | SLC16A9 |
| -0.174116209 | < 0.001 | 8187 | ZNF239 |
| -0.174136639 | < 0.001 | 51320 | MEX3C |
| -0.174167007 | < 0.001 | 197407 | ZNF48 |
| -0.174239442 | < 0.001 | 157922 | CAMSAP1 |
| -0.174247891 | < 0.001 | 11102 | RPP14 |
| -0.174336299 | < 0.001 | 2109 | ETFB |
| -0.174376503 | < 0.001 | 220988 | HNRNPA3 |
| -0.174398422 | < 0.001 | 2047 | EPHB1 |
| -0.174458697 | < 0.001 | 115209 | OMA1 |
| -0.174485162 | < 0.001 | 84294 | UTP23 |
| -0.174559727 | < 0.001 | 51374 | C2orf28 |
| -0.174585924 | < 0.001 | 57571 | ATPGD1 |
| -0.174603388 | < 0.001 | 6050 | RNH1 |
| -0.174628451 | < 0.001 | 7507 | XPA |
| -0.174721047 | < 0.001 | 2123 | EVI2A |
| -0.174841866 | < 0.001 | 6144 | RPL21 |
| -0.174849287 | < 0.001 | 1992 | SERPINB1 |
| -0.174870834 | < 0.001 | 2944 | GSTM1 |
| -0.174900457 | < 0.001 | 54893 | MTMR10 |
| -0.174910769 | < 0.001 | 4815 | NINJ2 |
| -0.174918935 | < 0.001 | 283131 | NEAT1 |
| -0.175030008 | < 0.001 | 57700 | FAM160B1 |
| -0.175184727 | < 0.001 | 123283 | TARSL2 |
| -0.175201625 | < 0.001 | 23020 | SNRNP200 |
| -0.175341383 | < 0.001 | 100129917 | RP11-440L14.1 |
| -0.17535077 | < 0.001 | 115361 | GBP4 |
| -0.175402582 | < 0.001 | 24137 | KIF4A |
| -0.17543602 | < 0.001 | 4684 | NCAM1 |
| -0.175498709 | < 0.001 | 285672 | SREK1IP1 |
| -0.175635591 | < 0.001 | 4904 | YBX1 |
| -0.175653145 | < 0.001 | 389197 | C4orf50 |
| -0.175661132 | < 0.001 | 284988 | RHOQP3 |
| -0.175683409 | < 0.001 | 57168 | ASPHD2 |
| -0.17570886 | < 0.001 | 6192 | RPS4Y1 |
| -0.175728738 | < 0.001 | 9854 | C2CD2L |
| -0.175797075 | < 0.001 | 55764 | IFT122 |
| -0.175800696 | < 0.001 | 8888 | MCM3AP |
| -0.175801441 | < 0.001 | 23632 | CA14 |
| -0.175856143 | < 0.001 | 4436 | MSH2 |
| -0.175916418 | < 0.001 | 79054 | TRPM8 |
| -0.17606166 | < 0.001 | 164781 | WDR69 |
| -0.176115334 | < 0.001 | 140735 | DYNLL2 |
| -0.176144585 | < 0.001 | 94031 | HTRA3 |
| -0.17617245 | < 0.001 | 766 | CA7 |
| -0.176173002 | < 0.001 | 113402 | SFT2D1 |
| -0.176174864 | < 0.001 | 120425 | AMICA1 |
| -0.176175877 | < 0.001 | 5425 | POLD2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.22471042 | 0.187005535 | 0.226 | 1 | 124044 | SPATA2L |
| -0.22471042 | 0.187005535 | 0.214 | 1 | 348235 | FAM33A |
| -0.224967822 | 0.186490923 | 0.225 | 1 | 3739 | KCNA4 |
| -0.224967822 | 0.186490923 | 0.216 | 1 | 4904 | YBX1 |
| -0.224967822 | 0.186490923 | 0.234 | 1 | 5562 | PRKAA1 |
| -0.224967822 | 0.186490923 | 0.246 | 1 | 57178 | ZMIZ1 |
| -0.224967822 | 0.186490923 | 0.254 | 1 | 84641 | HIATL1 |
| -0.224967822 | 0.186490923 | 0.22 | 1 | 440163 | RNASE13 |
| -0.225225225 | 0.185977086 | 0.231 | 1 | 4337 | MOCS1 |
| -0.225225225 | 0.185977086 | 0.256 | 1 | 4603 | MYBL1 |
| -0.225225225 | 0.185977086 | 0.22 | 1 | 6932 | TCF7 |
| -0.225225225 | 0.185977086 | 0.235 | 1 | 8328 | GFI1B |
| -0.225225225 | 0.185977086 | 0.218 | 1 | 84549 | MAK16 |
| -0.225225225 | 0.185977086 | 0.238 | 1 | 147011 | PROCA1 |
| -0.225225225 | 0.185977086 | 0.214 | 1 | 154141 | MBOAT1 |
| -0.225225225 | 0.185977086 | 0.228 | 1 | 641298 | RP11-368J21.1 |
| -0.225482613 | 0.185464486 | 0.225 | 1 | 55622 | TTC27 |
| -0.225482613 | 0.185464486 | 0.22 | 1 | 78996 | C7orf49 |
| -0.225740016 | 0.184952945 | 0.217 | 1 | 1368 | CPM |
| -0.225740016 | 0.184952945 | 0.25 | 1 | 2838 | GPR15 |
| -0.225740016 | 0.184952945 | 0.236 | 1 | 5480 | PPIC |
| -0.225740016 | 0.184952945 | 0.212 | 1 | 9204 | ZMYM6 |
| -0.225740016 | 0.184952945 | 0.235 | 1 | 9747 | FAM115A |
| -0.225740016 | 0.184952945 | 0.251 | 1 | 23279 | NUP160 |
| -0.225740016 | 0.184952945 | 0.239 | 1 | 94107 | TMEM203 |
| -0.225740016 | 0.184952945 | 0.215 | 1 | 643905 | PRR21 |
| -0.225997418 | 0.184442386 | 0.209 | 1 | 2123 | EVI2A |
| -0.225997418 | 0.184442386 | 0.221 | 1 | 3991 | LIPE |
| -0.225997418 | 0.184442386 | 0.21 | 1 | 10230 | NBR2 |
| -0.225997418 | 0.184442386 | 0.22 | 1 | 57406 | ABHD6 |
| -0.225997418 | 0.184442386 | 0.233 | 1 | 79097 | TRIM48 |
| -0.225997418 | 0.184442386 | 0.222 | 1 | 83594 | NUDT12 |
| -0.226254821 | 0.183932826 | 0.198 | 1 | 3316 | HSPB2 |
| -0.226254821 | 0.183932826 | 0.224 | 1 | 5108 | PCM1 |
| -0.226254821 | 0.183932826 | 0.234 | 1 | 6555 | SLC10A2 |
| -0.226254821 | 0.183932826 | 0.246 | 1 | 9723 | SEMA3E |
| -0.226254821 | 0.183932826 | 0.252 | 1 | 27156 | RTDR1 |
| -0.226254821 | 0.183932826 | 0.214 | 1 | 29098 | RANGRF |
| -0.226254821 | 0.183932826 | 0.214 | 1 | 56948 | SDR39U1 |
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| -0.226254821 | 0.183932826 | 0.211 | 1 | 84062 | DTNBP1 |
| -0.226254821 | 0.183932826 | 0.232 | 1 | 115209 | OMA1 |
| -0.226254821 | 0.183932826 | 0.202 | 1 | 339398 | LINGO4 |
| -0.226512223 | 0.183424041 | 0.23 | 1 | 6726 | SRP9 |
| -0.226512223 | 0.183424041 | 0.209 | 1 | 9267 | CYTH1 |
| -0.226512223 | 0.183424041 | 0.221 | 1 | 22976 | PAXIP1 |
| -0.226769611 | 0.182916492 | 0.223 | 1 | 2149 | F2R |
| -0.226769611 | 0.182916492 | 0.21 | 1 | 7368 | UGT8 |
| -0.226769611 | 0.182916492 | 0.218 | 1 | 10232 | MSLN |
| -0.226769611 | 0.182916492 | 0.222 | 1 | 27250 | PDCD4 |
| -0.226769611 | 0.182916492 | 0.223 | 1 | 51204 | TACO1 |
| -0.226769611 | 0.182916492 | 0.228 | 1 | 90799 | CEP95 |
| -0.227027014 | 0.182409972 | 0.21 | 1 | 767 | CA8 |
| -0.227027014 | 0.182409972 | 0.222 | 1 | 2151 | F2RL2 |
| -0.227027014 | 0.182409972 | 0.22 | 1 | 9507 | ADAMTS4 |
| -0.227027014 | 0.182409972 | 0.232 | 1 | 85301 | COL27A1 |
| -0.227027014 | 0.182409972 | 0.207 | 1 | 122769 | PPIL5 |
| -0.227027014 | 0.182409972 | 0.228 | 1 | 347148 | QRFP |
| -0.227027014 | 0.182409972 | 0.2 | 1 | 100144748 | AC063965.2 |
| -0.227284417 | 0.18190445 | 0.211 | 1 | 715 | C1R |
| -0.227284417 | 0.18190445 | 0.215 | 1 | 928 | CD9 |
| -0.227284417 | 0.18190445 | 0.209 | 1 | 7627 | ZNF75A |
| -0.227284417 | 0.18190445 | 0.209 | 1 | 57185 | NIPAL3 |
| -0.227284417 | 0.18190445 | 0.208 | 1 | 64983 | MRPL32 |
| -0.227284417 | 0.18190445 | 0.221 | 1 | 654817 | NCF1C |
| -0.227541834 | 0.181399688 | 0.225 | 1 | 9043 | SPAG9 |
| -0.227541834 | 0.181399688 | 0.204 | 1 | 23148 | NACAD |
| -0.227541834 | 0.181399688 | 0.209 | 1 | 80314 | EPC1 |
| -0.227541834 | 0.181399688 | 0.229 | 1 | 142689 | ASB12 |
| -0.227541834 | 0.181399688 | 0.207 | 1 | 348938 | NIPAL4 |
| -0.227799237 | 0.180896163 | 0.213 | 1 | 1317 | SLC31A1 |
| -0.227799237 | 0.180896163 | 0.234 | 1 | 1665 | DHX15 |
| -0.227799237 | 0.180896163 | 0.223 | 1 | 3126 | HLA-DRB4 |
| -0.227799237 | 0.180896163 | 0.194 | 1 | 100129616 | LOC100129616 |
| -0.228056625 | 0.180393681 | 0.237 | 1 | 1352 | COX10 |
| -0.228056625 | 0.180393681 | 0.212 | 1 | 2653 | GCSH |
| -0.228056625 | 0.180393681 | 0.221 | 1 | 23232 | TBC1D12 |
| -0.228056625 | 0.180393681 | 0.201 | 1 | 30827 | CXXC1 |
| -0.228056625 | 0.180393681 | 0.201 | 1 | 55144 | LRRC8D |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.176185071 | < 0.001 | 4621 | MYH3 |
| -0.176240787 | < 0.001 | 5973 | RENBP |
| -0.176261872 | < 0.001 | 79132 | DHX58 |
| -0.17629689 | < 0.001 | 7535 | ZAP70 |
| -0.176359668 | < 0.001 | 51233 | C22orf43 |
| -0.176381201 | < 0.001 | 2528 | FUT6 |
| -0.176410645 | < 0.001 | 81628 | TSC22D4 |
| -0.176485777 | < 0.001 | 8352 | HIST1H3C |
| -0.176504999 | < 0.001 | 79066 | METTL16 |
| -0.176524028 | < 0.001 | 10616 | RBCK1 |
| -0.176617637 | < 0.001 | 50854 | C6orf48 |
| -0.176653951 | < 0.001 | 84820 | POLR2J4 |
| -0.176724434 | < 0.001 | 283807 | FBXL22 |
| -0.176734284 | < 0.001 | 79932 | KIAA0319L |
| -0.17683439 | < 0.001 | 55506 | H2AFY2 |
| -0.176965699 | < 0.001 | 9595 | CYTIP |
| -0.176969334 | < 0.001 | 26520 | TIMM9 |
| -0.176971927 | < 0.001 | 51575 | ESF1 |
| -0.17700471 | < 0.001 | 84274 | COQ5 |
| -0.177081794 | < 0.001 | 729082 | OIP5-AS1 |
| -0.177114576 | < 0.001 | 2999 | GZMH |
| -0.177125245 | < 0.001 | 388 | RHOB |
| -0.177127481 | < 0.001 | 10609 | AC130686.2 |
| -0.17714791 | < 0.001 | 10215 | OLIG2 |
| -0.177152738 | < 0.001 | 4293 | MAP3K9 |
| -0.177203074 | < 0.001 | 126626 | GABPB2 |
| -0.177286461 | < 0.001 | 6535 | SLC6A8 |
| -0.177289337 | < 0.001 | 144348 | ZNF664 |
| -0.177348316 | < 0.001 | 3280 | HES1 |
| -0.177372456 | < 0.001 | 92106 | OXNAD1 |
| -0.177381933 | < 0.001 | 4824 | NKX3-1 |
| -0.177391306 | < 0.001 | 2521 | FUS |
| -0.177428544 | < 0.001 | 65991 | FUNDC2 |
| -0.177530512 | < 0.001 | 22807 | IKZF2 |
| -0.177617714 | < 0.001 | 613 | BCR |
| -0.177630812 | < 0.001 | 10400 | PEMT |
| -0.177631095 | < 0.001 | 2033 | EP300 |
| -0.177651063 | < 0.001 | 5730 | PTGDS |
| -0.177788779 | < 0.001 | 35 | ACADS |
| -0.177792028 | < 0.001 | 348840 | AC073135.1 |
| -0.177877188 | < 0.001 | 4601 | MXI1 |
| -0.177880257 | < 0.001 | 1031 | CDKN2C |
| -0.177894741 | < 0.001 | 6167 | RPL37 |
| -0.1778965 | < 0.001 | 2512 | FTL |
| -0.177906439 | < 0.001 | 50937 | CDON |
| -0.177933559 | < 0.001 | 147429 | CHST9-AS1 |
| -0.177968383 | < 0.001 | 10557 | RPP38 |
| -0.177970514 | < 0.001 | 11072 | DUSP14 |
| -0.17803748 | < 0.001 | 80895 | ILKAP |
| -0.178068027 | < 0.001 | 9348 | NDST3 |
| -0.178073972 | < 0.001 | 23446 | SLC44A1 |
| -0.178099602 | < 0.001 | 2840 | GPR17 |
| -0.178102762 | < 0.001 | 81565 | NDEL1 |
| -0.178164333 | < 0.001 | 57513 | CASKIN2 |
| -0.178232774 | < 0.001 | 7707 | ZNF148 |
| -0.178245485 | < 0.001 | 163183 | C19orf46 |
| -0.178335756 | < 0.001 | 94107 | TMEM203 |
| -0.178403452 | < 0.001 | 149047 | RP11-183M13.1 |
| -0.178446636 | < 0.001 | 30850 | CDR2L |
| -0.178507462 | < 0.001 | 219854 | TMEM218 |
| -0.178558633 | < 0.001 | 11064 | CEP110 |
| -0.178573593 | < 0.001 | 50809 | HP1BP3 |
| -0.178598478 | < 0.001 | 5860 | QDPR |
| -0.178633586 | < 0.001 | 3158 | HMGCS2 |
| -0.178640172 | < 0.001 | 81831 | NETO2 |
| -0.178642496 | < 0.001 | 51333 | ZNF771 |
| -0.17878142 | < 0.001 | 285830 | HLA-F-AS1 |
| -0.178911433 | < 0.001 | 387751 | GVINP1 |
| -0.178933725 | < 0.001 | 55119 | PRPF38B |
| -0.178979412 | < 0.001 | 2765 | GML |
| -0.178992048 | < 0.001 | 114034 | TOE1 |
| -0.179005042 | < 0.001 | 1203 | CLN5 |
| -0.179010242 | < 0.001 | 26227 | PHGDH |
| -0.17902492 | < 0.001 | 22917 | ZP1 |
| -0.179046929 | < 0.001 | 3737 | KCNA2 |
| -0.179074049 | < 0.001 | 146754 | DNAH2 |
| -0.17908825 | < 0.001 | 5579 | PRKCB |
| -0.179109707 | < 0.001 | 6181 | RPLP2 |
| -0.179120004 | < 0.001 | 100132341 | KIAA0664L3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.228314027 | 0.179892153 | 0.211 | 1 | 1299 | COL9A3 |
| -0.228314027 | 0.179892153 | 0.215 | 1 | 3020 | H3F3A |
| -0.228314027 | 0.179892153 | 0.191 | 1 | 54617 | INO80 |
| -0.228314027 | 0.179892153 | 0.206 | 1 | 57827 | C6orf47 |
| -0.228314027 | 0.179892153 | 0.209 | 1 | 84869 | CBR4 |
| -0.228314027 | 0.179892153 | 0.221 | 1 | 92736 | OTOP2 |
| -0.228314027 | 0.179892153 | 0.22 | 1 | 162963 | ZNF610 |
| -0.228314027 | 0.179892153 | 0.243 | 1 | 402573 | C7orf61 |
| -0.22857143 | 0.179391682 | 0.199 | 1 | 5414 | SEPTIN4 |
| -0.22857143 | 0.179391682 | 0.22 | 1 | 9650 | MTFR1 |
| -0.22857143 | 0.179391682 | 0.208 | 1 | 79027 | ZNF655 |
| -0.22857143 | 0.179391682 | 0.236 | 1 | 100129075 | C14orf33 |
| -0.228828833 | 0.178891912 | 0.22 | 1 | 2065 | ERBB3 |
| -0.228828833 | 0.178891912 | 0.216 | 1 | 4330 | MN1 |
| -0.228828833 | 0.178891912 | 0.233 | 1 | 8243 | SMC1A |
| -0.228828833 | 0.178891912 | 0.209 | 1 | 55608 | ANKRD10 |
| -0.228828833 | 0.178891912 | 0.252 | 1 | 55771 | PRR11 |
| -0.228828833 | 0.178891912 | 0.237 | 1 | 60484 | HAPLN2 |
| -0.228828833 | 0.178891912 | 0.211 | 1 | 64129 | TINAGL1 |
| -0.228828833 | 0.178891912 | 0.212 | 1 | 79019 | CENPM |
| -0.228828833 | 0.178891912 | 0.203 | 1 | 83742 | MARVELD1 |
| -0.228828833 | 0.178891912 | 0.194 | 1 | 284948 | SH2D6 |
| -0.229086235 | 0.178393424 | 0.205 | 1 | 9235 | IL32 |
| -0.229086235 | 0.178393424 | 0.197 | 1 | 10179 | AP002373.1 |
| -0.229086235 | 0.178393424 | 0.237 | 1 | 11066 | SNRNP35 |
| -0.229086235 | 0.178393424 | 0.231 | 1 | 81490 | PTDSS2 |
| -0.229086235 | 0.178393424 | 0.222 | 1 | 120379 | PIH1D2 |
| -0.229086235 | 0.178393424 | 0.221 | 1 | 286827 | TRIM59 |
| -0.229343623 | 0.177895904 | 0.218 | 1 | 7675 | ZNF121 |
| -0.229343623 | 0.177895904 | 0.215 | 1 | 10984 | KCNQ1OT1 |
| -0.229343623 | 0.177895904 | 0.215 | 1 | 30816 | ERVWE1 |
| -0.229343623 | 0.177895904 | 0.209 | 1 | 54778 | RNF111 |
| -0.229343623 | 0.177895904 | 0.214 | 1 | 79891 | ZNF671 |
| -0.229343623 | 0.177895904 | 0.231 | 1 | 81539 | SLC38A1 |
| -0.229343623 | 0.177895904 | 0.212 | 1 | 150082 | LCA5L |
| -0.229343623 | 0.177895904 | 0.225 | 1 | 255180 | FLJ38723 |
| -0.229601026 | 0.177399367 | 0.202 | 1 | 2041 | EPHA1 |
| -0.229601026 | 0.177399367 | 0.214 | 1 | 2958 | GTF2A2 |
| -0.229601026 | 0.177399367 | 0.21 | 1 | 6883 | TAF12 |
| -0.229601026 | 0.177399367 | 0.23 | 1 | 9086 | EIF1AY |
| -0.229601026 | 0.177399367 | 0.201 | 1 | 54464 | XRN1 |
| -0.229601026 | 0.177399367 | 0.211 | 1 | 64863 | METTL4 |
| -0.229601026 | 0.177399367 | 0.217 | 1 | 80209 | C13orf23 |
| -0.229601026 | 0.177399367 | 0.186 | 1 | 339290 | LOC339290 |
| -0.229601026 | 0.177399367 | 0.226 | 1 | 339487 | ZBTB8OS |
| -0.229601026 | 0.177399367 | 0.219 | 1 | 642413 | CTSL1P6 |
| -0.229601026 | 0.177399367 | 0.231 | 1 | 100008589 | RN28S1 |
| -0.229858428 | 0.176903665 | 0.217 | 1 | 347 | APOD |
| -0.229858428 | 0.176903665 | 0.221 | 1 | 7594 | ZNF43 |
| -0.229858428 | 0.176903665 | 0.213 | 1 | 10351 | ABCA8 |
| -0.229858428 | 0.176903665 | 0.227 | 1 | 54148 | MRPL39 |
| -0.229858428 | 0.176903665 | 0.198 | 1 | 80304 | C2orf44 |
| -0.229858428 | 0.176903665 | 0.21 | 1 | 113177 | C19orf36 |
| -0.230115831 | 0.176409125 | 0.231 | 1 | 4775 | NFATC3 |
| -0.230115831 | 0.176409125 | 0.227 | 1 | 7365 | UGT2B10 |
| -0.230115831 | 0.176409125 | 0.196 | 1 | 10544 | PROCR |
| -0.230115831 | 0.176409125 | 0.207 | 1 | 26267 | FBXO10 |
| -0.230115831 | 0.176409125 | 0.227 | 1 | 56882 | CDC42SE1 |
| -0.230115831 | 0.176409125 | 0.226 | 1 | 79696 | FAM164C |
| -0.230115831 | 0.176409125 | 0.202 | 1 | 80346 | REEP4 |
| -0.230115831 | 0.176409125 | 0.19 | 1 | 115361 | GBP4 |
| -0.230373234 | 0.175915629 | 0.216 | 1 | 3485 | IGFBP2 |
| -0.230373234 | 0.175915629 | 0.201 | 1 | 7608 | ZNF56 |
| -0.230373234 | 0.175915629 | 0.223 | 1 | 7984 | ARHGEF5 |
| -0.230373234 | 0.175915629 | 0.239 | 1 | 10825 | NEU3 |
| -0.230373234 | 0.175915629 | 0.204 | 1 | 26119 | LDLRAP1 |
| -0.230373234 | 0.175915629 | 0.193 | 1 | 58526 | MID1IP1 |
| -0.230373234 | 0.175915629 | 0.195 | 1 | 150160 | CESK1 |
| -0.230373234 | 0.175915629 | 0.21 | 1 | 252983 | STXBP4 |
| -0.230373234 | 0.175915629 | 0.218 | 1 | 344328 | ST13P2 |
| -0.230373234 | 0.175915629 | 0.224 | 1 | 347902 | AMIGO2 |
| -0.230630621 | 0.175423086 | 0.204 | 1 | 2235 | FECH |
| -0.230630621 | 0.175423086 | 0.234 | 1 | 7227 | TRPS1 |
| -0.230630621 | 0.175423086 | 0.227 | 1 | 7444 | VRK2 |
| -0.230630621 | 0.175423086 | 0.205 | 1 | 11240 | PADI2 |
| -0.230630621 | 0.175423086 | 0.227 | 1 | 54552 | GNL3L |
| -0.230630621 | 0.175423086 | 0.215 | 1 | 54587 | MXRA8 |
| -0.230888024 | 0.174931362 | 0.203 | 1 | 1755 | DMBT1 |
| -0.230888024 | 0.174931362 | 0.239 | 1 | 6707 | SPRR3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.179178521 | < 0.001 | 53832 | IL20RA |
| -0.179216966 | < 0.001 | 1347 | COX7A2 |
| -0.179234415 | < 0.001 | 1475 | CSTA |
| -0.179236829 | < 0.001 | 689 | BTF3 |
| -0.179283276 | < 0.001 | 6102 | RP2 |
| -0.179294512 | < 0.001 | 162967 | ZNF320 |
| -0.179381803 | < 0.001 | 140801 | RPL10L |
| -0.179427952 | < 0.001 | 64062 | RBM26 |
| -0.179481357 | < 0.001 | 10580 | SORBS1 |
| -0.179488316 | < 0.001 | 57176 | VARS2 |
| -0.179527044 | < 0.001 | 55659 | ZNF416 |
| -0.179545522 | < 0.001 | 57653 | LOC100499484-C9ORF174 |
| -0.179557875 | < 0.001 | 2122 | EVI1 |
| -0.179614887 | < 0.001 | 79742 | CXorf36 |
| -0.179615259 | < 0.001 | 26082 | AC135731.1 |
| -0.179644883 | < 0.001 | 9510 | ADAMTS1 |
| -0.179661602 | < 0.001 | 83861 | RSPH3 |
| -0.179706931 | < 0.001 | 3659 | IRF1 |
| -0.179719552 | < 0.001 | 1909 | EDNRA |
| -0.179766446 | < 0.001 | 11067 | C10orf10 |
| -0.179773048 | < 0.001 | 100294362 | LOC100294362 |
| -0.179802671 | < 0.001 | 79175 | ZNF343 |
| -0.17981112 | < 0.001 | 4437 | MSH3 |
| -0.179880023 | < 0.001 | 51691 | NAA38 |
| -0.179883555 | < 0.001 | 6651 | SON |
| -0.179955155 | < 0.001 | 80005 | DOCK5 |
| -0.179960445 | < 0.001 | 25861 | DFNB31 |
| -0.180006504 | < 0.001 | 55027 | HEATR3 |
| -0.180011332 | < 0.001 | 7039 | TGFA |
| -0.180105969 | < 0.001 | 374973 | ATPAF1-AS1 |
| -0.180168837 | < 0.001 | 54476 | RNF216 |
| -0.18025957 | < 0.001 | 3097 | HIVEP2 |
| -0.180269778 | < 0.001 | 388419 | BTBD17 |
| -0.180298477 | < 0.001 | 120376 | AP002448.1 |
| -0.180333495 | < 0.001 | 10777 | ARPP-21 |
| -0.180356249 | < 0.001 | 1295 | COL8A1 |
| -0.180375651 | < 0.001 | 5376 | PMP22 |
| -0.180391535 | < 0.001 | 4752 | NEK3 |
| -0.180398315 | < 0.001 | 5745 | PTH1R |
| -0.180473074 | < 0.001 | 7716 | VEZF1 |
| -0.180487186 | < 0.001 | 158586 | ZXDB |
| -0.180510208 | < 0.001 | 54899 | PXK |
| -0.180544302 | < 0.001 | 7608 | ZNF56 |
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| -0.180624813 | < 0.001 | 81621 | KAZALD1 |
| -0.180667073 | < 0.001 | 4710 | NDUFB4 |
| -0.180670321 | < 0.001 | 4842 | NOS1 |
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| -0.181055889 | < 0.001 | 3821 | KLRK1 |
| -0.181108639 | < 0.001 | 3882 | KRT32 |
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| -0.181288436 | < 0.001 | 170959 | ZNF431 |
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| -0.181291774 | < 0.001 | 6440 | SFTPC |
| -0.181293637 | < 0.001 | 51422 | PRKAG2 |
| -0.181376651 | < 0.001 | 1743 | DLSTP |
| -0.181410462 | < 0.001 | 115106 | HAUS1 |
| -0.181465521 | < 0.001 | 151525 | WDSUB1 |
| -0.181495801 | < 0.001 | 11123 | RCAN3 |
| -0.18149589 | < 0.001 | 126520 | PLK5P |
| -0.181506202 | < 0.001 | 4034 | LRCH4 |
| -0.18151772 | < 0.001 | 10072 | DPP3 |
| -0.181563869 | < 0.001 | 79085 | SLC25A23 |
| -0.181575567 | < 0.001 | 219595 | FOLH1B |
| -0.181576133 | < 0.001 | 286336 | FAM78A |
| -0.181580767 | < 0.001 | 94015 | TTYH2 |
| -0.181589872 | < 0.001 | 100128302 | LOC100128302 |
| -0.181616813 | < 0.001 | 400750 | LOC400750 |
| -0.181620523 | < 0.001 | 202020 | FLJ39653 |
| -0.181646526 | < 0.001 | 10809 | STARD10 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.230888024 | 0.174931362 | 0.22 | 1 | 8602 | NOP14 |
| -0.230888024 | 0.174931362 | 0.219 | 1 | 10312 | TCIRG1 |
| -0.230888024 | 0.174931362 | 0.219 | 1 | 83642 | RP3-402G11.1 |
| -0.230888024 | 0.174931362 | 0.191 | 1 | 148327 | CREB3L4 |
| -0.230888024 | 0.174931362 | 0.229 | 1 | 165055 | CCDC138 |
| -0.230888024 | 0.174931362 | 0.201 | 1 | 196528 | ARID2 |
| -0.230888024 | 0.174931362 | 0.209 | 1 | 386676 | KRTAP10-9 |
| -0.231145427 | 0.174440831 | 0.219 | 1 | 1544 | CYP1A2 |
| -0.231145427 | 0.174440831 | 0.205 | 1 | 55745 | MUDENG |
| -0.231145427 | 0.174440831 | 0.22 | 1 | 84570 | COL25A1 |
| -0.231145427 | 0.174440831 | 0.213 | 1 | 151835 | CPNE9 |
| -0.231145427 | 0.174440831 | 0.224 | 1 | 152078 | C3orf55 |
| -0.231402829 | 0.173951298 | 0.185 | 1 | 3383 | ICAM1 |
| -0.231402829 | 0.173951298 | 0.204 | 1 | 7357 | UGCG |
| -0.231402829 | 0.173951298 | 0.206 | 1 | 90333 | ZNF468 |
| -0.231402829 | 0.173951298 | 0.189 | 1 | 338675 | OR5AP2 |
| -0.231660232 | 0.173462734 | 0.21 | 1 | 1059 | CENPB |
| -0.231660232 | 0.173462734 | 0.211 | 1 | 3655 | ITGA6 |
| -0.231660232 | 0.173462734 | 0.217 | 1 | 3669 | ISG20 |
| -0.231660232 | 0.173462734 | 0.217 | 1 | 26070 | AP002380.3 |
| -0.231660232 | 0.173462734 | 0.218 | 1 | 55192 | DNAJC17 |
| -0.231660232 | 0.173462734 | 0.185 | 1 | 81611 | ANP32E |
| -0.231660232 | 0.173462734 | 0.203 | 1 | 284467 | FAM19A3 |
| -0.23191762 | 0.172975168 | 0.199 | 1 | 5681 | PSKH1 |
| -0.23191762 | 0.172975168 | 0.212 | 1 | 5893 | RAD52 |
| -0.23191762 | 0.172975168 | 0.217 | 1 | 6601 | SMARCC2 |
| -0.23191762 | 0.172975168 | 0.194 | 1 | 8125 | ANP32A |
| -0.23191762 | 0.172975168 | 0.23 | 1 | 9717 | SEC14L5 |
| -0.23191762 | 0.172975168 | 0.214 | 1 | 51365 | PLA1A |
| -0.23191762 | 0.172975168 | 0.232 | 1 | 140901 | STK35 |
| -0.23191762 | 0.172975168 | 0.205 | 1 | 155066 | ATP6V0E2 |
| -0.232175022 | 0.172488391 | 0.196 | 1 | 6938 | TCF12 |
| -0.232175022 | 0.172488391 | 0.218 | 1 | 25802 | LMOD1 |
| -0.232175022 | 0.172488391 | 0.222 | 1 | 91179 | SCARF2 |
| -0.232175022 | 0.172488391 | 0.179 | 1 | 286148 | DPY19L4 |
| -0.232432425 | 0.172002837 | 0.203 | 1 | 212 | ALAS2 |
| -0.232432425 | 0.172002837 | 0.199 | 1 | 5937 | RBMS1 |
| -0.232432425 | 0.172002837 | 0.215 | 1 | 55636 | CHD7 |
| -0.232432425 | 0.172002837 | 0.193 | 1 | 83478 | ARHGAP24 |
| -0.232432425 | 0.172002837 | 0.198 | 1 | 154810 | AMOTL1 |
| -0.232432425 | 0.172002837 | 0.228 | 1 | 161394 | SAMD15 |
| -0.232432425 | 0.172002837 | 0.191 | 1 | 340547 | VSIG1 |
| -0.232432425 | 0.172002837 | 0.209 | 1 | 414157 | C10orf62 |
| -0.232432425 | 0.172002837 | 0.218 | 1 | 730234 | LOC730234 |
| -0.232689828 | 0.171518236 | 0.205 | 1 | 11112 | HIBADH |
| -0.232689828 | 0.171518236 | 0.218 | 1 | 56204 | KIAA1370 |
| -0.23294723 | 0.171034634 | 0.196 | 1 | 4340 | MOG |
| -0.23294723 | 0.171034634 | 0.204 | 1 | 7692 | ZNF133 |
| -0.23294723 | 0.171034634 | 0.216 | 1 | 10419 | PRMT5 |
| -0.23294723 | 0.171034634 | 0.209 | 1 | 22882 | ZHX2 |
| -0.23294723 | 0.171034634 | 0.196 | 1 | 51056 | LAP3 |
| -0.23294723 | 0.171034634 | 0.202 | 1 | 51460 | SFMBT1 |
| -0.23294723 | 0.171034634 | 0.221 | 1 | 55139 | ANKZF1 |
| -0.23294723 | 0.171034634 | 0.202 | 1 | 55858 | TMEM165 |
| -0.23294723 | 0.171034634 | 0.199 | 1 | 723790 | HIST2H2AA4 |
| -0.23294723 | 0.171034634 | 0.221 | 1 | 100288801 | FRG2C |
| -0.233204618 | 0.170551792 | 0.209 | 1 | 369 | ARAF |
| -0.233204618 | 0.170551792 | 0.207 | 1 | 1380 | CR2 |
| -0.233204618 | 0.170551792 | 0.232 | 1 | 3678 | ITGA5 |
| -0.233204618 | 0.170551792 | 0.189 | 1 | 50809 | HP1BP3 |
| -0.233204618 | 0.170551792 | 0.213 | 1 | 84309 | NUDT16L1 |
| -0.233204618 | 0.170551792 | 0.204 | 1 | 127731 | VWA5B1 |
| -0.233204618 | 0.170551792 | 0.205 | 1 | 100132815 | AC092329.2 |
| -0.233462021 | 0.170070201 | 0.195 | 1 | 5829 | PXN |
| -0.233462021 | 0.170070201 | 0.208 | 1 | 7328 | UBE2H |
| -0.233462021 | 0.170070201 | 0.233 | 1 | 7978 | MTERF |
| -0.233462021 | 0.170070201 | 0.222 | 1 | 26157 | GIMAP2 |
| -0.233462021 | 0.170070201 | 0.221 | 1 | 143879 | KBTBD3 |
| -0.233462021 | 0.170070201 | 0.182 | 1 | 202333 | CMYA5 |
| -0.233719423 | 0.169589564 | 0.195 | 1 | 391 | RHOG |
| -0.233719423 | 0.169589564 | 0.206 | 1 | 3707 | ITPKB |
| -0.233719423 | 0.169589564 | 0.195 | 1 | 11096 | ADAMTS5 |
| -0.233719423 | 0.169589564 | 0.181 | 1 | 54676 | GTPBP2 |
| -0.233976826 | 0.169109881 | 0.213 | 1 | 563 | AZGP1 |
| -0.233976826 | 0.169109881 | 0.189 | 1 | 8089 | YEATS4 |
| -0.233976826 | 0.169109881 | 0.191 | 1 | 9758 | FRMPD4 |
| -0.233976826 | 0.169109881 | 0.218 | 1 | 10009 | ZBTB33 |
| -0.233976826 | 0.169109881 | 0.213 | 1 | 282997 | LOC282997 |
| -0.234234229 | 0.168630987 | 0.187 | 1 | 1632 | DCI |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.181664079 | < 0.001 | 339005 | WHAMML1 |
| -0.181700572 | < 0.001 | 5356 | PLRG1 |
| -0.181705028 | < 0.001 | 57506 | MAVS |
| -0.181730852 | < 0.001 | 6418 | SET |
| -0.181821764 | < 0.001 | 5170 | PDPK1 |
| -0.181833372 | < 0.001 | 80304 | C2orf44 |
| -0.181871071 | < 0.001 | 25980 | C20orf4 |
| -0.181922421 | < 0.001 | 10658 | CUGBP1 |
| -0.181947693 | < 0.001 | 5354 | PLP1 |
| -0.181971923 | < 0.001 | 349152 | DPY19L2P2 |
| -0.181980193 | < 0.001 | 25932 | CLIC4 |
| -0.182011306 | < 0.001 | 3189 | HNRNPH3 |
| -0.182019472 | < 0.001 | 5260 | PHKG1 |
| -0.182046503 | < 0.001 | 10039 | PARP3 |
| -0.182054758 | < 0.001 | 80817 | KIAA1712 |
| -0.182103977 | < 0.001 | 1729 | DIAPH1 |
| -0.182156265 | < 0.001 | 145270 | PRIMA1 |
| -0.182176143 | < 0.001 | 5118 | PCOLCE |
| -0.182186082 | < 0.001 | 83480 | PUS3 |
| -0.18224059 | < 0.001 | 25961 | NUDT13 |
| -0.182366416 | < 0.001 | 10813 | UTP14A |
| -0.182381749 | < 0.001 | 358 | AQP1 |
| -0.182392418 | < 0.001 | 100129387 | GABPB1-AS1 |
| -0.182434484 | < 0.001 | 9541 | CIR1 |
| -0.182483062 | < 0.001 | 622 | BDH1 |
| -0.1825905 | < 0.001 | 1634 | DCN |
| -0.18267177 | < 0.001 | 157777 | C8orf45 |
| -0.182680592 | < 0.001 | 8566 | PDXK |
| -0.182681426 | < 0.001 | 9654 | TTLL4 |
| -0.182720423 | < 0.001 | 54953 | C1orf27 |
| -0.182744294 | < 0.001 | 3673 | ITGA2 |
| -0.182758033 | < 0.001 | 57404 | CYP20A1 |
| -0.182772055 | < 0.001 | 79364 | ZXDC |
| -0.18279472 | < 0.001 | 7018 | TF |
| -0.182909966 | < 0.001 | 1787 | TRDMT1 |
| -0.182955012 | < 0.001 | 359845 | FAM101B |
| -0.182957232 | < 0.001 | 23264 | ZC3H7B |
| -0.183066443 | < 0.001 | 79039 | DDX54 |
| -0.183093369 | < 0.001 | 55227 | LRRC1 |
| -0.183151603 | < 0.001 | 4176 | MCM7 |
| -0.183172226 | < 0.001 | 338799 | AC084018.1 |
| -0.183194876 | < 0.001 | 9324 | HMGN3 |
| -0.183247343 | < 0.001 | 85453 | AP003115.1 |
| -0.183286905 | < 0.001 | 56257 | MEPCE |
| -0.183346897 | < 0.001 | 84935 | C13orf33 |
| -0.183367893 | < 0.001 | 3834 | KIF25 |
| -0.183404848 | < 0.001 | 84549 | MAK16 |
| -0.183528453 | < 0.001 | 26233 | FBXL6 |
| -0.183573216 | < 0.001 | 100131211 | TMEM194B |
| -0.183629304 | < 0.001 | 171017 | ZNF384 |
| -0.183662832 | < 0.001 | 401251 | C6orf26 |
| -0.183699235 | < 0.001 | 54148 | MRPL39 |
| -0.183718637 | < 0.001 | 23250 | ATP11A |
| -0.183784112 | < 0.001 | 443 | ASPA |
| -0.183792278 | < 0.001 | 23279 | NUP160 |
| -0.183856547 | < 0.001 | 57732 | ZFYVE28 |
| -0.183888122 | < 0.001 | 643314 | KIAA0754 |
| -0.183924615 | < 0.001 | 6385 | SDC4 |
| -0.183931023 | < 0.001 | 1939 | LGTN |
| -0.183981732 | < 0.001 | 11198 | SUPT16H |
| -0.184046641 | < 0.001 | 8273 | SLC10A3 |
| -0.184151396 | < 0.001 | 25791 | NGEF |
| -0.184158638 | < 0.001 | 10461 | MERTK |
| -0.184170067 | < 0.001 | 51661 | FKBP7 |
| -0.184182972 | < 0.001 | 57409 | MIF4GD |
| -0.184186876 | < 0.001 | 10397 | NDRG1 |
| -0.184219465 | < 0.001 | 3831 | C14orf153 |
| -0.184236556 | < 0.001 | 11325 | DDX42 |
| -0.184238225 | < 0.001 | 6819 | SULT1C2 |
| -0.18434836 | < 0.001 | 8630 | HSD17B6 |
| -0.184358954 | < 0.001 | 824 | CAPN2 |
| -0.184396192 | < 0.001 | 51341 | ZBTB7A |
| -0.184428602 | < 0.001 | 400506 | C16orf88 |
| -0.184431851 | < 0.001 | 8839 | WISP2 |
| -0.184432879 | < 0.001 | 80174 | DBF4B |
| -0.184590101 | < 0.001 | 8819 | SAP30 |
| -0.184643582 | < 0.001 | 196528 | ARID2 |
| -0.184650734 | < 0.001 | 8545 | CGGBP1 |
| -0.184699208 | < 0.001 | 494514 | C18orf56 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.234234229 | 0.168630987 | 0.201 | 1 | 3932 | LCK |
| -0.234234229 | 0.168630987 | 0.21 | 1 | 5653 | KLK6 |
| -0.234234229 | 0.168630987 | 0.196 | 1 | 23250 | ATP11A |
| -0.234234229 | 0.168630987 | 0.214 | 1 | 64969 | MRPS5 |
| -0.234234229 | 0.168630987 | 0.202 | 1 | 65975 | STK33 |
| -0.234234229 | 0.168630987 | 0.202 | 1 | 342035 | GLDN |
| -0.234234229 | 0.168630987 | 0.194 | 1 | 392352 | LOC392352 |
| -0.234491631 | 0.168153301 | 0.195 | 1 | 54906 | C10orf18 |
| -0.234491631 | 0.168153301 | 0.209 | 1 | 64422 | ATG3 |
| -0.234491631 | 0.168153301 | 0.196 | 1 | 118442 | GPR62 |
| -0.234491631 | 0.168153301 | 0.195 | 1 | 149501 | KRT8P45 |
| -0.234491631 | 0.168153301 | 0.21 | 1 | 283948 | NHLRC4 |
| -0.234491631 | 0.168153301 | 0.219 | 1 | 390152 | OR8H3 |
| -0.234491631 | 0.168153301 | 0.174 | 1 | 404093 | CUEDC1 |
| -0.234749034 | 0.167676628 | 0.196 | 1 | 914 | CD2 |
| -0.234749034 | 0.167676628 | 0.197 | 1 | 1278 | COL1A2 |
| -0.234749034 | 0.167676628 | 0.208 | 1 | 4122 | MAN2A2 |
| -0.234749034 | 0.167676628 | 0.206 | 1 | 5465 | PPARA |
| -0.234749034 | 0.167676628 | 0.21 | 1 | 5469 | MED1 |
| -0.234749034 | 0.167676628 | 0.208 | 1 | 56301 | SLC7A10 |
| -0.234749034 | 0.167676628 | 0.189 | 1 | 64798 | DEPDC6 |
| -0.235006437 | 0.167200893 | 0.207 | 1 | 2316 | FLNA |
| -0.235006437 | 0.167200893 | 0.207 | 1 | 2531 | KDSR |
| -0.235006437 | 0.167200893 | 0.211 | 1 | 5380 | PMS2L2 |
| -0.235006437 | 0.167200893 | 0.187 | 1 | 6414 | SEPP1 |
| -0.235006437 | 0.167200893 | 0.218 | 1 | 6431 | SFRS6 |
| -0.235006437 | 0.167200893 | 0.217 | 1 | 10400 | PEMT |
| -0.235006437 | 0.167200893 | 0.228 | 1 | 27254 | CSDC2 |
| -0.235006437 | 0.167200893 | 0.202 | 1 | 29766 | TMOD3 |
| -0.235006437 | 0.167200893 | 0.218 | 1 | 58515 | RP11-884K10.1 |
| -0.235263839 | 0.166726142 | 0.202 | 1 | 7726 | TRIM26 |
| -0.235263839 | 0.166726142 | 0.204 | 1 | 9744 | ACAP1 |
| -0.235263839 | 0.166726142 | 0.203 | 1 | 55689 | YEATS2 |
| -0.235263839 | 0.166726142 | 0.202 | 1 | 83639 | TEX101 |
| -0.235263839 | 0.166726142 | 0.18 | 1 | 152273 | FGD5 |
| -0.235263839 | 0.166726142 | 0.215 | 1 | 200205 | C1orf69 |
| -0.235521242 | 0.166252166 | 0.179 | 1 | 3397 | ID1 |
| -0.235521242 | 0.166252166 | 0.203 | 1 | 23218 | NBEAL2 |
| -0.235521242 | 0.166252166 | 0.184 | 1 | 26030 | PLEKHG3 |
| -0.235521242 | 0.166252166 | 0.189 | 1 | 26610 | ELP4 |
| -0.235521242 | 0.166252166 | 0.187 | 1 | 51330 | TNFRSF12A |
| -0.235521242 | 0.166252166 | 0.186 | 1 | 56961 | SHD |
| -0.23577863 | 0.165779367 | 0.201 | 1 | 6461 | SHB |
| -0.23577863 | 0.165779367 | 0.184 | 1 | 9623 | TCL1B |
| -0.23577863 | 0.165779367 | 0.171 | 1 | 51642 | MRPL48 |
| -0.23577863 | 0.165779367 | 0.2 | 1 | 83695 | C12orf32 |
| -0.23577863 | 0.165779367 | 0.175 | 1 | 220359 | TIGD3 |
| -0.236036032 | 0.165307596 | 0.222 | 1 | 3690 | ITGB3 |
| -0.236036032 | 0.165307596 | 0.194 | 1 | 9454 | HOMER3 |
| -0.236036032 | 0.165307596 | 0.218 | 1 | 26261 | FBXO24 |
| -0.236036032 | 0.165307596 | 0.221 | 1 | 80742 | PRR3 |
| -0.236036032 | 0.165307596 | 0.22 | 1 | 124590 | USH1G |
| -0.236293435 | 0.164836764 | 0.206 | 1 | 5289 | PIK3C3 |
| -0.236293435 | 0.164836764 | 0.188 | 1 | 5790 | PTPRCAP |
| -0.236293435 | 0.164836764 | 0.205 | 1 | 81035 | COLEC12 |
| -0.236293435 | 0.164836764 | 0.192 | 1 | 85449 | KIAA1755 |
| -0.236293435 | 0.164836764 | 0.199 | 1 | 92399 | MRRF |
| -0.236293435 | 0.164836764 | 0.203 | 1 | 220136 | CCDC11 |
| -0.236293435 | 0.164836764 | 0.18 | 1 | 221120 | ALKBH3 |
| -0.236293435 | 0.164836764 | 0.213 | 1 | 643332 | AL355922.1 |
| -0.236550838 | 0.164366677 | 0.206 | 1 | 7408 | VASP |
| -0.236550838 | 0.164366677 | 0.221 | 1 | 27443 | CECR2 |
| -0.236550838 | 0.164366677 | 0.186 | 1 | 83607 | AMMECR1L |
| -0.236550838 | 0.164366677 | 0.175 | 1 | 145781 | GCOM1 |
| -0.236550838 | 0.164366677 | 0.211 | 1 | 285908 | LINC00174 |
| -0.236550838 | 0.164366677 | 0.198 | 1 | 389741 | MGC21881 |
| -0.23680824 | 0.163897797 | 0.191 | 1 | 666 | BOK |
| -0.23680824 | 0.163897797 | 0.187 | 1 | 1497 | CTNS |
| -0.23680824 | 0.163897797 | 0.175 | 1 | 6391 | SDHC |
| -0.23680824 | 0.163897797 | 0.192 | 1 | 6421 | SFPQ |
| -0.23680824 | 0.163897797 | 0.193 | 1 | 10809 | STARD10 |
| -0.23680824 | 0.163897797 | 0.204 | 1 | 22918 | CD93 |
| -0.23680824 | 0.163897797 | 0.195 | 1 | 28513 | CDH19 |
| -0.23680824 | 0.163897797 | 0.209 | 1 | 51704 | GPRC5B |
| -0.23680824 | 0.163897797 | 0.204 | 1 | 56985 | C17orf48 |
| -0.23680824 | 0.163897797 | 0.206 | 1 | 85457 | KIAA1737 |
| -0.23680824 | 0.163897797 | 0.202 | 1 | 389336 | C5orf46 |
| -0.237065628 | 0.163429871 | 0.217 | 1 | 2140 | EYA3 |
| -0.237065628 | 0.163429871 | 0.191 | 1 | 2837 | UTS2R |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.184854761 | < 0.001 | 116064 | LRRC58 |
| -0.184920415 | < 0.001 | 439949 | LOC439949 |
| -0.1849325 | < 0.001 | 55147 | RBM23 |
| -0.185000286 | < 0.001 | 254428 | SLC41A1 |
| -0.185040593 | < 0.001 | 4867 | NPHP1 |
| -0.185052574 | < 0.001 | 57061 | HYMAI |
| -0.185098916 | < 0.001 | 5337 | PLD1 |
| -0.185120076 | < 0.001 | 3029 | HAGH |
| -0.185134843 | < 0.001 | 6563 | SLC14A1 |
| -0.185155183 | < 0.001 | 55603 | FAM46A |
| -0.185192987 | < 0.001 | 8321 | FZD1 |
| -0.185235232 | < 0.001 | 4825 | NKX6-1 |
| -0.185235888 | < 0.001 | 65979 | PHACTR4 |
| -0.185262069 | < 0.001 | 272 | AMPD3 |
| -0.185267001 | < 0.001 | 1768 | DNAH6 |
| -0.18528761 | < 0.001 | 51642 | MRPL48 |
| -0.185338601 | < 0.001 | 51704 | GPRC5B |
| -0.185346961 | < 0.001 | 64975 | MRPL41 |
| -0.185348898 | < 0.001 | 79979 | TRMT2B |
| -0.185356885 | < 0.001 | 28984 | C13orf15 |
| -0.185360879 | < 0.001 | 6781 | STC1 |
| -0.185364321 | < 0.001 | 3635 | INPP5D |
| -0.18536748 | < 0.001 | 440295 | AC135995.5 |
| -0.18536897 | < 0.001 | 56987 | BBX |
| -0.185428396 | < 0.001 | 3042 | HBM |
| -0.185451433 | < 0.001 | 6363 | CCL19 |
| -0.185462102 | < 0.001 | 7060 | THBS4 |
| -0.185518205 | < 0.001 | 63976 | PRDM16 |
| -0.185532689 | < 0.001 | 4211 | MEIS1 |
| -0.185533702 | < 0.001 | 7318 | UBA7 |
| -0.185540587 | < 0.001 | 28990 | ASTE1 |
| -0.185558975 | < 0.001 | 4343 | MOV10 |
| -0.185582742 | < 0.001 | 341359 | SYT10 |
| -0.185605034 | < 0.001 | 152 | ADRA2C |
| -0.185623601 | < 0.001 | 64789 | DEM1 |
| -0.185633451 | < 0.001 | 10406 | WFDC2 |
| -0.185724452 | < 0.001 | 2958 | GTF2A2 |
| -0.185729563 | < 0.001 | 10351 | ABCA8 |
| -0.185743496 | < 0.001 | 29903 | CCDC106 |
| -0.185745254 | < 0.001 | 10290 | SPEG |
| -0.185839146 | < 0.001 | 84987 | C12orf62 |
| -0.185860783 | < 0.001 | 1902 | LPAR1 |
| -0.185957089 | < 0.001 | 26273 | FBXO3 |
| -0.185967296 | < 0.001 | 22878 | KIAA1012 |
| -0.186000735 | < 0.001 | 7696 | ZNF137P |
| -0.186056167 | < 0.001 | 2065 | ERBB3 |
| -0.186120436 | < 0.001 | 2147 | F2 |
| -0.186138272 | < 0.001 | 1786 | DNMT1 |
| -0.186202347 | < 0.001 | 286827 | TRIM59 |
| -0.186249897 | < 0.001 | 91754 | NEK9 |
| -0.18633458 | < 0.001 | 122622 | ADSSL1 |
| -0.186339036 | < 0.001 | 221037 | JMJD1C |
| -0.186373129 | < 0.001 | 57570 | TRMT5 |
| -0.186423734 | < 0.001 | 83595 | SOX7 |
| -0.186493009 | < 0.001 | 9486 | CHST10 |
| -0.186498404 | < 0.001 | 55760 | DHX32 |
| -0.186521426 | < 0.001 | 29105 | C16orf80 |
| -0.186577529 | < 0.001 | 51078 | THAP4 |
| -0.186653763 | < 0.001 | 25776 | CBY1 |
| -0.186697692 | < 0.001 | 729046 | LOC729046 |
| -0.186789259 | < 0.001 | 84527 | ZNF559 |
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| -0.186882123 | < 0.001 | 9374 | PPT2 |
| -0.186892986 | < 0.001 | 10818 | FRS2 |
| -0.186896235 | < 0.001 | 5510 | PPP1R7 |
| -0.186897069 | < 0.001 | 54742 | LY6K |
| -0.186924651 | < 0.001 | 54482 | CCDC76 |
| -0.186959013 | < 0.001 | 23361 | ZNF629 |
| -0.186991513 | < 0.001 | 123879 | DCUN1D3 |
| -0.1870047 | < 0.001 | 4037 | LRP3 |
| -0.187100545 | < 0.001 | 58473 | PLEKHB1 |
| -0.187215507 | < 0.001 | 253512 | SLC25A30 |
| -0.187249318 | < 0.001 | 23743 | BHMT2 |
| -0.187252373 | < 0.001 | 402176 | RPL21P44 |
| -0.187305406 | < 0.001 | 84649 | DGAT2 |
| -0.1873198 | < 0.001 | 4162 | MCAM |
| -0.187444985 | < 0.001 | 11343 | MGLL |
| -0.187500328 | < 0.001 | 9267 | CYTH1 |
| -0.187541097 | < 0.001 | 6470 | SHMT1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.237065628 | 0.163429871 | 0.193 | 1 | 6696 | SPP1 |
| -0.237065628 | 0.163429871 | 0.19 | 1 | 11200 | CHEK2 |
| -0.237065628 | 0.163429871 | 0.204 | 1 | 57513 | CASKIN2 |
| -0.237065628 | 0.163429871 | 0.205 | 1 | 283788 | LOC283788 |
| -0.237323031 | 0.162962988 | 0.189 | 1 | 9516 | LITAF |
| -0.237323031 | 0.162962988 | 0.223 | 1 | 64132 | XYLT2 |
| -0.237323031 | 0.162962988 | 0.189 | 1 | 93010 | B3GNT7 |
| -0.237323031 | 0.162962988 | 0.19 | 1 | 664701 | ZNF826P |
| -0.237580433 | 0.162496805 | 0.19 | 1 | 3371 | TNC |
| -0.237580433 | 0.162496805 | 0.199 | 1 | 10474 | TADA3L |
| -0.237580433 | 0.162496805 | 0.198 | 1 | 10875 | FGL2 |
| -0.237580433 | 0.162496805 | 0.191 | 1 | 10934 | MORF4 |
| -0.237580433 | 0.162496805 | 0.189 | 1 | 29093 | MRPL22 |
| -0.237580433 | 0.162496805 | 0.216 | 1 | 83869 | TTTY14 |
| -0.237580433 | 0.162496805 | 0.207 | 1 | 112817 | NPL2 |
| -0.237837836 | 0.162031814 | 0.211 | 1 | 1854 | DUT |
| -0.237837836 | 0.162031814 | 0.214 | 1 | 1880 | GPR183 |
| -0.237837836 | 0.162031814 | 0.169 | 1 | 4238 | MFAP3 |
| -0.237837836 | 0.162031814 | 0.189 | 1 | 59271 | C21orf63 |
| -0.237837836 | 0.162031814 | 0.202 | 1 | 79856 | SNX22 |
| -0.237837836 | 0.162031814 | 0.199 | 1 | 441054 | C4orf47 |
| -0.237837836 | 0.162031814 | 0.205 | 1 | 643198 | RBPJP6 |
| -0.238095239 | 0.161567792 | 0.184 | 1 | 2913 | GRM3 |
| -0.238095239 | 0.161567792 | 0.195 | 1 | 51264 | MRPL27 |
| -0.238095239 | 0.161567792 | 0.183 | 1 | 58499 | ZNF462 |
| -0.238095239 | 0.161567792 | 0.21 | 1 | 93323 | HAUS8 |
| -0.238095239 | 0.161567792 | 0.213 | 1 | 260294 | NSUN5C |
| -0.238352627 | 0.161104769 | 0.2 | 1 | 11135 | CDC42EP1 |
| -0.238352627 | 0.161104769 | 0.205 | 1 | 22927 | HABP4 |
| -0.238352627 | 0.161104769 | 0.199 | 1 | 79993 | ELOVL7 |
| -0.238352627 | 0.161104769 | 0.19 | 1 | 84196 | USP48 |
| -0.238352627 | 0.161104769 | 0.179 | 1 | 84939 | MUM1 |
| -0.238352627 | 0.161104769 | 0.21 | 1 | 388135 | C15orf59 |
| -0.238610029 | 0.160642698 | 0.194 | 1 | 3338 | DNAJC4 |
| -0.238610029 | 0.160642698 | 0.201 | 1 | 10588 | MTHFS |
| -0.238610029 | 0.160642698 | 0.199 | 1 | 55191 | NADSYN1 |
| -0.238610029 | 0.160642698 | 0.208 | 1 | 80013 | C10orf97 |
| -0.238610029 | 0.160642698 | 0.2 | 1 | 87178 | PNPT1 |
| -0.238610029 | 0.160642698 | 0.213 | 1 | 147657 | ZNF480 |
| -0.238610029 | 0.160642698 | 0.21 | 1 | 286103 | C8ORF77 |
| -0.238867432 | 0.160181388 | 0.178 | 1 | 8801 | SUCLG2 |
| -0.238867432 | 0.160181388 | 0.186 | 1 | 51805 | COQ3 |
| -0.238867432 | 0.160181388 | 0.209 | 1 | 84809 | CROCCP2 |
| -0.238867432 | 0.160181388 | 0.193 | 1 | 147040 | KCTD11 |
| -0.238867432 | 0.160181388 | 0.187 | 1 | 388759 | C1orf229 |
| -0.238867432 | 0.160181388 | 0.189 | 1 | 400322 | AC091565.3 |
| -0.239124835 | 0.159721226 | 0.22 | 1 | 6432 | SFRS7 |
| -0.239124835 | 0.159721226 | 0.184 | 1 | 9646 | CTR9 |
| -0.239124835 | 0.159721226 | 0.219 | 1 | 84803 | AGPAT9 |
| -0.239124835 | 0.159721226 | 0.188 | 1 | 128637 | TBC1D20 |
| -0.239124835 | 0.159721226 | 0.23 | 1 | 100129455 | LOC100129455 |
| -0.239382237 | 0.159262061 | 0.198 | 1 | 5910 | RAP1GDS1 |
| -0.239382237 | 0.159262061 | 0.227 | 1 | 9111 | NMI |
| -0.239382237 | 0.159262061 | 0.184 | 1 | 51277 | DNAJC27 |
| -0.239382237 | 0.159262061 | 0.174 | 1 | 55281 | TMEM140 |
| -0.239382237 | 0.159262061 | 0.204 | 1 | 143458 | LDLRAD3 |
| -0.239382237 | 0.159262061 | 0.175 | 1 | 387521 | TMEM189 |
| -0.239382237 | 0.159262061 | 0.195 | 1 | 100288797 | RP5-860F19.1 |
| -0.239639625 | 0.15880385 | 0.182 | 1 | 1511 | CTSG |
| -0.239639625 | 0.15880385 | 0.217 | 1 | 5649 | RELN |
| -0.239639625 | 0.15880385 | 0.201 | 1 | 6521 | SLC4A1 |
| -0.239639625 | 0.15880385 | 0.207 | 1 | 23258 | DENND5A |
| -0.239639625 | 0.15880385 | 0.184 | 1 | 55657 | ZNF692 |
| -0.239639625 | 0.15880385 | 0.197 | 1 | 171389 | NLRP6 |
| -0.239639625 | 0.15880385 | 0.22 | 1 | 386757 | SLC6A10P |
| -0.239639625 | 0.15880385 | 0.188 | 1 | 390260 | OR6X1 |
| -0.239639625 | 0.15880385 | 0.203 | 1 | 439931 | AC002472.9 |
| -0.239897028 | 0.158346385 | 0.199 | 1 | 204 | AK2 |
| -0.239897028 | 0.158346385 | 0.186 | 1 | 480 | ATP1A4 |
| -0.239897028 | 0.158346385 | 0.212 | 1 | 962 | CD48 |
| -0.239897028 | 0.158346385 | 0.2 | 1 | 1374 | CPT1A |
| -0.239897028 | 0.158346385 | 0.196 | 1 | 1485 | CTAG1B |
| -0.239897028 | 0.158346385 | 0.197 | 1 | 3603 | IL16 |
| -0.24015443 | 0.157890156 | 0.201 | 1 | 2683 | B4GALT1 |
| -0.24015443 | 0.157890156 | 0.219 | 1 | 3911 | LAMA5 |
| -0.24015443 | 0.157890156 | 0.165 | 1 | 7316 | UBC |
| -0.24015443 | 0.157890156 | 0.203 | 1 | 51293 | CD320 |
| -0.24015443 | 0.157890156 | 0.197 | 1 | 121504 | HIST4H4 |
| -0.24015443 | 0.157890156 | 0.213 | 1 | 122011 | CSNK1A1L |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.187645569 | < 0.001 | 64838 | FNDC4 |
| -0.187678263 | < 0.001 | 5089 | PBX2 |
| -0.187683374 | < 0.001 | 1812 | DRD1 |
| -0.187747627 | < 0.001 | 5111 | PCNA |
| -0.187767133 | < 0.001 | 7373 | COL14A1 |
| -0.187769085 | < 0.001 | 7022 | TFAP2C |
| -0.187849596 | < 0.001 | 7776 | ZNF236 |
| -0.187885731 | < 0.001 | 29901 | SAC3D1 |
| -0.187887773 | < 0.001 | 6235 | RPS29 |
| -0.187889814 | < 0.001 | 653073 | AC120045.5 |
| -0.187908947 | < 0.001 | 261734 | NPHP4 |
| -0.187920928 | < 0.001 | 100288252 | LOC100288252 |
| -0.187931135 | < 0.001 | 415056 | LOC415056 |
| -0.187939867 | < 0.001 | 9695 | EDEM1 |
| -0.187939957 | < 0.001 | 23354 | HAUS5 |
| -0.187959373 | < 0.001 | 11257 | TP53TG1 |
| -0.188077033 | < 0.001 | 5184 | PEPD |
| -0.188104883 | < 0.001 | 23563 | CHST5 |
| -0.188110918 | < 0.001 | 26502 | NARF |
| -0.188186511 | < 0.001 | 3688 | ITGB1 |
| -0.188196182 | < 0.001 | 1265 | CNN2 |
| -0.18819803 | < 0.001 | 9553 | MRPL33 |
| -0.188202679 | < 0.001 | 25845 | AC010442.2 |
| -0.18820779 | < 0.001 | 5287 | PIK3C2B |
| -0.188253939 | < 0.001 | 84740 | AFAP1-AS1 |
| -0.188254401 | < 0.001 | 7248 | TSC1 |
| -0.188282266 | < 0.001 | 53827 | FXYD5 |
| -0.188300923 | < 0.001 | 10749 | KIF1C |
| -0.188357294 | < 0.001 | 79056 | PRRG4 |
| -0.18840085 | < 0.001 | 5996 | RGS1 |
| -0.188433349 | < 0.001 | 9600 | PITPNM1 |
| -0.188480154 | < 0.001 | 93594 | WDR67 |
| -0.188533932 | < 0.001 | 3017 | HIST1H2BD |
| -0.188549444 | < 0.001 | 26034 | IPCEF1 |
| -0.188567728 | < 0.001 | 2327 | FMO2 |
| -0.188631907 | < 0.001 | 729059 | RP4-805N21.1 |
| -0.188639894 | < 0.001 | 55809 | TRERF1 |
| -0.188706189 | < 0.001 | 64108 | RTP4 |
| -0.188736752 | < 0.001 | 83955 | NACAP1 |
| -0.188743442 | < 0.001 | 90342 | FER1L5 |
| -0.18881689 | < 0.001 | 339541 | C1orf228 |
| -0.188996121 | < 0.001 | 7789 | ZXDA |
| -0.189100504 | < 0.001 | 64324 | NSD1 |
| -0.189137191 | < 0.001 | 54825 | PCDH24 |
| -0.18914099 | < 0.001 | 4846 | NOS3 |
| -0.189153805 | < 0.001 | 153527 | ZMAT2 |
| -0.189155951 | < 0.001 | 100131564 | LOC100131564 |
| -0.189170897 | < 0.001 | 201501 | ZBTB7C |
| -0.189255968 | < 0.001 | 8345 | HIST1H2BH |
| -0.189328581 | < 0.001 | 84224 | NBPF3 |
| -0.189340279 | < 0.001 | 64167 | ERAP2 |
| -0.189345583 | < 0.001 | 23241 | PACS2 |
| -0.189362571 | < 0.001 | 84678 | KDM2B |
| -0.189384207 | < 0.001 | 11211 | FZD10 |
| -0.189414576 | < 0.001 | 81 | ACTN4 |
| -0.189423487 | < 0.001 | 92979 | MARCHF9 |
| -0.189516172 | < 0.001 | 6696 | SPP1 |
| -0.189530656 | < 0.001 | 898 | CCNE1 |
| -0.189553782 | < 0.001 | 79871 | RPAP2 |
| -0.18959929 | < 0.001 | 4671 | NAIP |
| -0.18959938 | < 0.001 | 100132288 | TEKT4P2 |
| -0.189646557 | < 0.001 | 374650 | GOLGA6L5 |
| -0.189680457 | < 0.001 | 285671 | RNF180 |
| -0.189759105 | < 0.001 | 4337 | MOCS1 |
| -0.189928129 | < 0.001 | 10544 | PROCR |
| -0.189942434 | < 0.001 | 79607 | FAM118B |
| -0.190001771 | < 0.001 | 55285 | RBM41 |
| -0.190005481 | < 0.001 | 83543 | AIF1L |
| -0.190012634 | < 0.001 | 3133 | HLA-E |
| -0.190013841 | < 0.001 | 168474 | SEPHS1P1 |
| -0.190034837 | < 0.001 | 120776 | OR2D2 |
| -0.190081909 | < 0.001 | 149483 | CCDC17 |
| -0.190089524 | < 0.001 | 80824 | DUSP16 |
| -0.190201715 | < 0.001 | 5837 | PYGM |
| -0.190231979 | < 0.001 | 27250 | PDCD4 |
| -0.190237179 | < 0.001 | 124152 | IQCK |
| -0.190266997 | < 0.001 | 8526 | DGKE |
| -0.190320671 | < 0.001 | 91445 | RNF185 |
| -0.190351218 | < 0.001 | 201299 | RDM1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.24015443 | 0.157890156 | 0.193 | 1 | 147645 | AC063977.1 |
| -0.24015443 | 0.157890156 | 0.189 | 1 | 403253 | AC134982.1 |
| -0.240411833 | 0.157434836 | 0.193 | 1 | 797 | CALCB |
| -0.240411833 | 0.157434836 | 0.18 | 1 | 2104 | ESRRG |
| -0.240411833 | 0.157434836 | 0.201 | 1 | 4649 | MYO9A |
| -0.240411833 | 0.157434836 | 0.202 | 1 | 6901 | TAZ |
| -0.240411833 | 0.157434836 | 0.199 | 1 | 23678 | SGK3 |
| -0.240411833 | 0.157434836 | 0.183 | 1 | 55143 | CDCA8 |
| -0.240411833 | 0.157434836 | 0.21 | 1 | 64834 | ELOVL1 |
| -0.240411833 | 0.157434836 | 0.184 | 1 | 192286 | HIGD2A |
| -0.240669236 | 0.156980455 | 0.202 | 1 | 5142 | PDE4B |
| -0.240669236 | 0.156980455 | 0.17 | 1 | 6546 | SLC8A1 |
| -0.240669236 | 0.156980455 | 0.191 | 1 | 9975 | NR1D2 |
| -0.240669236 | 0.156980455 | 0.211 | 1 | 10524 | KAT5 |
| -0.240669236 | 0.156980455 | 0.21 | 1 | 55596 | ZCCHC8 |
| -0.240669236 | 0.156980455 | 0.192 | 1 | 79685 | SAP30L |
| -0.240669236 | 0.156980455 | 0.206 | 1 | 84899 | TMTC4 |
| -0.240669236 | 0.156980455 | 0.213 | 1 | 147660 | ZNF578 |
| -0.240926623 | 0.156526864 | 0.179 | 1 | 5168 | ENPP2 |
| -0.240926623 | 0.156526864 | 0.169 | 1 | 23325 | KIAA1033 |
| -0.240926623 | 0.156526864 | 0.205 | 1 | 55619 | DOCK10 |
| -0.240926623 | 0.156526864 | 0.197 | 1 | 57644 | MYH7B |
| -0.240926623 | 0.156526864 | 0.184 | 1 | 80833 | APOL3 |
| -0.240926623 | 0.156526864 | 0.214 | 1 | 114987 | WDR31 |
| -0.240926623 | 0.156526864 | 0.191 | 1 | 200958 | MUC20 |
| -0.240926623 | 0.156526864 | 0.181 | 1 | 375260 | WASH2P |
| -0.240926623 | 0.156526864 | 0.19 | 1 | 387071 | FAM136BP |
| -0.240926623 | 0.156526864 | 0.173 | 1 | 389827 | TMEM8C |
| -0.241184026 | 0.156074479 | 0.182 | 1 | 1486 | CTBS |
| -0.241184026 | 0.156074479 | 0.176 | 1 | 2230 | FDX1 |
| -0.241184026 | 0.156074479 | 0.197 | 1 | 2286 | FKBP2 |
| -0.241184026 | 0.156074479 | 0.174 | 1 | 6422 | SFRP1 |
| -0.241184026 | 0.156074479 | 0.195 | 1 | 8817 | FGF18 |
| -0.241184026 | 0.156074479 | 0.197 | 1 | 9961 | MVP |
| -0.241184026 | 0.156074479 | 0.195 | 1 | 10781 | ZNF266 |
| -0.241184026 | 0.156074479 | 0.168 | 1 | 23091 | ZC3H13 |
| -0.241184026 | 0.156074479 | 0.192 | 1 | 57602 | USP36 |
| -0.241441444 | 0.155622989 | 0.171 | 1 | 5973 | RENBP |
| -0.241441444 | 0.155622989 | 0.181 | 1 | 9886 | RHOBTB1 |
| -0.241441444 | 0.155622989 | 0.206 | 1 | 645638 | LOC645638 |
| -0.241698846 | 0.155172467 | 0.199 | 1 | 800 | CALD1 |
| -0.241698846 | 0.155172467 | 0.188 | 1 | 1281 | COL3A1 |
| -0.241698846 | 0.155172467 | 0.183 | 1 | 10893 | MMP24 |
| -0.241698846 | 0.155172467 | 0.201 | 1 | 54221 | SNTG2 |
| -0.241698846 | 0.155172467 | 0.195 | 1 | 79998 | ANKRD53 |
| -0.241698846 | 0.155172467 | 0.207 | 1 | 150248 | C22orf15 |
| -0.241698846 | 0.155172467 | 0.167 | 1 | 283417 | DPY19L2 |
| -0.241698846 | 0.155172467 | 0.181 | 1 | 645937 | LOC645937 |
| -0.241956249 | 0.154722884 | 0.189 | 1 | 53637 | S1PR5 |
| -0.241956249 | 0.154722884 | 0.207 | 1 | 132321 | C4orf33 |
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| -0.242213652 | 0.154274076 | 0.183 | 1 | 3581 | IL9R |
| -0.242213652 | 0.154274076 | 0.169 | 1 | 9633 | MTL5 |
| -0.242213652 | 0.154274076 | 0.198 | 1 | 11213 | IRAK3 |
| -0.242213652 | 0.154274076 | 0.171 | 1 | 29774 | POM121L9P |
| -0.242213652 | 0.154274076 | 0.195 | 1 | 56302 | TRPV5 |
| -0.242213652 | 0.154274076 | 0.181 | 1 | 65986 | ZBTB10 |
| -0.242471039 | 0.153826475 | 0.173 | 1 | 1005 | CDH7 |
| -0.242471039 | 0.153826475 | 0.19 | 1 | 63935 | PCIF1 |
| -0.242471039 | 0.153826475 | 0.187 | 1 | 196513 | DCP1B |
| -0.242728442 | 0.153379768 | 0.185 | 1 | 3903 | LAIR1 |
| -0.242728442 | 0.153379768 | 0.209 | 1 | 51326 | ARL17P1 |
| -0.242728442 | 0.153379768 | 0.187 | 1 | 79415 | C17orf62 |
| -0.242728442 | 0.153379768 | 0.191 | 1 | 148413 | RP4-758J18.2 |
| -0.242728442 | 0.153379768 | 0.186 | 1 | 644168 | DRGX |
| -0.242985845 | 0.15293403 | 0.182 | 1 | 3601 | IL15RA |
| -0.242985845 | 0.15293403 | 0.21 | 1 | 25798 | BRI3 |
| -0.242985845 | 0.15293403 | 0.18 | 1 | 56474 | CTPS2 |
| -0.242985845 | 0.15293403 | 0.209 | 1 | 92342 | C1orf156 |
| -0.242985845 | 0.15293403 | 0.181 | 1 | 100287596 | DDX11L5 |
| -0.243243247 | 0.152489036 | 0.185 | 1 | 7073 | TIAL1 |
| -0.243243247 | 0.152489036 | 0.193 | 1 | 10981 | RAB32 |
| -0.243243247 | 0.152489036 | 0.189 | 1 | 51090 | PLLP |
| -0.243243247 | 0.152489036 | 0.193 | 1 | 55208 | DCUN1D2 |
| -0.243243247 | 0.152489036 | 0.174 | 1 | 92181 | UBTD2 |
| -0.24350065 | 0.15204519 | 0.188 | 1 | 994 | CDC25B |
| -0.24350065 | 0.15204519 | 0.19 | 1 | 1027 | CDKN1B |
| -0.24350065 | 0.15204519 | 0.191 | 1 | 1353 | COX11 |
| -0.24350065 | 0.15204519 | 0.194 | 1 | 3563 | IL3RA |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.190371752 | < 0.001 | 284338 | PRR19 |
| -0.190472409 | < 0.001 | 23276 | KLHL18 |
| -0.190592393 | < 0.001 | 645683 | RPL13AP3 |
| -0.190673932 | < 0.001 | 402483 | FLJ45340 |
| -0.190744147 | < 0.001 | 23130 | ATG2A |
| -0.190760672 | < 0.001 | 130916 | MTERFD2 |
| -0.190768942 | < 0.001 | 51057 | C2orf86 |
| -0.190775529 | < 0.001 | 22865 | SLITRK3 |
| -0.190794379 | < 0.001 | 57396 | CLK4 |
| -0.190811187 | < 0.001 | 2900 | GRIK4 |
| -0.190894678 | < 0.001 | 9967 | THRAP3 |
| -0.190963298 | < 0.001 | 148206 | ZNF714 |
| -0.19101578 | < 0.001 | 5079 | PAX5 |
| -0.191028953 | < 0.001 | 90864 | SPSB3 |
| -0.191055432 | < 0.001 | 89941 | RHOT2 |
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| -0.191258624 | < 0.001 | 23522 | MYST4 |
| -0.191278771 | < 0.001 | 55015 | PRPF39 |
| -0.191320747 | < 0.001 | 4889 | NPY5R |
| -0.191348881 | < 0.001 | 55090 | MED9 |
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| -0.191368937 | < 0.001 | 728621 | CCDC30 |
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| -0.191447139 | < 0.001 | 93100 | NAPRT1 |
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| -0.191488743 | < 0.001 | 2812 | GP1BB |
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| -0.192574903 | < 0.001 | 23259 | DDHD2 |
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| -0.192809567 | < 0.001 | 55238 | SLC38A7 |
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| -0.192885354 | < 0.001 | 144406 | WDR66 |
| -0.192900494 | < 0.001 | 5757 | PTMA |
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| -0.192973569 | < 0.001 | 23137 | SMC5 |
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| -0.193076104 | < 0.001 | 255119 | C4orf22 |
| -0.193083152 | < 0.001 | 10758 | TRAF3IP2 |
| -0.193157539 | < 0.001 | 10841 | FTCD |
| -0.193257749 | < 0.001 | 1119 | CHKA |
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| -0.19330743 | < 0.001 | 222255 | ATXN7L1 |
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| -0.193376243 | < 0.001 | 159963 | SLC5A12 |
| -0.193418592 | < 0.001 | 5587 | PRKD1 |
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| -0.193487212 | < 0.001 | 8969 | HIST1H2AG |
| -0.193489358 | < 0.001 | 5351 | PLOD1 |
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| -0.19360061 | < 0.001 | 51321 | AMZ2 |
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| -0.193976805 | < 0.001 | 10994 | ILVBL |
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| region-wise, subcortex | | | | | |
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| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.24350065 | 0.15204519 | 0.159 | 1 | 3955 | LFNG |
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| -0.24350065 | 0.15204519 | 0.191 | 1 | 54441 | STAG3L1 |
| -0.24350065 | 0.15204519 | 0.191 | 1 | 158135 | TTLL11 |
| -0.24350065 | 0.15204519 | 0.198 | 1 | 163702 | IL28RA |
| -0.243758038 | 0.151602343 | 0.197 | 1 | 4193 | MDM2 |
| -0.243758038 | 0.151602343 | 0.18 | 1 | 4756 | NEO1 |
| -0.243758038 | 0.151602343 | 0.188 | 1 | 7832 | BTG2 |
| -0.243758038 | 0.151602343 | 0.191 | 1 | 8348 | HIST1H2BO |
| -0.243758038 | 0.151602343 | 0.198 | 1 | 9619 | ABCG1 |
| -0.243758038 | 0.151602343 | 0.198 | 1 | 23630 | KCNE1L |
| -0.243758038 | 0.151602343 | 0.159 | 1 | 51181 | DCXR |
| -0.243758038 | 0.151602343 | 0.18 | 1 | 90007 | MIDN |
| -0.24401544 | 0.151160404 | 0.177 | 1 | 1647 | GADD45A |
| -0.24401544 | 0.151160404 | 0.174 | 1 | 7746 | ZNF193 |
| -0.24401544 | 0.151160404 | 0.184 | 1 | 57819 | LSM2 |
| -0.24401544 | 0.151160404 | 0.194 | 1 | 81554 | WBSCR16 |
| -0.24401544 | 0.151160404 | 0.2 | 1 | 92196 | DAPL1 |
| -0.24401544 | 0.151160404 | 0.173 | 1 | 92305 | TMEM129 |
| -0.244272843 | 0.150719211 | 0.171 | 1 | 593 | BCKDHA |
| -0.244272843 | 0.150719211 | 0.159 | 1 | 4855 | NOTCH4 |
| -0.244272843 | 0.150719211 | 0.195 | 1 | 4922 | NTS |
| -0.244272843 | 0.150719211 | 0.179 | 1 | 56895 | AGPAT4 |
| -0.244272843 | 0.150719211 | 0.188 | 1 | 442293 | LOC442293 |
| -0.244530246 | 0.150279179 | 0.192 | 1 | 6813 | STXBP2 |
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| -0.244530246 | 0.150279179 | 0.182 | 1 | 284837 | AP001053.11 |
| -0.244530246 | 0.150279179 | 0.173 | 1 | 548645 | DNAJC25 |
| -0.244530246 | 0.150279179 | 0.167 | 1 | 572558 | RP11-561O23.6 |
| -0.244787648 | 0.149840072 | 0.196 | 1 | 10268 | RAMP3 |
| -0.244787648 | 0.149840072 | 0.186 | 1 | 84808 | C1orf170 |
| -0.244787648 | 0.149840072 | 0.162 | 1 | 256364 | EML3 |
| -0.244787648 | 0.149840072 | 0.166 | 1 | 387266 | KRTAP5-3 |
| -0.245045036 | 0.149401963 | 0.182 | 1 | 1719 | DHFRP1 |
| -0.245045036 | 0.149401963 | 0.176 | 1 | 1954 | MEGF8 |
| -0.245045036 | 0.149401963 | 0.187 | 1 | 3908 | LAMA2 |
| -0.245045036 | 0.149401963 | 0.187 | 1 | 51593 | SRRT |
| -0.245302439 | 0.148964763 | 0.176 | 1 | 788 | SLC25A20 |
| -0.245302439 | 0.148964763 | 0.2 | 1 | 4059 | BCAM |
| -0.245302439 | 0.148964763 | 0.186 | 1 | 6425 | SFRP5 |
| -0.245302439 | 0.148964763 | 0.205 | 1 | 7130 | TNFAIP6 |
| -0.245302439 | 0.148964763 | 0.18 | 1 | 64857 | PLEKHG2 |
| -0.245302439 | 0.148964763 | 0.198 | 1 | 80164 | AC010336.2 |
| -0.245302439 | 0.148964763 | 0.163 | 1 | 85379 | KIAA1671 |
| -0.245302439 | 0.148964763 | 0.172 | 1 | 117246 | FTSJ3 |
| -0.245302439 | 0.148964763 | 0.176 | 1 | 201973 | CCDC111 |
| -0.245302439 | 0.148964763 | 0.18 | 1 | 221037 | JMJD1C |
| -0.245302439 | 0.148964763 | 0.185 | 1 | 730183 | LOC730183 |
| -0.245559841 | 0.148528308 | 0.19 | 1 | 1776 | DNASE1L3 |
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| -0.245559841 | 0.148528308 | 0.183 | 1 | 11322 | TMC6 |
| -0.245559841 | 0.148528308 | 0.193 | 1 | 54920 | DUS2L |
| -0.245559841 | 0.148528308 | 0.185 | 1 | 65991 | FUNDC2 |
| -0.245559841 | 0.148528308 | 0.173 | 1 | 125113 | KRT222 |
| -0.245817244 | 0.148092985 | 0.191 | 1 | 943 | TNFRSF8 |
| -0.245817244 | 0.148092985 | 0.183 | 1 | 4673 | NAP1L1 |
| -0.245817244 | 0.148092985 | 0.159 | 1 | 80127 | C14orf45 |
| -0.245817244 | 0.148092985 | 0.179 | 1 | 92106 | OXNAD1 |
| -0.245817244 | 0.148092985 | 0.186 | 1 | 253639 | ZNF620 |
| -0.245817244 | 0.148092985 | 0.172 | 1 | 256356 | GK5 |
| -0.246074647 | 0.147658616 | 0.182 | 1 | 9 | NAT1 |
| -0.246074647 | 0.147658616 | 0.173 | 1 | 5860 | QDPR |
| -0.246074647 | 0.147658616 | 0.179 | 1 | 6199 | RPS6KB2 |
| -0.246074647 | 0.147658616 | 0.176 | 1 | 84034 | EMILIN2 |
| -0.246074647 | 0.147658616 | 0.161 | 1 | 116255 | MOGAT1 |
| -0.246074647 | 0.147658616 | 0.199 | 1 | 644619 | INTS4L2 |
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| -0.246332034 | 0.147225231 | 0.175 | 1 | 3382 | ICA1 |
| -0.246332034 | 0.147225231 | 0.186 | 1 | 6522 | SLC4A2 |
| -0.246332034 | 0.147225231 | 0.195 | 1 | 6736 | SRY |
| -0.246332034 | 0.147225231 | 0.177 | 1 | 53827 | FXYD5 |
| -0.246332034 | 0.147225231 | 0.176 | 1 | 92922 | CCDC102A |
| -0.246332034 | 0.147225231 | 0.192 | 1 | 644037 | HNRNPA1P12 |
| -0.246589437 | 0.146792531 | 0.189 | 1 | 54455 | FBXO42 |
| -0.246589437 | 0.146792531 | 0.187 | 1 | 79006 | METRN |
| -0.24684684 | 0.146360993 | 0.187 | 1 | 3249 | HPN |
| -0.24684684 | 0.146360993 | 0.181 | 1 | 22921 | MSRB2 |
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| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
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| -0.19420284 | < 0.001 | 257407 | C2orf72 |
| -0.194212779 | < 0.001 | 55229 | PANK4 |
| -0.19428958 | < 0.001 | 56902 | PNO1 |
| -0.194311872 | < 0.001 | 9631 | NUP155 |
| -0.194339544 | < 0.001 | 7869 | SEMA3B |
| -0.19447884 | < 0.001 | 64216 | TFB2M |
| -0.194516823 | < 0.001 | 5026 | P2RX5 |
| -0.194543943 | < 0.001 | 55527 | FEM1A |
| -0.194637358 | < 0.001 | 81550 | TDRD3 |
| -0.194647849 | < 0.001 | 889 | KRIT1 |
| -0.194684535 | < 0.001 | 284992 | CCDC150 |
| -0.194704875 | < 0.001 | 8125 | ANP32A |
| -0.19472234 | < 0.001 | 399940 | AP004607.4 |
| -0.194726512 | < 0.001 | 6202 | RPS8 |
| -0.194771737 | < 0.001 | 51 | ACOX1 |
| -0.194800615 | < 0.001 | 5564 | PRKAB1 |
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| -0.194823459 | < 0.001 | 1959 | EGR2 |
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| -0.194901571 | < 0.001 | 386757 | SLC6A10P |
| -0.194930077 | < 0.001 | 219654 | ZCCHC24 |
| -0.194932491 | < 0.001 | 1305 | COL13A1 |
| -0.194940656 | < 0.001 | 389787 | LOC389787 |
| -0.194957092 | < 0.001 | 54941 | RNF125 |
| -0.195081905 | < 0.001 | 1263 | PLK3 |
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| -0.195313618 | < 0.001 | 2635 | GBP3 |
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| -0.195369333 | < 0.001 | 3208 | HPCA |
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| -0.19542338 | < 0.001 | 27433 | TOR2A |
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| -0.195492655 | < 0.001 | 1975 | EIF4B |
| -0.195544854 | < 0.001 | 9909 | DENND4B |
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| -0.195659354 | < 0.001 | 1368 | CPM |
| -0.195735961 | < 0.001 | 57519 | STARD9 |
| -0.195744514 | < 0.001 | 3257 | HPS1 |
| -0.195807472 | < 0.001 | 572558 | RP11-561O23.6 |
| -0.195828453 | < 0.001 | 3248 | HPGD |
| -0.195850745 | < 0.001 | 57684 | ZBTB26 |
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| -0.196052551 | < 0.001 | 5469 | MED1 |
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| -0.196238369 | < 0.001 | 933 | CD22 |
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| -0.196316004 | < 0.001 | 85329 | LGALS12 |
| -0.196508795 | < 0.001 | 11152 | WDR45 |
| -0.19651325 | < 0.001 | 87 | ACTN1 |
| -0.196608722 | < 0.001 | 54798 | DCHS2 |
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| region-wise, subcortex | | | | | |
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| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
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| -0.24684684 | 0.146360993 | 0.179 | 1 | 162417 | NAGS |
| -0.247104242 | 0.145930365 | 0.173 | 1 | 288 | ANK3 |
| -0.247104242 | 0.145930365 | 0.184 | 1 | 3039 | HBA1 |
| -0.247104242 | 0.145930365 | 0.18 | 1 | 23569 | PADI4 |
| -0.247104242 | 0.145930365 | 0.166 | 1 | 57567 | ZNF319 |
| -0.247361645 | 0.14550069 | 0.163 | 1 | 3040 | HBA2 |
| -0.247361645 | 0.14550069 | 0.177 | 1 | 3394 | IRF8 |
| -0.247361645 | 0.14550069 | 0.181 | 1 | 5635 | PRPSAP1 |
| -0.247361645 | 0.14550069 | 0.18 | 1 | 23632 | CA14 |
| -0.247361645 | 0.14550069 | 0.184 | 1 | 57129 | MRPL47 |
| -0.247361645 | 0.14550069 | 0.185 | 1 | 199777 | ZNF626 |
| -0.247361645 | 0.14550069 | 0.178 | 1 | 256126 | SYCE2 |
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| -0.247619033 | 0.145071805 | 0.184 | 1 | 1466 | CSRP2 |
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| -0.247876436 | 0.144643992 | 0.172 | 1 | 1605 | DAG1 |
| -0.247876436 | 0.144643992 | 0.17 | 1 | 3035 | HARS |
| -0.247876436 | 0.144643992 | 0.18 | 1 | 3315 | HSPB1 |
| -0.247876436 | 0.144643992 | 0.176 | 1 | 3684 | ITGAM |
| -0.247876436 | 0.144643992 | 0.184 | 1 | 6279 | S100A8 |
| -0.247876436 | 0.144643992 | 0.194 | 1 | 51734 | SEPX1 |
| -0.247876436 | 0.144643992 | 0.16 | 1 | 54780 | NSMCE4A |
| -0.247876436 | 0.144643992 | 0.174 | 1 | 55017 | C14orf119 |
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| -0.247876436 | 0.144643992 | 0.176 | 1 | 65251 | ZNF649 |
| -0.247876436 | 0.144643992 | 0.198 | 1 | 253430 | IPMK |
| -0.247876436 | 0.144643992 | 0.176 | 1 | 258010 | SVIP |
| -0.247876436 | 0.144643992 | 0.162 | 1 | 729338 | CETN4P |
| -0.247876436 | 0.144643992 | 0.162 | 1 | 768211 | RELL1 |
| -0.248133838 | 0.144217119 | 0.197 | 1 | 2352 | FOLR3 |
| -0.248133838 | 0.144217119 | 0.162 | 1 | 9817 | KEAP1 |
| -0.248133838 | 0.144217119 | 0.187 | 1 | 51530 | ZC3HC1 |
| -0.248133838 | 0.144217119 | 0.173 | 1 | 121260 | SLC15A4 |
| -0.248391256 | 0.143791184 | 0.174 | 1 | 438 | ASMT |
| -0.248391256 | 0.143791184 | 0.176 | 1 | 6737 | TRIM21 |
| -0.248391256 | 0.143791184 | 0.175 | 1 | 9595 | CYTIP |
| -0.248391256 | 0.143791184 | 0.178 | 1 | 130074 | FAM168B |
| -0.248648658 | 0.143366188 | 0.182 | 1 | 80149 | ZC3H12A |
| -0.248648658 | 0.143366188 | 0.185 | 1 | 83700 | JAM3 |
| -0.248648658 | 0.143366188 | 0.166 | 1 | 219623 | TMEM26 |
| -0.248648658 | 0.143366188 | 0.157 | 1 | 100288798 | LOC100288798 |
| -0.248906046 | 0.142941967 | 0.167 | 1 | 689 | BTF3 |
| -0.248906046 | 0.142941967 | 0.155 | 1 | 1378 | CR1 |
| -0.248906046 | 0.142941967 | 0.177 | 1 | 9488 | PIGB |
| -0.248906046 | 0.142941967 | 0.2 | 1 | 26147 | PHF19 |
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| -0.249163449 | 0.142518818 | 0.186 | 1 | 1289 | COL5A1 |
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| -0.249163449 | 0.142518818 | 0.183 | 1 | 11129 | SFRS16 |
| -0.249163449 | 0.142518818 | 0.171 | 1 | 27023 | FOXB1 |
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| -0.249163449 | 0.142518818 | 0.192 | 1 | 58509 | C19orf29 |
| -0.249163449 | 0.142518818 | 0.187 | 1 | 79809 | TTC21B |
| -0.249163449 | 0.142518818 | 0.181 | 1 | 317762 | CCDC85C |
| -0.249163449 | 0.142518818 | 0.167 | 1 | 386724 | AMIGO3 |
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| -0.249678254 | 0.141675323 | 0.151 | 1 | 6693 | SPN |
| -0.249678254 | 0.141675323 | 0.201 | 1 | 9360 | PPIG |
| -0.249678254 | 0.141675323 | 0.174 | 1 | 114885 | OSBPL11 |
| -0.249678254 | 0.141675323 | 0.173 | 1 | 126626 | GABPB2 |
| -0.249935657 | 0.141254812 | 0.187 | 1 | 5396 | PRRX1 |
| -0.249935657 | 0.141254812 | 0.169 | 1 | 6676 | SPAG4 |
| -0.249935657 | 0.141254812 | 0.167 | 1 | 10750 | GRAP |
| -0.249935657 | 0.141254812 | 0.179 | 1 | 56896 | DPYSL5 |
| -0.249935657 | 0.141254812 | 0.171 | 1 | 126859 | C1orf125 |
| -0.250193059 | 0.140835389 | 0.166 | 1 | 6102 | RP2 |
| -0.250193059 | 0.140835389 | 0.162 | 1 | 9423 | NTN1 |
| -0.250193059 | 0.140835389 | 0.189 | 1 | 26082 | AC135731.1 |
| -0.250193059 | 0.140835389 | 0.16 | 1 | 51287 | CHCHD8 |
| -0.250193059 | 0.140835389 | 0.165 | 1 | 84275 | SLC25A33 |
| -0.250193059 | 0.140835389 | 0.167 | 1 | 88455 | ANKRD13A |
| -0.250193059 | 0.140835389 | 0.154 | 1 | 138151 | NACC2 |
| -0.250193059 | 0.140835389 | 0.178 | 1 | 140735 | DYNLL2 |
| -0.250193059 | 0.140835389 | 0.181 | 1 | 222236 | NAPEPLD |
| -0.250450462 | 0.140416875 | 0.181 | 1 | 6525 | SMTN |
| -0.250450462 | 0.140416875 | 0.152 | 1 | 7263 | TST |
| -0.250707835 | 0.1399993 | 0.165 | 1 | 1743 | DLSTP |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.196846828 | < 0.001 | 57017 | COQ9 |
| -0.196910903 | < 0.001 | 23598 | PATZ1 |
| -0.19691202 | < 0.001 | 51283 | BFAR |
| -0.196921125 | < 0.001 | 143689 | PIWIL4 |
| -0.196938396 | < 0.001 | 116835 | HSPA12B |
| -0.196965888 | < 0.001 | 285755 | PPIL6 |
| -0.196976468 | < 0.001 | 440093 | RP11-428G5.1 |
| -0.19707036 | < 0.001 | 79823 | C2orf34 |
| -0.197101563 | < 0.001 | 10826 | C5orf4 |
| -0.197105736 | < 0.001 | 112885 | PHF21B |
| -0.197107032 | < 0.001 | 23303 | KIF13B |
| -0.19714056 | < 0.001 | 6834 | SURF1 |
| -0.197142139 | < 0.001 | 4340 | MOG |
| -0.197232872 | < 0.001 | 79612 | NARG1L |
| -0.197308466 | < 0.001 | 3038 | HAS3 |
| -0.197486401 | < 0.001 | 9855 | FARP2 |
| -0.197560504 | < 0.001 | 30812 | SOX8 |
| -0.197631732 | < 0.001 | 79023 | NUP37 |
| -0.197706953 | < 0.001 | 127396 | ZNF684 |
| -0.197814956 | < 0.001 | 6187 | RPS2 |
| -0.197858691 | < 0.001 | 6188 | RPS3P3 |
| -0.197910145 | < 0.001 | 5194 | PEX13 |
| -0.197980911 | < 0.001 | 9671 | WSCD2 |
| -0.197997808 | < 0.001 | 22973 | LAMB2P1 |
| -0.198005706 | < 0.001 | 26058 | GIGYF2 |
| -0.198030308 | < 0.001 | 57509 | MTUS1 |
| -0.198074609 | < 0.001 | 3832 | KIF11 |
| -0.198213816 | < 0.001 | 9366 | RAB9BP1 |
| -0.198213816 | < 0.001 | 54989 | ZNF770 |
| -0.198228031 | < 0.001 | 146225 | CMTM2 |
| -0.198339552 | < 0.001 | 3021 | H3F3B |
| -0.198385715 | < 0.001 | 55326 | AGPAT5 |
| -0.198448122 | < 0.001 | 100133036 | FAM95B1 |
| -0.198460653 | < 0.001 | 8800 | PEX11A |
| -0.198511913 | < 0.001 | 644511 | RPL13AP6 |
| -0.198630139 | < 0.001 | 3066 | HDAC2 |
| -0.198688641 | < 0.001 | 3276 | PRMT1 |
| -0.198697001 | < 0.001 | 23417 | MLYCD |
| -0.198714554 | < 0.001 | 23310 | NCAPD3 |
| -0.198878929 | < 0.001 | 85016 | C11orf70 |
| -0.198911428 | < 0.001 | 9295 | SFRS11 |
| -0.198951915 | < 0.001 | 730098 | RP11-195F19.5 |
| -0.19895786 | < 0.001 | 196500 | C12orf53 |
| -0.199007258 | < 0.001 | 54461 | FBXW5 |
| -0.199020267 | < 0.001 | 54903 | MKS1 |
| -0.199023142 | < 0.001 | 7075 | TIE1 |
| -0.199033171 | < 0.001 | 256130 | TMEM196 |
| -0.199163929 | < 0.001 | 9848 | MFAP3L |
| -0.199227169 | < 0.001 | 387978 | C14orf23 |
| -0.199230611 | < 0.001 | 30816 | ERVWE1 |
| -0.199252144 | < 0.001 | 6525 | SMTN |
| -0.199258193 | < 0.001 | 54360 | CYTL1 |
| -0.199265242 | < 0.001 | 246329 | STAC3 |
| -0.199298114 | < 0.001 | 6205 | RPS11P5 |
| -0.199320123 | < 0.001 | 3357 | HTR2B |
| -0.199357271 | < 0.001 | 80704 | SLC19A3 |
| -0.199368134 | < 0.001 | 2050 | EPHB4 |
| -0.199379474 | < 0.001 | 116448 | OLIG1 |
| -0.199389592 | < 0.001 | 7515 | XRCC1 |
| -0.199400738 | < 0.001 | 953 | ENTPD1 |
| -0.199417263 | < 0.001 | 6483 | ST3GAL2 |
| -0.199478835 | < 0.001 | 200895 | DHFRL1 |
| -0.199490353 | < 0.001 | 203562 | TMEM31 |
| -0.199503258 | < 0.001 | 79844 | ZDHHC11 |
| -0.199565753 | < 0.001 | 57475 | PLEKHH1 |
| -0.19962278 | < 0.001 | 8165 | AKAP1 |
| -0.200007796 | < 0.001 | 25865 | PRKD2 |
| -0.200049505 | < 0.001 | 64839 | FBXL17 |
| -0.200097784 | < 0.001 | 55893 | ZNF395 |
| -0.200124726 | < 0.001 | 83650 | AMAC1L2 |
| -0.200152397 | < 0.001 | 6035 | RNASE1 |
| -0.200193807 | < 0.001 | 23429 | RYBP |
| -0.200223342 | < 0.001 | 7125 | TNNC2 |
| -0.200245544 | < 0.001 | 85026 | C9orf37 |
| -0.200271264 | < 0.001 | 23524 | SRRM2 |
| -0.200290859 | < 0.001 | 7984 | ARHGEF5 |
| -0.200304791 | < 0.001 | 115207 | KCTD12 |
| -0.200311661 | < 0.001 | 55023 | PHIP |
| -0.200339615 | < 0.001 | 8341 | HIST1H2BN |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
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| -0.250707835 | 0.1399993 | 0.185 | 1 | 79684 | C11orf61 |
| -0.250707835 | 0.1399993 | 0.177 | 1 | 114907 | FBXO32 |
| -0.250707835 | 0.1399993 | 0.168 | 1 | 116444 | GRIN3B |
| -0.250707835 | 0.1399993 | 0.171 | 1 | 153443 | SRFBP1 |
| -0.250707835 | 0.1399993 | 0.157 | 1 | 161247 | FITM1 |
| -0.250707835 | 0.1399993 | 0.162 | 1 | 646278 | LOC646278 |
| -0.250965238 | 0.139582649 | 0.158 | 1 | 7318 | UBA7 |
| -0.250965238 | 0.139582649 | 0.159 | 1 | 8985 | PLOD3 |
| -0.250965238 | 0.139582649 | 0.183 | 1 | 29914 | UBIAD1 |
| -0.250965238 | 0.139582649 | 0.171 | 1 | 54863 | C9orf167 |
| -0.250965238 | 0.139582649 | 0.16 | 1 | 55654 | TMEM127 |
| -0.250965238 | 0.139582649 | 0.16 | 1 | 57458 | TMCC3 |
| -0.25122264 | 0.139166772 | 0.187 | 1 | 1723 | DHODH |
| -0.25122264 | 0.139166772 | 0.184 | 1 | 57830 | KRTAP5-8 |
| -0.25122264 | 0.139166772 | 0.172 | 1 | 92126 | DSEL |
| -0.25122264 | 0.139166772 | 0.19 | 1 | 148362 | BROX |
| -0.251480043 | 0.138751969 | 0.164 | 1 | 25874 | BRP44 |
| -0.251480043 | 0.138751969 | 0.165 | 1 | 54360 | CYTL1 |
| -0.251480043 | 0.138751969 | 0.181 | 1 | 57519 | STARD9 |
| -0.251480043 | 0.138751969 | 0.159 | 1 | 57688 | ZSWIM6 |
| -0.251480043 | 0.138751969 | 0.171 | 1 | 253559 | CADM2 |
| -0.251737446 | 0.138338059 | 0.167 | 1 | 471 | ATIC |
| -0.251737446 | 0.138338059 | 0.176 | 1 | 2729 | GCLC |
| -0.251737446 | 0.138338059 | 0.165 | 1 | 23241 | PACS2 |
| -0.251737446 | 0.138338059 | 0.181 | 1 | 25989 | ULK3 |
| -0.251737446 | 0.138338059 | 0.153 | 1 | 84816 | RTN4IP1 |
| -0.251737446 | 0.138338059 | 0.168 | 1 | 100286895 | LOC100286895 |
| -0.251994848 | 0.137925088 | 0.183 | 1 | 91807 | MYLK3 |
| -0.252252251 | 0.137512848 | 0.162 | 1 | 23 | ABCF1 |
| -0.252252251 | 0.137512848 | 0.186 | 1 | 8431 | NR0B2 |
| -0.252252251 | 0.137512848 | 0.155 | 1 | 8490 | RP11-267N12.3 |
| -0.252252251 | 0.137512848 | 0.181 | 1 | 8612 | PPAP2C |
| -0.252252251 | 0.137512848 | 0.155 | 1 | 10430 | TMEM147 |
| -0.252252251 | 0.137512848 | 0.192 | 1 | 10538 | BATF |
| -0.252252251 | 0.137512848 | 0.168 | 1 | 22913 | RALY |
| -0.252252251 | 0.137512848 | 0.191 | 1 | 84447 | SYVN1 |
| -0.252252251 | 0.137512848 | 0.175 | 1 | 140680 | C20orf96 |
| -0.252509654 | 0.137101769 | 0.16 | 1 | 1584 | CYP11B1 |
| -0.252509654 | 0.137101769 | 0.172 | 1 | 1649 | DDIT3 |
| -0.252509654 | 0.137101769 | 0.177 | 1 | 3885 | KRT34 |
| -0.252509654 | 0.137101769 | 0.159 | 1 | 134187 | POU5F2 |
| -0.252509654 | 0.137101769 | 0.167 | 1 | 143684 | FAM76B |
| -0.252509654 | 0.137101769 | 0.19 | 1 | 401551 | WDR38 |
| -0.252767056 | 0.13669154 | 0.174 | 1 | 51474 | LIMA1 |
| -0.252767056 | 0.13669154 | 0.165 | 1 | 53373 | TPCN1 |
| -0.252767056 | 0.13669154 | 0.164 | 1 | 84901 | NFATC2IP |
| -0.252767056 | 0.13669154 | 0.179 | 1 | 200539 | ANKRD23 |
| -0.253024459 | 0.136282235 | 0.173 | 1 | 26531 | OR11A1 |
| -0.253281832 | 0.13587366 | 0.173 | 1 | 2072 | ERCC4 |
| -0.253281832 | 0.13587366 | 0.145 | 1 | 8638 | OASL |
| -0.253281832 | 0.13587366 | 0.16 | 1 | 10992 | SF3B2 |
| -0.253281832 | 0.13587366 | 0.196 | 1 | 55693 | KDM4D |
| -0.253281832 | 0.13587366 | 0.16 | 1 | 84190 | C12orf26 |
| -0.253281832 | 0.13587366 | 0.149 | 1 | 170371 | C10orf128 |
| -0.253281832 | 0.13587366 | 0.189 | 1 | 399693 | MGC50722 |
| -0.253539234 | 0.135466188 | 0.172 | 1 | 3834 | KIF25 |
| -0.253539234 | 0.135466188 | 0.171 | 1 | 54940 | OCIAD1 |
| -0.253539234 | 0.135466188 | 0.17 | 1 | 55506 | H2AFY2 |
| -0.253539234 | 0.135466188 | 0.168 | 1 | 84271 | POLDIP3 |
| -0.253539234 | 0.135466188 | 0.194 | 1 | 116093 | DIRC1 |
| -0.253539234 | 0.135466188 | 0.168 | 1 | 387328 | ZNF322P1 |
| -0.253539234 | 0.135466188 | 0.16 | 1 | 100128822 | LOC100128822 |
| -0.253796637 | 0.13505967 | 0.175 | 1 | 1586 | CYP17A1 |
| -0.253796637 | 0.13505967 | 0.156 | 1 | 10723 | SLC12A7 |
| -0.253796637 | 0.13505967 | 0.181 | 1 | 22995 | CEP152 |
| -0.253796637 | 0.13505967 | 0.18 | 1 | 27158 | NDOR1 |
| -0.253796637 | 0.13505967 | 0.151 | 1 | 148109 | FAM187B |
| -0.253796637 | 0.13505967 | 0.164 | 1 | 152100 | CMC1 |
| -0.25405404 | 0.134654015 | 0.171 | 1 | 549 | AUH |
| -0.25405404 | 0.134654015 | 0.158 | 1 | 890 | CCNA2 |
| -0.25405404 | 0.134654015 | 0.159 | 1 | 338799 | AC084018.1 |
| -0.254311442 | 0.13424927 | 0.179 | 1 | 443 | ASPA |
| -0.254311442 | 0.13424927 | 0.176 | 1 | 4293 | MAP3K9 |
| -0.254311442 | 0.13424927 | 0.173 | 1 | 25839 | COG4 |
| -0.254311442 | 0.13424927 | 0.165 | 1 | 55741 | EDEM2 |
| -0.254311442 | 0.13424927 | 0.166 | 1 | 80817 | KIAA1712 |
| -0.254311442 | 0.13424927 | 0.142 | 1 | 285590 | SH3PXD2B |
| -0.254568845 | 0.13384527 | 0.17 | 1 | 610 | HCN2 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
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| -0.200403601 | < 0.001 | 132946 | ARL9 |
| -0.200469255 | < 0.001 | 2737 | GLI3 |
| -0.200547636 | < 0.001 | 200186 | CRTC2 |
| -0.200586349 | < 0.001 | 29894 | CPSF1 |
| -0.200590998 | < 0.001 | 7260 | TSSC1 |
| -0.200620532 | < 0.001 | 81558 | FAM117A |
| -0.200646341 | < 0.001 | 89894 | TMEM116 |
| -0.200669006 | < 0.001 | 23360 | FNBP4 |
| -0.200695932 | < 0.001 | 7675 | ZNF121 |
| -0.200706154 | < 0.001 | 2859 | GPR35 |
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| -0.200846195 | < 0.001 | 64419 | MTMR14 |
| -0.200850368 | < 0.001 | 146330 | FBXL16 |
| -0.200901166 | < 0.001 | 4520 | MTF1 |
| -0.200927734 | < 0.001 | 730110 | LOC730110 |
| -0.200986609 | < 0.001 | 7551 | ZNF3 |
| -0.200987816 | < 0.001 | 3358 | HTR2C |
| -0.201008707 | < 0.001 | 7596 | ZNF45 |
| -0.201049849 | < 0.001 | 388115 | C15orf52 |
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| -0.201117545 | < 0.001 | 25777 | UNC84B |
| -0.201139927 | < 0.001 | 162494 | RHBDL3 |
| -0.201146901 | < 0.001 | 125893 | ZNF816A |
| -0.201163888 | < 0.001 | 6878 | TAF6 |
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| -0.201209113 | < 0.001 | 2882 | GPX7 |
| -0.201211438 | < 0.001 | 8738 | CRADD |
| -0.201215804 | < 0.001 | 22937 | SCAP |
| -0.201262146 | < 0.001 | 6901 | TAZ |
| -0.201311454 | < 0.001 | 59271 | C21orf63 |
| -0.201452419 | < 0.001 | 29940 | DSE |
| -0.20145911 | < 0.001 | 3918 | LAMC2 |
| -0.201463386 | < 0.001 | 26226 | FBXW4P1 |
| -0.201492354 | < 0.001 | 116935 | RPL3P2 |
| -0.201496348 | < 0.001 | 51666 | ASB4 |
| -0.201545939 | < 0.001 | 79738 | BBS10 |
| -0.201546222 | < 0.001 | 54822 | TRPM7 |
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| -0.201762035 | < 0.001 | 26135 | SERBP1 |
| -0.201762408 | < 0.001 | 100 | ADA |
| -0.201953158 | < 0.001 | 140825 | NEURL2 |
| -0.201995879 | < 0.001 | 292 | SLC25A5 |
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| -0.202073053 | < 0.001 | 4686 | NCBP1 |
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| -0.202110663 | < 0.001 | 392490 | FLJ44635 |
| -0.202193126 | < 0.001 | 440311 | LOC440311 |
| -0.2022039 | < 0.001 | 339483 | MTMR9LP |
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| -0.202311903 | < 0.001 | 7045 | TGFBI |
| -0.2023132 | < 0.001 | 9330 | GTF3C3 |
| -0.202348575 | < 0.001 | 3754 | KCNF1 |
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| -0.202363998 | < 0.001 | 57205 | ATP10D |
| -0.202385634 | < 0.001 | 147685 | C19orf18 |
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| -0.202608973 | < 0.001 | 8438 | RAD54L |
| -0.202654764 | < 0.001 | 1521 | CTSW |
| -0.20275858 | < 0.001 | 23401 | FRAT2 |
| -0.202774644 | < 0.001 | 26271 | FBXO5 |
| -0.202777907 | < 0.001 | 27244 | SESN1 |
| -0.202827021 | < 0.001 | 133121 | ENPP6 |
| -0.202830464 | < 0.001 | 79937 | CNTNAP3 |
| -0.20289138 | < 0.001 | 285025 | CCDC141 |
| -0.20293726 | < 0.001 | 387267 | KRTAP5-4 |
| -0.202937439 | < 0.001 | 50840 | TAS2R14 |
| -0.203020096 | < 0.001 | 1060 | CENPC1 |
| -0.203024372 | < 0.001 | 55075 | UACA |
| -0.203037083 | < 0.001 | 51127 | TRIM17 |
| -0.203044981 | < 0.001 | 51571 | FAM49B |
| -0.203107297 | < 0.001 | 6122 | RPL3 |
| -0.203141838 | < 0.001 | 644019 | CBWD6 |
| -0.203206107 | < 0.001 | 1749 | DLX5 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
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| -0.254568845 | 0.13384527 | 0.188 | 1 | 6484 | ST3GAL4 |
| -0.254568845 | 0.13384527 | 0.188 | 1 | 27237 | ARHGEF16 |
| -0.254568845 | 0.13384527 | 0.161 | 1 | 129293 | AC010087.3 |
| -0.254568845 | 0.13384527 | 0.151 | 1 | 100130557 | LOC100130557 |
| -0.254826248 | 0.133442342 | 0.154 | 1 | 306 | ANXA3 |
| -0.254826248 | 0.133442342 | 0.163 | 1 | 6504 | SLAMF1 |
| -0.254826248 | 0.133442342 | 0.149 | 1 | 7157 | TP53 |
| -0.254826248 | 0.133442342 | 0.155 | 1 | 8449 | DHX16 |
| -0.254826248 | 0.133442342 | 0.175 | 1 | 79191 | IRX3 |
| -0.254826248 | 0.133442342 | 0.163 | 1 | 79858 | NEK11 |
| -0.254826248 | 0.133442342 | 0.17 | 1 | 84135 | UTP15 |
| -0.254826248 | 0.133442342 | 0.166 | 1 | 152573 | SHISA3 |
| -0.254826248 | 0.133442342 | 0.161 | 1 | 158471 | PRUNE2 |
| -0.25508365 | 0.133040369 | 0.146 | 1 | 8914 | TIMELESS |
| -0.25508365 | 0.133040369 | 0.153 | 1 | 84836 | ABHD14B |
| -0.25508365 | 0.133040369 | 0.169 | 1 | 100874392 | ANKRD20A12P |
| -0.255341053 | 0.132639259 | 0.161 | 1 | 6948 | TCN2 |
| -0.255341053 | 0.132639259 | 0.155 | 1 | 23435 | TARDBP |
| -0.255341053 | 0.132639259 | 0.179 | 1 | 58473 | PLEKHB1 |
| -0.255341053 | 0.132639259 | 0.176 | 1 | 222611 | GPR111 |
| -0.255341053 | 0.132639259 | 0.174 | 1 | 378825 | LINC00162 |
| -0.255341053 | 0.132639259 | 0.16 | 1 | 729494 | ARPC3P3 |
| -0.255598456 | 0.132238865 | 0.163 | 1 | 1355 | COX15 |
| -0.255598456 | 0.132238865 | 0.164 | 1 | 8975 | USP13 |
| -0.255598456 | 0.132238865 | 0.187 | 1 | 23524 | SRRM2 |
| -0.255598456 | 0.132238865 | 0.173 | 1 | 29063 | ZCCHC4 |
| -0.255598456 | 0.132238865 | 0.156 | 1 | 60675 | PROK2 |
| -0.255598456 | 0.132238865 | 0.173 | 1 | 100506243 | RP11-141M3.1 |
| -0.255855858 | 0.131839573 | 0.173 | 1 | 2736 | GLI2 |
| -0.255855858 | 0.131839573 | 0.168 | 1 | 7798 | LUZP1 |
| -0.255855858 | 0.131839573 | 0.174 | 1 | 26046 | RNF160 |
| -0.255855858 | 0.131839573 | 0.173 | 1 | 85376 | RIMBP3 |
| -0.255855858 | 0.131839573 | 0.166 | 1 | 91526 | ANKRD44 |
| -0.256113261 | 0.131441176 | 0.178 | 1 | 210 | ALAD |
| -0.256113261 | 0.131441176 | 0.165 | 1 | 27115 | PDE7B |
| -0.256113261 | 0.131441176 | 0.168 | 1 | 51455 | REV1 |
| -0.256113261 | 0.131441176 | 0.174 | 1 | 53828 | FXYD4 |
| -0.256113261 | 0.131441176 | 0.159 | 1 | 55199 | FAM86C |
| -0.256113261 | 0.131441176 | 0.174 | 1 | 57326 | PBXIP1 |
| -0.256113261 | 0.131441176 | 0.154 | 1 | 79003 | MIS12 |
| -0.256113261 | 0.131441176 | 0.143 | 1 | 147111 | NOTUM |
| -0.256113261 | 0.131441176 | 0.147 | 1 | 283337 | ZNF740 |
| -0.256370664 | 0.131043717 | 0.148 | 1 | 682 | BSG |
| -0.256370664 | 0.131043717 | 0.16 | 1 | 9380 | GRHPR |
| -0.256628066 | 0.130646944 | 0.149 | 1 | 1748 | DLX4 |
| -0.256628066 | 0.130646944 | 0.173 | 1 | 3170 | FOXA2 |
| -0.256628066 | 0.130646944 | 0.173 | 1 | 29780 | PARVB |
| -0.256628066 | 0.130646944 | 0.166 | 1 | 125061 | AFMID |
| -0.256628066 | 0.130646944 | 0.151 | 1 | 259296 | TAS2R50 |
| -0.256628066 | 0.130646944 | 0.162 | 1 | 445328 | ARHGEF5L |
| -0.256885439 | 0.130251259 | 0.168 | 1 | 4174 | MCM5 |
| -0.256885439 | 0.130251259 | 0.163 | 1 | 7058 | THBS2 |
| -0.256885439 | 0.130251259 | 0.16 | 1 | 54910 | SEMA4C |
| -0.256885439 | 0.130251259 | 0.198 | 1 | 55267 | C22orf26 |
| -0.256885439 | 0.130251259 | 0.153 | 1 | 148203 | ZNF738 |
| -0.257142872 | 0.129856452 | 0.144 | 1 | 1593 | CYP27A1 |
| -0.257142872 | 0.129856452 | 0.165 | 1 | 5888 | RAD51 |
| -0.257142872 | 0.129856452 | 0.166 | 1 | 26576 | SRPK3 |
| -0.257142872 | 0.129856452 | 0.162 | 1 | 56834 | GPR137 |
| -0.257142872 | 0.129856452 | 0.154 | 1 | 131096 | KCNH8 |
| -0.257142872 | 0.129856452 | 0.172 | 1 | 145376 | C14orf50 |
| -0.257400244 | 0.129462615 | 0.162 | 1 | 53832 | IL20RA |
| -0.257657647 | 0.129069611 | 0.142 | 1 | 2686 | GGT7 |
| -0.257657647 | 0.129069611 | 0.16 | 1 | 55339 | WDR33 |
| -0.257657647 | 0.129069611 | 0.172 | 1 | 81309 | OR4C15 |
| -0.25791505 | 0.128677323 | 0.145 | 1 | 3032 | HADHB |
| -0.25791505 | 0.128677323 | 0.168 | 1 | 3985 | LIMK2 |
| -0.25791505 | 0.128677323 | 0.16 | 1 | 5337 | PLD1 |
| -0.25791505 | 0.128677323 | 0.162 | 1 | 6396 | SEC13 |
| -0.25791505 | 0.128677323 | 0.184 | 1 | 7733 | ZNF180 |
| -0.25791505 | 0.128677323 | 0.151 | 1 | 26088 | GGA1 |
| -0.25791505 | 0.128677323 | 0.135 | 1 | 207063 | DHRSX |
| -0.258172452 | 0.128286108 | 0.173 | 1 | 2078 | ERG |
| -0.258172452 | 0.128286108 | 0.154 | 1 | 3815 | KIT |
| -0.258172452 | 0.128286108 | 0.155 | 1 | 348378 | FAM159A |
| -0.258429825 | 0.127895802 | 0.164 | 1 | 1318 | SLC31A2 |
| -0.258429825 | 0.127895802 | 0.155 | 1 | 7128 | TNFAIP3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.203214094 | < 0.001 | 400960 | PCBP1-AS1 |
| -0.203222364 | < 0.001 | 7852 | CXCR4 |
| -0.203243628 | < 0.001 | 54454 | ATAD2B |
| -0.203247055 | < 0.001 | 9584 | RBM39 |
| -0.203639418 | < 0.001 | 401494 | PTPLAD2 |
| -0.203668028 | < 0.001 | 5817 | PVR |
| -0.203704432 | < 0.001 | 64231 | MS4A6A |
| -0.203753918 | < 0.001 | 10615 | SPAG5 |
| -0.203792274 | < 0.001 | 629 | CFB |
| -0.203803793 | < 0.001 | 80149 | ZC3H12A |
| -0.203813076 | < 0.001 | 10413 | YAP1 |
| -0.203883931 | < 0.001 | 30851 | TAX1BP3 |
| -0.203988597 | < 0.001 | 10247 | HRSP12 |
| -0.204044968 | < 0.001 | 79682 | MLF1IP |
| -0.204064563 | < 0.001 | 440934 | AC010980.2 |
| -0.204068556 | < 0.001 | 51700 | CYB5R2 |
| -0.204099476 | < 0.001 | 51363 | CHST15 |
| -0.204265237 | < 0.001 | 26147 | PHF19 |
| -0.204302847 | < 0.001 | 7107 | GPR137B |
| -0.204328299 | < 0.001 | 347240 | KIF24 |
| -0.204339817 | < 0.001 | 26548 | ITGB1BP2 |
| -0.204368785 | < 0.001 | 116151 | C20orf108 |
| -0.20437324 | < 0.001 | 3712 | IVD |
| -0.204393953 | < 0.001 | 92086 | GGTLA3 |
| -0.204430908 | < 0.001 | 23232 | TBC1D12 |
| -0.204481155 | < 0.001 | 85317 | BAGE4 |
| -0.204489514 | < 0.001 | 1387 | CREBBP |
| -0.204489514 | < 0.001 | 10517 | FBXW10 |
| -0.204498515 | < 0.001 | 138241 | C9orf85 |
| -0.204524621 | < 0.001 | 8481 | OFD1 |
| -0.204532608 | < 0.001 | 6373 | CXCL11 |
| -0.204544112 | < 0.001 | 91734 | IDI2 |
| -0.204602435 | < 0.001 | 81559 | TRIM11 |
| -0.204676539 | < 0.001 | 23371 | TENC1 |
| -0.204768211 | < 0.001 | 7156 | TOP3A |
| -0.204785109 | < 0.001 | 29065 | ASAP1-IT1 |
| -0.204852059 | < 0.001 | 25840 | METTL7A |
| -0.204910845 | < 0.001 | 23195 | MDN1 |
| -0.204917073 | < 0.001 | 56301 | SLC7A10 |
| -0.204952732 | < 0.001 | 126393 | HSPB6 |
| -0.20506306 | < 0.001 | 8086 | AAAS |
| -0.205064356 | < 0.001 | 90806 | ANGEL2 |
| -0.205111533 | < 0.001 | 9126 | SMC3 |
| -0.205223426 | < 0.001 | 89 | ACTN3 |
| -0.205262527 | < 0.001 | 79015 | RP11-445H22.3 |
| -0.205266982 | < 0.001 | 158056 | MAMDC4 |
| -0.205353543 | < 0.001 | 285908 | LINC00174 |
| -0.205381215 | < 0.001 | 6787 | NEK4 |
| -0.205404237 | < 0.001 | 93323 | HAUS8 |
| -0.20553565 | < 0.001 | 114897 | C1QTNF1 |
| -0.205545589 | < 0.001 | 9425 | CDYL |
| -0.205622017 | < 0.001 | 2286 | FKBP2 |
| -0.20567365 | < 0.001 | 80004 | ESRP2 |
| -0.205795303 | < 0.001 | 91544 | UBXN11 |
| -0.205828637 | < 0.001 | 9961 | MVP |
| -0.205830783 | < 0.001 | 391322 | LOC391322 |
| -0.205902278 | < 0.001 | 389677 | RBM12B |
| -0.205947235 | < 0.001 | 79582 | SPAG16 |
| -0.205972955 | < 0.001 | 9546 | APBA3 |
| -0.205985397 | < 0.001 | 84245 | MRI1 |
| -0.206014186 | < 0.001 | 444 | ASPH |
| -0.20601809 | < 0.001 | 926 | CD8B |
| -0.206056908 | < 0.001 | 158405 | KIAA1958 |
| -0.206126183 | < 0.001 | 6655 | SOS2 |
| -0.206154227 | < 0.001 | 8896 | BUD31 |
| -0.206161559 | < 0.001 | 729085 | C3orf41 |
| -0.206191927 | < 0.001 | 9709 | HERPUD1 |
| -0.206302717 | < 0.001 | 207107 | SFTA1P |
| -0.20635204 | < 0.001 | 415 | ARSE |
| -0.206365407 | < 0.001 | 51296 | SLC15A3 |
| -0.206405893 | < 0.001 | 5900 | RALGDS |
| -0.206508055 | < 0.001 | 386681 | KRTAP10-8 |
| -0.206509352 | < 0.001 | 57191 | VN1R1 |
| -0.206517518 | < 0.001 | 2313 | FLI1 |
| -0.206609458 | < 0.001 | 57608 | KIAA1462 |
| -0.206681713 | < 0.001 | 4775 | NFATC3 |
| -0.206700101 | < 0.001 | 6663 | SOX10 |
| -0.206759721 | < 0.001 | 10049 | DNAJB6 |
| -0.206765845 | < 0.001 | 83416 | FCRL5 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.258429825 | 0.127895802 | 0.139 | 1 | 54948 | MRPL16 |
| -0.258687258 | 0.12750642 | 0.134 | 1 | 26034 | IPCEF1 |
| -0.258687258 | 0.12750642 | 0.174 | 1 | 29899 | GPSM2 |
| -0.258687258 | 0.12750642 | 0.146 | 1 | 55313 | CPPED1 |
| -0.258687258 | 0.12750642 | 0.145 | 1 | 123099 | DEGS2 |
| -0.258687258 | 0.12750642 | 0.147 | 1 | 126393 | HSPB6 |
| -0.25894466 | 0.127117708 | 0.181 | 1 | 774 | CACNA1B |
| -0.25894466 | 0.127117708 | 0.158 | 1 | 54916 | C14orf101 |
| -0.25894466 | 0.127117708 | 0.153 | 1 | 60343 | FAM3A |
| -0.25894466 | 0.127117708 | 0.167 | 1 | 80019 | UBTD1 |
| -0.25894466 | 0.127117708 | 0.155 | 1 | 148523 | C1orf51 |
| -0.259202063 | 0.12673007 | 0.166 | 1 | 2308 | FOXO1 |
| -0.259202063 | 0.12673007 | 0.151 | 1 | 4618 | MYF6 |
| -0.259202063 | 0.12673007 | 0.159 | 1 | 57597 | BAHCC1 |
| -0.259202063 | 0.12673007 | 0.164 | 1 | 254428 | SLC41A1 |
| -0.259202063 | 0.12673007 | 0.159 | 1 | 389289 | ANXA2R |
| -0.259202063 | 0.12673007 | 0.161 | 1 | 646962 | HRCT1 |
| -0.259459466 | 0.12634331 | 0.152 | 1 | 302 | ANXA2 |
| -0.259459466 | 0.12634331 | 0.139 | 1 | 9682 | KDM4A |
| -0.259459466 | 0.12634331 | 0.184 | 1 | 51351 | ZNF117 |
| -0.259459466 | 0.12634331 | 0.181 | 1 | 128869 | PIGU |
| -0.259459466 | 0.12634331 | 0.181 | 1 | 171019 | ADAMTS19 |
| -0.259716868 | 0.125957489 | 0.172 | 1 | 3187 | HNRNPH1 |
| -0.259716868 | 0.125957489 | 0.167 | 1 | 79879 | CCDC134 |
| -0.259716868 | 0.125957489 | 0.156 | 1 | 401507 | FAM74A1 |
| -0.259716868 | 0.125957489 | 0.154 | 1 | 653240 | KRTAP4-14 |
| -0.259974271 | 0.125572339 | 0.153 | 1 | 285359 | LOC285359 |
| -0.259974271 | 0.125572339 | 0.155 | 1 | 386684 | KRTAP12-4 |
| -0.260231644 | 0.125188261 | 0.164 | 1 | 9183 | ZW10 |
| -0.260231644 | 0.125188261 | 0.15 | 1 | 51150 | SDF4 |
| -0.260231644 | 0.125188261 | 0.14 | 1 | 58986 | TMEM8A |
| -0.260231644 | 0.125188261 | 0.16 | 1 | 81848 | SPRY4 |
| -0.260231644 | 0.125188261 | 0.17 | 1 | 100128288 | AC135178.1 |
| -0.260489076 | 0.124805048 | 0.171 | 1 | 766 | CA7 |
| -0.260489076 | 0.124805048 | 0.176 | 1 | 7871 | SLMAP |
| -0.260489076 | 0.124805048 | 0.156 | 1 | 8676 | STX11 |
| -0.260489076 | 0.124805048 | 0.168 | 1 | 9283 | GPR37L1 |
| -0.260489076 | 0.124805048 | 0.154 | 1 | 30061 | SLC40A1 |
| -0.260489076 | 0.124805048 | 0.157 | 1 | 55270 | NUDT15 |
| -0.260489076 | 0.124805048 | 0.17 | 1 | 83656 | C8orf12 |
| -0.260746449 | 0.124422774 | 0.15 | 1 | 2572 | GAD2 |
| -0.260746449 | 0.124422774 | 0.16 | 1 | 25876 | SPEF1 |
| -0.260746449 | 0.124422774 | 0.154 | 1 | 112703 | FAM71E1 |
| -0.260746449 | 0.124422774 | 0.158 | 1 | 161291 | TMEM30B |
| -0.261003882 | 0.124041326 | 0.145 | 1 | 2342 | FNTB |
| -0.261003882 | 0.124041326 | 0.163 | 1 | 23370 | ARHGEF18 |
| -0.261003882 | 0.124041326 | 0.15 | 1 | 55793 | FAM63A |
| -0.261003882 | 0.124041326 | 0.163 | 1 | 92340 | C17orf72 |
| -0.261003882 | 0.124041326 | 0.136 | 1 | 117155 | CATSPER2 |
| -0.261261255 | 0.123660602 | 0.148 | 1 | 146 | ADRA1D |
| -0.261261255 | 0.123660602 | 0.156 | 1 | 5159 | PDGFRB |
| -0.261261255 | 0.123660602 | 0.16 | 1 | 5311 | PKD2 |
| -0.261261255 | 0.123660602 | 0.148 | 1 | 6584 | SLC22A5 |
| -0.261261255 | 0.123660602 | 0.171 | 1 | 7060 | THBS4 |
| -0.261261255 | 0.123660602 | 0.157 | 1 | 10314 | LANCL1 |
| -0.261261255 | 0.123660602 | 0.149 | 1 | 79544 | OR4K1 |
| -0.261518657 | 0.123280935 | 0.166 | 1 | 272 | AMPD3 |
| -0.261518657 | 0.123280935 | 0.138 | 1 | 5900 | RALGDS |
| -0.261518657 | 0.123280935 | 0.171 | 1 | 9499 | MYOT |
| -0.261518657 | 0.123280935 | 0.163 | 1 | 55769 | ZNF83 |
| -0.261518657 | 0.123280935 | 0.158 | 1 | 246777 | SPESP1 |
| -0.261518657 | 0.123280935 | 0.135 | 1 | 414152 | C10orf105 |
| -0.26177606 | 0.122902177 | 0.162 | 1 | 2030 | SLC29A1 |
| -0.26177606 | 0.122902177 | 0.16 | 1 | 8493 | PPM1D |
| -0.26177606 | 0.122902177 | 0.152 | 1 | 58517 | RBM25 |
| -0.26177606 | 0.122902177 | 0.155 | 1 | 79400 | NOX5 |
| -0.26177606 | 0.122902177 | 0.144 | 1 | 84522 | JAGN1 |
| -0.262033463 | 0.122524261 | 0.171 | 1 | 10319 | LAMC3 |
| -0.262033463 | 0.122524261 | 0.152 | 1 | 29946 | SERTAD3 |
| -0.262033463 | 0.122524261 | 0.149 | 1 | 55062 | WIPI1 |
| -0.262033463 | 0.122524261 | 0.171 | 1 | 729993 | AC092324.1 |
| -0.262290865 | 0.122147053 | 0.145 | 1 | 8435 | SOAT2 |
| -0.262290865 | 0.122147053 | 0.135 | 1 | 114819 | CROCCP3 |
| -0.262290865 | 0.122147053 | 0.171 | 1 | 254013 | C12orf72 |
| -0.262290865 | 0.122147053 | 0.158 | 1 | 387733 | IFITM5 |
| -0.262548268 | 0.121770896 | 0.151 | 1 | 2976 | GTF3C2 |
| -0.262548268 | 0.121770896 | 0.148 | 1 | 5169 | ENPP3 |
| -0.262548268 | 0.121770896 | 0.146 | 1 | 5948 | RBP2 |
| -0.262548268 | 0.121770896 | 0.14 | 1 | 6788 | AP003355.2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.206930593 | < 0.001 | 6237 | RRAS |
| -0.206937373 | < 0.001 | 7316 | UBC |
| -0.206947491 | < 0.001 | 374882 | TMEM205 |
| -0.206960678 | < 0.001 | 54980 | C2orf42 |
| -0.206967831 | < 0.001 | 144453 | BEST3 |
| -0.206975535 | < 0.001 | 8354 | HIST1H3I |
| -0.206980184 | < 0.001 | 23135 | KDM6B |
| -0.206986681 | < 0.001 | 7430 | VIL2 |
| -0.207018718 | < 0.001 | 283487 | LINC00346 |
| -0.207029298 | < 0.001 | 3814 | KISS1 |
| -0.207036451 | < 0.001 | 84893 | FBXO18 |
| -0.207070068 | < 0.001 | 1593 | CYP27A1 |
| -0.207090318 | < 0.001 | 399671 | HEATR4 |
| -0.207292587 | < 0.001 | 8875 | VNN2 |
| -0.207462519 | < 0.001 | 80177 | MYCT1 |
| -0.207484812 | < 0.001 | 55260 | TMEM143 |
| -0.207509324 | < 0.001 | 80196 | RNF34 |
| -0.207554087 | < 0.001 | 219790 | RTKN2 |
| -0.207588077 | < 0.001 | 2073 | ERCC5 |
| -0.207634509 | < 0.001 | 29994 | BAZ2B |
| -0.207698688 | < 0.001 | 401242 | XXBAC-BPG308K3.6 |
| -0.207704723 | < 0.001 | 971 | CD72 |
| -0.207809284 | < 0.001 | 149501 | KRT8P45 |
| -0.207884699 | < 0.001 | 64983 | MRPL32 |
| -0.20808278 | < 0.001 | 9241 | NOG |
| -0.208159387 | < 0.001 | 6049 | RNF6 |
| -0.208177313 | < 0.001 | 55601 | AC068989.2 |
| -0.20820564 | < 0.001 | 56952 | PRTFDC1 |
| -0.208222166 | < 0.001 | 10209 | EIF1 |
| -0.20824334 | < 0.001 | 51805 | COQ3 |
| -0.208245113 | < 0.001 | 140828 | LINC00261 |
| -0.208287552 | < 0.001 | 1149 | CIDEA |
| -0.208304629 | < 0.001 | 84839 | RAX2 |
| -0.208329156 | < 0.001 | 91748 | C14orf43 |
| -0.208373815 | < 0.001 | 975 | CD81 |
| -0.208404005 | < 0.001 | 138199 | C9orf41 |
| -0.208410591 | < 0.001 | 645843 | TMEM14E |
| -0.208414122 | < 0.001 | 57615 | ZNF492 |
| -0.208461955 | < 0.001 | 10636 | RGS14 |
| -0.208511263 | < 0.001 | 26504 | CNNM4 |
| -0.208515167 | < 0.001 | 1615 | DARS |
| -0.208595216 | < 0.001 | 925 | CD8A |
| -0.208631516 | < 0.001 | 10581 | IFITM2 |
| -0.208663374 | < 0.001 | 6135 | RPL11 |
| -0.20870024 | < 0.001 | 29941 | PKN3 |
| -0.208706737 | < 0.001 | 1958 | EGR1 |
| -0.208718255 | < 0.001 | 100240734 | LOC100240734 |
| -0.208765253 | < 0.001 | 51540 | SCLY |
| -0.208851054 | < 0.001 | 387841 | RP11-392P7.1 |
| -0.208856538 | < 0.001 | 348645 | C22orf34 |
| -0.20892489 | < 0.001 | 85437 | ZCRB1 |
| -0.209091946 | < 0.001 | 256309 | CCDC110 |
| -0.209133089 | < 0.001 | 55266 | TMEM19 |
| -0.209187508 | < 0.001 | 80210 | ARMC9 |
| -0.209193736 | < 0.001 | 201514 | ZNF584 |
| -0.209243789 | < 0.001 | 378708 | APITD1 |
| -0.20932886 | < 0.001 | 57680 | CHD8 |
| -0.209357172 | < 0.001 | 92312 | MEX3A |
| -0.209408343 | < 0.001 | 8872 | CDC123 |
| -0.209500372 | < 0.001 | 6224 | RPS20 |
| -0.209506318 | < 0.001 | 80758 | PRR7 |
| -0.209582657 | < 0.001 | 10795 | ZNF268 |
| -0.209665492 | < 0.001 | 54916 | C14orf101 |
| -0.209737927 | < 0.001 | 163259 | DENND2C |
| -0.209786221 | < 0.001 | 23761 | PISD |
| -0.209792808 | < 0.001 | 150209 | AIFM3 |
| -0.20989728 | < 0.001 | 284252 | KCTD1 |
| -0.209908888 | < 0.001 | 85391 | SNORD14E |
| -0.209932759 | < 0.001 | 54985 | HCFC1R1 |
| -0.209954306 | < 0.001 | 6143 | RPL19P12 |
| -0.21003826 | < 0.001 | 51429 | SNX9 |
| -0.210097313 | < 0.001 | 1535 | CYBA |
| -0.210111707 | < 0.001 | 790 | CAD |
| -0.21019873 | < 0.001 | 6129 | RPL7 |
| -0.210222036 | < 0.001 | 23539 | SLC16A8 |
| -0.210246831 | < 0.001 | 51660 | BRP44L |
| -0.210257426 | < 0.001 | 2687 | GGT5 |
| -0.210267633 | < 0.001 | 56 | ACRV1 |
| -0.210311845 | < 0.001 | 2729 | GCLC |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.262548268 | 0.121770896 | 0.17 | 1 | 8406 | SRPX |
| -0.262548268 | 0.121770896 | 0.136 | 1 | 27013 | C2orf24 |
| -0.262548268 | 0.121770896 | 0.147 | 1 | 55751 | TMEM184C |
| -0.262805641 | 0.121395603 | 0.155 | 1 | 10568 | SLC34A2 |
| -0.262805641 | 0.121395603 | 0.158 | 1 | 10994 | ILVBL |
| -0.262805641 | 0.121395603 | 0.124 | 1 | 11174 | ADAMTS6 |
| -0.262805641 | 0.121395603 | 0.192 | 1 | 26052 | DNM3 |
| -0.262805641 | 0.121395603 | 0.146 | 1 | 118924 | C10orf4 |
| -0.262805641 | 0.121395603 | 0.158 | 1 | 200186 | CRTC2 |
| -0.263063073 | 0.121021233 | 0.164 | 1 | 477 | ATP1A2 |
| -0.263063073 | 0.121021233 | 0.145 | 1 | 4489 | MT1A |
| -0.263063073 | 0.121021233 | 0.142 | 1 | 10627 | MYL12A |
| -0.263063073 | 0.121021233 | 0.157 | 1 | 56111 | PCDHGA4 |
| -0.263063073 | 0.121021233 | 0.148 | 1 | 83868 | TTTY13 |
| -0.263320446 | 0.12064749 | 0.144 | 1 | 960 | CD44 |
| -0.263320446 | 0.12064749 | 0.135 | 1 | 4215 | MAP3K3 |
| -0.263320446 | 0.12064749 | 0.126 | 1 | 5894 | RAF1 |
| -0.263320446 | 0.12064749 | 0.14 | 1 | 8877 | SPHK1 |
| -0.263320446 | 0.12064749 | 0.154 | 1 | 493911 | PHOSPHO2 |
| -0.263577878 | 0.120274864 | 0.138 | 1 | 5046 | PCSK6 |
| -0.263577878 | 0.120274864 | 0.148 | 1 | 7422 | VEGFA |
| -0.263577878 | 0.120274864 | 0.141 | 1 | 8645 | KCNK5 |
| -0.263577878 | 0.120274864 | 0.158 | 1 | 10174 | SORBS3 |
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| -0.263577878 | 0.120274864 | 0.145 | 1 | 23642 | SNHG1 |
| -0.263577878 | 0.120274864 | 0.161 | 1 | 60625 | DHX35 |
| -0.263577878 | 0.120274864 | 0.155 | 1 | 85414 | SLC45A3 |
| -0.263835251 | 0.119903065 | 0.154 | 1 | 661 | POLR3D |
| -0.263835251 | 0.119903065 | 0.164 | 1 | 10301 | DLEU1 |
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| -0.264092654 | 0.119532183 | 0.139 | 1 | 5008 | OSM |
| -0.264092654 | 0.119532183 | 0.143 | 1 | 9304 | SNORD22 |
| -0.264092654 | 0.119532183 | 0.143 | 1 | 79691 | QTRTD1 |
| -0.264350057 | 0.11916212 | 0.16 | 1 | 8189 | SYMPK |
| -0.264350057 | 0.11916212 | 0.138 | 1 | 9054 | NFS1 |
| -0.264350057 | 0.11916212 | 0.142 | 1 | 10762 | NUP50 |
| -0.264350057 | 0.11916212 | 0.131 | 1 | 27342 | RABGEF1 |
| -0.264350057 | 0.11916212 | 0.143 | 1 | 115416 | MALSU1 |
| -0.264607459 | 0.118792765 | 0.16 | 1 | 7957 | EPM2A |
| -0.264607459 | 0.118792765 | 0.147 | 1 | 10941 | UGT2A1 |
| -0.264607459 | 0.118792765 | 0.135 | 1 | 56672 | C11orf17 |
| -0.264607459 | 0.118792765 | 0.149 | 1 | 138241 | C9orf85 |
| -0.264607459 | 0.118792765 | 0.142 | 1 | 286451 | YIPF6 |
| -0.264864862 | 0.118424445 | 0.144 | 1 | 6392 | SDHD |
| -0.264864862 | 0.118424445 | 0.142 | 1 | 6678 | SPARC |
| -0.264864862 | 0.118424445 | 0.147 | 1 | 55338 | FLJ11292 |
| -0.264864862 | 0.118424445 | 0.156 | 1 | 124093 | CCDC78 |
| -0.265122265 | 0.118057035 | 0.147 | 1 | 8869 | ST3GAL5 |
| -0.265122265 | 0.118057035 | 0.149 | 1 | 25980 | C20orf4 |
| -0.265122265 | 0.118057035 | 0.139 | 1 | 80174 | DBF4B |
| -0.265122265 | 0.118057035 | 0.184 | 1 | 92283 | ZNF461 |
| -0.265122265 | 0.118057035 | 0.155 | 1 | 158787 | RIBC1 |
| -0.265379637 | 0.117690429 | 0.165 | 1 | 57475 | PLEKHH1 |
| -0.265379637 | 0.117690429 | 0.155 | 1 | 148741 | ANKRD35 |
| -0.265379637 | 0.117690429 | 0.156 | 1 | 221504 | ZBTB9 |
| -0.26563707 | 0.117324546 | 0.147 | 1 | 2327 | FMO2 |
| -0.26563707 | 0.117324546 | 0.157 | 1 | 7697 | ZNF138 |
| -0.26563707 | 0.117324546 | 0.147 | 1 | 9093 | DNAJA3 |
| -0.26563707 | 0.117324546 | 0.15 | 1 | 9356 | SLC22A6 |
| -0.26563707 | 0.117324546 | 0.151 | 1 | 115811 | IQCD |
| -0.26563707 | 0.117324546 | 0.15 | 1 | 124411 | ZNF720 |
| -0.26563707 | 0.117324546 | 0.154 | 1 | 145226 | RDH12 |
| -0.26563707 | 0.117324546 | 0.132 | 1 | 283999 | AC087645.1 |
| -0.26563707 | 0.117324546 | 0.147 | 1 | 341567 | H1FNT |
| -0.265894473 | 0.116959676 | 0.153 | 1 | 2532 | DARC |
| -0.265894473 | 0.116959676 | 0.163 | 1 | 3805 | KIR2DL4 |
| -0.265894473 | 0.116959676 | 0.149 | 1 | 26278 | SACS |
| -0.265894473 | 0.116959676 | 0.151 | 1 | 79970 | ZNF767 |
| -0.265894473 | 0.116959676 | 0.146 | 1 | 90196 | SYS1 |
| -0.266151875 | 0.116595671 | 0.121 | 1 | 6352 | CCL5 |
| -0.266151875 | 0.116595671 | 0.135 | 1 | 7551 | ZNF3 |
| -0.266151875 | 0.116595671 | 0.13 | 1 | 66035 | SLC2A11 |
| -0.266151875 | 0.116595671 | 0.15 | 1 | 79842 | ZBTB3 |
| -0.266151875 | 0.116595671 | 0.143 | 1 | 162967 | ZNF320 |
| -0.266151875 | 0.116595671 | 0.157 | 1 | 387990 | TOMM20L |
| -0.266409278 | 0.116232559 | 0.144 | 1 | 27079 | RPUSD2 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.210384458 | < 0.001 | 2886 | GRB7 |
| -0.210403875 | < 0.001 | 2053 | EPHX2 |
| -0.210438699 | < 0.001 | 4043 | LRPAP1 |
| -0.210457638 | < 0.001 | 79989 | TTC26 |
| -0.210470453 | < 0.001 | 8863 | PER3 |
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| -0.21054326 | < 0.001 | 114757 | CYGB |
| -0.210591465 | < 0.001 | 54462 | KIAA1128 |
| -0.210601673 | < 0.001 | 197259 | MLKL |
| -0.21067141 | < 0.001 | 200539 | ANKRD23 |
| -0.210676715 | < 0.001 | 55349 | CHDH |
| -0.21070309 | < 0.001 | 100288788 | LOC100288788 |
| -0.210775793 | < 0.001 | 1655 | DDX5 |
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| -0.210884258 | < 0.001 | 84876 | ORAI1 |
| -0.210905999 | < 0.001 | 6230 | RPS25 |
| -0.210908785 | < 0.001 | 22976 | PAXIP1 |
| -0.210920662 | < 0.001 | 57730 | ANKRD36B |
| -0.211016685 | < 0.001 | 445582 | POTEE |
| -0.211038709 | < 0.001 | 6948 | TCN2 |
| -0.211090341 | < 0.001 | 26235 | FBXL4 |
| -0.211108446 | < 0.001 | 54875 | CNTLN |
| -0.2112353 | < 0.001 | 114790 | STK11IP |
| -0.211272255 | < 0.001 | 25921 | ZDHHC5 |
| -0.211284891 | < 0.001 | 57721 | METTL14 |
| -0.211378679 | < 0.001 | 89781 | HPS4 |
| -0.211420193 | < 0.001 | 1029 | CDKN2A |
| -0.211469978 | < 0.001 | 442245 | GSTM2P1 |
| -0.211516783 | < 0.001 | 51090 | PLLP |
| -0.211528197 | < 0.001 | 5286 | PIK3C2A |
| -0.211606577 | < 0.001 | 5443 | POMC |
| -0.211776063 | < 0.001 | 1271 | CNTFR |
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| -0.21191369 | < 0.001 | 56834 | GPR137 |
| -0.211937651 | < 0.001 | 728841 | NBPF8 |
| -0.211963922 | < 0.001 | 29914 | UBIAD1 |
| -0.21200636 | < 0.001 | 2348 | FOLR1 |
| -0.212317094 | < 0.001 | 284232 | ANKRD20A9P |
| -0.21232833 | < 0.001 | 221749 | C6orf145 |
| -0.212332144 | < 0.001 | 51434 | ANAPC7 |
| -0.212380901 | < 0.001 | 9937 | DCLRE1A |
| -0.212450638 | < 0.001 | 8631 | SKAP1 |
| -0.212454632 | < 0.001 | 10150 | MBNL2 |
| -0.212482959 | < 0.001 | 54879 | ST7L |
| -0.212536722 | < 0.001 | 161253 | REM2 |
| -0.212549254 | < 0.001 | 127064 | OR2T12 |
| -0.212584183 | < 0.001 | 91419 | XRCC6BP1 |
| -0.212613806 | < 0.001 | 137835 | TMEM71 |
| -0.212662458 | < 0.001 | 730183 | LOC730183 |
| -0.212788299 | < 0.001 | 8153 | RND2 |
| -0.212788761 | < 0.001 | 2323 | FLT3LG |
| -0.212806225 | < 0.001 | 83449 | PMFBP1 |
| -0.212814942 | < 0.001 | 2736 | GLI2 |
| -0.21286045 | < 0.001 | 3609 | ILF3 |
| -0.212881908 | < 0.001 | 100132708 | CYP4F30P |
| -0.212941155 | < 0.001 | 51643 | TMBIM4 |
| -0.212994546 | < 0.001 | 100125288 | AC011511.1 |
| -0.213004023 | < 0.001 | 643749 | TRAF3IP2-AS1 |
| -0.21305947 | < 0.001 | 56242 | ZNF253 |
| -0.213178515 | < 0.001 | 389203 | C4ORF52 |
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| -0.213430092 | < 0.001 | 54885 | TBC1D8B |
| -0.213442162 | < 0.001 | 7755 | ZNF205 |
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| -0.213857561 | < 0.001 | 190 | NR0B1 |
| -0.213908449 | < 0.001 | 81887 | LAS1L |
| -0.213943824 | < 0.001 | 9668 | ZNF432 |
| -0.214112654 | < 0.001 | 54681 | P4HTM |
| -0.214133739 | < 0.001 | 340888 | LOC340888 |
| -0.21419327 | < 0.001 | 56918 | C2orf83 |
| -0.214220285 | < 0.001 | 3106 | HLA-B |
| -0.214229763 | < 0.001 | 283643 | C14orf80 |
| -0.214237928 | < 0.001 | 153090 | DAB2IP |
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| -0.214287058 | < 0.001 | 7991 | TUSC3 |

| region-wise, subcortex | | | | | |
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| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.266409278 | 0.116232559 | 0.151 | 1 | 404203 | SPINK6 |
| -0.266666651 | 0.115870111 | 0.124 | 1 | 26099 | C1orf144 |
| -0.266666651 | 0.115870111 | 0.149 | 1 | 91977 | MYOZ3 |
| -0.266666651 | 0.115870111 | 0.159 | 1 | 164592 | CCDC116 |
| -0.266666651 | 0.115870111 | 0.152 | 1 | 257160 | RNF214 |
| -0.266924083 | 0.115508683 | 0.15 | 1 | 2272 | FHIT |
| -0.266924083 | 0.115508683 | 0.139 | 1 | 4676 | NAP1L4 |
| -0.266924083 | 0.115508683 | 0.159 | 1 | 79058 | ASPSCR1 |
| -0.266924083 | 0.115508683 | 0.141 | 1 | 157310 | PEBP4 |
| -0.266924083 | 0.115508683 | 0.186 | 1 | 221613 | HIST1H2AA |
| -0.267181456 | 0.115148112 | 0.146 | 1 | 11339 | OIP5 |
| -0.267181456 | 0.115148112 | 0.139 | 1 | 55667 | DENND4C |
| -0.267181456 | 0.115148112 | 0.144 | 1 | 79585 | CORO7 |
| -0.267181456 | 0.115148112 | 0.152 | 1 | 80824 | DUSP16 |
| -0.267181456 | 0.115148112 | 0.131 | 1 | 387267 | KRTAP5-4 |
| -0.267438889 | 0.114788406 | 0.158 | 1 | 4829 | NMBR |
| -0.267438889 | 0.114788406 | 0.149 | 1 | 5629 | PROX1 |
| -0.267438889 | 0.114788406 | 0.131 | 1 | 9388 | LIPG |
| -0.267438889 | 0.114788406 | 0.15 | 1 | 9705 | ST18 |
| -0.267438889 | 0.114788406 | 0.149 | 1 | 23145 | SSPO |
| -0.267438889 | 0.114788406 | 0.137 | 1 | 79258 | MMEL1 |
| -0.267438889 | 0.114788406 | 0.154 | 1 | 84735 | CNDP1 |
| -0.267438889 | 0.114788406 | 0.153 | 1 | 135924 | OR9A2 |
| -0.267438889 | 0.114788406 | 0.138 | 1 | 348093 | RBPMS2 |
| -0.267696261 | 0.114429578 | 0.161 | 1 | 5500 | PPP1CB |
| -0.267696261 | 0.114429578 | 0.143 | 1 | 51093 | C1orf66 |
| -0.267696261 | 0.114429578 | 0.139 | 1 | 166968 | MIER3 |
| -0.267953664 | 0.114071406 | 0.148 | 1 | 1465 | CSRP1 |
| -0.267953664 | 0.114071406 | 0.152 | 1 | 1728 | NQO1 |
| -0.267953664 | 0.114071406 | 0.158 | 1 | 5190 | PEX6 |
| -0.268211067 | 0.113714248 | 0.148 | 1 | 953 | ENTPD1 |
| -0.268211067 | 0.113714248 | 0.136 | 1 | 7783 | ZP2 |
| -0.268468469 | 0.113357946 | 0.142 | 1 | 5241 | PGR |
| -0.268468469 | 0.113357946 | 0.152 | 1 | 7298 | TYMS |
| -0.268468469 | 0.113357946 | 0.127 | 1 | 200030 | NBPF11 |
| -0.268468469 | 0.113357946 | 0.154 | 1 | 646127 | LOC646127 |
| -0.268468469 | 0.113357946 | 0.151 | 1 | 729652 | LOC729652 |
| -0.268725872 | 0.113002494 | 0.132 | 1 | 2696 | GIPR |
| -0.268725872 | 0.113002494 | 0.148 | 1 | 3290 | HSD11B1 |
| -0.268725872 | 0.113002494 | 0.122 | 1 | 10380 | BPNT1 |
| -0.268725872 | 0.113002494 | 0.146 | 1 | 80110 | ZNF614 |
| -0.268725872 | 0.113002494 | 0.127 | 1 | 89941 | RHOT2 |
| -0.268725872 | 0.113002494 | 0.162 | 1 | 164395 | TTLL9 |
| -0.268983275 | 0.112647764 | 0.135 | 1 | 7472 | WNT2 |
| -0.268983275 | 0.112647764 | 0.139 | 1 | 51616 | TAF9B |
| -0.268983275 | 0.112647764 | 0.151 | 1 | 84219 | WDR24 |
| -0.268983275 | 0.112647764 | 0.134 | 1 | 163786 | SASS6 |
| -0.269240648 | 0.112294003 | 0.143 | 1 | 10365 | KLF2 |
| -0.269240648 | 0.112294003 | 0.145 | 1 | 85437 | ZCRB1 |
| -0.269240648 | 0.112294003 | 0.118 | 1 | 376940 | ZC3H6 |
| -0.269240648 | 0.112294003 | 0.159 | 1 | 390010 | NKX1-2 |
| -0.26949808 | 0.111941099 | 0.138 | 1 | 23150 | FRMD4B |
| -0.26949808 | 0.111941099 | 0.143 | 1 | 58503 | PROL1 |
| -0.269755453 | 0.111589029 | 0.149 | 1 | 2313 | FLI1 |
| -0.269755453 | 0.111589029 | 0.155 | 1 | 54875 | CNTLN |
| -0.269755453 | 0.111589029 | 0.162 | 1 | 57205 | ATP10D |
| -0.269755453 | 0.111589029 | 0.143 | 1 | 80864 | XXBAC-BPG300A18.12 |
| -0.269755453 | 0.111589029 | 0.142 | 1 | 93164 | AC007688.2 |
| -0.270012885 | 0.111237653 | 0.129 | 1 | 6470 | SHMT1 |
| -0.270012885 | 0.111237653 | 0.155 | 1 | 10165 | SLC25A13 |
| -0.270012885 | 0.111237653 | 0.128 | 1 | 10513 | APPBP2 |
| -0.270012885 | 0.111237653 | 0.122 | 1 | 54878 | DPP8 |
| -0.270270258 | 0.110887319 | 0.12 | 1 | 6390 | SDHB |
| -0.270270258 | 0.110887319 | 0.141 | 1 | 9572 | NR1D1 |
| -0.270270258 | 0.110887319 | 0.14 | 1 | 10690 | FUT9 |
| -0.270270258 | 0.110887319 | 0.12 | 1 | 89782 | LMLN |
| -0.270270258 | 0.110887319 | 0.148 | 1 | 148823 | C1orf150 |
| -0.270270258 | 0.110887319 | 0.12 | 1 | 374291 | NDUFS7 |
| -0.270527661 | 0.110537775 | 0.147 | 1 | 2897 | GRIK1 |
| -0.270527661 | 0.110537775 | 0.145 | 1 | 55147 | RBM23 |
| -0.270527661 | 0.110537775 | 0.148 | 1 | 119504 | C10orf104 |
| -0.270527661 | 0.110537775 | 0.13 | 1 | 162699 | TCEB3C |
| -0.270527661 | 0.110537775 | 0.146 | 1 | 353322 | ANKRD37 |
| -0.270527661 | 0.110537775 | 0.125 | 1 | 100130935 | LOC100130935 |
| -0.270785064 | 0.11018908 | 0.119 | 1 | 6618 | SNAPC2 |
| -0.270785064 | 0.11018908 | 0.121 | 1 | 11227 | GALNT5 |
| -0.271042466 | 0.10984122 | 0.139 | 1 | 1026 | CDKN1A |
| -0.271042466 | 0.10984122 | 0.147 | 1 | 1535 | CYBA |
| -0.271042466 | 0.10984122 | 0.132 | 1 | 10067 | SCAMP3 |

| voxel-wise, subcortex | | | |
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| -0.214402303 | < 0.001 | 54925 | ZNF434 |
| -0.214418843 | < 0.001 | 339487 | ZBTB8OS |
| -0.214514956 | < 0.001 | 595 | CCND1 |
| -0.214566126 | < 0.001 | 221938 | MMD2 |
| -0.214573458 | < 0.001 | 969 | CD69 |
| -0.214665115 | < 0.001 | 54496 | PRMT7 |
| -0.214731336 | < 0.001 | 158787 | RIBC1 |
| -0.214829773 | < 0.001 | 55072 | RNF31 |
| -0.214851037 | < 0.001 | 442075 | AC034193.5 |
| -0.214911208 | < 0.001 | 29128 | UHRF1 |
| -0.215051532 | < 0.001 | 2887 | GRB10 |
| -0.215116352 | < 0.001 | 55344 | PLCXD1 |
| -0.21513325 | < 0.001 | 64127 | NOD2 |
| -0.215179503 | < 0.001 | 3646 | EIF3E |
| -0.215245619 | < 0.001 | 122961 | ISCA2 |
| -0.215266421 | < 0.001 | 83707 | TRPT1 |
| -0.215311095 | < 0.001 | 1997 | ELF1 |
| -0.215321675 | < 0.001 | 56927 | GPR108 |
| -0.215326041 | < 0.001 | 100131998 | RRN3P3 |
| -0.215347871 | < 0.001 | 122481 | AK7 |
| -0.215457723 | < 0.001 | 4629 | MYH11 |
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| -0.215553939 | < 0.001 | 644903 | FLJ38668 |
| -0.215587839 | < 0.001 | 7562 | ZNF708 |
| -0.215611145 | < 0.001 | 3991 | LIPE |
| -0.215654984 | < 0.001 | 7200 | TRH |
| -0.215683028 | < 0.001 | 84231 | TRAF7 |
| -0.21575211 | < 0.001 | 26137 | ZBTB20 |
| -0.215821952 | < 0.001 | 92715 | WDR85 |
| -0.215823993 | < 0.001 | 55761 | TTC17 |
| -0.215907753 | < 0.001 | 114826 | SMYD4 |
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| -0.216068596 | < 0.001 | 285741 | LOC285741 |
| -0.216108814 | < 0.001 | 29997 | GLTSCR2 |
| -0.216142252 | < 0.001 | 88 | ACTN2 |
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| -0.216446295 | < 0.001 | 23288 | IQCE |
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| -0.217019916 | < 0.001 | 55252 | ASXL2 |
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| -0.217277154 | < 0.001 | 497190 | CLEC18B |
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| -0.217550188 | < 0.001 | 284106 | CISD3 |
| -0.217602566 | < 0.001 | 26993 | AKAP8L |
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| -0.217759416 | < 0.001 | 219833 | C11orf45 |
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| -0.21780993 | < 0.001 | 56649 | TMPRSS4 |
| -0.217916444 | < 0.001 | 222235 | FBXL13 |
| -0.217977747 | < 0.001 | 339324 | ZNF260 |
| -0.218027428 | < 0.001 | 144811 | C13orf31 |
| -0.218160123 | < 0.001 | 28513 | CDH19 |
| -0.218174994 | < 0.001 | 151473 | SLC16A14 |
| -0.218249649 | < 0.001 | 5696 | PSMB8 |
| -0.218259588 | < 0.001 | 114825 | PWWP2A |
| -0.218277231 | < 0.001 | 7263 | TST |
| -0.218318 | < 0.001 | 154661 | RUNDC3B |
| -0.218326539 | < 0.001 | 51738 | GHRL |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.271042466 | 0.10984122 | 0.132 | 1 | 51252 | FAM178B |
| -0.271299869 | 0.109494053 | 0.143 | 1 | 64216 | TFB2M |
| -0.271299869 | 0.109494053 | 0.132 | 1 | 730091 | RP11-392A22.2 |
| -0.271557271 | 0.109147906 | 0.124 | 1 | 483 | ATP1B3 |
| -0.271557271 | 0.109147906 | 0.122 | 1 | 6829 | SUPT5H |
| -0.271557271 | 0.109147906 | 0.135 | 1 | 29911 | HOOK2 |
| -0.271557271 | 0.109147906 | 0.176 | 1 | 284217 | LAMA1 |
| -0.271814644 | 0.108802564 | 0.141 | 1 | 2621 | GAS6 |
| -0.271814644 | 0.108802564 | 0.146 | 1 | 3320 | HSP90AA2 |
| -0.271814644 | 0.108802564 | 0.16 | 1 | 51426 | POLK |
| -0.271814644 | 0.108802564 | 0.156 | 1 | 79140 | CCDC28B |
| -0.271814644 | 0.108802564 | 0.137 | 1 | 442194 | OR10C1 |
| -0.271814644 | 0.108802564 | 0.147 | 1 | 442572 | LOC442572 |
| -0.272072077 | 0.108458057 | 0.128 | 1 | 5442 | POLRMT |
| -0.272072077 | 0.108458057 | 0.134 | 1 | 10616 | RBCK1 |
| -0.272072077 | 0.108458057 | 0.121 | 1 | 11274 | USP18 |
| -0.272072077 | 0.108458057 | 0.126 | 1 | 55544 | RBM38 |
| -0.272072077 | 0.108458057 | 0.129 | 1 | 57188 | ADAMTSL3 |
| -0.27232945 | 0.108114235 | 0.163 | 1 | 6560 | SLC12A4 |
| -0.27232945 | 0.108114235 | 0.147 | 1 | 7633 | ZNF79 |
| -0.27232945 | 0.108114235 | 0.14 | 1 | 9584 | RBM39 |
| -0.27232945 | 0.108114235 | 0.127 | 1 | 9911 | TMCC2 |
| -0.27232945 | 0.108114235 | 0.14 | 1 | 151258 | SLC38A11 |
| -0.272586882 | 0.107771397 | 0.136 | 1 | 6714 | SRC |
| -0.272586882 | 0.107771397 | 0.13 | 1 | 57380 | MRS2 |
| -0.272586882 | 0.107771397 | 0.134 | 1 | 150622 | LOC150622 |
| -0.272844285 | 0.10742943 | 0.143 | 1 | 3764 | KCNJ8 |
| -0.273101658 | 0.107088245 | 0.133 | 1 | 4879 | NPPB |
| -0.273101658 | 0.107088245 | 0.127 | 1 | 5528 | PPP2R5D |
| -0.273101658 | 0.107088245 | 0.125 | 1 | 51285 | RASL12 |
| -0.27335909 | 0.106747895 | 0.137 | 1 | 6363 | CCL19 |
| -0.27335909 | 0.106747895 | 0.12 | 1 | 54507 | ADAMTSL4 |
| -0.27335909 | 0.106747895 | 0.138 | 1 | 55065 | GPR172B |
| -0.27335909 | 0.106747895 | 0.144 | 1 | 80298 | MTERFD3 |
| -0.27335909 | 0.106747895 | 0.115 | 1 | 84331 | C16orf14 |
| -0.27335909 | 0.106747895 | 0.109 | 1 | 441272 | SPDYE3 |
| -0.273616463 | 0.106408231 | 0.136 | 1 | 1573 | CYP2J2 |
| -0.273616463 | 0.106408231 | 0.132 | 1 | 55036 | CCDC40 |
| -0.273616463 | 0.106408231 | 0.144 | 1 | 84080 | C16orf48 |
| -0.273616463 | 0.106408231 | 0.133 | 1 | 730112 | FAM166B |
| -0.273873895 | 0.106069535 | 0.132 | 1 | 8495 | PPFIBP2 |
| -0.273873895 | 0.106069535 | 0.136 | 1 | 23417 | MLYCD |
| -0.273873895 | 0.106069535 | 0.118 | 1 | 79927 | GRRP1 |
| -0.273873895 | 0.106069535 | 0.128 | 1 | 168667 | BMPER |
| -0.273873895 | 0.106069535 | 0.134 | 1 | 728441 | GGT2 |
| -0.274131268 | 0.105731703 | 0.14 | 1 | 1101 | CHAD |
| -0.274131268 | 0.105731703 | 0.124 | 1 | 1997 | ELF1 |
| -0.274131268 | 0.105731703 | 0.143 | 1 | 2571 | GAD1 |
| -0.274131268 | 0.105731703 | 0.138 | 1 | 3993 | LLGL2 |
| -0.274131268 | 0.105731703 | 0.127 | 1 | 26191 | PTPN22 |
| -0.274131268 | 0.105731703 | 0.132 | 1 | 56155 | TEX14 |
| -0.274131268 | 0.105731703 | 0.126 | 1 | 79142 | PHF23 |
| -0.274131268 | 0.105731703 | 0.153 | 1 | 79956 | ERMP1 |
| -0.274131268 | 0.105731703 | 0.133 | 1 | 112869 | CCDC101 |
| -0.274388671 | 0.105394669 | 0.142 | 1 | 18 | ABAT |
| -0.274388671 | 0.105394669 | 0.115 | 1 | 202915 | TMEM184A |
| -0.274388671 | 0.105394669 | 0.134 | 1 | 285343 | C3orf23 |
| -0.274646074 | 0.105058305 | 0.152 | 1 | 5359 | PLSCR1 |
| -0.274646074 | 0.105058305 | 0.114 | 1 | 10993 | SDS |
| -0.274903476 | 0.104722902 | 0.153 | 1 | 7503 | XIST |
| -0.274903476 | 0.104722902 | 0.132 | 1 | 57556 | SEMA6A |
| -0.274903476 | 0.104722902 | 0.135 | 1 | 128488 | WFDC12 |
| -0.274903476 | 0.104722902 | 0.137 | 1 | 160287 | LDHAL6A |
| -0.275160879 | 0.104388334 | 0.116 | 1 | 7094 | TLN1 |
| -0.275160879 | 0.104388334 | 0.148 | 1 | 7473 | WNT3 |
| -0.275160879 | 0.104388334 | 0.136 | 1 | 10813 | UTP14A |
| -0.275160879 | 0.104388334 | 0.115 | 1 | 11325 | DDX42 |
| -0.275160879 | 0.104388334 | 0.151 | 1 | 85366 | MYLK2 |
| -0.275418282 | 0.104054615 | 0.141 | 1 | 8320 | EOMES |
| -0.275418282 | 0.104054615 | 0.129 | 1 | 51439 | FAM8A1 |
| -0.275418282 | 0.104054615 | 0.149 | 1 | 84674 | CARD6 |
| -0.275418282 | 0.104054615 | 0.132 | 1 | 92017 | SNX29 |
| -0.275418282 | 0.104054615 | 0.157 | 1 | 93166 | PRDM6 |
| -0.275675654 | 0.103721537 | 0.142 | 1 | 1288 | COL4A6 |
| -0.275675654 | 0.103721537 | 0.131 | 1 | 1528 | CYB5A |
| -0.275675654 | 0.103721537 | 0.115 | 1 | 3912 | LAMB1 |
| -0.275675654 | 0.103721537 | 0.123 | 1 | 4163 | MCC |
| -0.275675654 | 0.103721537 | 0.144 | 1 | 23269 | MGA |
| -0.275675654 | 0.103721537 | 0.126 | 1 | 64150 | DIO3OS |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.218491286 | < 0.001 | 6581 | SLC22A3 |
| -0.21857515 | < 0.001 | 22858 | ICK |
| -0.218622327 | < 0.001 | 80324 | PUS1 |
| -0.218679443 | < 0.001 | 5525 | PPP2R5A |
| -0.218703493 | < 0.001 | 23198 | PSME4 |
| -0.218716577 | < 0.001 | 441416 | GPR116P2 |
| -0.218729764 | < 0.001 | 51116 | MRPS2 |
| -0.218752056 | < 0.001 | 728658 | RPL13AP5 |
| -0.218815118 | < 0.001 | 2850 | GPR27 |
| -0.21881707 | < 0.001 | 84909 | C9orf3 |
| -0.218831927 | < 0.001 | 2077 | ERF |
| -0.218905479 | < 0.001 | 22944 | KIN |
| -0.218933702 | < 0.001 | 27443 | CECR2 |
| -0.218956366 | < 0.001 | 9688 | NUP93 |
| -0.219022483 | < 0.001 | 22897 | CEP164 |
| -0.219026297 | < 0.001 | 26030 | PLEKHG3 |
| -0.219046623 | < 0.001 | 57124 | CD248 |
| -0.219057307 | < 0.001 | 6446 | SGK1 |
| -0.219131872 | < 0.001 | 57093 | TRIM49 |
| -0.219135866 | < 0.001 | 9304 | SNORD22 |
| -0.219153419 | < 0.001 | 34 | ACADM |
| -0.219427377 | < 0.001 | 205860 | TRIML2 |
| -0.219439074 | < 0.001 | 3791 | KDR |
| -0.219615713 | < 0.001 | 574407 | C1orf145 |
| -0.219670683 | < 0.001 | 55180 | LINS |
| -0.21983172 | < 0.001 | 127795 | C1orf87 |
| -0.219838127 | < 0.001 | 6392 | SDHD |
| -0.219969437 | < 0.001 | 339451 | KLHL17 |
| -0.220032126 | < 0.001 | 11149 | BVES |
| -0.220072791 | < 0.001 | 100289026 | LOC100289026 |
| -0.220170125 | < 0.001 | 1181 | CLCN2 |
| -0.220192313 | < 0.001 | 379 | ARL4D |
| -0.220213115 | < 0.001 | 81629 | TSSK3 |
| -0.220219523 | < 0.001 | 30008 | EFEMP2 |
| -0.220256492 | < 0.001 | 728378 | A26C1B |
| -0.220282584 | < 0.001 | 114885 | OSBPL11 |
| -0.22029902 | < 0.001 | 100129827 | AC009532.1 |
| -0.220318526 | < 0.001 | 7481 | WNT11 |
| -0.220358729 | < 0.001 | 9705 | ST18 |
| -0.220378786 | < 0.001 | 79718 | TBL1XR1 |
| -0.220453739 | < 0.001 | 64222 | TOR3A |
| -0.220497012 | < 0.001 | 10430 | TMEM147 |
| -0.220751464 | < 0.001 | 64115 | C10orf54 |
| -0.220761493 | < 0.001 | 256006 | ANKRD31 |
| -0.22078675 | < 0.001 | 4988 | OPRM1 |
| -0.220792323 | < 0.001 | 124056 | NOXO1 |
| -0.220800221 | < 0.001 | 79991 | OBFC1 |
| -0.220868006 | < 0.001 | 8869 | ST3GAL5 |
| -0.220954195 | < 0.001 | 204010 | RPSAP52 |
| -0.221055686 | < 0.001 | 5654 | HTRA1 |
| -0.221106589 | < 0.001 | 51174 | TUBD1 |
| -0.221180603 | < 0.001 | 7082 | TJP1 |
| -0.221221268 | < 0.001 | 112398 | EGLN2 |
| -0.221254885 | < 0.001 | 131096 | KCNH8 |
| -0.221314698 | < 0.001 | 131566 | DCBLD2 |
| -0.221326485 | < 0.001 | 6938 | TCF12 |
| -0.221343026 | < 0.001 | 8493 | PPM1D |
| -0.221356019 | < 0.001 | 25817 | FAM19A5 |
| -0.221360669 | < 0.001 | 3304 | HSPA1B |
| -0.221457615 | < 0.001 | 388335 | TMEM220 |
| -0.221462354 | < 0.001 | 260294 | NSUN5C |
| -0.221470252 | < 0.001 | 84735 | CNDP1 |
| -0.221590415 | < 0.001 | 54532 | USP53 |
| -0.221595705 | < 0.001 | 5858 | PZP |
| -0.221600994 | < 0.001 | 115024 | NT5C3L |
| -0.22160992 | < 0.001 | 23043 | TNIK |
| -0.221611962 | < 0.001 | 29777 | ABT1 |
| -0.2217208 | < 0.001 | 84135 | UTP15 |
| -0.221747726 | < 0.001 | 79230 | ZNF557 |
| -0.221773818 | < 0.001 | 5530 | PPP3CA |
| -0.221804842 | < 0.001 | 10062 | NR1H3 |
| -0.221851826 | < 0.001 | 54468 | MIOS |
| -0.22193104 | < 0.001 | 6207 | RPS13P2 |
| -0.221942753 | < 0.001 | 49856 | WDR8 |
| -0.221981108 | < 0.001 | 114881 | OSBPL7 |
| -0.22204797 | < 0.001 | 133874 | AC034199.2 |
| -0.222054183 | < 0.001 | 7565 | ZNF17 |
| -0.222109169 | < 0.001 | 8356 | HIST1H3J |
| -0.222178817 | < 0.001 | 51111 | SUV420H1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.275675654 | 0.103721537 | 0.129 | 1 | 166378 | SPATA5 |
| -0.275675654 | 0.103721537 | 0.134 | 1 | 542767 | C1QTNF9B-AS1 |
| -0.275933087 | 0.10338942 | 0.13 | 1 | 6909 | TBX2 |
| -0.275933087 | 0.10338942 | 0.144 | 1 | 65095 | KRI1 |
| -0.275933087 | 0.10338942 | 0.133 | 1 | 84890 | ADO |
| -0.275933087 | 0.10338942 | 0.125 | 1 | 85415 | RHPN2 |
| -0.276447892 | 0.102727637 | 0.116 | 1 | 4825 | NKX6-1 |
| -0.276447892 | 0.102727637 | 0.129 | 1 | 54816 | ZNF280D |
| -0.276447892 | 0.102727637 | 0.14 | 1 | 54887 | UHRF1BP1 |
| -0.276447892 | 0.102727637 | 0.147 | 1 | 84978 | FRMD5 |
| -0.276447892 | 0.102727637 | 0.142 | 1 | 199731 | CADM4 |
| -0.276705265 | 0.102398008 | 0.139 | 1 | 2990 | GUSB |
| -0.276705265 | 0.102398008 | 0.136 | 1 | 23395 | LARS2 |
| -0.276705265 | 0.102398008 | 0.116 | 1 | 23644 | EDC4 |
| -0.276962668 | 0.102069005 | 0.124 | 1 | 1021 | CDK6 |
| -0.276962668 | 0.102069005 | 0.139 | 1 | 9514 | GAL3ST1 |
| -0.276962668 | 0.102069005 | 0.145 | 1 | 10686 | CLDN16 |
| -0.276962668 | 0.102069005 | 0.124 | 1 | 54606 | DDX56 |
| -0.276962668 | 0.102069005 | 0.138 | 1 | 57474 | ZNF490 |
| -0.276962668 | 0.102069005 | 0.146 | 1 | 644157 | DND1P1 |
| -0.27722007 | 0.101740964 | 0.126 | 1 | 2113 | ETS1 |
| -0.27722007 | 0.101740964 | 0.113 | 1 | 11065 | UBE2C |
| -0.27722007 | 0.101740964 | 0.125 | 1 | 54970 | TTC12 |
| -0.27722007 | 0.101740964 | 0.147 | 1 | 84274 | COQ5 |
| -0.277477473 | 0.101413734 | 0.125 | 1 | 1395 | CRHR2 |
| -0.277477473 | 0.101413734 | 0.122 | 1 | 1504 | CTRB1 |
| -0.277477473 | 0.101413734 | 0.144 | 1 | 6535 | SLC6A8 |
| -0.277477473 | 0.101413734 | 0.127 | 1 | 7572 | ZNF24 |
| -0.277477473 | 0.101413734 | 0.122 | 1 | 8339 | HIST1H2BG |
| -0.277477473 | 0.101413734 | 0.144 | 1 | 10578 | GNLY |
| -0.277477473 | 0.101413734 | 0.111 | 1 | 23143 | LRCH1 |
| -0.277734876 | 0.101087317 | 0.128 | 1 | 3693 | ITGB5 |
| -0.277734876 | 0.101087317 | 0.124 | 1 | 9510 | ADAMTS1 |
| -0.277992278 | 0.100761592 | 0.129 | 1 | 10991 | SLC38A3 |
| -0.277992278 | 0.100761592 | 0.118 | 1 | 25841 | ABTB2 |
| -0.277992278 | 0.100761592 | 0.122 | 1 | 49856 | WDR8 |
| -0.277992278 | 0.100761592 | 0.127 | 1 | 55646 | LYAR |
| -0.277992278 | 0.100761592 | 0.119 | 1 | 221927 | C7orf27 |
| -0.278249651 | 0.100436792 | 0.139 | 1 | 3303 | HSPA1A |
| -0.278249651 | 0.100436792 | 0.111 | 1 | 3490 | IGFBP7 |
| -0.278249651 | 0.100436792 | 0.119 | 1 | 9968 | MED12 |
| -0.278249651 | 0.100436792 | 0.13 | 1 | 84077 | C3orf20 |
| -0.278249651 | 0.100436792 | 0.143 | 1 | 100132644 | LOC100132644 |
| -0.278507084 | 0.100112788 | 0.115 | 1 | 10815 | CPLX1 |
| -0.278507084 | 0.100112788 | 0.127 | 1 | 256236 | NAPSB |
| -0.278507084 | 0.100112788 | 0.092 | 1 | 284565 | NBPF15 |
| -0.278507084 | 0.100112788 | 0.119 | 1 | 402483 | FLJ45340 |
| -0.278764457 | 0.099789605 | 0.121 | 1 | 7039 | TGFA |
| -0.279021889 | 0.099467099 | 0.134 | 1 | 1955 | MEGF9 |
| -0.279021889 | 0.099467099 | 0.137 | 1 | 3133 | HLA-E |
| -0.279021889 | 0.099467099 | 0.129 | 1 | 8350 | HIST1H3A |
| -0.279021889 | 0.099467099 | 0.117 | 1 | 9754 | STARD8 |
| -0.279021889 | 0.099467099 | 0.11 | 1 | 51296 | SLC15A3 |
| -0.279021889 | 0.099467099 | 0.14 | 1 | 79034 | C7orf26 |
| -0.279279262 | 0.099145517 | 0.111 | 1 | 2774 | GNAL |
| -0.279279262 | 0.099145517 | 0.136 | 1 | 22850 | ADNP2 |
| -0.279536664 | 0.098824732 | 0.114 | 1 | 2057 | EPOR |
| -0.279536664 | 0.098824732 | 0.135 | 1 | 6927 | HNF1A |
| -0.279536664 | 0.098824732 | 0.139 | 1 | 26137 | ZBTB20 |
| -0.279536664 | 0.098824732 | 0.117 | 1 | 55323 | LARP6 |
| -0.279536664 | 0.098824732 | 0.124 | 1 | 56126 | PCDHB10 |
| -0.279536664 | 0.098824732 | 0.117 | 1 | 84304 | NUDT22 |
| -0.279536664 | 0.098824732 | 0.121 | 1 | 389458 | LOC389458 |
| -0.279794097 | 0.098504752 | 0.129 | 1 | 3304 | HSPA1B |
| -0.279794097 | 0.098504752 | 0.159 | 1 | 84807 | NFKBID |
| -0.279794097 | 0.098504752 | 0.105 | 1 | 388407 | C17orf82 |
| -0.279794097 | 0.098504752 | 0.109 | 1 | 401082 | FLJ25363 |
| -0.279794097 | 0.098504752 | 0.12 | 1 | 401242 | XXBAC-BPG308K3.6 |
| -0.28005147 | 0.098185562 | 0.118 | 1 | 1024 | CDK8 |
| -0.28005147 | 0.098185562 | 0.112 | 1 | 85477 | SCIN |
| -0.28005147 | 0.098185562 | 0.141 | 1 | 222699 | TOB2P1 |
| -0.280308902 | 0.097867072 | 0.143 | 1 | 2766 | GMPR |
| -0.280308902 | 0.097867072 | 0.113 | 1 | 23131 | GPATCH8 |
| -0.280308902 | 0.097867072 | 0.13 | 1 | 219681 | ARMC3 |
| -0.280566275 | 0.097549483 | 0.136 | 1 | 9361 | LONP1 |
| -0.280566275 | 0.097549483 | 0.131 | 1 | 29901 | SAC3D1 |
| -0.280823678 | 0.097232692 | 0.136 | 1 | 2999 | GZMH |
| -0.280823678 | 0.097232692 | 0.111 | 1 | 55125 | CEP192 |
| -0.280823678 | 0.097232692 | 0.134 | 1 | 79156 | PLEKHF1 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.222210854 | < 0.001 | 81932 | HDHD3 |
| -0.222236574 | < 0.001 | 8350 | HIST1H3A |
| -0.222249016 | < 0.001 | 23590 | PDSS1 |
| -0.222283378 | < 0.001 | 955 | ENTPD6 |
| -0.222305298 | < 0.001 | 3908 | LAMA2 |
| -0.222310126 | < 0.001 | 126823 | KLHDC9 |
| -0.222468466 | < 0.001 | 80820 | EEPD1 |
| -0.222506627 | < 0.001 | 150622 | LOC150622 |
| -0.222619548 | < 0.001 | 89765 | RSPH1 |
| -0.222649649 | < 0.001 | 203074 | UNQ9391 |
| -0.222687989 | < 0.001 | 256236 | NAPSB |
| -0.222691983 | < 0.001 | 114822 | RHPN1 |
| -0.222706944 | < 0.001 | 2180 | ACSL1 |
| -0.222736478 | < 0.001 | 80833 | APOL3 |
| -0.222754031 | < 0.001 | 55357 | TBC1D2 |
| -0.222831473 | < 0.001 | 4287 | ATXN3 |
| -0.222837791 | < 0.001 | 55245 | UQCC |
| -0.223081291 | < 0.001 | 8729 | GBF1 |
| -0.223144338 | < 0.001 | 1198 | CLK3 |
| -0.223152146 | < 0.001 | 55531 | ELMOD1 |
| -0.223189652 | < 0.001 | 783 | CACNB2 |
| -0.223197371 | < 0.001 | 9514 | GAL3ST1 |
| -0.223298773 | < 0.001 | 147658 | ZNF534 |
| -0.223362297 | < 0.001 | 2639 | GCDH |
| -0.223466396 | < 0.001 | 79149 | ZSCAN5A |
| -0.223581269 | < 0.001 | 112937 | GLB1L3 |
| -0.223621026 | < 0.001 | 79716 | NPEPL1 |
| -0.223652691 | < 0.001 | 58499 | ZNF462 |
| -0.223852813 | < 0.001 | 22921 | MSRB2 |
| -0.223895535 | < 0.001 | 341019 | DCDC1 |
| -0.223952278 | < 0.001 | 345222 | MSANTD1 |
| -0.224009857 | < 0.001 | 55384 | MEG3 |
| -0.224011064 | < 0.001 | 727701 | LINC00165 |
| -0.224094823 | < 0.001 | 128153 | SPATA17 |
| -0.224096492 | < 0.001 | 1769 | DNAH8 |
| -0.224272013 | < 0.001 | 146664 | MGAT5B |
| -0.224282131 | < 0.001 | 441124 | LOC441124 |
| -0.224341661 | < 0.001 | 6863 | TAC1 |
| -0.22435011 | < 0.001 | 4204 | MECP2 |
| -0.224351972 | < 0.001 | 9617 | MTRF1 |
| -0.224363953 | < 0.001 | 116841 | SNAP47 |
| -0.224376202 | < 0.001 | 9619 | ABCG1 |
| -0.22443369 | < 0.001 | 54212 | SNTG1 |
| -0.224492848 | < 0.001 | 403277 | OR5K3 |
| -0.224560633 | < 0.001 | 133022 | TRAM1L1 |
| -0.224606976 | < 0.001 | 134466 | ZNF300P1 |
| -0.224622205 | < 0.001 | 474344 | GIMAP6 |
| -0.224634379 | < 0.001 | 11309 | SLCO2B1 |
| -0.224651366 | < 0.001 | 147948 | ZNF582 |
| -0.224800229 | < 0.001 | 5373 | PMM2 |
| -0.22484082 | < 0.001 | 135228 | CD109 |
| -0.225001574 | < 0.001 | 28514 | DLL1 |
| -0.225100562 | < 0.001 | 84279 | C2orf7 |
| -0.225280628 | < 0.001 | 6601 | SMARCC2 |
| -0.225387886 | < 0.001 | 220004 | C11orf66 |
| -0.225392625 | < 0.001 | 100240735 | LOC100240735 |
| -0.225432366 | < 0.001 | 25907 | TMEM158 |
| -0.225534439 | < 0.001 | 56121 | PCDHB15 |
| -0.225618005 | < 0.001 | 442113 | LOC442113 |
| -0.225620061 | < 0.001 | 64844 | MARCHF7 |
| -0.225629345 | < 0.001 | 64857 | PLEKHG2 |
| -0.225700483 | < 0.001 | 81626 | C1orf14 |
| -0.225723788 | < 0.001 | 10432 | RBM14 |
| -0.225743011 | < 0.001 | 9322 | TRIP10 |
| -0.225747466 | < 0.001 | 729786 | GOLGA8C |
| -0.225780159 | < 0.001 | 220885 | RPSAP15 |
| -0.225819349 | < 0.001 | 2794 | GNL1 |
| -0.225819528 | < 0.001 | 84641 | HIATL1 |
| -0.225827798 | < 0.001 | 6997 | TDGF1 |
| -0.225929111 | < 0.001 | 56992 | KIF15 |
| -0.22594963 | < 0.001 | 51046 | ST8SIA3 |
| -0.225974798 | < 0.001 | 150274 | HSCB |
| -0.226025134 | < 0.001 | 256355 | RPS2P32 |
| -0.226145491 | < 0.001 | 23097 | CDC2L6 |
| -0.22623232 | < 0.001 | 10690 | FUT9 |
| -0.226245597 | < 0.001 | 85235 | HIST1H2AH |
| -0.226261199 | < 0.001 | 57537 | SORCS2 |
| -0.226335406 | < 0.001 | 55784 | MCTP2 |
| -0.226374865 | < 0.001 | 147040 | KCTD11 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.28108108 | 0.096916698 | 0.128 | 1 | 7181 | NR2C1 |
| -0.28108108 | 0.096916698 | 0.11 | 1 | 9926 | LPGAT1 |
| -0.28108108 | 0.096916698 | 0.141 | 1 | 388677 | NOTCH2NL |
| -0.281338483 | 0.096601352 | 0.14 | 1 | 4700 | NDUFA6 |
| -0.281338483 | 0.096601352 | 0.109 | 1 | 4940 | OAS3 |
| -0.281338483 | 0.096601352 | 0.14 | 1 | 9522 | SCAMP1 |
| -0.281338483 | 0.096601352 | 0.116 | 1 | 54520 | CCDC93 |
| -0.281338483 | 0.096601352 | 0.139 | 1 | 284273 | ZADH2 |
| -0.281595886 | 0.096286982 | 0.122 | 1 | 5132 | PDC |
| -0.281595886 | 0.096286982 | 0.121 | 1 | 63892 | THADA |
| -0.281595886 | 0.096286982 | 0.13 | 1 | 283487 | LINC00346 |
| -0.281853288 | 0.095973358 | 0.131 | 1 | 4162 | MCAM |
| -0.281853288 | 0.095973358 | 0.105 | 1 | 10113 | PREB |
| -0.281853288 | 0.095973358 | 0.133 | 1 | 54619 | CCNJ |
| -0.281853288 | 0.095973358 | 0.122 | 1 | 84936 | ZFYVE19 |
| -0.282110661 | 0.09566053 | 0.125 | 1 | 6119 | RPA3 |
| -0.282110661 | 0.09566053 | 0.11 | 1 | 55251 | PCMTD2 |
| -0.282110661 | 0.09566053 | 0.146 | 1 | 55756 | INTS9 |
| -0.282110661 | 0.09566053 | 0.12 | 1 | 91775 | NXPE3 |
| -0.282110661 | 0.09566053 | 0.114 | 1 | 100128398 | AC008969.2 |
| -0.282110661 | 0.09566053 | 0.108 | 1 | 100506282 | LOC100506282 |
| -0.282368094 | 0.095348351 | 0.124 | 1 | 26505 | CNNM3 |
| -0.282368094 | 0.095348351 | 0.118 | 1 | 79598 | CEP97 |
| -0.282368094 | 0.095348351 | 0.125 | 1 | 84417 | C2orf40 |
| -0.282368094 | 0.095348351 | 0.14 | 1 | 728758 | PIN4P1 |
| -0.282625467 | 0.095037095 | 0.144 | 1 | 343 | AQP8 |
| -0.282625467 | 0.095037095 | 0.106 | 1 | 1998 | ELF2 |
| -0.282625467 | 0.095037095 | 0.11 | 1 | 55508 | SLC35E3 |
| -0.282625467 | 0.095037095 | 0.121 | 1 | 57020 | C16orf62 |
| -0.282625467 | 0.095037095 | 0.132 | 1 | 283102 | KRT8P41 |
| -0.282625467 | 0.095037095 | 0.132 | 1 | 347273 | MURC |
| -0.282625467 | 0.095037095 | 0.114 | 1 | 388699 | LINC00302 |
| -0.282625467 | 0.095037095 | 0.111 | 1 | 401236 | RP3-486B10.1 |
| -0.282882899 | 0.094726659 | 0.125 | 1 | 23210 | JMJD6 |
| -0.282882899 | 0.094726659 | 0.111 | 1 | 643382 | C14orf176 |
| -0.283140272 | 0.094416983 | 0.114 | 1 | 684 | BST2 |
| -0.283140272 | 0.094416983 | 0.153 | 1 | 8399 | PLA2G10 |
| -0.283140272 | 0.094416983 | 0.118 | 1 | 9189 | ZBED1 |
| -0.283140272 | 0.094416983 | 0.129 | 1 | 10938 | EHD1 |
| -0.283140272 | 0.094416983 | 0.128 | 1 | 51148 | CERCAM |
| -0.283140272 | 0.094416983 | 0.102 | 1 | 57038 | RARS2 |
| -0.283140272 | 0.094416983 | 0.11 | 1 | 201134 | CCDC46 |
| -0.283140272 | 0.094416983 | 0.099 | 1 | 404201 | WDFY3-AS2 |
| -0.283397675 | 0.094108082 | 0.133 | 1 | 969 | CD69 |
| -0.283397675 | 0.094108082 | 0.12 | 1 | 139285 | FAM123B |
| -0.283655077 | 0.093799837 | 0.112 | 1 | 3441 | IFNA4 |
| -0.283655077 | 0.093799837 | 0.126 | 1 | 56125 | PCDHB11 |
| -0.283655077 | 0.093799837 | 0.113 | 1 | 79092 | CARD14 |
| -0.283655077 | 0.093799837 | 0.103 | 1 | 374920 | C19orf68 |
| -0.28391248 | 0.0934925 | 0.138 | 1 | 1201 | CLN3 |
| -0.28391248 | 0.0934925 | 0.103 | 1 | 2815 | GP9 |
| -0.28391248 | 0.0934925 | 0.128 | 1 | 7469 | WHSC2 |
| -0.28391248 | 0.0934925 | 0.098 | 1 | 7866 | IFRD2 |
| -0.28391248 | 0.0934925 | 0.114 | 1 | 10127 | ZNF263 |
| -0.28391248 | 0.0934925 | 0.129 | 1 | 54852 | PAQR5 |
| -0.28391248 | 0.0934925 | 0.112 | 1 | 64849 | SLC13A3 |
| -0.28391248 | 0.0934925 | 0.11 | 1 | 160298 | C11orf42 |
| -0.284169883 | 0.093185984 | 0.126 | 1 | 5648 | MASP1 |
| -0.284169883 | 0.093185984 | 0.116 | 1 | 57228 | AC139768.2 |
| -0.284169883 | 0.093185984 | 0.105 | 1 | 114792 | KLHL32 |
| -0.284169883 | 0.093185984 | 0.123 | 1 | 151827 | LRRC34 |
| -0.284169883 | 0.093185984 | 0.112 | 1 | 160760 | PPTC7 |
| -0.284427285 | 0.092880212 | 0.123 | 1 | 92259 | MRPS36 |
| -0.284684658 | 0.092575073 | 0.106 | 1 | 6625 | SNRNP70 |
| -0.284684658 | 0.092575073 | 0.11 | 1 | 26235 | FBXL4 |
| -0.284684658 | 0.092575073 | 0.13 | 1 | 27303 | RBMS3 |
| -0.284942091 | 0.092270859 | 0.143 | 1 | 6563 | SLC14A1 |
| -0.284942091 | 0.092270859 | 0.128 | 1 | 10478 | SLC25A17 |
| -0.284942091 | 0.092270859 | 0.105 | 1 | 84919 | PPP1R15B |
| -0.284942091 | 0.092270859 | 0.12 | 1 | 126669 | SHE |
| -0.285199463 | 0.091967456 | 0.12 | 1 | 3673 | ITGA2 |
| -0.285199463 | 0.091967456 | 0.12 | 1 | 23274 | CLEC16A |
| -0.285199463 | 0.091967456 | 0.134 | 1 | 51477 | ISYNA1 |
| -0.285199463 | 0.091967456 | 0.128 | 1 | 192666 | KRT24 |
| -0.285456896 | 0.091664784 | 0.116 | 1 | 586 | BCAT1 |
| -0.285456896 | 0.091664784 | 0.121 | 1 | 1116 | CHI3L1 |
| -0.285456896 | 0.091664784 | 0.107 | 1 | 1786 | DNMT1 |
| -0.285456896 | 0.091664784 | 0.129 | 1 | 2309 | FOXO3 |
| -0.285456896 | 0.091664784 | 0.114 | 1 | 5455 | POU3F3 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.226380527 | < 0.001 | 54206 | ERRFI1 |
| -0.226451293 | < 0.001 | 387119 | C6orf204 |
| -0.226456031 | < 0.001 | 56969 | RPL23AP32 |
| -0.226480082 | < 0.001 | 8986 | RPS6KA4 |
| -0.226495966 | < 0.001 | 23520 | ANP32C |
| -0.226498663 | < 0.001 | 8290 | HIST3H3 |
| -0.226505071 | < 0.001 | 57212 | TP73-AS1 |
| -0.226608142 | < 0.001 | 64421 | DCLRE1C |
| -0.226726085 | < 0.001 | 5105 | PCK1 |
| -0.226900309 | < 0.001 | 284009 | LOC284009 |
| -0.226942927 | < 0.001 | 407975 | MIR17HG |
| -0.227021396 | < 0.001 | 814 | CAMK4 |
| -0.227077395 | < 0.001 | 100132707 | AC093726.2 |
| -0.227090314 | < 0.001 | 57472 | CNOT6 |
| -0.227199614 | < 0.001 | 29091 | STXBP6 |
| -0.227221712 | < 0.001 | 9332 | CD163 |
| -0.227230355 | < 0.001 | 845 | CASQ2 |
| -0.227248833 | < 0.001 | 89782 | LMLN |
| -0.227273807 | < 0.001 | 85443 | DCLK3 |
| -0.227318764 | < 0.001 | 6176 | RPLP1 |
| -0.22753188 | < 0.001 | 1297 | COL9A1 |
| -0.227535695 | < 0.001 | 54514 | DDX4 |
| -0.227536812 | < 0.001 | 100128398 | AC008969.2 |
| -0.227554262 | < 0.001 | 1278 | COL1A2 |
| -0.227593079 | < 0.001 | 375056 | MIA3 |
| -0.227638215 | < 0.001 | 157695 | C8orf42 |
| -0.227640539 | < 0.001 | 8233 | ZRSR2 |
| -0.227719381 | < 0.001 | 6934 | TCF7L2 |
| -0.227791265 | < 0.001 | 728978 | RP11-790G19.2 |
| -0.227819309 | < 0.001 | 56241 | SUSD2 |
| -0.227885246 | < 0.001 | 81571 | C9orf45 |
| -0.22803773 | < 0.001 | 55184 | C20orf12 |
| -0.228108764 | < 0.001 | 54891 | INO80D |
| -0.228182048 | < 0.001 | 23769 | FLRT1 |
| -0.228226244 | < 0.001 | 401505 | TOMM5 |
| -0.228260979 | < 0.001 | 84267 | C9orf64 |
| -0.228433713 | < 0.001 | 27332 | ZNF638 |
| -0.22844699 | < 0.001 | 23644 | EDC4 |
| -0.228500202 | < 0.001 | 84191 | FAM96A |
| -0.228552297 | < 0.001 | 57412 | AS3MT |
| -0.228701904 | < 0.001 | 9786 | KIAA0586 |
| -0.228754833 | < 0.001 | 388962 | BOLA3 |
| -0.228774801 | < 0.001 | 23549 | DNPEP |
| -0.22880201 | < 0.001 | 55930 | MYO5C |
| -0.228855133 | < 0.001 | 79858 | NEK11 |
| -0.228913829 | < 0.001 | 1537 | CYC1 |
| -0.228946701 | < 0.001 | 648262 | LOC648262 |
| -0.228964627 | < 0.001 | 100506144 | RP11-244H3.1 |
| -0.229022101 | < 0.001 | 7917 | BAT3 |
| -0.229023784 | < 0.001 | 23421 | ITGB3BP |
| -0.229063705 | < 0.001 | 84612 | PARD6B |
| -0.22913745 | < 0.001 | 3421 | IDH3G |
| -0.229153231 | < 0.001 | 140766 | ADAMTS14 |
| -0.229195207 | < 0.001 | 131474 | CHCHD4 |
| -0.229219541 | < 0.001 | 9842 | PLEKHM1 |
| -0.229251862 | < 0.001 | 118856 | MMP21 |
| -0.229294017 | < 0.001 | 2487 | FRZB |
| -0.229518011 | < 0.001 | 375341 | C3orf62 |
| -0.229525253 | < 0.001 | 199221 | DZIP1L |
| -0.229547083 | < 0.001 | 26278 | SACS |
| -0.229555815 | < 0.001 | 79661 | NEIL1 |
| -0.229623511 | < 0.001 | 928 | CD9 |
| -0.229710251 | < 0.001 | 7046 | TGFBR1 |
| -0.229744703 | < 0.001 | 10964 | IFI44L |
| -0.229776919 | < 0.001 | 51513 | ETV7 |
| -0.229844615 | < 0.001 | 83450 | LRRC48 |
| -0.22994259 | < 0.001 | 161003 | STOML3 |
| -0.23007381 | < 0.001 | 130540 | ALS2CR12 |
| -0.230075017 | < 0.001 | 154791 | C7orf55 |
| -0.230140865 | < 0.001 | 57614 | KIAA1468 |
| -0.230158418 | < 0.001 | 653436 | ANKRD20A7P |
| -0.230176806 | < 0.001 | 29102 | RNASEN |
| -0.23019287 | < 0.001 | 91304 | C19orf6 |
| -0.230196208 | < 0.001 | 29075 | RP5-1068E13.3 |
| -0.230341181 | < 0.001 | 7184 | HSP90B1 |
| -0.230354637 | < 0.001 | 124790 | HEXIM2 |
| -0.230406746 | < 0.001 | 9682 | KDM4A |
| -0.230411842 | < 0.001 | 55303 | GIMAP4 |
| -0.230547339 | < 0.001 | 55824 | PAG1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.285456896 | 0.091664784 | 0.123 | 1 | 7706 | TRIM25 |
| -0.285456896 | 0.091664784 | 0.111 | 1 | 11278 | KLF12 |
| -0.285456896 | 0.091664784 | 0.101 | 1 | 26952 | SMR3A |
| -0.285456896 | 0.091664784 | 0.134 | 1 | 79823 | C2orf34 |
| -0.285456896 | 0.091664784 | 0.11 | 1 | 92291 | CAPN13 |
| -0.285456896 | 0.091664784 | 0.115 | 1 | 148932 | MOBKL2C |
| -0.285456896 | 0.091664784 | 0.117 | 1 | 642597 | C18orf42 |
| -0.285714269 | 0.091362759 | 0.133 | 1 | 375743 | PTAR1 |
| -0.285971671 | 0.091061637 | 0.115 | 1 | 5925 | RB1 |
| -0.285971671 | 0.091061637 | 0.106 | 1 | 6510 | SLC1A5 |
| -0.285971671 | 0.091061637 | 0.118 | 1 | 126432 | RINL |
| -0.285971671 | 0.091061637 | 0.116 | 1 | 338692 | ANKRD13D |
| -0.286229074 | 0.090761289 | 0.113 | 1 | 622 | BDH1 |
| -0.286229074 | 0.090761289 | 0.132 | 1 | 5996 | RGS1 |
| -0.286229074 | 0.090761289 | 0.115 | 1 | 10521 | DDX17 |
| -0.286229074 | 0.090761289 | 0.126 | 1 | 64900 | LPIN3 |
| -0.286229074 | 0.090761289 | 0.117 | 1 | 257218 | SHPRH |
| -0.286486477 | 0.090461738 | 0.118 | 1 | 5618 | PRLR |
| -0.286486477 | 0.090461738 | 0.109 | 1 | 11013 | TMSB15A |
| -0.286486477 | 0.090461738 | 0.127 | 1 | 55118 | CRTAC1 |
| -0.286743879 | 0.090162925 | 0.113 | 1 | 11025 | LILRB3 |
| -0.286743879 | 0.090162925 | 0.122 | 1 | 25777 | UNC84B |
| -0.286743879 | 0.090162925 | 0.121 | 1 | 26027 | ACOT11 |
| -0.287001282 | 0.089864753 | 0.128 | 1 | 1028 | CDKN1C |
| -0.287001282 | 0.089864753 | 0.112 | 1 | 7535 | ZAP70 |
| -0.287001282 | 0.089864753 | 0.106 | 1 | 84419 | C15orf48 |
| -0.287258685 | 0.089567475 | 0.096 | 1 | 2825 | GPR1 |
| -0.287258685 | 0.089567475 | 0.101 | 1 | 51116 | MRPS2 |
| -0.287258685 | 0.089567475 | 0.119 | 1 | 339324 | ZNF260 |
| -0.287516087 | 0.089270994 | 0.104 | 1 | 7841 | MOGS |
| -0.287516087 | 0.089270994 | 0.115 | 1 | 11186 | RASSF1 |
| -0.28777349 | 0.088975251 | 0.14 | 1 | 1644 | DDC |
| -0.28777349 | 0.088975251 | 0.109 | 1 | 2053 | EPHX2 |
| -0.28777349 | 0.088975251 | 0.116 | 1 | 9788 | MTSS1 |
| -0.28777349 | 0.088975251 | 0.112 | 1 | 54556 | ING3 |
| -0.28777349 | 0.088975251 | 0.123 | 1 | 57696 | DDX55 |
| -0.28777349 | 0.088975251 | 0.109 | 1 | 134285 | TMEM171 |
| -0.28777349 | 0.088975251 | 0.135 | 1 | 140700 | SAMD10 |
| -0.288030893 | 0.088680126 | 0.119 | 1 | 2569 | GABRR1 |
| -0.288030893 | 0.088680126 | 0.132 | 1 | 6897 | TARS |
| -0.288030893 | 0.088680126 | 0.112 | 1 | 23111 | SPG20 |
| -0.288030893 | 0.088680126 | 0.106 | 1 | 60495 | HPSE2 |
| -0.288030893 | 0.088680126 | 0.124 | 1 | 90342 | FER1L5 |
| -0.288030893 | 0.088680126 | 0.116 | 1 | 342908 | ZNF404 |
| -0.288288295 | 0.088385902 | 0.087 | 1 | 2020 | EN2 |
| -0.288288295 | 0.088385902 | 0.092 | 1 | 9214 | FAIM3 |
| -0.288288295 | 0.088385902 | 0.116 | 1 | 56269 | IRGC |
| -0.288288295 | 0.088385902 | 0.093 | 1 | 64784 | CRTC3 |
| -0.288288295 | 0.088385902 | 0.113 | 1 | 255738 | PCSK9 |
| -0.288545668 | 0.088092476 | 0.108 | 1 | 10766 | TOB2 |
| -0.288545668 | 0.088092476 | 0.113 | 1 | 115330 | GPR146 |
| -0.288545668 | 0.088092476 | 0.125 | 1 | 285525 | YIPF7 |
| -0.288545668 | 0.088092476 | 0.109 | 1 | 347732 | CATSPER3 |
| -0.288803101 | 0.087799765 | 0.128 | 1 | 3791 | KDR |
| -0.288803101 | 0.087799765 | 0.11 | 1 | 9425 | CDYL |
| -0.288803101 | 0.087799765 | 0.111 | 1 | 10244 | RABEPK |
| -0.288803101 | 0.087799765 | 0.121 | 1 | 132204 | SYNPR |
| -0.288803101 | 0.087799765 | 0.115 | 1 | 389058 | SP5 |
| -0.289060473 | 0.087507695 | 0.118 | 1 | 648 | BMI1 |
| -0.289060473 | 0.087507695 | 0.1 | 1 | 3732 | CD82 |
| -0.289060473 | 0.087507695 | 0.108 | 1 | 90649 | ZNF486 |
| -0.289060473 | 0.087507695 | 0.124 | 1 | 286122 | C8orf31 |
| -0.289317906 | 0.087216504 | 0.101 | 1 | 26053 | AUTS2 |
| -0.289832681 | 0.086636424 | 0.12 | 1 | 8086 | AAAS |
| -0.289832681 | 0.086636424 | 0.121 | 1 | 8354 | HIST1H3I |
| -0.289832681 | 0.086636424 | 0.112 | 1 | 8552 | INE1 |
| -0.289832681 | 0.086636424 | 0.11 | 1 | 84336 | TMEM101 |
| -0.289832681 | 0.086636424 | 0.109 | 1 | 129446 | XIRP2 |
| -0.289832681 | 0.086636424 | 0.113 | 1 | 149685 | ADIG |
| -0.289832681 | 0.086636424 | 0.111 | 1 | 196385 | DNAH10 |
| -0.289832681 | 0.086636424 | 0.124 | 1 | 100128302 | LOC100128302 |
| -0.290090084 | 0.086347491 | 0.118 | 1 | 1306 | COL15A1 |
| -0.290090084 | 0.086347491 | 0.11 | 1 | 2852 | GPER |
| -0.290090084 | 0.086347491 | 0.119 | 1 | 8839 | WISP2 |
| -0.290090084 | 0.086347491 | 0.102 | 1 | 51272 | BET1L |
| -0.290090084 | 0.086347491 | 0.118 | 1 | 79174 | CRELD2 |
| -0.290090084 | 0.086347491 | 0.098 | 1 | 440905 | AC018865.8 |
| -0.290347487 | 0.08605919 | 0.115 | 1 | 83985 | SPNS1 |
| -0.290347487 | 0.08605919 | 0.124 | 1 | 91543 | RSAD2 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.230556816 | < 0.001 | 100130934 | ZNF663 |
| -0.230571941 | < 0.001 | 9717 | SEC14L5 |
| -0.230572134 | < 0.001 | 66008 | TRAK2 |
| -0.230601668 | < 0.001 | 10766 | TOB2 |
| -0.230612338 | < 0.001 | 84271 | POLDIP3 |
| -0.230624974 | < 0.001 | 222256 | CTA-351J1.1 |
| -0.230667502 | < 0.001 | 10733 | PLK4 |
| -0.230815902 | < 0.001 | 83888 | FGFBP2 |
| -0.230852127 | < 0.001 | 7733 | ZNF180 |
| -0.230879426 | < 0.001 | 84914 | ZNF587 |
| -0.230934873 | < 0.001 | 4286 | MITF |
| -0.230984926 | < 0.001 | 51171 | HSD17B14 |
| -0.231075004 | < 0.001 | 84836 | ABHD14B |
| -0.231108069 | < 0.001 | 55112 | WDR60 |
| -0.231109366 | < 0.001 | 56113 | PCDHGA2 |
| -0.231158584 | < 0.001 | 55504 | TNFRSF19 |
| -0.231162578 | < 0.001 | 7536 | SF1 |
| -0.231271416 | < 0.001 | 80830 | APOL6 |
| -0.231333166 | < 0.001 | 3669 | ISG20 |
| -0.231338933 | < 0.001 | 6426 | SRSF1 |
| -0.231421947 | < 0.001 | 6890 | TAP1 |
| -0.231431231 | < 0.001 | 402573 | C7orf61 |
| -0.231468201 | < 0.001 | 6461 | SHB |
| -0.231520757 | < 0.001 | 84988 | PPP1R16A |
| -0.231528565 | < 0.001 | 146050 | ZSCAN29 |
| -0.231535241 | < 0.001 | 4798 | NFRKB |
| -0.231553078 | < 0.001 | 153562 | MARVELD2 |
| -0.231553257 | < 0.001 | 401082 | FLJ25363 |
| -0.231608987 | < 0.001 | 440957 | C3orf78 |
| -0.231681973 | < 0.001 | 284001 | CCDC57 |
| -0.231687739 | < 0.001 | 3172 | HNF4A |
| -0.231744006 | < 0.001 | 10267 | RAMP1 |
| -0.231792107 | < 0.001 | 440145 | C13orf37 |
| -0.231853217 | < 0.001 | 8641 | PCDHGB4 |
| -0.231913775 | < 0.001 | 55472 | C8orf39 |
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| -0.232014433 | < 0.001 | 55160 | ARHGEF10L |
| -0.232040524 | < 0.001 | 1299 | COL9A3 |
| -0.232186511 | < 0.001 | 79025 | C20orf195 |
| -0.232241958 | < 0.001 | 347902 | AMIGO2 |
| -0.232391849 | < 0.001 | 55449 | AL136419.1 |
| -0.232452855 | < 0.001 | 79789 | CLMN |
| -0.232480809 | < 0.001 | 7539 | ZFP37 |
| -0.232482105 | < 0.001 | 94122 | SYTL5 |
| -0.232527792 | < 0.001 | 4215 | MAP3K3 |
| -0.23259002 | < 0.001 | 79269 | WDR32 |
| -0.232683808 | < 0.001 | 1024 | CDK8 |
| -0.232725695 | < 0.001 | 90423 | ATP6V1E2 |
| -0.23290205 | < 0.001 | 10309 | CCNO |
| -0.232943833 | < 0.001 | 10850 | CCL27 |
| -0.232982382 | < 0.001 | 1558 | CYP2C8 |
| -0.233014792 | < 0.001 | 340596 | LHFPL1 |
| -0.233016461 | < 0.001 | 24146 | CLDN15 |
| -0.233016461 | < 0.001 | 222223 | KIAA1324L |
| -0.233037069 | < 0.001 | 129881 | C2orf77 |
| -0.23305741 | < 0.001 | 79591 | C10orf76 |
| -0.233120278 | < 0.001 | 5954 | RCN1 |
| -0.233163744 | < 0.001 | 653188 | GUSBP3 |
| -0.23319681 | < 0.001 | 196441 | ZFC3H1 |
| -0.233231068 | < 0.001 | 3693 | ITGB5 |
| -0.233232558 | < 0.001 | 128312 | HIST3H2BB |
| -0.233241573 | < 0.001 | 23087 | TRIM35 |
| -0.233282059 | < 0.001 | 445347 | TARP |
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| -0.233348921 | < 0.001 | 80154 | AGSK1 |
| -0.233423218 | < 0.001 | 644150 | WIPF3 |
| -0.233443648 | < 0.001 | 28969 | BZW2 |
| -0.233506322 | < 0.001 | 8473 | OGT |
| -0.233534649 | < 0.001 | 60437 | CDH26 |
| -0.233593524 | < 0.001 | 391267 | C21orf81 |
| -0.233640701 | < 0.001 | 9896 | FIG4 |
| -0.233661234 | < 0.001 | 728724 | RP11-1057N3.1 |
| -0.233664662 | < 0.001 | 9111 | NMI |
| -0.233705252 | < 0.001 | 4818 | NKG7 |
| -0.233717233 | < 0.001 | 23435 | TARDBP |
| -0.23373273 | < 0.001 | 375337 | C3orf77 |
| -0.233739972 | < 0.001 | 8772 | FADD |
| -0.233750105 | < 0.001 | 89122 | TRIM4 |
| -0.23378326 | < 0.001 | 11339 | OIP5 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.290604889 | 0.085771762 | 0.111 | 1 | 1311 | COMP |
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| -0.290604889 | 0.085771762 | 0.103 | 1 | 56674 | TMEM9B |
| -0.290604889 | 0.085771762 | 0.108 | 1 | 285154 | CYP1B1-AS1 |
| -0.290862292 | 0.085485116 | 0.115 | 1 | 1634 | DCN |
| -0.290862292 | 0.085485116 | 0.095 | 1 | 3661 | IRF3 |
| -0.290862292 | 0.085485116 | 0.129 | 1 | 5729 | PTGDR |
| -0.290862292 | 0.085485116 | 0.115 | 1 | 64080 | RBKS |
| -0.290862292 | 0.085485116 | 0.093 | 1 | 375061 | FAM89A |
| -0.291119665 | 0.085199192 | 0.115 | 1 | 8994 | LIMD1 |
| -0.291119665 | 0.085199192 | 0.126 | 1 | 10449 | ACAA2 |
| -0.291119665 | 0.085199192 | 0.127 | 1 | 54976 | C20orf27 |
| -0.291119665 | 0.085199192 | 0.093 | 1 | 57061 | HYMAI |
| -0.291119665 | 0.085199192 | 0.114 | 1 | 57687 | VAT1L |
| -0.291119665 | 0.085199192 | 0.135 | 1 | 84281 | C2orf88 |
| -0.291119665 | 0.085199192 | 0.098 | 1 | 85377 | MICALL1 |
| -0.291377097 | 0.084913887 | 0.109 | 1 | 6182 | MRPL12 |
| -0.291377097 | 0.084913887 | 0.097 | 1 | 27148 | STK36 |
| -0.291377097 | 0.084913887 | 0.098 | 1 | 55342 | STRBP |
| -0.291377097 | 0.084913887 | 0.117 | 1 | 55601 | AC068989.2 |
| -0.291377097 | 0.084913887 | 0.095 | 1 | 131474 | CHCHD4 |
| -0.291377097 | 0.084913887 | 0.109 | 1 | 145748 | LYSMD4 |
| -0.29163447 | 0.084629454 | 0.128 | 1 | 836 | CASP3 |
| -0.29163447 | 0.084629454 | 0.116 | 1 | 2981 | GUCA2B |
| -0.29163447 | 0.084629454 | 0.096 | 1 | 8473 | OGT |
| -0.291891903 | 0.084345795 | 0.107 | 1 | 7011 | TEP1 |
| -0.291891903 | 0.084345795 | 0.093 | 1 | 9311 | ACCN3 |
| -0.291891903 | 0.084345795 | 0.114 | 1 | 10234 | LRRC17 |
| -0.291891903 | 0.084345795 | 0.111 | 1 | 23085 | ERC1 |
| -0.291891903 | 0.084345795 | 0.118 | 1 | 29950 | SERTAD1 |
| -0.291891903 | 0.084345795 | 0.112 | 1 | 283652 | SLC24A5 |
| -0.292149276 | 0.084062852 | 0.112 | 1 | 1521 | CTSW |
| -0.292149276 | 0.084062852 | 0.104 | 1 | 6374 | CXCL5 |
| -0.292149276 | 0.084062852 | 0.113 | 1 | 81857 | MED25 |
| -0.292149276 | 0.084062852 | 0.104 | 1 | 93343 | FAM125A |
| -0.292149276 | 0.084062852 | 0.11 | 1 | 254552 | NUDT8 |
| -0.292149276 | 0.084062852 | 0.113 | 1 | 375719 | AQP7P1 |
| -0.292149276 | 0.084062852 | 0.092 | 1 | 400512 | AC106739.1 |
| -0.292406678 | 0.083780527 | 0.113 | 1 | 10455 | PECI |
| -0.292406678 | 0.083780527 | 0.129 | 1 | 59352 | LGR6 |
| -0.292406678 | 0.083780527 | 0.109 | 1 | 84876 | ORAI1 |
| -0.292406678 | 0.083780527 | 0.111 | 1 | 376693 | RPS10P7 |
| -0.292406678 | 0.083780527 | 0.102 | 1 | 386681 | KRTAP10-8 |
| -0.292406678 | 0.083780527 | 0.1 | 1 | 100289574 | AC133485.2 |
| -0.292664081 | 0.083499067 | 0.121 | 1 | 10871 | CD300C |
| -0.292664081 | 0.083499067 | 0.101 | 1 | 11023 | VAX1 |
| -0.292664081 | 0.083499067 | 0.117 | 1 | 54567 | DLL4 |
| -0.292664081 | 0.083499067 | 0.085 | 1 | 203562 | TMEM31 |
| -0.292921484 | 0.083218336 | 0.101 | 1 | 1073 | CFL2 |
| -0.292921484 | 0.083218336 | 0.102 | 1 | 2250 | FGF5 |
| -0.292921484 | 0.083218336 | 0.116 | 1 | 5187 | PER1 |
| -0.292921484 | 0.083218336 | 0.093 | 1 | 5412 | UBL3 |
| -0.292921484 | 0.083218336 | 0.114 | 1 | 7559 | ZNF12 |
| -0.292921484 | 0.083218336 | 0.104 | 1 | 81931 | ZNF93 |
| -0.292921484 | 0.083218336 | 0.105 | 1 | 148022 | TICAM1 |
| -0.293178886 | 0.082938388 | 0.088 | 1 | 506 | ATP5B |
| -0.293178886 | 0.082938388 | 0.109 | 1 | 10263 | CDK2AP2 |
| -0.293178886 | 0.082938388 | 0.111 | 1 | 66008 | TRAK2 |
| -0.293178886 | 0.082938388 | 0.11 | 1 | 91833 | WDR20 |
| -0.293178886 | 0.082938388 | 0.103 | 1 | 114805 | GALNT13 |
| -0.293178886 | 0.082938388 | 0.084 | 1 | 729859 | LOC729859 |
| -0.293436289 | 0.08265914 | 0.094 | 1 | 11309 | SLCO2B1 |
| -0.293436289 | 0.08265914 | 0.113 | 1 | 79990 | PLEKHH3 |
| -0.293436289 | 0.08265914 | 0.116 | 1 | 84108 | PCGF6 |
| -0.293693662 | 0.082380503 | 0.113 | 1 | 93380 | MMGT1 |
| -0.293693662 | 0.082380503 | 0.117 | 1 | 136259 | KLF14 |
| -0.293951094 | 0.082102731 | 0.122 | 1 | 2793 | GNGT2 |
| -0.293951094 | 0.082102731 | 0.1 | 1 | 7827 | NPHS2 |
| -0.293951094 | 0.082102731 | 0.12 | 1 | 9855 | FARP2 |
| -0.293951094 | 0.082102731 | 0.1 | 1 | 9967 | THRAP3 |
| -0.293951094 | 0.082102731 | 0.12 | 1 | 27019 | DNAI1 |
| -0.293951094 | 0.082102731 | 0.123 | 1 | 431707 | LHX8 |
| -0.294208497 | 0.081825696 | 0.108 | 1 | 2006 | ELN |
| -0.294208497 | 0.081825696 | 0.121 | 1 | 5914 | RARA |
| -0.294208497 | 0.081825696 | 0.103 | 1 | 6494 | SIPA1 |
| -0.294208497 | 0.081825696 | 0.114 | 1 | 8346 | HIST1H2BI |
| -0.294208497 | 0.081825696 | 0.1 | 1 | 79269 | WDR32 |
| -0.294465899 | 0.081549414 | 0.106 | 1 | 81575 | APOLD1 |
| -0.294465899 | 0.081549414 | 0.104 | 1 | 89848 | FCHSD1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.233840555 | < 0.001 | 54799 | MBTD1 |
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| -0.233917817 | < 0.001 | 10147 | SFRS14 |
| -0.233955979 | < 0.001 | 126231 | ZNF573 |
| -0.233980775 | < 0.001 | 55224 | ETNK2 |
| -0.23404941 | < 0.001 | 147837 | ZNF563 |
| -0.234185264 | < 0.001 | 8603 | C4orf8 |
| -0.234218702 | < 0.001 | 58494 | JAM2 |
| -0.234375 | < 0.001 | 284434 | NWD1 |
| -0.234458476 | < 0.001 | 113235 | SLC46A1 |
| -0.234459966 | < 0.001 | 100132406 | NBPF10 |
| -0.234476864 | < 0.001 | 285961 | SEPT7L |
| -0.234532595 | < 0.001 | 1627 | DBN1 |
| -0.23459053 | < 0.001 | 23412 | COMMD3 |
| -0.234652668 | < 0.001 | 57545 | CC2D2A |
| -0.234757051 | < 0.001 | 653583 | PHLDB3 |
| -0.234763727 | < 0.001 | 26608 | TBL2 |
| -0.234775439 | < 0.001 | 130074 | FAM168B |
| -0.234813511 | < 0.001 | 6279 | S100A8 |
| -0.234829575 | < 0.001 | 115560 | ZNF501 |
| -0.234914824 | < 0.001 | 401507 | FAM74A1 |
| -0.234962553 | < 0.001 | 9924 | PAN2 |
| -0.234962657 | < 0.001 | 116444 | GRIN3B |
| -0.235007226 | < 0.001 | 2012 | EMP1 |
| -0.235061646 | < 0.001 | 284297 | AC008735.3 |
| -0.235067129 | < 0.001 | 6223 | RPS19 |
| -0.235075757 | < 0.001 | 153643 | FAM81B |
| -0.235112265 | < 0.001 | 642954 | RBBP4P1 |
| -0.235259816 | < 0.001 | 51426 | POLK |
| -0.235265955 | < 0.001 | 30832 | ZNF354C |
| -0.235271901 | < 0.001 | 339122 | RAB43 |
| -0.235297248 | < 0.001 | 23111 | SPG20 |
| -0.235365227 | < 0.001 | 64285 | RHBDF1 |
| -0.235404968 | < 0.001 | 81796 | SLCO5A1 |
| -0.235439152 | < 0.001 | 55304 | SPTLC3 |
| -0.23548159 | < 0.001 | 5463 | POU6F1 |
| -0.235523105 | < 0.001 | 145508 | C14orf145 |
| -0.235601202 | < 0.001 | 3891 | KRT85 |
| -0.235905334 | < 0.001 | 2624 | GATA2 |
| -0.236070171 | < 0.001 | 7027 | TFDP1 |
| -0.23610723 | < 0.001 | 658 | BMPR1B |
| -0.236117721 | < 0.001 | 399815 | LOC399815 |
| -0.236255527 | < 0.001 | 7181 | NR2C1 |
| -0.236311987 | < 0.001 | 55689 | YEATS2 |
| -0.236363351 | < 0.001 | 3148 | HMGB2 |
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| -0.236452967 | < 0.001 | 100009676 | LOC100009676 |
| -0.236470327 | < 0.001 | 728758 | PIN4P1 |
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| -0.2366869 | < 0.001 | 6147 | RPL23A |
| -0.236708254 | < 0.001 | 93377 | OPALIN |
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| -0.23674652 | < 0.001 | 84933 | C8orf76 |
| -0.236804366 | < 0.001 | 79598 | CEP97 |
| -0.236884788 | < 0.001 | 95 | ACY1 |
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| -0.237080082 | < 0.001 | 6206 | RPS12 |
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| -0.237163946 | < 0.001 | 4112 | MAGEB1 |
| -0.23717685 | < 0.001 | 283507 | SUGT1L1 |
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| -0.237190038 | < 0.001 | 64745 | METT11D1 |
| -0.237267405 | < 0.001 | 2137 | EXTL3 |
| -0.237442449 | < 0.001 | 7768 | ZNF225 |
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| -0.237547755 | < 0.001 | 80017 | C14orf159 |
| -0.23756057 | < 0.001 | 85236 | HIST1H2BK |
| -0.237755597 | < 0.001 | 169834 | ZNF883 |
| -0.237768963 | < 0.001 | 22838 | RNF44 |
| -0.23783806 | < 0.001 | 213 | ALB |
| -0.237911791 | < 0.001 | 653162 | RPSAP9 |
| -0.237929255 | < 0.001 | 90768 | MGC45800 |
| -0.237940207 | < 0.001 | 305 | ANXA2P3 |
| -0.237949505 | < 0.001 | 57727 | NCOA5 |
| -0.237967789 | < 0.001 | 55512 | SMPD3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
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| -0.294723302 | 0.081273712 | 0.1 | 1 | 2323 | FLT3LG |
| -0.294723302 | 0.081273712 | 0.096 | 1 | 3373 | HYAL1 |
| -0.294723302 | 0.081273712 | 0.124 | 1 | 6781 | STC1 |
| -0.294723302 | 0.081273712 | 0.105 | 1 | 9518 | GDF15 |
| -0.294723302 | 0.081273712 | 0.112 | 1 | 27233 | SULT1C4 |
| -0.294723302 | 0.081273712 | 0.122 | 1 | 125981 | ACER1 |
| -0.294723302 | 0.081273712 | 0.128 | 1 | 493869 | GPX8 |
| -0.294723302 | 0.081273712 | 0.106 | 1 | 644943 | RASSF10 |
| -0.294980675 | 0.080998868 | 0.116 | 1 | 3026 | HABP2 |
| -0.294980675 | 0.080998868 | 0.097 | 1 | 5334 | PLCL1 |
| -0.294980675 | 0.080998868 | 0.113 | 1 | 6345 | SRL |
| -0.294980675 | 0.080998868 | 0.106 | 1 | 6468 | FBXW4 |
| -0.294980675 | 0.080998868 | 0.101 | 1 | 10712 | C1orf2 |
| -0.294980675 | 0.080998868 | 0.125 | 1 | 26509 | MYOF |
| -0.294980675 | 0.080998868 | 0.113 | 1 | 140732 | SPAG4L |
| -0.294980675 | 0.080998868 | 0.108 | 1 | 192670 | EIF2C4 |
| -0.295238107 | 0.080724746 | 0.086 | 1 | 6446 | SGK1 |
| -0.295238107 | 0.080724746 | 0.103 | 1 | 266623 | SLC25A5P1 |
| -0.295238107 | 0.080724746 | 0.108 | 1 | 728450 | AL080274.2 |
| -0.29549548 | 0.080451362 | 0.098 | 1 | 5315 | PKM2 |
| -0.29549548 | 0.080451362 | 0.113 | 1 | 10964 | IFI44L |
| -0.29549548 | 0.080451362 | 0.118 | 1 | 259230 | SGMS1 |
| -0.295752913 | 0.08017873 | 0.091 | 1 | 2317 | FLNB |
| -0.295752913 | 0.08017873 | 0.103 | 1 | 4323 | MMP14 |
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| -0.296010286 | 0.079906672 | 0.112 | 1 | 51599 | LSR |
| -0.296010286 | 0.079906672 | 0.099 | 1 | 55066 | PDPR |
| -0.296010286 | 0.079906672 | 0.113 | 1 | 80709 | AKNA |
| -0.296267688 | 0.079635456 | 0.083 | 1 | 971 | CD72 |
| -0.296267688 | 0.079635456 | 0.117 | 1 | 202459 | OSTCP1 |
| -0.296525091 | 0.07936497 | 0.1 | 1 | 4245 | MGAT1 |
| -0.296525091 | 0.07936497 | 0.099 | 1 | 9879 | DDX46 |
| -0.296525091 | 0.07936497 | 0.102 | 1 | 28955 | DEXI |
| -0.296525091 | 0.07936497 | 0.11 | 1 | 80067 | C2orf37 |
| -0.296525091 | 0.07936497 | 0.08 | 1 | 115992 | RNF166 |
| -0.296525091 | 0.07936497 | 0.106 | 1 | 392309 | OR13J1 |
| -0.296782494 | 0.079095192 | 0.086 | 1 | 467 | ATF3 |
| -0.296782494 | 0.079095192 | 0.113 | 1 | 3164 | NR4A1 |
| -0.296782494 | 0.079095192 | 0.087 | 1 | 50840 | TAS2R14 |
| -0.296782494 | 0.079095192 | 0.098 | 1 | 54742 | LY6K |
| -0.296782494 | 0.079095192 | 0.091 | 1 | 56898 | BDH2 |
| -0.297039896 | 0.078826062 | 0.09 | 1 | 126069 | ZNF491 |
| -0.297297299 | 0.07855773 | 0.089 | 1 | 975 | CD81 |
| -0.297297299 | 0.07855773 | 0.12 | 1 | 10418 | SPON1 |
| -0.297297299 | 0.07855773 | 0.113 | 1 | 387273 | KRTAP5-10 |
| -0.297554672 | 0.07829012 | 0.093 | 1 | 3257 | HPS1 |
| -0.297554672 | 0.07829012 | 0.114 | 1 | 27146 | FAM184B |
| -0.297554672 | 0.07829012 | 0.12 | 1 | 57653 | LOC100499484-C9ORF174 |
| -0.297554672 | 0.07829012 | 0.104 | 1 | 112937 | GLB1L3 |
| -0.297812104 | 0.078023225 | 0.111 | 1 | 2833 | CXCR3 |
| -0.297812104 | 0.078023225 | 0.107 | 1 | 55075 | UACA |
| -0.297812104 | 0.078023225 | 0.114 | 1 | 117286 | CIB3 |
| -0.297812104 | 0.078023225 | 0.107 | 1 | 389158 | PLSCR5 |
| -0.298069477 | 0.077756964 | 0.088 | 1 | 1763 | DNA2 |
| -0.298069477 | 0.077756964 | 0.1 | 1 | 4701 | NDUFA7 |
| -0.298069477 | 0.077756964 | 0.098 | 1 | 138716 | C9orf23 |
| -0.29832691 | 0.077491492 | 0.115 | 1 | 25 | ABL1 |
| -0.29832691 | 0.077491492 | 0.106 | 1 | 3357 | HTR2B |
| -0.29832691 | 0.077491492 | 0.102 | 1 | 7078 | TIMP3 |
| -0.29832691 | 0.077491492 | 0.095 | 1 | 54903 | MKS1 |
| -0.298584282 | 0.077226743 | 0.099 | 1 | 1294 | COL7A1 |
| -0.298584282 | 0.077226743 | 0.108 | 1 | 28514 | DLL1 |
| -0.298584282 | 0.077226743 | 0.096 | 1 | 51198 | C9orf53 |
| -0.298584282 | 0.077226743 | 0.089 | 1 | 79714 | CCDC51 |
| -0.298584282 | 0.077226743 | 0.09 | 1 | 144811 | C13orf31 |
| -0.298841685 | 0.076962702 | 0.103 | 1 | 277 | AMY1B |
| -0.298841685 | 0.076962702 | 0.099 | 1 | 5281 | PIGF |
| -0.298841685 | 0.076962702 | 0.096 | 1 | 23310 | NCAPD3 |
| -0.298841685 | 0.076962702 | 0.115 | 1 | 283165 | PRR10 |
| -0.299099088 | 0.076699376 | 0.09 | 1 | 4487 | MSX1 |
| -0.299099088 | 0.076699376 | 0.11 | 1 | 83605 | CCM2 |
| -0.299099088 | 0.076699376 | 0.094 | 1 | 91748 | C14orf43 |
| -0.299099088 | 0.076699376 | 0.098 | 1 | 352909 | C19orf51 |
| -0.29935649 | 0.076436669 | 0.089 | 1 | 3192 | HNRNPU |
| -0.299613893 | 0.076174766 | 0.1 | 1 | 3913 | LAMB2 |
| -0.299613893 | 0.076174766 | 0.097 | 1 | 4248 | MGAT3 |
| -0.299613893 | 0.076174766 | 0.1 | 1 | 9699 | RIMS2 |
| -0.299613893 | 0.076174766 | 0.117 | 1 | 11098 | AP000654.2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.2382541 | < 0.001 | 3013 | HIST1H2AD |
| -0.238306105 | < 0.001 | 4625 | MYH7 |
| -0.238472521 | < 0.001 | 56906 | THAP10 |
| -0.238577738 | < 0.001 | 284998 | AC068057.2 |
| -0.238630578 | < 0.001 | 219670 | ENKUR |
| -0.238630861 | < 0.001 | 10516 | FBLN5 |
| -0.238644227 | < 0.001 | 400713 | AC010332.1 |
| -0.238796249 | < 0.001 | 9197 | SLC33A1 |
| -0.238829687 | < 0.001 | 93273 | LEMD1 |
| -0.238839895 | < 0.001 | 6096 | RORB |
| -0.23888281 | < 0.001 | 27163 | NAAA |
| -0.238901377 | < 0.001 | 3642 | INSM1 |
| -0.238973349 | < 0.001 | 3855 | KRT7 |
| -0.239051819 | < 0.001 | 65095 | KRI1 |
| -0.239112929 | < 0.001 | 4438 | MSH4 |
| -0.239295214 | < 0.001 | 80142 | PTGES2 |
| -0.239304513 | < 0.001 | 1390 | CREM |
| -0.239322245 | < 0.001 | 79002 | C19orf43 |
| -0.239324942 | < 0.001 | 5764 | PTN |
| -0.23944734 | < 0.001 | 26355 | FAM162A |
| -0.239574462 | < 0.001 | 10858 | CYP46A1 |
| -0.239597127 | < 0.001 | 23150 | FRMD4B |
| -0.239752129 | < 0.001 | 10803 | CCR9 |
| -0.239777282 | < 0.001 | 10412 | NSA2 |
| -0.239790291 | < 0.001 | 134701 | C6orf59 |
| -0.239846751 | < 0.001 | 283446 | MYO1H |
| -0.239939436 | < 0.001 | 6258 | RXRG |
| -0.239940271 | < 0.001 | 115294 | PCMTD1 |
| -0.240020975 | < 0.001 | 9429 | ABCG2 |
| -0.240021348 | < 0.001 | 55200 | PLEKHG6 |
| -0.240096569 | < 0.001 | 116966 | WDR17 |
| -0.240101859 | < 0.001 | 81035 | COLEC12 |
| -0.240205958 | < 0.001 | 57122 | NUP107 |
| -0.240226761 | < 0.001 | 51326 | ARL17P1 |
| -0.240282938 | < 0.001 | 6119 | RPA3 |
| -0.240390942 | < 0.001 | 3187 | HNRNPH1 |
| -0.240392059 | < 0.001 | 100132724 | DCAF13P3 |
| -0.240398377 | < 0.001 | 26609 | VCX |
| -0.240556061 | < 0.001 | 84283 | TMEM79 |
| -0.240674004 | < 0.001 | 9724 | UTP14C |
| -0.240793064 | < 0.001 | 283999 | AC087645.1 |
| -0.240819156 | < 0.001 | 217 | ALDH2 |
| -0.240889639 | < 0.001 | 10140 | TOB1 |
| -0.240922049 | < 0.001 | 80178 | C16orf59 |
| -0.240965232 | < 0.001 | 55794 | DDX28 |
| -0.240992814 | < 0.001 | 3250 | HPR |
| -0.241176784 | < 0.001 | 57604 | KIAA1456 |
| -0.24127838 | < 0.001 | 7579 | ZSCAN20 |
| -0.2413757 | < 0.001 | 127700 | C1orf102 |
| -0.241399661 | < 0.001 | 10747 | MASP2 |
| -0.241506457 | < 0.001 | 56101 | PCDHGB5 |
| -0.24152112 | < 0.001 | 163051 | ZNF709 |
| -0.241552427 | < 0.001 | 56944 | OLFML3 |
| -0.241605818 | < 0.001 | 254394 | C6orf61 |
| -0.241745308 | < 0.001 | 79813 | EHMT1 |
| -0.241762206 | < 0.001 | 92211 | PCDH21 |
| -0.241828695 | < 0.001 | 150709 | ANKAR |
| -0.241835013 | < 0.001 | 8082 | SSPN |
| -0.241876245 | < 0.001 | 79768 | C15orf29 |
| -0.241962895 | < 0.001 | 55332 | DRAM1 |
| -0.24203226 | < 0.001 | 3613 | IMPA2 |
| -0.242173597 | < 0.001 | 6618 | SNAPC2 |
| -0.242263317 | < 0.001 | 729440 | CCDC61 |
| -0.242299348 | < 0.001 | 9508 | ADAMTS3 |
| -0.242336214 | < 0.001 | 9869 | SETDB1 |
| -0.242470592 | < 0.001 | 55636 | CHD7 |
| -0.242522031 | < 0.001 | 57291 | SNHG13 |
| -0.242812708 | < 0.001 | 9120 | SLC16A6 |
| -0.242916346 | < 0.001 | 6666 | SOX12 |
| -0.242944762 | < 0.001 | 84759 | PCGF1 |
| -0.242989808 | < 0.001 | 400986 | ANKRD36C |
| -0.24306345 | < 0.001 | 10233 | LRRC23 |
| -0.243111268 | < 0.001 | 4354 | MPP1 |
| -0.243195131 | < 0.001 | 8228 | PNPLA4 |
| -0.243195221 | < 0.001 | 29122 | TSP50 |
| -0.243220195 | < 0.001 | 642475 | C8orf73 |
| -0.243257165 | < 0.001 | 178 | AGL |
| -0.243286878 | < 0.001 | 836 | CASP3 |
| -0.243532792 | < 0.001 | 79154 | DHRS11 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.299613893 | 0.076174766 | 0.093 | 1 | 11176 | BAZ2A |
| -0.299613893 | 0.076174766 | 0.104 | 1 | 64412 | GZF1 |
| -0.299613893 | 0.076174766 | 0.098 | 1 | 131566 | DCBLD2 |
| -0.299871296 | 0.075913556 | 0.093 | 1 | 1579 | CYP4A11 |
| -0.299871296 | 0.075913556 | 0.091 | 1 | 27068 | PPA2 |
| -0.299871296 | 0.075913556 | 0.106 | 1 | 79037 | PVRIG |
| -0.299871296 | 0.075913556 | 0.105 | 1 | 79132 | DHX58 |
| -0.299871296 | 0.075913556 | 0.106 | 1 | 81542 | TMX1 |
| -0.300128669 | 0.075653061 | 0.097 | 1 | 4818 | NKG7 |
| -0.300128669 | 0.075653061 | 0.087 | 1 | 65065 | NBEAL1 |
| -0.300386101 | 0.075393155 | 0.109 | 1 | 1831 | TSC22D3 |
| -0.300386101 | 0.075393155 | 0.11 | 1 | 9540 | TP53I3 |
| -0.300386101 | 0.075393155 | 0.097 | 1 | 25816 | TNFAIP8 |
| -0.300386101 | 0.075393155 | 0.103 | 1 | 84054 | PCDHB19P |
| -0.300643474 | 0.075134091 | 0.104 | 1 | 8335 | HIST1H2AB |
| -0.300643474 | 0.075134091 | 0.1 | 1 | 9314 | KLF4 |
| -0.300643474 | 0.075134091 | 0.091 | 1 | 9976 | CLEC2B |
| -0.300643474 | 0.075134091 | 0.099 | 1 | 23457 | ABCB9 |
| -0.300900906 | 0.074875712 | 0.095 | 1 | 1060 | CENPC1 |
| -0.300900906 | 0.074875712 | 0.1 | 1 | 1912 | PHC2 |
| -0.300900906 | 0.074875712 | 0.096 | 1 | 26716 | OR2H1 |
| -0.300900906 | 0.074875712 | 0.108 | 1 | 339059 | AC138028.2 |
| -0.300900906 | 0.074875712 | 0.109 | 1 | 391475 | DYTN |
| -0.301158309 | 0.074618027 | 0.097 | 1 | 54505 | DHX29 |
| -0.301158309 | 0.074618027 | 0.098 | 1 | 58516 | FAM60A |
| -0.301158309 | 0.074618027 | 0.099 | 1 | 90522 | YIF1B |
| -0.301158309 | 0.074618027 | 0.106 | 1 | 93587 | RG9MTD2 |
| -0.301158309 | 0.074618027 | 0.085 | 1 | 147798 | TMC4 |
| -0.301158309 | 0.074618027 | 0.103 | 1 | 166793 | ZNF509 |
| -0.301415682 | 0.074360922 | 0.114 | 1 | 987 | LRBA |
| -0.301415682 | 0.074360922 | 0.1 | 1 | 4758 | NEU1 |
| -0.301415682 | 0.074360922 | 0.102 | 1 | 201514 | ZNF584 |
| -0.301673114 | 0.074104637 | 0.096 | 1 | 341 | APOC1 |
| -0.301673114 | 0.074104637 | 0.091 | 1 | 4728 | NDUFS8 |
| -0.301673114 | 0.074104637 | 0.087 | 1 | 51537 | MTP18 |
| -0.301673114 | 0.074104637 | 0.091 | 1 | 56944 | OLFML3 |
| -0.301673114 | 0.074104637 | 0.091 | 1 | 80704 | SLC19A3 |
| -0.301930487 | 0.073849075 | 0.103 | 1 | 8123 | PAR5 |
| -0.301930487 | 0.073849075 | 0.119 | 1 | 11067 | C10orf10 |
| -0.301930487 | 0.073849075 | 0.105 | 1 | 11313 | LYPLA2 |
| -0.301930487 | 0.073849075 | 0.095 | 1 | 90427 | BMF |
| -0.301930487 | 0.073849075 | 0.119 | 1 | 159963 | SLC5A12 |
| -0.30218792 | 0.073594183 | 0.103 | 1 | 1797 | DOM3Z |
| -0.30218792 | 0.073594183 | 0.098 | 1 | 3250 | HPR |
| -0.30218792 | 0.073594183 | 0.086 | 1 | 4790 | NFKB1 |
| -0.30218792 | 0.073594183 | 0.098 | 1 | 6487 | ST3GAL3 |
| -0.30218792 | 0.073594183 | 0.097 | 1 | 8603 | C4orf8 |
| -0.30218792 | 0.073594183 | 0.098 | 1 | 23619 | ZIM2 |
| -0.30218792 | 0.073594183 | 0.072 | 1 | 55802 | DCP1A |
| -0.30218792 | 0.073594183 | 0.09 | 1 | 124404 | SEPTIN12 |
| -0.302445292 | 0.073339984 | 0.104 | 1 | 4584 | MUC3A |
| -0.302445292 | 0.073339984 | 0.092 | 1 | 5836 | PYGL |
| -0.302445292 | 0.073339984 | 0.095 | 1 | 55787 | CXorf15 |
| -0.302445292 | 0.073339984 | 0.09 | 1 | 124925 | SEZ6 |
| -0.302445292 | 0.073339984 | 0.089 | 1 | 100303728 | RP3-404F18.2 |
| -0.302702695 | 0.073086366 | 0.089 | 1 | 7162 | TPBG |
| -0.302702695 | 0.073086366 | 0.109 | 1 | 132243 | H1FOO |
| -0.302960098 | 0.072833553 | 0.094 | 1 | 595 | CCND1 |
| -0.302960098 | 0.072833553 | 0.085 | 1 | 6631 | SNRPC |
| -0.302960098 | 0.072833553 | 0.099 | 1 | 10741 | RBBP9 |
| -0.302960098 | 0.072833553 | 0.11 | 1 | 441204 | LOC441204 |
| -0.3032175 | 0.072581463 | 0.101 | 1 | 5433 | POLR2D |
| -0.3032175 | 0.072581463 | 0.094 | 1 | 5872 | RAB13 |
| -0.3032175 | 0.072581463 | 0.087 | 1 | 7069 | THRSP |
| -0.3032175 | 0.072581463 | 0.088 | 1 | 55006 | TRMT61B |
| -0.3032175 | 0.072581463 | 0.093 | 1 | 55020 | TTC38 |
| -0.3032175 | 0.072581463 | 0.108 | 1 | 80069 | C6ORF208 |
| -0.3032175 | 0.072581463 | 0.086 | 1 | 255812 | SDHAP1 |
| -0.3032175 | 0.072581463 | 0.084 | 1 | 390664 | C1QTNF8 |
| -0.303474903 | 0.072330035 | 0.123 | 1 | 5816 | PVALB |
| -0.303474903 | 0.072330035 | 0.087 | 1 | 6886 | TAL1 |
| -0.303474903 | 0.072330035 | 0.116 | 1 | 11343 | MGLL |
| -0.303474903 | 0.072330035 | 0.107 | 1 | 57506 | MAVS |
| -0.303474903 | 0.072330035 | 0.099 | 1 | 140828 | LINC00261 |
| -0.303474903 | 0.072330035 | 0.102 | 1 | 283349 | RASSF3 |
| -0.303732306 | 0.072079182 | 0.114 | 1 | 753 | C18orf1 |
| -0.303732306 | 0.072079182 | 0.107 | 1 | 3672 | ITGA1 |
| -0.303732306 | 0.072079182 | 0.108 | 1 | 9617 | MTRF1 |
| -0.303732306 | 0.072079182 | 0.078 | 1 | 83657 | DYNLRB2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.243556559 | < 0.001 | 51561 | IL23A |
| -0.24358739 | < 0.001 | 55607 | PPP1R9A |
| -0.243623987 | < 0.001 | 81856 | ZNF611 |
| -0.24368304 | < 0.001 | 476 | ATP1A1 |
| -0.243753716 | < 0.001 | 60681 | FKBP10 |
| -0.243828192 | < 0.001 | 339983 | NAT8L |
| -0.243907779 | < 0.001 | 54726 | OTUD4 |
| -0.243945211 | < 0.001 | 23433 | RHOQ |
| -0.243961826 | < 0.001 | 51259 | TMEM216 |
| -0.243991733 | < 0.001 | 25798 | BRI3 |
| -0.244008914 | < 0.001 | 3136 | HLA-H |
| -0.244069561 | < 0.001 | 400512 | AC106739.1 |
| -0.244097412 | < 0.001 | 10332 | CLEC4M |
| -0.244108096 | < 0.001 | 440180 | LOC440180 |
| -0.244126573 | < 0.001 | 5959 | RDH5 |
| -0.244392827 | < 0.001 | 207063 | DHRSX |
| -0.244436845 | < 0.001 | 7881 | KCNAB1 |
| -0.244488567 | < 0.001 | 389136 | VGLL3 |
| -0.244493678 | < 0.001 | 80778 | ZNF34 |
| -0.244654059 | < 0.001 | 80709 | AKNA |
| -0.244660929 | < 0.001 | 283011 | FLJ37201 |
| -0.24467653 | < 0.001 | 22 | ABCB7 |
| -0.244702533 | < 0.001 | 730087 | ZNF726 |
| -0.244840339 | < 0.001 | 5253 | PHF2 |
| -0.244857803 | < 0.001 | 55120 | FANCL |
| -0.244864672 | < 0.001 | 5350 | PLN |
| -0.244902477 | < 0.001 | 7298 | TYMS |
| -0.244911388 | < 0.001 | 10291 | SF3A1 |
| -0.24495931 | < 0.001 | 84897 | TBRG1 |
| -0.244998395 | < 0.001 | 91833 | WDR20 |
| -0.245000809 | < 0.001 | 7979 | SHFM1 |
| -0.245110214 | < 0.001 | 1006 | CDH8 |
| -0.245141223 | < 0.001 | 10780 | ZNF234 |
| -0.245157301 | < 0.001 | 28999 | KLF15 |
| -0.245205313 | < 0.001 | 57189 | KIAA1147 |
| -0.245286196 | < 0.001 | 54435 | HCG4 |
| -0.245421961 | < 0.001 | 8330 | HIST1H2AK |
| -0.245531172 | < 0.001 | 3441 | IFNA4 |
| -0.245538414 | < 0.001 | 79846 | C7orf63 |
| -0.245672047 | < 0.001 | 22981 | NINL |
| -0.24567382 | < 0.001 | 27156 | RTDR1 |
| -0.245767146 | < 0.001 | 150759 | LINC00342 |
| -0.245770112 | < 0.001 | 57716 | PRX |
| -0.245837167 | < 0.001 | 339145 | FAM92B |
| -0.245899484 | < 0.001 | 253769 | WDR27 |
| -0.245965883 | < 0.001 | 7074 | TIAM1 |
| -0.246028557 | < 0.001 | 59274 | MESDC1 |
| -0.246035531 | < 0.001 | 10537 | UBD |
| -0.246044993 | < 0.001 | 338692 | ANKRD13D |
| -0.246084288 | < 0.001 | 1943 | EFNA2 |
| -0.246118739 | < 0.001 | 285512 | FAM13A-AS1 |
| -0.246161088 | < 0.001 | 64866 | CDCP1 |
| -0.246180579 | < 0.001 | 5966 | REL |
| -0.24622646 | < 0.001 | 199223 | TTC21A |
| -0.246394634 | < 0.001 | 57104 | PNPLA2 |
| -0.246395662 | < 0.001 | 3020 | H3F3A |
| -0.246399745 | < 0.001 | 29078 | NDUFAF4 |
| -0.246451467 | < 0.001 | 23589 | CARHSP1 |
| -0.246452957 | < 0.001 | 727 | C5 |
| -0.246472552 | < 0.001 | 1956 | EGFR |
| -0.246497259 | < 0.001 | 729652 | LOC729652 |
| -0.246556506 | < 0.001 | 5208 | PFKFB2 |
| -0.246565327 | < 0.001 | 54587 | MXRA8 |
| -0.246699527 | < 0.001 | 2676 | GFRA3 |
| -0.246711686 | < 0.001 | 403341 | ZBTB34 |
| -0.246711776 | < 0.001 | 400684 | LOC400684 |
| -0.246765643 | < 0.001 | 80314 | EPC1 |
| -0.246975422 | < 0.001 | 8464 | SUPT3H |
| -0.247258663 | < 0.001 | 1649 | DDIT3 |
| -0.247461021 | < 0.001 | 80198 | MUS81 |
| -0.247667834 | < 0.001 | 730 | C7 |
| -0.247696534 | < 0.001 | 8324 | FZD7 |
| -0.247778535 | < 0.001 | 120892 | LRRK2 |
| -0.247833878 | < 0.001 | 488 | ATP2A2 |
| -0.247858495 | < 0.001 | 4117 | MAK |
| -0.247932032 | < 0.001 | 729859 | LOC729859 |
| -0.247934446 | < 0.001 | 56164 | STK31 |
| -0.248011723 | < 0.001 | 9049 | AIP |
| -0.248017758 | < 0.001 | 64225 | ATL2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.303732306 | 0.072079182 | 0.091 | 1 | 93556 | EGFEM1P |
| -0.303989679 | 0.071829125 | 0.088 | 1 | 8284 | KDM5D |
| -0.303989679 | 0.071829125 | 0.105 | 1 | 23007 | PLCH1 |
| -0.303989679 | 0.071829125 | 0.09 | 1 | 84436 | ZNF528 |
| -0.303989679 | 0.071829125 | 0.095 | 1 | 148398 | SAMD11 |
| -0.304247111 | 0.071579754 | 0.105 | 1 | 1301 | COL11A1 |
| -0.304247111 | 0.071579754 | 0.106 | 1 | 3399 | ID3 |
| -0.304247111 | 0.071579754 | 0.087 | 1 | 10481 | HOXB13 |
| -0.304247111 | 0.071579754 | 0.093 | 1 | 26292 | MYCBP |
| -0.304504484 | 0.071331106 | 0.108 | 1 | 23354 | HAUS5 |
| -0.304504484 | 0.071331106 | 0.094 | 1 | 80341 | BPIL1 |
| -0.304504484 | 0.071331106 | 0.113 | 1 | 84720 | PIGO |
| -0.304761916 | 0.071083002 | 0.102 | 1 | 23264 | ZC3H7B |
| -0.304761916 | 0.071083002 | 0.091 | 1 | 26585 | GREM1 |
| -0.304761916 | 0.071083002 | 0.103 | 1 | 79005 | SCNM1 |
| -0.304761916 | 0.071083002 | 0.087 | 1 | 284058 | KIAA1267 |
| -0.304761916 | 0.071083002 | 0.07 | 1 | 100129480 | LOC100129480 |
| -0.305019289 | 0.07083568 | 0.086 | 1 | 2619 | GAS1 |
| -0.305019289 | 0.07083568 | 0.095 | 1 | 153562 | MARVELD2 |
| -0.305276692 | 0.070589051 | 0.096 | 1 | 5725 | PTBP1 |
| -0.305276692 | 0.070589051 | 0.096 | 1 | 24139 | EML2 |
| -0.305276692 | 0.070589051 | 0.107 | 1 | 27065 | AC110814.1 |
| -0.305276692 | 0.070589051 | 0.116 | 1 | 285888 | CNPY1 |
| -0.305534095 | 0.0703431 | 0.082 | 1 | 4066 | LYL1 |
| -0.305534095 | 0.0703431 | 0.109 | 1 | 5585 | PKN1 |
| -0.305534095 | 0.0703431 | 0.092 | 1 | 8190 | MIA |
| -0.305534095 | 0.0703431 | 0.088 | 1 | 10803 | CCR9 |
| -0.305534095 | 0.0703431 | 0.113 | 1 | 51809 | GALNT7 |
| -0.305534095 | 0.0703431 | 0.094 | 1 | 55275 | VPS53 |
| -0.305534095 | 0.0703431 | 0.091 | 1 | 79695 | GALNT12 |
| -0.305791497 | 0.070097849 | 0.09 | 1 | 162 | AP1B1 |
| -0.305791497 | 0.070097849 | 0.11 | 1 | 1874 | E2F4 |
| -0.305791497 | 0.070097849 | 0.098 | 1 | 6382 | SDC1 |
| -0.3060489 | 0.069853142 | 0.094 | 1 | 11061 | LECT1 |
| -0.3060489 | 0.069853142 | 0.101 | 1 | 30813 | VSX1 |
| -0.3060489 | 0.069853142 | 0.096 | 1 | 91801 | ALKBH8 |
| -0.3060489 | 0.069853142 | 0.087 | 1 | 259234 | DSCR10 |
| -0.306306303 | 0.069609225 | 0.086 | 1 | 518 | ATP5G3 |
| -0.306306303 | 0.069609225 | 0.09 | 1 | 1181 | CLCN2 |
| -0.306306303 | 0.069609225 | 0.091 | 1 | 9580 | SOX13 |
| -0.306563675 | 0.069365986 | 0.084 | 1 | 215 | ABCD1 |
| -0.306563675 | 0.069365986 | 0.097 | 1 | 1827 | RCAN1 |
| -0.306563675 | 0.069365986 | 0.078 | 1 | 5916 | RARG |
| -0.306563675 | 0.069365986 | 0.096 | 1 | 9640 | ZNF592 |
| -0.306821108 | 0.069123417 | 0.094 | 1 | 8464 | SUPT3H |
| -0.306821108 | 0.069123417 | 0.104 | 1 | 408263 | C5orf40 |
| -0.307078481 | 0.06888143 | 0.084 | 1 | 4682 | NUBP1 |
| -0.307078481 | 0.06888143 | 0.095 | 1 | 7867 | MAPKAPK3 |
| -0.307078481 | 0.06888143 | 0.1 | 1 | 10721 | POLQ |
| -0.307078481 | 0.06888143 | 0.099 | 1 | 25896 | INTS7 |
| -0.307078481 | 0.06888143 | 0.093 | 1 | 64324 | NSD1 |
| -0.307335913 | 0.06864021 | 0.083 | 1 | 57140 | RNPEPL1 |
| -0.307335913 | 0.06864021 | 0.081 | 1 | 729085 | C3orf41 |
| -0.307593286 | 0.06839966 | 0.072 | 1 | 2167 | FABP4 |
| -0.307593286 | 0.06839966 | 0.123 | 1 | 5243 | ABCB1 |
| -0.307593286 | 0.06839966 | 0.097 | 1 | 10782 | ZNF274 |
| -0.307593286 | 0.06839966 | 0.077 | 1 | 100132724 | DCAF13P3 |
| -0.307850689 | 0.068159774 | 0.104 | 1 | 51171 | HSD17B14 |
| -0.307850689 | 0.068159774 | 0.086 | 1 | 158405 | KIAA1958 |
| -0.308108121 | 0.067920446 | 0.103 | 1 | 83860 | TAF3 |
| -0.308108121 | 0.067920446 | 0.1 | 1 | 284440 | LOC284440 |
| -0.308365494 | 0.067681931 | 0.089 | 1 | 5122 | PCSK1 |
| -0.308622926 | 0.067444049 | 0.084 | 1 | 1138 | CHRNA5 |
| -0.308622926 | 0.067444049 | 0.092 | 1 | 80307 | FER1L4 |
| -0.308622926 | 0.067444049 | 0.085 | 1 | 84701 | COX4I2 |
| -0.308880299 | 0.067206822 | 0.074 | 1 | 926 | CD8B |
| -0.308880299 | 0.067206822 | 0.084 | 1 | 8091 | HMGA2 |
| -0.308880299 | 0.067206822 | 0.091 | 1 | 339883 | C3orf35 |
| -0.308880299 | 0.067206822 | 0.088 | 1 | 387032 | ZKSCAN4 |
| -0.308880299 | 0.067206822 | 0.088 | 1 | 728378 | A26C1B |
| -0.308880299 | 0.067206822 | 0.087 | 1 | 100288788 | LOC100288788 |
| -0.309137702 | 0.066970266 | 0.09 | 1 | 2679 | GGT3P |
| -0.309137702 | 0.066970266 | 0.095 | 1 | 26164 | GTPBP5 |
| -0.309137702 | 0.066970266 | 0.072 | 1 | 285605 | DTWD2 |
| -0.309395105 | 0.066734269 | 0.103 | 1 | 4613 | MYCN |
| -0.309395105 | 0.066734269 | 0.092 | 1 | 57017 | COQ9 |
| -0.309652507 | 0.066499062 | 0.081 | 1 | 5079 | PAX5 |
| -0.309652507 | 0.066499062 | 0.09 | 1 | 5557 | PRIM1 |
| -0.309652507 | 0.066499062 | 0.09 | 1 | 7385 | UQCRC2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.248083785 | < 0.001 | 6487 | ST3GAL3 |
| -0.248153344 | < 0.001 | 199777 | ZNF626 |
| -0.248155475 | < 0.001 | 55857 | PLK1S1 |
| -0.248188257 | < 0.001 | 54538 | ROBO4 |
| -0.248285666 | < 0.001 | 8353 | HIST1H3E |
| -0.248396918 | < 0.001 | 283579 | C14orf178 |
| -0.248434067 | < 0.001 | 23086 | EXPH5 |
| -0.248591751 | < 0.001 | 133522 | PPARGC1B |
| -0.248634472 | < 0.001 | 11080 | DNAJB4 |
| -0.248634756 | < 0.001 | 3265 | HRAS |
| -0.2487019 | < 0.001 | 2619 | GAS1 |
| -0.24872233 | < 0.001 | 10380 | BPNT1 |
| -0.248749807 | < 0.001 | 10891 | PPARGC1A |
| -0.248796612 | < 0.001 | 29937 | NENF |
| -0.248813704 | < 0.001 | 2294 | FOXF1 |
| -0.248843238 | < 0.001 | 379025 | RP11-349A22.5 |
| -0.248857722 | < 0.001 | 3151 | HMGN2 |
| -0.248889491 | < 0.001 | 3426 | CFI |
| -0.248890698 | < 0.001 | 374618 | TEX9 |
| -0.248950586 | < 0.001 | 54768 | HYDIN |
| -0.249015972 | < 0.001 | 441295 | OR2A9P |
| -0.249042526 | < 0.001 | 80853 | JHDM1D |
| -0.249117106 | < 0.001 | 27436 | EML4 |
| -0.249165118 | < 0.001 | 9441 | MED26 |
| -0.249297917 | < 0.001 | 166785 | MMAA |
| -0.249386415 | < 0.001 | 10560 | SLC19A2 |
| -0.249411479 | < 0.001 | 23240 | KIAA0922 |
| -0.249429598 | < 0.001 | 57106 | NAT14 |
| -0.249456435 | < 0.001 | 64105 | CENPK |
| -0.249467105 | < 0.001 | 157657 | C8orf37 |
| -0.249553844 | < 0.001 | 8339 | HIST1H2BG |
| -0.249640405 | < 0.001 | 23452 | ANGPTL2 |
| -0.249657765 | < 0.001 | 3134 | HLA-F |
| -0.249668449 | < 0.001 | 414328 | IDNK |
| -0.24970299 | < 0.001 | 25909 | AHCTF1 |
| -0.249718592 | < 0.001 | 23559 | WBP1 |
| -0.249727041 | < 0.001 | 389075 | RESP18 |
| -0.24986653 | < 0.001 | 6253 | RTN2 |
| -0.249885753 | < 0.001 | 400617 | KCNJ2-AS1 |
| -0.249886766 | < 0.001 | 2557 | GABRA4 |
| -0.249930143 | < 0.001 | 388849 | LOC388849 |
| -0.249930233 | < 0.001 | 79035 | OBFC2B |
| -0.250006288 | < 0.001 | 4676 | NAP1L4 |
| -0.250101477 | < 0.001 | 440084 | LOC440084 |
| -0.250179768 | < 0.001 | 100130357 | LOC100130357 |
| -0.250393182 | < 0.001 | 161198 | CLEC14A |
| -0.250396043 | < 0.001 | 114625 | ERMAP |
| -0.250499219 | < 0.001 | 1962 | EHHADH |
| -0.250516593 | < 0.001 | 79415 | C17orf62 |
| -0.250577986 | < 0.001 | 6432 | SFRS7 |
| -0.250656545 | < 0.001 | 2895 | GRID2 |
| -0.250660539 | < 0.001 | 6792 | CDKL5 |
| -0.250719041 | < 0.001 | 5585 | PKN1 |
| -0.250741333 | < 0.001 | 124751 | KRBA2 |
| -0.25078097 | < 0.001 | 338557 | GPR120 |
| -0.250843763 | < 0.001 | 124641 | OVCA2 |
| -0.250873953 | < 0.001 | 94120 | SYTL3 |
| -0.25097841 | < 0.001 | 84842 | HPDL |
| -0.251042485 | < 0.001 | 116255 | MOGAT1 |
| -0.251078069 | < 0.001 | 26509 | MYOF |
| -0.251142591 | < 0.001 | 389852 | SPACA5 |
| -0.251206219 | < 0.001 | 284948 | SH2D6 |
| -0.251260549 | < 0.001 | 10484 | SEC23A |
| -0.251268625 | < 0.001 | 3912 | LAMB1 |
| -0.251426131 | < 0.001 | 23619 | ZIM2 |
| -0.25145036 | < 0.001 | 1856 | DVL2 |
| -0.251474589 | < 0.001 | 9976 | CLEC2B |
| -0.251510441 | < 0.001 | 80219 | COQ10B |
| -0.251531065 | < 0.001 | 23318 | ZCCHC11 |
| -0.251667559 | < 0.001 | 142684 | RAB40A |
| -0.251704901 | < 0.001 | 132 | ADK |
| -0.251728117 | < 0.001 | 79109 | MAPKAP1 |
| -0.251785606 | < 0.001 | 26035 | GLCE |
| -0.25180158 | < 0.001 | 51455 | REV1 |
| -0.251886189 | < 0.001 | 7275 | TUB |
| -0.251886636 | < 0.001 | 5329 | PLAUR |
| -0.251896501 | < 0.001 | 201163 | FLCN |
| -0.252043396 | < 0.001 | 84913 | ATOH8 |
| -0.252132177 | < 0.001 | 729171 | ANKRD20A8P |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.30990991 | 0.066264495 | 0.085 | 1 | 9679 | FAM53B |
| -0.30990991 | 0.066264495 | 0.102 | 1 | 26683 | OR4F3 |
| -0.30990991 | 0.066264495 | 0.092 | 1 | 55510 | DDX43 |
| -0.310167313 | 0.066030577 | 0.077 | 1 | 793 | CALB1 |
| -0.310167313 | 0.066030577 | 0.072 | 1 | 2444 | FRK |
| -0.310167313 | 0.066030577 | 0.082 | 1 | 2886 | GRB7 |
| -0.310167313 | 0.066030577 | 0.086 | 1 | 4126 | MANBA |
| -0.310167313 | 0.066030577 | 0.102 | 1 | 170506 | DHX36 |
| -0.310424685 | 0.065797217 | 0.079 | 1 | 23452 | ANGPTL2 |
| -0.310424685 | 0.065797217 | 0.1 | 1 | 55285 | RBM41 |
| -0.310424685 | 0.065797217 | 0.106 | 1 | 90204 | ZSWIM1 |
| -0.310682118 | 0.065564618 | 0.068 | 1 | 4239 | MFAP4 |
| -0.310682118 | 0.065564618 | 0.112 | 1 | 8772 | FADD |
| -0.310682118 | 0.065564618 | 0.085 | 1 | 131578 | LRRC15 |
| -0.310939491 | 0.065332688 | 0.101 | 1 | 958 | CD40 |
| -0.310939491 | 0.065332688 | 0.096 | 1 | 7980 | TFPI2 |
| -0.310939491 | 0.065332688 | 0.065 | 1 | 8519 | IFITM1 |
| -0.310939491 | 0.065332688 | 0.093 | 1 | 255403 | ZNF718 |
| -0.311196923 | 0.0651014 | 0.082 | 1 | 869 | CBLN1 |
| -0.311196923 | 0.0651014 | 0.077 | 1 | 5245 | PHB |
| -0.311454296 | 0.064870656 | 0.097 | 1 | 3101 | HK3 |
| -0.311454296 | 0.064870656 | 0.117 | 1 | 55102 | ATG2B |
| -0.311454296 | 0.064870656 | 0.097 | 1 | 57187 | THOC2 |
| -0.311454296 | 0.064870656 | 0.101 | 1 | 152816 | C4orf26 |
| -0.311711699 | 0.064640664 | 0.076 | 1 | 30834 | ZNRD1 |
| -0.311969101 | 0.06441135 | 0.081 | 1 | 838 | CASP5 |
| -0.311969101 | 0.06441135 | 0.087 | 1 | 4860 | PNP |
| -0.312226504 | 0.064182661 | 0.079 | 1 | 9937 | DCLRE1A |
| -0.312226504 | 0.064182661 | 0.091 | 1 | 51703 | ACSL5 |
| -0.312226504 | 0.064182661 | 0.088 | 1 | 203510 | HMGB3P30 |
| -0.312226504 | 0.064182661 | 0.089 | 1 | 221908 | C7orf47 |
| -0.312483907 | 0.063954644 | 0.088 | 1 | 2180 | ACSL1 |
| -0.312483907 | 0.063954644 | 0.075 | 1 | 195827 | AAED1 |
| -0.312483907 | 0.063954644 | 0.089 | 1 | 254394 | C6orf61 |
| -0.312483907 | 0.063954644 | 0.098 | 1 | 642938 | FAM196A |
| -0.312483907 | 0.063954644 | 0.078 | 1 | 100128164 | RP11-379K17.4 |
| -0.312741309 | 0.063727126 | 0.087 | 1 | 382 | ARF6 |
| -0.312741309 | 0.063727126 | 0.088 | 1 | 79718 | TBL1XR1 |
| -0.312741309 | 0.063727126 | 0.079 | 1 | 84307 | ZNF397 |
| -0.312741309 | 0.063727126 | 0.077 | 1 | 84696 | ABHD1 |
| -0.312741309 | 0.063727126 | 0.092 | 1 | 125704 | C18orf51 |
| -0.312741309 | 0.063727126 | 0.08 | 1 | 286436 | H2BFM |
| -0.312998682 | 0.063500389 | 0.09 | 1 | 5184 | PEPD |
| -0.312998682 | 0.063500389 | 0.111 | 1 | 5443 | POMC |
| -0.312998682 | 0.063500389 | 0.096 | 1 | 57189 | KIAA1147 |
| -0.312998682 | 0.063500389 | 0.087 | 1 | 122622 | ADSSL1 |
| -0.312998682 | 0.063500389 | 0.079 | 1 | 144717 | FAM109A |
| -0.312998682 | 0.063500389 | 0.071 | 1 | 404220 | C6orf201 |
| -0.312998682 | 0.063500389 | 0.091 | 1 | 647024 | C6orf132 |
| -0.313256115 | 0.063274279 | 0.072 | 1 | 51059 | FAM135B |
| -0.313513488 | 0.063048817 | 0.102 | 1 | 8529 | CYP4F2 |
| -0.313513488 | 0.063048817 | 0.091 | 1 | 83606 | C22orf13 |
| -0.313513488 | 0.063048817 | 0.088 | 1 | 114991 | ZNF618 |
| -0.31377092 | 0.062823892 | 0.086 | 1 | 8694 | DGAT1 |
| -0.31377092 | 0.062823892 | 0.085 | 1 | 92369 | SPSB4 |
| -0.314028293 | 0.062599711 | 0.082 | 1 | 1908 | EDN3 |
| -0.314028293 | 0.062599711 | 0.093 | 1 | 54532 | USP53 |
| -0.314028293 | 0.062599711 | 0.08 | 1 | 133923 | ZNF474 |
| -0.314285696 | 0.06237619 | 0.085 | 1 | 965 | CD58 |
| -0.314285696 | 0.06237619 | 0.092 | 1 | 5147 | PDE6D |
| -0.314285696 | 0.06237619 | 0.079 | 1 | 9374 | PPT2 |
| -0.314285696 | 0.06237619 | 0.077 | 1 | 10201 | NME6 |
| -0.314285696 | 0.06237619 | 0.071 | 1 | 23224 | SYNE2 |
| -0.314285696 | 0.06237619 | 0.092 | 1 | 89883 | OR6W1P |
| -0.314285696 | 0.06237619 | 0.088 | 1 | 389161 | C3orf16 |
| -0.314543098 | 0.062153284 | 0.081 | 1 | 7169 | TPM2 |
| -0.314543098 | 0.062153284 | 0.083 | 1 | 53345 | TM6SF2 |
| -0.314543098 | 0.062153284 | 0.088 | 1 | 124602 | KIF19 |
| -0.314800501 | 0.061930913 | 0.09 | 1 | 8545 | CGGBP1 |
| -0.314800501 | 0.061930913 | 0.081 | 1 | 10847 | SRCAP |
| -0.315057933 | 0.061709274 | 0.088 | 1 | 95 | ACY1 |
| -0.315057933 | 0.061709274 | 0.075 | 1 | 5091 | PC |
| -0.315057933 | 0.061709274 | 0.088 | 1 | 25861 | DFNB31 |
| -0.315057933 | 0.061709274 | 0.077 | 1 | 79776 | ZFHX4 |
| -0.315057933 | 0.061709274 | 0.084 | 1 | 84976 | DISP1 |
| -0.315057933 | 0.061709274 | 0.095 | 1 | 117532 | TMC2 |
| -0.315315306 | 0.061488297 | 0.08 | 1 | 24146 | CLDN15 |
| -0.315315306 | 0.061488297 | 0.089 | 1 | 80167 | C4orf29 |
| -0.315315306 | 0.061488297 | 0.064 | 1 | 84191 | FAM96A |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.252162367 | < 0.001 | 55799 | CACNA2D3 |
| -0.252245098 | < 0.001 | 257218 | SHPRH |
| -0.252373993 | < 0.001 | 150291 | MORC2-AS1 |
| -0.25240317 | < 0.001 | 919 | CD247 |
| -0.252418756 | < 0.001 | 57140 | RNPEPL1 |
| -0.252472997 | < 0.001 | 730130 | AC004690.2 |
| -0.252474934 | < 0.001 | 23148 | NACAD |
| -0.252474934 | < 0.001 | 349114 | LINC00265 |
| -0.25250569 | < 0.001 | 5116 | PCNT |
| -0.252561957 | < 0.001 | 54935 | DUSP23 |
| -0.252656132 | < 0.001 | 26090 | ABHD12 |
| -0.25267145 | < 0.001 | 79048 | SECISBP2 |
| -0.252699971 | < 0.001 | 8379 | MAD1L1 |
| -0.252758294 | < 0.001 | 7469 | WHSC2 |
| -0.25285235 | < 0.001 | 3827 | KNG1 |
| -0.252901286 | < 0.001 | 50838 | TAS2R13 |
| -0.252944857 | < 0.001 | 1998 | ELF2 |
| -0.253015995 | < 0.001 | 90799 | CEP95 |
| -0.253076166 | < 0.001 | 51270 | TFDP3 |
| -0.253100961 | < 0.001 | 89822 | KCNK17 |
| -0.25327155 | < 0.001 | 7169 | TPM2 |
| -0.253350019 | < 0.001 | 538 | ATP7A |
| -0.253397018 | < 0.001 | 54550 | NECAB2 |
| -0.253555626 | < 0.001 | 285440 | CYP4V2 |
| -0.253595829 | < 0.001 | 55698 | RADIL |
| -0.253621757 | < 0.001 | 6134 | RPL10 |
| -0.253657967 | < 0.001 | 56893 | UBQLN4 |
| -0.25366345 | < 0.001 | 146540 | ZNF785 |
| -0.253696322 | < 0.001 | 8685 | MARCO |
| -0.253739983 | < 0.001 | 138429 | PIP5KL1 |
| -0.253756791 | < 0.001 | 10919 | EHMT2 |
| -0.253767639 | < 0.001 | 3040 | HBA2 |
| -0.25377813 | < 0.001 | 55596 | ZCCHC8 |
| -0.253869504 | < 0.001 | 56261 | RP5-1022P6.1 |
| -0.253880113 | < 0.001 | 1912 | PHC2 |
| -0.253939062 | < 0.001 | 5520 | PPP2R2A |
| -0.253942609 | < 0.001 | 1668 | DEFA3 |
| -0.254004002 | < 0.001 | 9175 | MAP3K13 |
| -0.254005283 | < 0.001 | 92840 | REEP6 |
| -0.254098982 | < 0.001 | 81575 | APOLD1 |
| -0.254233748 | < 0.001 | 6732 | SRPK1 |
| -0.254254729 | < 0.001 | 4957 | ODF2 |
| -0.254377782 | < 0.001 | 51474 | LIMA1 |
| -0.254420012 | < 0.001 | 80279 | CDK5RAP3 |
| -0.254430622 | < 0.001 | 10276 | NET1 |
| -0.254460245 | < 0.001 | 6723 | SRM |
| -0.254587382 | < 0.001 | 10312 | TCIRG1 |
| -0.254691839 | < 0.001 | 3352 | HTR1D |
| -0.254700482 | < 0.001 | 390664 | C1QTNF8 |
| -0.254767537 | < 0.001 | 3039 | HBA1 |
| -0.254834205 | < 0.001 | 59 | ACTA2 |
| -0.255063027 | < 0.001 | 7352 | UCP3 |
| -0.255246997 | < 0.001 | 83872 | HMCN1 |
| -0.255295008 | < 0.001 | 5947 | RBP1 |
| -0.255314797 | < 0.001 | 57835 | SLC4A5 |
| -0.255454928 | < 0.001 | 494513 | DFNB59 |
| -0.255523562 | < 0.001 | 6164 | RPL34 |
| -0.255541295 | < 0.001 | 767811 | H2BFXP |
| -0.25555855 | < 0.001 | 10352 | WARS2 |
| -0.255650133 | < 0.001 | 387496 | RASL11A |
| -0.255723864 | < 0.001 | 8342 | HIST1H2BM |
| -0.255726844 | < 0.001 | 857 | CAV1 |
| -0.256103873 | < 0.001 | 10263 | CDK2AP2 |
| -0.256252378 | < 0.001 | 9585 | KIF20B |
| -0.256256372 | < 0.001 | 27295 | PDLIM3 |
| -0.256379873 | < 0.001 | 57326 | PBXIP1 |
| -0.256510258 | < 0.001 | 124925 | SEZ6 |
| -0.256560862 | < 0.001 | 254170 | FBXO33 |
| -0.256590784 | < 0.001 | 80864 | XXBAC-BPG300A18.12 |
| -0.256700158 | < 0.001 | 646096 | CHEK2P2 |
| -0.256783545 | < 0.001 | 6605 | SMARCE1 |
| -0.256786168 | < 0.001 | 9885 | OSBPL2 |
| -0.256817639 | < 0.001 | 100289230 | LOC100289230 |
| -0.256881356 | < 0.001 | 58512 | DLGAP3 |
| -0.25691089 | < 0.001 | 375061 | FAM89A |
| -0.256925374 | < 0.001 | 10614 | HEXIM1 |
| -0.256933987 | < 0.001 | 10166 | SLC25A15 |
| -0.256991863 | < 0.001 | 7188 | TRAF5 |
| -0.25710535 | < 0.001 | 388730 | TMEM81 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.315572739 | 0.061267931 | 0.088 | 1 | 3776 | KCNK2 |
| -0.315572739 | 0.061267931 | 0.08 | 1 | 5111 | PCNA |
| -0.315572739 | 0.061267931 | 0.085 | 1 | 26823 | RNU12-2P |
| -0.315830112 | 0.061048191 | 0.07 | 1 | 861 | RUNX1 |
| -0.315830112 | 0.061048191 | 0.081 | 1 | 6297 | SALL2 |
| -0.315830112 | 0.061048191 | 0.088 | 1 | 9254 | CACNA2D2 |
| -0.315830112 | 0.061048191 | 0.072 | 1 | 11152 | WDR45 |
| -0.315830112 | 0.061048191 | 0.076 | 1 | 23338 | PHF15 |
| -0.315830112 | 0.061048191 | 0.083 | 1 | 114790 | STK11IP |
| -0.315830112 | 0.061048191 | 0.085 | 1 | 730130 | AC004690.2 |
| -0.316087514 | 0.060828988 | 0.097 | 1 | 23294 | ANKS1A |
| -0.316087514 | 0.060828988 | 0.079 | 1 | 51561 | IL23A |
| -0.316087514 | 0.060828988 | 0.086 | 1 | 55888 | ZNF167 |
| -0.316087514 | 0.060828988 | 0.08 | 1 | 55967 | NDUFA12 |
| -0.316087514 | 0.060828988 | 0.095 | 1 | 341276 | OR10A2 |
| -0.316344917 | 0.060610536 | 0.074 | 1 | 94103 | ORMDL3 |
| -0.316344917 | 0.060610536 | 0.08 | 1 | 619279 | ZNF704 |
| -0.316602319 | 0.060392685 | 0.094 | 1 | 3918 | LAMC2 |
| -0.316602319 | 0.060392685 | 0.097 | 1 | 51319 | RSRC1 |
| -0.316602319 | 0.060392685 | 0.08 | 1 | 63899 | NSUN3 |
| -0.316602319 | 0.060392685 | 0.087 | 1 | 85463 | ZC3H12C |
| -0.316602319 | 0.060392685 | 0.088 | 1 | 114825 | PWWP2A |
| -0.316859722 | 0.060175464 | 0.074 | 1 | 60672 | MIIP |
| -0.316859722 | 0.060175464 | 0.081 | 1 | 201931 | TMEM192 |
| -0.316859722 | 0.060175464 | 0.082 | 1 | 388419 | BTBD17 |
| -0.317117125 | 0.059958767 | 0.075 | 1 | 7569 | ZNF182 |
| -0.317117125 | 0.059958767 | 0.067 | 1 | 55093 | WDYHV1 |
| -0.317117125 | 0.059958767 | 0.076 | 1 | 646960 | PRSS56 |
| -0.317374498 | 0.059742823 | 0.075 | 1 | 5959 | RDH5 |
| -0.317374498 | 0.059742823 | 0.087 | 1 | 7376 | NR1H2 |
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| -0.317374498 | 0.059742823 | 0.077 | 1 | 643387 | LOC643387 |
| -0.31763193 | 0.059527472 | 0.095 | 1 | 6253 | RTN2 |
| -0.31763193 | 0.059527472 | 0.072 | 1 | 9674 | KIAA0040 |
| -0.31763193 | 0.059527472 | 0.091 | 1 | 55357 | TBC1D2 |
| -0.31763193 | 0.059527472 | 0.091 | 1 | 56129 | PCDHB7 |
| -0.31763193 | 0.059527472 | 0.071 | 1 | 79991 | OBFC1 |
| -0.31763193 | 0.059527472 | 0.085 | 1 | 92715 | WDR85 |
| -0.317889303 | 0.059312742 | 0.08 | 1 | 2842 | GPR19 |
| -0.317889303 | 0.059312742 | 0.074 | 1 | 9053 | MAP7 |
| -0.317889303 | 0.059312742 | 0.084 | 1 | 64342 | HS1BP3 |
| -0.317889303 | 0.059312742 | 0.074 | 1 | 65009 | NDRG4 |
| -0.317889303 | 0.059312742 | 0.097 | 1 | 90407 | TMEM41A |
| -0.317889303 | 0.059312742 | 0.079 | 1 | 92312 | MEX3A |
| -0.318146735 | 0.059098639 | 0.072 | 1 | 2551 | GABPA |
| -0.318146735 | 0.059098639 | 0.072 | 1 | 6257 | RXRB |
| -0.318404108 | 0.058885057 | 0.083 | 1 | 121130 | OR10P1 |
| -0.318404108 | 0.058885057 | 0.067 | 1 | 284402 | SCGBL |
| -0.318661511 | 0.058672212 | 0.082 | 1 | 79630 | C1orf54 |
| -0.318661511 | 0.058672212 | 0.085 | 1 | 114897 | C1QTNF1 |
| -0.318661511 | 0.058672212 | 0.08 | 1 | 283748 | PLA2G4D |
| -0.318661511 | 0.058672212 | 0.071 | 1 | 440138 | ALG11 |
| -0.318918914 | 0.05845996 | 0.074 | 1 | 8654 | PDE5A |
| -0.318918914 | 0.05845996 | 0.073 | 1 | 80830 | APOL6 |
| -0.318918914 | 0.05845996 | 0.083 | 1 | 81565 | NDEL1 |
| -0.318918914 | 0.05845996 | 0.076 | 1 | 349114 | LINC00265 |
| -0.318918914 | 0.05845996 | 0.072 | 1 | 389203 | C4ORF52 |
| -0.319176316 | 0.058248326 | 0.08 | 1 | 7752 | ZNF200 |
| -0.319433719 | 0.05803721 | 0.081 | 1 | 6773 | STAT2 |
| -0.319433719 | 0.05803721 | 0.085 | 1 | 8218 | CLTCL1 |
| -0.319433719 | 0.05803721 | 0.075 | 1 | 285025 | CCDC141 |
| -0.319691122 | 0.057826828 | 0.078 | 1 | 5257 | PHKB |
| -0.319691122 | 0.057826828 | 0.078 | 1 | 10265 | IRX5 |
| -0.319691122 | 0.057826828 | 0.074 | 1 | 11345 | GABARAPL2 |
| -0.319691122 | 0.057826828 | 0.085 | 1 | 56123 | PCDHB13 |
| -0.319691122 | 0.057826828 | 0.084 | 1 | 57091 | CASS4 |
| -0.319691122 | 0.057826828 | 0.081 | 1 | 283297 | OR10A4 |
| -0.319691122 | 0.057826828 | 0.091 | 1 | 415056 | LOC415056 |
| -0.319948494 | 0.057617031 | 0.068 | 1 | 1387 | CREBBP |
| -0.319948494 | 0.057617031 | 0.079 | 1 | 57124 | CD248 |
| -0.319948494 | 0.057617031 | 0.085 | 1 | 142686 | ASB14 |
| -0.319948494 | 0.057617031 | 0.077 | 1 | 729566 | ZBTB8OSP1 |
| -0.320205927 | 0.057407849 | 0.081 | 1 | 4354 | MPP1 |
| -0.320205927 | 0.057407849 | 0.072 | 1 | 9960 | USP3 |
| -0.320205927 | 0.057407849 | 0.07 | 1 | 148789 | B3GALNT2 |
| -0.320205927 | 0.057407849 | 0.077 | 1 | 151647 | FAM19A4 |
| -0.3204633 | 0.05719918 | 0.073 | 1 | 5697 | PYY |
| -0.3204633 | 0.05719918 | 0.083 | 1 | 64411 | ARAP3 |
| -0.3204633 | 0.05719918 | 0.085 | 1 | 79866 | C13orf34 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.25722459 | < 0.001 | 3786 | KCNQ3 |
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| -0.257521182 | < 0.001 | 80012 | PHC3 |
| -0.257540524 | < 0.001 | 8833 | GMPS |
| -0.257614434 | < 0.001 | 4331 | MNAT1 |
| -0.257634968 | < 0.001 | 4649 | MYO9A |
| -0.257705986 | < 0.001 | 23338 | PHF15 |
| -0.25803864 | < 0.001 | 54106 | TLR9 |
| -0.258122236 | < 0.001 | 55278 | QRSL1 |
| -0.258209318 | < 0.001 | 3068 | HDGF |
| -0.258223087 | < 0.001 | 401172 | CTD-2324F15.2 |
| -0.258224547 | < 0.001 | 170692 | ADAMTS18 |
| -0.258300245 | < 0.001 | 7412 | VCAM1 |
| -0.258333594 | < 0.001 | 6396 | SEC13 |
| -0.258356422 | < 0.001 | 644604 | EEF1A1P12 |
| -0.258693993 | < 0.001 | 8629 | JRK |
| -0.258791864 | < 0.001 | 4616 | GADD45B |
| -0.258813888 | < 0.001 | 80209 | C13orf23 |
| -0.258815646 | < 0.001 | 11030 | RBPMS |
| -0.258840531 | < 0.001 | 367 | AR |
| -0.258877218 | < 0.001 | 9960 | USP3 |
| -0.258952528 | < 0.001 | 344 | APOC2 |
| -0.2589688 | < 0.001 | 149134 | LOC149134 |
| -0.259049207 | < 0.001 | 114991 | ZNF618 |
| -0.259055525 | < 0.001 | 6468 | FBXW4 |
| -0.259062201 | < 0.001 | 84133 | ZNRF3 |
| -0.259104848 | < 0.001 | 286554 | BCORP1 |
| -0.259121448 | < 0.001 | 104 | ADARB1 |
| -0.259132802 | < 0.001 | 51480 | VCX2 |
| -0.25920096 | < 0.001 | 64761 | PARP12 |
| -0.259262532 | < 0.001 | 10449 | ACAA2 |
| -0.259263903 | < 0.001 | 7782 | SLC30A4 |
| -0.259306639 | < 0.001 | 85461 | TANC1 |
| -0.259469062 | < 0.001 | 55297 | CCDC91 |
| -0.259626567 | < 0.001 | 403313 | PPAPDC2 |
| -0.259688586 | < 0.001 | 23012 | STK38L |
| -0.259842575 | < 0.001 | 116535 | MRGPRF |
| -0.259889275 | < 0.001 | 1827 | RCAN1 |
| -0.259900331 | < 0.001 | 200894 | ARL13B |
| -0.260002375 | < 0.001 | 29893 | PSMC3IP |
| -0.260233819 | < 0.001 | 23462 | HEY1 |
| -0.260255069 | < 0.001 | 79785 | RERGL |
| -0.260295749 | < 0.001 | 285175 | C2orf21 |
| -0.260410249 | < 0.001 | 55679 | LIMS2 |
| -0.260429025 | < 0.001 | 92999 | ZBTB47 |
| -0.260441273 | < 0.001 | 2101 | ESRRA |
| -0.260660797 | < 0.001 | 5409 | PNMT |
| -0.2608248 | < 0.001 | 347730 | LRRTM1 |
| -0.26089251 | < 0.001 | 124565 | SLC38A10 |
| -0.26097247 | < 0.001 | 692099 | FAM86DP |
| -0.261129767 | < 0.001 | 2317 | FLNB |
| -0.261187911 | < 0.001 | 7832 | BTG2 |
| -0.261268348 | < 0.001 | 1044 | CDX1 |
| -0.261321932 | < 0.001 | 8932 | MBD2 |
| -0.261384428 | < 0.001 | 6909 | TBX2 |
| -0.261437625 | < 0.001 | 79190 | IRX6 |
| -0.261524737 | < 0.001 | 283417 | DPY19L2 |
| -0.26154536 | < 0.001 | 5153 | PDE1B |
| -0.261595786 | < 0.001 | 155038 | GIMAP8 |
| -0.261655957 | < 0.001 | 57822 | GRHL3 |
| -0.261805385 | < 0.001 | 2051 | EPHB6 |
| -0.261863321 | < 0.001 | 162963 | ZNF610 |
| -0.261909097 | < 0.001 | 403 | ARL3 |
| -0.261926562 | < 0.001 | 2825 | GPR1 |
| -0.261942178 | < 0.001 | 952 | CD38 |
| -0.261944771 | < 0.001 | 3074 | HEXB |
| -0.26194644 | < 0.001 | 11332 | ACOT7 |
| -0.261954337 | < 0.001 | 5327 | PLAT |
| -0.262092441 | < 0.001 | 148867 | SLC30A7 |
| -0.262131989 | < 0.001 | 64065 | PERP |
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| -0.262145162 | < 0.001 | 645191 | LINGO3 |
| -0.262148619 | < 0.001 | 4935 | GPR143 |
| -0.26218605 | < 0.001 | 89876 | C3orf15 |
| -0.262230426 | < 0.001 | 26338 | OR5L2 |
| -0.262267023 | < 0.001 | 5495 | PPM1B |
| -0.262277424 | < 0.001 | 973 | CD79A |
| -0.262528449 | < 0.001 | 64321 | SOX17 |
| -0.262529552 | < 0.001 | 134265 | AFAP1L1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.3204633 | 0.05719918 | 0.061 | 1 | 83416 | FCRL5 |
| -0.3204633 | 0.05719918 | 0.077 | 1 | 201780 | SLC10A4 |
| -0.3204633 | 0.05719918 | 0.086 | 1 | 254879 | OR2T6 |
| -0.3204633 | 0.05719918 | 0.074 | 1 | 400569 | MED11 |
| -0.3204633 | 0.05719918 | 0.074 | 1 | 401562 | LCNL1 |
| -0.3204633 | 0.05719918 | 0.08 | 1 | 441124 | LOC441124 |
| -0.320720732 | 0.056991216 | 0.078 | 1 | 4710 | NDUFB4 |
| -0.320720732 | 0.056991216 | 0.077 | 1 | 10866 | HCP5 |
| -0.320720732 | 0.056991216 | 0.062 | 1 | 57716 | PRX |
| -0.320720732 | 0.056991216 | 0.069 | 1 | 134466 | ZNF300P1 |
| -0.321235508 | 0.056577131 | 0.068 | 1 | 51295 | ECSIT |
| -0.321235508 | 0.056577131 | 0.084 | 1 | 84733 | CBX2 |
| -0.321235508 | 0.056577131 | 0.084 | 1 | 84795 | PYROXD2 |
| -0.321235508 | 0.056577131 | 0.069 | 1 | 84909 | C9orf3 |
| -0.32149291 | 0.056370981 | 0.063 | 1 | 5042 | PABPC3 |
| -0.32149291 | 0.056370981 | 0.07 | 1 | 5239 | PGM5 |
| -0.32149291 | 0.056370981 | 0.07 | 1 | 440689 | HIST2H2BF |
| -0.321750313 | 0.056165349 | 0.079 | 1 | 5276 | SERPINI2 |
| -0.321750313 | 0.056165349 | 0.081 | 1 | 5341 | PLEK |
| -0.321750313 | 0.056165349 | 0.085 | 1 | 26226 | FBXW4P1 |
| -0.321750313 | 0.056165349 | 0.055 | 1 | 149047 | RP11-183M13.1 |
| -0.322007746 | 0.055960406 | 0.078 | 1 | 54955 | C1orf109 |
| -0.322007746 | 0.055960406 | 0.082 | 1 | 79852 | EPHX3 |
| -0.322265118 | 0.055756092 | 0.075 | 1 | 9724 | UTP14C |
| -0.322265118 | 0.055756092 | 0.076 | 1 | 23429 | RYBP |
| -0.322265118 | 0.055756092 | 0.079 | 1 | 79742 | CXorf36 |
| -0.322522521 | 0.055552356 | 0.068 | 1 | 4357 | MPST |
| -0.322522521 | 0.055552356 | 0.077 | 1 | 92241 | RCSD1 |
| -0.322522521 | 0.055552356 | 0.078 | 1 | 221806 | VWDE |
| -0.322779924 | 0.055349123 | 0.066 | 1 | 5077 | PAX3 |
| -0.322779924 | 0.055349123 | 0.077 | 1 | 51205 | ACP6 |
| -0.323037326 | 0.055146586 | 0.09 | 1 | 1583 | CYP11A1 |
| -0.323037326 | 0.055146586 | 0.075 | 1 | 2004 | ELK3 |
| -0.323037326 | 0.055146586 | 0.077 | 1 | 5947 | RBP1 |
| -0.323037326 | 0.055146586 | 0.09 | 1 | 23519 | ANP32D |
| -0.323037326 | 0.055146586 | 0.08 | 1 | 100170765 | C19orf69 |
| -0.323294729 | 0.054944638 | 0.079 | 1 | 1003 | CDH5 |
| -0.323294729 | 0.054944638 | 0.07 | 1 | 1962 | EHHADH |
| -0.323294729 | 0.054944638 | 0.09 | 1 | 9420 | CYP7B1 |
| -0.323552132 | 0.054743312 | 0.077 | 1 | 4143 | MAT1A |
| -0.323552132 | 0.054743312 | 0.076 | 1 | 84957 | RELT |
| -0.323809505 | 0.054542467 | 0.074 | 1 | 23474 | ETHE1 |
| -0.323809505 | 0.054542467 | 0.08 | 1 | 57539 | WDR35 |
| -0.324066937 | 0.054342303 | 0.088 | 1 | 5956 | OPN1LW |
| -0.324066937 | 0.054342303 | 0.069 | 1 | 9600 | PITPNM1 |
| -0.324066937 | 0.054342303 | 0.081 | 1 | 197259 | MLKL |
| -0.32432431 | 0.054142732 | 0.077 | 1 | 6424 | SFRP4 |
| -0.32432431 | 0.054142732 | 0.078 | 1 | 10385 | BTN2A2 |
| -0.32432431 | 0.054142732 | 0.074 | 1 | 116159 | CYYR1 |
| -0.324581742 | 0.053943753 | 0.067 | 1 | 2624 | GATA2 |
| -0.324581742 | 0.053943753 | 0.073 | 1 | 26123 | TCTN3 |
| -0.324839115 | 0.053745385 | 0.075 | 1 | 1135 | CHRNA2 |
| -0.324839115 | 0.053745385 | 0.061 | 1 | 8334 | HIST1H2AC |
| -0.324839115 | 0.053745385 | 0.078 | 1 | 51429 | SNX9 |
| -0.324839115 | 0.053745385 | 0.084 | 1 | 57624 | KIAA1486 |
| -0.324839115 | 0.053745385 | 0.066 | 1 | 157638 | FAM84B |
| -0.324839115 | 0.053745385 | 0.081 | 1 | 169714 | QSOX2 |
| -0.325096518 | 0.053547494 | 0.083 | 1 | 4958 | OMD |
| -0.325096518 | 0.053547494 | 0.07 | 1 | 391712 | TRIM61 |
| -0.32535392 | 0.053350281 | 0.069 | 1 | 8353 | HIST1H3E |
| -0.32535392 | 0.053350281 | 0.071 | 1 | 92840 | REEP6 |
| -0.325611323 | 0.053153649 | 0.078 | 1 | 2298 | FOXD4 |
| -0.325611323 | 0.053153649 | 0.07 | 1 | 57615 | ZNF492 |
| -0.325868726 | 0.052957606 | 0.081 | 1 | 1198 | CLK3 |
| -0.325868726 | 0.052957606 | 0.076 | 1 | 132430 | PABPC4L |
| -0.325868726 | 0.052957606 | 0.071 | 1 | 257236 | CCDC96 |
| -0.326126128 | 0.05276208 | 0.083 | 1 | 84679 | SLC9A7 |
| -0.326383501 | 0.052567199 | 0.076 | 1 | 1506 | CTRL |
| -0.326383501 | 0.052567199 | 0.063 | 1 | 9923 | ZBTB40 |
| -0.326383501 | 0.052567199 | 0.068 | 1 | 9980 | DOPEY2 |
| -0.326898307 | 0.052179184 | 0.069 | 1 | 5837 | PYGM |
| -0.326898307 | 0.052179184 | 0.084 | 1 | 84293 | C10orf57 |
| -0.326898307 | 0.052179184 | 0.069 | 1 | 259285 | TAS2R39 |
| -0.326898307 | 0.052179184 | 0.074 | 1 | 284207 | METRNL |
| -0.326898307 | 0.052179184 | 0.071 | 1 | 326340 | ZAR1 |
| -0.327155739 | 0.05198596 | 0.063 | 1 | 7757 | ZNF208 |
| -0.327155739 | 0.05198596 | 0.074 | 1 | 23341 | DNAJC16 |
| -0.327155739 | 0.05198596 | 0.064 | 1 | 643669 | LOC643669 |
| -0.327155739 | 0.05198596 | 0.067 | 1 | 727701 | LINC00165 |

| voxel-wise, subcortex | | | |
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| -0.262683898 | < 0.001 | 114882 | OSBPL8 |
| -0.262687236 | < 0.001 | 7593 | MZF1 |
| -0.262731254 | < 0.001 | 440459 | LOC440459 |
| -0.263263851 | < 0.001 | 55693 | KDM4D |
| -0.263300985 | < 0.001 | 23178 | PASK |
| -0.263307959 | < 0.001 | 84196 | USP48 |
| -0.263466835 | < 0.001 | 29766 | TMOD3 |
| -0.263473988 | < 0.001 | 116984 | ARAP2 |
| -0.263505101 | < 0.001 | 27079 | RPUSD2 |
| -0.2636002 | < 0.001 | 84073 | MYCBPAP |
| -0.263632417 | < 0.001 | 84266 | ALKBH7 |
| -0.26364997 | < 0.001 | 64123 | ELTD1 |
| -0.263714701 | < 0.001 | 81611 | ANP32E |
| -0.263736427 | < 0.001 | 23261 | CAMTA1 |
| -0.263813525 | < 0.001 | 387328 | ZNF322P1 |
| -0.263818532 | < 0.001 | 57552 | AADACL1 |
| -0.263878256 | < 0.001 | 171425 | CLYBL |
| -0.263887614 | < 0.001 | 1775 | DNASE1L2 |
| -0.263928682 | < 0.001 | 441208 | ZNRF2P1 |
| -0.263972223 | < 0.001 | 7633 | ZNF79 |
| -0.264214218 | < 0.001 | 56941 | C3orf37 |
| -0.264220923 | < 0.001 | 2916 | GRM6 |
| -0.264358819 | < 0.001 | 8490 | RP11-267N12.3 |
| -0.264380097 | < 0.001 | 6625 | SNRNP70 |
| -0.26438418 | < 0.001 | 9576 | SPAG6 |
| -0.26439476 | < 0.001 | 3782 | KCNN3 |
| -0.264452249 | < 0.001 | 4522 | MTHFD1 |
| -0.264519483 | < 0.001 | 440603 | BCL2L15 |
| -0.264621258 | < 0.001 | 83550 | GPR101 |
| -0.264751732 | < 0.001 | 54886 | PPAPR3 |
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| -0.264873207 | < 0.001 | 9499 | MYOT |
| -0.26489234 | < 0.001 | 6913 | TBX15 |
| -0.264938772 | < 0.001 | 5781 | PTPN11 |
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| -0.264977217 | < 0.001 | 90204 | ZSWIM1 |
| -0.264982432 | < 0.001 | 55552 | ZNF823 |
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| -0.26508233 | < 0.001 | 4144 | MAT2A |
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| -0.265753776 | < 0.001 | 201562 | PTPLB |
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| -0.266180843 | < 0.001 | 2037 | EPB41L2 |
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| -0.267050356 | < 0.001 | 94 | ACVRL1 |
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| -0.267053872 | < 0.001 | 9031 | BAZ1B |
| -0.267077655 | < 0.001 | 83538 | TTC25 |
| -0.267160952 | < 0.001 | 90025 | UBE2CBP |
| -0.267258197 | < 0.001 | 79842 | ZBTB3 |
| -0.26737985 | < 0.001 | 115265 | DDIT4L |
| -0.267438352 | < 0.001 | 5681 | PSKH1 |
| -0.267512828 | < 0.001 | 30819 | KCNIP2 |
| -0.267599016 | < 0.001 | 30820 | KCNIP1 |
| -0.267613113 | < 0.001 | 93343 | FAM125A |
| -0.267632633 | < 0.001 | 6424 | SFRP4 |
| -0.267689824 | < 0.001 | 84107 | ZIC4 |
| -0.267733306 | < 0.001 | 5919 | RARRES2 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.327413112 | 0.051793419 | 0.082 | 1 | 3068 | HDGF |
| -0.327413112 | 0.051793419 | 0.07 | 1 | 10451 | VAV3 |
| -0.327413112 | 0.051793419 | 0.068 | 1 | 85508 | SCRT2 |
| -0.327413112 | 0.051793419 | 0.076 | 1 | 387264 | KRTAP5-1 |
| -0.327670515 | 0.051601432 | 0.098 | 1 | 7412 | VCAM1 |
| -0.327927917 | 0.051410023 | 0.065 | 1 | 1187 | CLCNKA |
| -0.327927917 | 0.051410023 | 0.068 | 1 | 2801 | GOLGA2 |
| -0.327927917 | 0.051410023 | 0.081 | 1 | 25961 | NUDT13 |
| -0.327927917 | 0.051410023 | 0.066 | 1 | 147525 | LINC00526 |
| -0.327927917 | 0.051410023 | 0.083 | 1 | 163183 | C19orf46 |
| -0.327927917 | 0.051410023 | 0.058 | 1 | 203286 | ANKS6 |
| -0.32818532 | 0.051219184 | 0.05 | 1 | 4160 | MC4R |
| -0.32818532 | 0.051219184 | 0.069 | 1 | 7050 | TGIF1 |
| -0.32818532 | 0.051219184 | 0.074 | 1 | 7920 | BAT5 |
| -0.32818532 | 0.051219184 | 0.067 | 1 | 79642 | ARSJ |
| -0.32818532 | 0.051219184 | 0.08 | 1 | 100287822 | SETP10 |
| -0.328442723 | 0.051028855 | 0.065 | 1 | 1108 | CHD4 |
| -0.328700125 | 0.050839163 | 0.064 | 1 | 83758 | RBP5 |
| -0.328700125 | 0.050839163 | 0.07 | 1 | 196549 | EEF1DP3 |
| -0.328957528 | 0.050650042 | 0.056 | 1 | 2879 | GPX4 |
| -0.328957528 | 0.050650042 | 0.054 | 1 | 5826 | ABCD4 |
| -0.328957528 | 0.050650042 | 0.082 | 1 | 9794 | MAML1 |
| -0.328957528 | 0.050650042 | 0.077 | 1 | 64167 | ERAP2 |
| -0.328957528 | 0.050650042 | 0.061 | 1 | 80199 | FUZ |
| -0.328957528 | 0.050650042 | 0.081 | 1 | 81532 | MOB2 |
| -0.329214931 | 0.05046149 | 0.075 | 1 | 27252 | KLHL20 |
| -0.329214931 | 0.05046149 | 0.072 | 1 | 29128 | UHRF1 |
| -0.329214931 | 0.05046149 | 0.076 | 1 | 64224 | HERPUD2 |
| -0.329214931 | 0.05046149 | 0.071 | 1 | 158511 | CSAG1 |
| -0.329214931 | 0.05046149 | 0.071 | 1 | 400931 | RP4-695O20__B.1 |
| -0.329472333 | 0.050273418 | 0.064 | 1 | 4722 | NDUFS3 |
| -0.329472333 | 0.050273418 | 0.066 | 1 | 7021 | TFAP2B |
| -0.329729736 | 0.050086025 | 0.077 | 1 | 1910 | EDNRB |
| -0.329729736 | 0.050086025 | 0.071 | 1 | 79230 | ZNF557 |
| -0.329987139 | 0.049899168 | 0.077 | 1 | 51107 | APH1A |
| -0.329987139 | 0.049899168 | 0.067 | 1 | 152687 | ZNF595 |
| -0.329987139 | 0.049899168 | 0.079 | 1 | 254228 | FAM26E |
| -0.329987139 | 0.049899168 | 0.067 | 1 | 389125 | MUSTN1 |
| -0.329987139 | 0.049899168 | 0.077 | 1 | 647219 | ASCL5 |
| -0.330244511 | 0.049712881 | 0.073 | 1 | 5351 | PLOD1 |
| -0.330244511 | 0.049712881 | 0.068 | 1 | 7356 | SCGB1A1 |
| -0.330244511 | 0.049712881 | 0.069 | 1 | 55761 | TTC17 |
| -0.330244511 | 0.049712881 | 0.051 | 1 | 64106 | NPFFR1 |
| -0.330501944 | 0.049527071 | 0.065 | 1 | 3549 | IHH |
| -0.330501944 | 0.049527071 | 0.072 | 1 | 5024 | P2RX3 |
| -0.330501944 | 0.049527071 | 0.076 | 1 | 11059 | WWP1 |
| -0.330501944 | 0.049527071 | 0.079 | 1 | 55080 | TAPBPL |
| -0.330501944 | 0.049527071 | 0.055 | 1 | 55871 | CBWD1 |
| -0.330501944 | 0.049527071 | 0.07 | 1 | 221395 | GPR116 |
| -0.330759317 | 0.04934191 | 0.059 | 1 | 11004 | KIF2C |
| -0.330759317 | 0.04934191 | 0.074 | 1 | 129563 | DIS3L2 |
| -0.331016749 | 0.049157325 | 0.07 | 1 | 151534 | LBX2-AS1 |
| -0.331016749 | 0.049157325 | 0.085 | 1 | 350383 | GPR142 |
| -0.331016749 | 0.049157325 | 0.075 | 1 | 729501 | ZNF962P |
| -0.331274122 | 0.048973285 | 0.067 | 1 | 3965 | LGALS9 |
| -0.331274122 | 0.048973285 | 0.064 | 1 | 26504 | CNNM4 |
| -0.331531525 | 0.048789795 | 0.054 | 1 | 10147 | SFRS14 |
| -0.331531525 | 0.048789795 | 0.083 | 1 | 57552 | AADACL1 |
| -0.331531525 | 0.048789795 | 0.066 | 1 | 441519 | CT45A3 |
| -0.331788927 | 0.048606791 | 0.075 | 1 | 1192 | CLIC1 |
| -0.331788927 | 0.048606791 | 0.055 | 1 | 7327 | UBE2G2 |
| -0.331788927 | 0.048606791 | 0.067 | 1 | 10615 | SPAG5 |
| -0.331788927 | 0.048606791 | 0.058 | 1 | 147658 | ZNF534 |
| -0.33204633 | 0.048424415 | 0.071 | 1 | 5174 | PDZK1 |
| -0.33204633 | 0.048424415 | 0.062 | 1 | 84171 | LOXL4 |
| -0.33204633 | 0.048424415 | 0.066 | 1 | 91607 | SLFN11 |
| -0.332303733 | 0.048242621 | 0.059 | 1 | 23261 | CAMTA1 |
| -0.332561135 | 0.04806136 | 0.062 | 1 | 8651 | SOCS1 |
| -0.332561135 | 0.04806136 | 0.07 | 1 | 340596 | LHFPL1 |
| -0.332818508 | 0.047880568 | 0.071 | 1 | 23059 | CLUAP1 |
| -0.332818508 | 0.047880568 | 0.078 | 1 | 80746 | TSEN2 |
| -0.332818508 | 0.047880568 | 0.059 | 1 | 285555 | C4orf37 |
| -0.332818508 | 0.047880568 | 0.062 | 1 | 346288 | SEPTIN14 |
| -0.332818508 | 0.047880568 | 0.065 | 1 | 386680 | KRTAP10-5 |
| -0.333075941 | 0.047700409 | 0.077 | 1 | 2176 | FANCC |
| -0.333075941 | 0.047700409 | 0.078 | 1 | 9546 | APBA3 |
| -0.333075941 | 0.047700409 | 0.081 | 1 | 100133036 | FAM95B1 |
| -0.333333313 | 0.047520798 | 0.084 | 1 | 6397 | SEC14L1 |
| -0.333333313 | 0.047520798 | 0.076 | 1 | 55245 | UQCC |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.267742038 | < 0.001 | 5142 | PDE4B |
| -0.267753631 | < 0.001 | 56052 | ALG1 |
| -0.267773688 | < 0.001 | 389151 | AC130416.1 |
| -0.267807215 | < 0.001 | 2259 | FGF14 |
| -0.2678518 | < 0.001 | 58515 | RP11-884K10.1 |
| -0.267943919 | < 0.001 | 1612 | DAPK1 |
| -0.268102348 | < 0.001 | 50618 | ITSN2 |
| -0.268188536 | < 0.001 | 147184 | TMEM99 |
| -0.268414199 | < 0.001 | 389289 | ANXA2R |
| -0.268495262 | < 0.001 | 9270 | ITGB1BP1 |
| -0.268502772 | < 0.001 | 93058 | COQ10A |
| -0.268601954 | < 0.001 | 9744 | ACAP1 |
| -0.26876086 | < 0.001 | 100189589 | AC005041.9 |
| -0.268778592 | < 0.001 | 64423 | INF2 |
| -0.268924296 | < 0.001 | 1633 | DCK |
| -0.268951595 | < 0.001 | 723790 | HIST2H2AA4 |
| -0.268961459 | < 0.001 | 1788 | DNMT3A |
| -0.268967867 | < 0.001 | 8701 | DNAH11 |
| -0.268989503 | < 0.001 | 442524 | AC007276.5 |
| -0.269091547 | < 0.001 | 55080 | TAPBPL |
| -0.269331157 | < 0.001 | 27146 | FAM184B |
| -0.269392818 | < 0.001 | 19 | ABCA1 |
| -0.269413412 | < 0.001 | 668 | FOXL2 |
| -0.269502193 | < 0.001 | 2072 | ERCC4 |
| -0.269526362 | < 0.001 | 113763 | C7orf29 |
| -0.269547909 | < 0.001 | 401131 | LOC401131 |
| -0.269633323 | < 0.001 | 200916 | RPL22L1 |
| -0.269858062 | < 0.001 | 727764 | MAFIP |
| -0.269911736 | < 0.001 | 81839 | VANGL1 |
| -0.270047694 | < 0.001 | 253827 | MSRB3 |
| -0.270246536 | < 0.001 | 84688 | C9orf24 |
| -0.270287097 | < 0.001 | 10008 | KCNE3 |
| -0.270482421 | < 0.001 | 163747 | C1orf177 |
| -0.270498484 | < 0.001 | 23474 | ETHE1 |
| -0.270502746 | < 0.001 | 30835 | CD209 |
| -0.270621061 | < 0.001 | 9616 | RNF7 |
| -0.270629495 | < 0.001 | 23765 | IL17RA |
| -0.270636111 | < 0.001 | 2268 | FGR |
| -0.270649016 | < 0.001 | 7062 | TCHH |
| -0.270655125 | < 0.001 | 231 | AKR1B1 |
| -0.270685136 | < 0.001 | 54830 | NUP62CL |
| -0.27073139 | < 0.001 | 929 | CD14 |
| -0.270933837 | < 0.001 | 50859 | SPOCK3 |
| -0.270955563 | < 0.001 | 645784 | ANKRD36BP2 |
| -0.271004766 | < 0.001 | 1915 | EEF1A1 |
| -0.271009147 | < 0.001 | 56204 | KIAA1370 |
| -0.271025777 | < 0.001 | 284058 | KIAA1267 |
| -0.271113902 | < 0.001 | 114327 | EFHC1 |
| -0.271190047 | < 0.001 | 23322 | RPGRIP1L |
| -0.271199793 | < 0.001 | 1152 | CKB |
| -0.271353573 | < 0.001 | 399967 | PATE2 |
| -0.271460474 | < 0.001 | 8408 | ULK1 |
| -0.271532267 | < 0.001 | 158511 | CSAG1 |
| -0.271533281 | < 0.001 | 55159 | RFWD3 |
| -0.271567553 | < 0.001 | 2817 | GPC1 |
| -0.271572918 | < 0.001 | 286676 | ILDR1 |
| -0.271746218 | < 0.001 | 728957 | ZNF705C |
| -0.27175504 | < 0.001 | 57018 | CCNL1 |
| -0.271825612 | < 0.001 | 8942 | KYNU |
| -0.271968365 | < 0.001 | 56155 | TEX14 |
| -0.271979392 | < 0.001 | 5241 | PGR |
| -0.272065312 | < 0.001 | 139411 | PTCHD1 |
| -0.27217108 | < 0.001 | 9022 | CLIC3 |
| -0.272215366 | < 0.001 | 9204 | ZMYM6 |
| -0.272223085 | < 0.001 | 1728 | NQO1 |
| -0.272288084 | < 0.001 | 57569 | ARHGAP20 |
| -0.272300452 | < 0.001 | 3268 | AGFG2 |
| -0.272344649 | < 0.001 | 55275 | VPS53 |
| -0.272496194 | < 0.001 | 8638 | OASL |
| -0.27252081 | < 0.001 | 128602 | C20orf85 |
| -0.272551745 | < 0.001 | 26136 | TES |
| -0.272561967 | < 0.001 | 647589 | AC226150.1 |
| -0.272715271 | < 0.001 | 125336 | LOXHD1 |
| -0.272808313 | < 0.001 | 2878 | GPX3 |
| -0.272812307 | < 0.001 | 133 | ADM |
| -0.272900909 | < 0.001 | 9021 | SOCS3 |
| -0.272909075 | < 0.001 | 55808 | ST6GALNAC1 |
| -0.272919029 | < 0.001 | 50507 | NOX4 |
| -0.27308926 | < 0.001 | 285888 | CNPY1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.333333313 | 0.047520798 | 0.07 | 1 | 63929 | XPNPEP3 |
| -0.333333313 | 0.047520798 | 0.054 | 1 | 144100 | PLEKHA7 |
| -0.333590746 | 0.047341757 | 0.07 | 1 | 54708 | MARCHF5 |
| -0.333590746 | 0.047341757 | 0.059 | 1 | 55857 | PLK1S1 |
| -0.333848119 | 0.04716317 | 0.065 | 1 | 8899 | PRPF4B |
| -0.333848119 | 0.04716317 | 0.063 | 1 | 23607 | CD2AP |
| -0.334105521 | 0.046985202 | 0.061 | 1 | 133 | ADM |
| -0.334362924 | 0.046807781 | 0.054 | 1 | 51755 | CRKRS |
| -0.334362924 | 0.046807781 | 0.07 | 1 | 158800 | RHOXF1 |
| -0.334620327 | 0.046630908 | 0.071 | 1 | 257 | ALX3 |
| -0.334620327 | 0.046630908 | 0.05 | 1 | 22937 | SCAP |
| -0.334620327 | 0.046630908 | 0.056 | 1 | 57161 | PELI2 |
| -0.334620327 | 0.046630908 | 0.054 | 1 | 644006 | LOC644006 |
| -0.334877729 | 0.046454594 | 0.061 | 1 | 7579 | ZSCAN20 |
| -0.334877729 | 0.046454594 | 0.068 | 1 | 10873 | ME3 |
| -0.334877729 | 0.046454594 | 0.064 | 1 | 57018 | CCNL1 |
| -0.335135132 | 0.046278726 | 0.061 | 1 | 5913 | RAPSN |
| -0.335135132 | 0.046278726 | 0.068 | 1 | 7562 | ZNF708 |
| -0.335135132 | 0.046278726 | 0.063 | 1 | 22915 | MMRN1 |
| -0.335135132 | 0.046278726 | 0.062 | 1 | 53632 | PRKAG3 |
| -0.335135132 | 0.046278726 | 0.067 | 1 | 128344 | C1orf88 |
| -0.335392505 | 0.046103474 | 0.053 | 1 | 7110 | TMF1 |
| -0.335392505 | 0.046103474 | 0.082 | 1 | 114826 | SMYD4 |
| -0.335392505 | 0.046103474 | 0.064 | 1 | 285613 | RELL2 |
| -0.335649937 | 0.045928765 | 0.078 | 1 | 2687 | GGT5 |
| -0.335649937 | 0.045928765 | 0.062 | 1 | 4991 | OR1D2 |
| -0.335649937 | 0.045928765 | 0.071 | 1 | 5966 | REL |
| -0.335649937 | 0.045928765 | 0.068 | 1 | 7768 | ZNF225 |
| -0.335649937 | 0.045928765 | 0.072 | 1 | 55362 | TMEM63B |
| -0.335649937 | 0.045928765 | 0.069 | 1 | 84284 | NTPCR |
| -0.335649937 | 0.045928765 | 0.054 | 1 | 84444 | DOT1L |
| -0.335649937 | 0.045928765 | 0.061 | 1 | 283869 | NPW |
| -0.33590734 | 0.045754611 | 0.064 | 1 | 29091 | STXBP6 |
| -0.33590734 | 0.045754611 | 0.068 | 1 | 730110 | LOC730110 |
| -0.336164743 | 0.045580897 | 0.05 | 1 | 55303 | GIMAP4 |
| -0.336164743 | 0.045580897 | 0.055 | 1 | 57589 | KIAA1432 |
| -0.336164743 | 0.045580897 | 0.057 | 1 | 80778 | ZNF34 |
| -0.336164743 | 0.045580897 | 0.063 | 1 | 116966 | WDR17 |
| -0.336164743 | 0.045580897 | 0.058 | 1 | 161198 | CLEC14A |
| -0.336164743 | 0.045580897 | 0.063 | 1 | 388550 | CEACAM22P |
| -0.336164743 | 0.045580897 | 0.068 | 1 | 388799 | C20orf107 |
| -0.336422145 | 0.045407802 | 0.065 | 1 | 28960 | DCPS |
| -0.336422145 | 0.045407802 | 0.055 | 1 | 79770 | TXNDC15 |
| -0.336679518 | 0.045235235 | 0.061 | 1 | 920 | CD4 |
| -0.336679518 | 0.045235235 | 0.073 | 1 | 1601 | DAB2 |
| -0.336679518 | 0.045235235 | 0.072 | 1 | 9021 | SOCS3 |
| -0.336679518 | 0.045235235 | 0.058 | 1 | 55182 | RNF220 |
| -0.336936951 | 0.045063205 | 0.071 | 1 | 835 | CASP2 |
| -0.337194324 | 0.044891726 | 0.06 | 1 | 5004 | ORM1 |
| -0.337194324 | 0.044891726 | 0.074 | 1 | 8853 | ASAP2 |
| -0.337451756 | 0.044720683 | 0.066 | 1 | 367 | AR |
| -0.337451756 | 0.044720683 | 0.066 | 1 | 26155 | NOC2L |
| -0.337709129 | 0.044550251 | 0.051 | 1 | 828 | CAPS |
| -0.337709129 | 0.044550251 | 0.069 | 1 | 7455 | ZAN |
| -0.337709129 | 0.044550251 | 0.045 | 1 | 23511 | NUP188 |
| -0.337709129 | 0.044550251 | 0.061 | 1 | 79694 | MANEA |
| -0.337966532 | 0.044380344 | 0.057 | 1 | 1302 | COL11A2 |
| -0.337966532 | 0.044380344 | 0.061 | 1 | 284004 | HEXDC |
| -0.337966532 | 0.044380344 | 0.069 | 1 | 340602 | CXorf67 |
| -0.338223934 | 0.044210982 | 0.056 | 1 | 3543 | IGLL1 |
| -0.338223934 | 0.044210982 | 0.063 | 1 | 5797 | PTPRM |
| -0.338223934 | 0.044210982 | 0.051 | 1 | 7764 | ZNF217 |
| -0.338223934 | 0.044210982 | 0.059 | 1 | 10610 | ST6GALNAC2 |
| -0.338223934 | 0.044210982 | 0.063 | 1 | 23456 | ABCB10 |
| -0.338223934 | 0.044210982 | 0.064 | 1 | 55567 | DNAH3 |
| -0.338223934 | 0.044210982 | 0.063 | 1 | 79864 | C11orf63 |
| -0.338223934 | 0.044210982 | 0.052 | 1 | 80219 | COQ10B |
| -0.338223934 | 0.044210982 | 0.057 | 1 | 91107 | TRIM47 |
| -0.338481337 | 0.044042055 | 0.045 | 1 | 5208 | PFKFB2 |
| -0.338481337 | 0.044042055 | 0.043 | 1 | 5598 | MAPK7 |
| -0.338481337 | 0.044042055 | 0.069 | 1 | 8874 | ARHGEF7 |
| -0.338481337 | 0.044042055 | 0.05 | 1 | 23505 | TMEM131 |
| -0.338481337 | 0.044042055 | 0.075 | 1 | 113829 | SLC35A4 |
| -0.338481337 | 0.044042055 | 0.058 | 1 | 149840 | C20orf196 |
| -0.338738739 | 0.043873727 | 0.06 | 1 | 3145 | HMBS |
| -0.338738739 | 0.043873727 | 0.058 | 1 | 10891 | PPARGC1A |
| -0.338738739 | 0.043873727 | 0.069 | 1 | 27436 | EML4 |
| -0.338738739 | 0.043873727 | 0.065 | 1 | 83707 | TRPT1 |
| -0.338738739 | 0.043873727 | 0.057 | 1 | 140432 | RNF113B |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.273094714 | < 0.001 | 285555 | C4orf37 |
| -0.273117304 | < 0.001 | 55323 | LARP6 |
| -0.273385108 | < 0.001 | 10474 | TADA3L |
| -0.273603618 | < 0.001 | 64342 | HS1BP3 |
| -0.273752868 | < 0.001 | 8209 | C21orf33 |
| -0.27378872 | < 0.001 | 26099 | C1orf144 |
| -0.273846477 | < 0.001 | 29946 | SERTAD3 |
| -0.273855299 | < 0.001 | 81554 | WBSCR16 |
| -0.273984939 | < 0.001 | 30834 | ZNRD1 |
| -0.274008632 | < 0.001 | 800 | CALD1 |
| -0.274025708 | < 0.001 | 92610 | TIFA |
| -0.274082899 | < 0.001 | 8906 | AP1G2 |
| -0.2742199 | < 0.001 | 641649 | TMEM91 |
| -0.274248391 | < 0.001 | 3439 | IFNA1 |
| -0.274319351 | < 0.001 | 6829 | SUPT5H |
| -0.274331808 | < 0.001 | 2787 | GNG5 |
| -0.274633884 | < 0.001 | 3075 | CFH |
| -0.274687737 | < 0.001 | 1968 | EIF2S3 |
| -0.274693787 | < 0.001 | 26610 | ELP4 |
| -0.274695635 | < 0.001 | 7122 | CLDN5 |
| -0.27470836 | < 0.001 | 123096 | SLC25A29 |
| -0.274717182 | < 0.001 | 6887 | TAL2 |
| -0.274810433 | < 0.001 | 57554 | LRRC7 |
| -0.274842173 | < 0.001 | 87769 | A2LD1 |
| -0.27499783 | < 0.001 | 9936 | CD302 |
| -0.275053561 | < 0.001 | 317754 | POTED |
| -0.275107145 | < 0.001 | 729648 | ZNF812 |
| -0.275231123 | < 0.001 | 126859 | C1orf125 |
| -0.27523315 | < 0.001 | 152206 | CCDC13 |
| -0.275474429 | < 0.001 | 23640 | HSPBP1 |
| -0.27559644 | < 0.001 | 4086 | SMAD1 |
| -0.275638133 | < 0.001 | 8553 | BHLHE40 |
| -0.275703698 | < 0.001 | 22828 | RBM16 |
| -0.275753945 | < 0.001 | 10681 | GNB5 |
| -0.275856376 | < 0.001 | 84858 | ZNF503 |
| -0.275915354 | < 0.001 | 5366 | PMAIP1 |
| -0.275989443 | < 0.001 | 55055 | ZWILCH |
| -0.276131719 | < 0.001 | 79671 | NLRX1 |
| -0.276146859 | < 0.001 | 7402 | UTRN |
| -0.276245475 | < 0.001 | 22889 | KIAA0907 |
| -0.276255786 | < 0.001 | 256364 | EML3 |
| -0.276456952 | < 0.001 | 54433 | GAR1 |
| -0.276602089 | < 0.001 | 2784 | GNB3 |
| -0.276666075 | < 0.001 | 51690 | LSM7 |
| -0.276700348 | < 0.001 | 22984 | PDCD11 |
| -0.276792467 | < 0.001 | 147660 | ZNF578 |
| -0.276797116 | < 0.001 | 79696 | FAM164C |
| -0.276884228 | < 0.001 | 23315 | SLC9A8 |
| -0.276964456 | < 0.001 | 7866 | IFRD2 |
| -0.277047932 | < 0.001 | 84867 | PTPN5 |
| -0.277083963 | < 0.001 | 3321 | IGSF3 |
| -0.277106255 | < 0.001 | 283212 | KLHL35 |
| -0.277156413 | < 0.001 | 92815 | HIST3H2A |
| -0.277300626 | < 0.001 | 2176 | FANCC |
| -0.277316779 | < 0.001 | 5433 | POLR2D |
| -0.277359784 | < 0.001 | 10847 | SRCAP |
| -0.277440578 | < 0.001 | 1192 | CLIC1 |
| -0.277443171 | < 0.001 | 100132733 | ANKRD20A13P |
| -0.277522385 | < 0.001 | 388152 | AC103965.1 |
| -0.277609974 | < 0.001 | 83714 | NRIP2 |
| -0.277634561 | < 0.001 | 196294 | IMMP1L |
| -0.27764219 | < 0.001 | 57658 | CALCOCO1 |
| -0.277700692 | < 0.001 | 283596 | SNHG10 |
| -0.277728468 | < 0.001 | 399900 | LOC399900 |
| -0.277909189 | < 0.001 | 650623 | LOC650623 |
| -0.277935088 | < 0.001 | 643827 | LOC643827 |
| -0.27805841 | < 0.001 | 6095 | RORA |
| -0.278128058 | < 0.001 | 53405 | CLIC5 |
| -0.278198093 | < 0.001 | 22979 | EFR3B |
| -0.278401554 | < 0.001 | 2316 | FLNA |
| -0.278443813 | < 0.001 | 51277 | DNAJC27 |
| -0.278465271 | < 0.001 | 4807 | NHLH1 |
| -0.278550684 | < 0.001 | 56165 | TDRD1 |
| -0.278723806 | < 0.001 | 341880 | SLC35F4 |
| -0.278724909 | < 0.001 | 10179 | AP002373.1 |
| -0.278779238 | < 0.001 | 60482 | SLC5A7 |
| -0.278871357 | < 0.001 | 645715 | EEF1A1P24 |
| -0.278892726 | < 0.001 | 344593 | LOC344593 |
| -0.278909057 | < 0.001 | 1392 | CRH |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.338996142 | 0.043705929 | 0.069 | 1 | 790 | CAD |
| -0.338996142 | 0.043705929 | 0.055 | 1 | 9772 | KIAA0195 |
| -0.338996142 | 0.043705929 | 0.067 | 1 | 84283 | TMEM79 |
| -0.339253515 | 0.043538649 | 0.062 | 1 | 2 | A2M |
| -0.339253515 | 0.043538649 | 0.059 | 1 | 3850 | KRT3 |
| -0.339253515 | 0.043538649 | 0.056 | 1 | 7004 | TEAD4 |
| -0.339253515 | 0.043538649 | 0.069 | 1 | 283860 | LINC00304 |
| -0.339510947 | 0.043371815 | 0.055 | 1 | 8209 | C21orf33 |
| -0.33976832 | 0.043205597 | 0.072 | 1 | 1690 | COCH |
| -0.33976832 | 0.043205597 | 0.054 | 1 | 54538 | ROBO4 |
| -0.33976832 | 0.043205597 | 0.074 | 1 | 79887 | PLBD1 |
| -0.33976832 | 0.043205597 | 0.054 | 1 | 84287 | ZDHHC16 |
| -0.340283126 | 0.042874705 | 0.065 | 1 | 1513 | CTSK |
| -0.340283126 | 0.042874705 | 0.058 | 1 | 54925 | ZNF434 |
| -0.340283126 | 0.042874705 | 0.057 | 1 | 64170 | CARD9 |
| -0.340540528 | 0.042710006 | 0.058 | 1 | 4038 | LRP4 |
| -0.340797931 | 0.042545784 | 0.051 | 1 | 929 | CD14 |
| -0.340797931 | 0.042545784 | 0.069 | 1 | 63897 | HEATR6 |
| -0.340797931 | 0.042545784 | 0.072 | 1 | 93099 | DMKN |
| -0.341055334 | 0.042382136 | 0.065 | 1 | 7122 | CLDN5 |
| -0.341055334 | 0.042382136 | 0.064 | 1 | 7639 | ZNF85 |
| -0.341055334 | 0.042382136 | 0.062 | 1 | 8692 | HYAL2 |
| -0.341055334 | 0.042382136 | 0.073 | 1 | 10625 | IVNS1ABP |
| -0.341055334 | 0.042382136 | 0.052 | 1 | 56165 | TDRD1 |
| -0.341055334 | 0.042382136 | 0.056 | 1 | 401321 | LOC401321 |
| -0.341312736 | 0.042219002 | 0.066 | 1 | 9861 | PSMD6 |
| -0.341312736 | 0.042219002 | 0.047 | 1 | 11319 | ECD |
| -0.341312736 | 0.042219002 | 0.057 | 1 | 26025 | PCDHGA12 |
| -0.341570139 | 0.042056397 | 0.059 | 1 | 5531 | PPP4C |
| -0.341570139 | 0.042056397 | 0.062 | 1 | 8702 | B4GALT4 |
| -0.342084944 | 0.041732617 | 0.062 | 1 | 7072 | TIA1 |
| -0.342084944 | 0.041732617 | 0.053 | 1 | 221091 | LRRN4CL |
| -0.342084944 | 0.041732617 | 0.063 | 1 | 283579 | C14orf178 |
| -0.342084944 | 0.041732617 | 0.046 | 1 | 723961 | INS-IGF2 |
| -0.342084944 | 0.041732617 | 0.069 | 1 | 100289143 | LOC100289143 |
| -0.342342317 | 0.041571528 | 0.07 | 1 | 6695 | SPOCK1 |
| -0.342342317 | 0.041571528 | 0.055 | 1 | 55332 | DRAM1 |
| -0.342342317 | 0.041571528 | 0.053 | 1 | 55703 | POLR3B |
| -0.342342317 | 0.041571528 | 0.05 | 1 | 389799 | C9orf171 |
| -0.34259975 | 0.041410945 | 0.042 | 1 | 51233 | C22orf43 |
| -0.34259975 | 0.041410945 | 0.067 | 1 | 53822 | FXYD7 |
| -0.342857152 | 0.041250799 | 0.062 | 1 | 6091 | ROBO1 |
| -0.342857152 | 0.041250799 | 0.061 | 1 | 6513 | SLC2A1 |
| -0.343114525 | 0.041091245 | 0.059 | 1 | 27332 | ZNF638 |
| -0.343371958 | 0.040932182 | 0.067 | 1 | 6418 | SET |
| -0.343371958 | 0.040932182 | 0.049 | 1 | 390205 | AP003108.2 |
| -0.343371958 | 0.040932182 | 0.049 | 1 | 402176 | RPL21P44 |
| -0.34362933 | 0.040773641 | 0.068 | 1 | 7857 | SCG2 |
| -0.34362933 | 0.040773641 | 0.078 | 1 | 56113 | PCDHGA2 |
| -0.34362933 | 0.040773641 | 0.046 | 1 | 65988 | ZNF747 |
| -0.34362933 | 0.040773641 | 0.047 | 1 | 85391 | SNORD14E |
| -0.34362933 | 0.040773641 | 0.069 | 1 | 196541 | C13orf39 |
| -0.343886763 | 0.040615566 | 0.051 | 1 | 842 | CASP9 |
| -0.343886763 | 0.040615566 | 0.053 | 1 | 129607 | CMPK2 |
| -0.344144136 | 0.040457953 | 0.055 | 1 | 2817 | GPC1 |
| -0.344144136 | 0.040457953 | 0.059 | 1 | 3429 | IFI27 |
| -0.344144136 | 0.040457953 | 0.058 | 1 | 79767 | ELMO3 |
| -0.344401538 | 0.040300898 | 0.06 | 1 | 266743 | NPAS4 |
| -0.344658941 | 0.040144343 | 0.055 | 1 | 9718 | ECE2 |
| -0.344658941 | 0.040144343 | 0.057 | 1 | 30850 | CDR2L |
| -0.344916344 | 0.039988298 | 0.054 | 1 | 2009 | EML1 |
| -0.344916344 | 0.039988298 | 0.072 | 1 | 51112 | TTC15 |
| -0.344916344 | 0.039988298 | 0.054 | 1 | 646999 | LOC646999 |
| -0.345173746 | 0.039832648 | 0.069 | 1 | 22858 | ICK |
| -0.345173746 | 0.039832648 | 0.053 | 1 | 23528 | ZNF281 |
| -0.345173746 | 0.039832648 | 0.055 | 1 | 55268 | ECHDC2 |
| -0.345431149 | 0.039677598 | 0.051 | 1 | 7273 | TTN |
| -0.345431149 | 0.039677598 | 0.064 | 1 | 8439 | NSMAF |
| -0.345431149 | 0.039677598 | 0.06 | 1 | 54661 | PCDHB17 |
| -0.345431149 | 0.039677598 | 0.065 | 1 | 84842 | HPDL |
| -0.345688522 | 0.039523024 | 0.053 | 1 | 7592 | ZNF41 |
| -0.345688522 | 0.039523024 | 0.057 | 1 | 54206 | ERRFI1 |
| -0.345688522 | 0.039523024 | 0.059 | 1 | 92745 | SLC38A5 |
| -0.345688522 | 0.039523024 | 0.054 | 1 | 116842 | LEAP2 |
| -0.345688522 | 0.039523024 | 0.043 | 1 | 100289137 | LOC100289137 |
| -0.345945954 | 0.039368946 | 0.048 | 1 | 9563 | H6PD |
| -0.345945954 | 0.039368946 | 0.04 | 1 | 64115 | C10orf54 |
| -0.345945954 | 0.039368946 | 0.045 | 1 | 84942 | WDR73 |
| -0.346203327 | 0.039215293 | 0.06 | 1 | 4992 | OR1F1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.278949648 | < 0.001 | 196883 | ADCY4 |
| -0.278998971 | < 0.001 | 6261 | RYR1 |
| -0.27906099 | < 0.001 | 5873 | RAB27A |
| -0.27906248 | < 0.001 | 3491 | CYR61 |
| -0.279063791 | < 0.001 | 8692 | HYAL2 |
| -0.279232323 | < 0.001 | 64399 | HHIP |
| -0.279261202 | < 0.001 | 54704 | PDP1 |
| -0.279270411 | < 0.001 | 3682 | ITGAE |
| -0.279289454 | < 0.001 | 84915 | C12orf34 |
| -0.279432744 | < 0.001 | 9904 | RBM19 |
| -0.279543906 | < 0.001 | 11200 | CHEK2 |
| -0.27958262 | < 0.001 | 5542 | PRB1 |
| -0.279656738 | < 0.001 | 3547 | IGSF1 |
| -0.279687762 | < 0.001 | 51734 | SEPX1 |
| -0.27971822 | < 0.001 | 5179 | PENK |
| -0.27979511 | < 0.001 | 94086 | HSPB9 |
| -0.279806525 | < 0.001 | 744 | MPPED2 |
| -0.279858053 | < 0.001 | 2321 | FLT1 |
| -0.279872 | < 0.001 | 6442 | SGCA |
| -0.27991879 | < 0.001 | 118430 | MUCL1 |
| -0.280149281 | < 0.001 | 10010 | TANK |
| -0.28017205 | < 0.001 | 6297 | SALL2 |
| -0.280240774 | < 0.001 | 100131532 | LOC100131532 |
| -0.280246347 | < 0.001 | 91252 | SLC39A13 |
| -0.280347466 | < 0.001 | 2828 | GPR4 |
| -0.280364007 | < 0.001 | 8644 | AKR1C3 |
| -0.28038007 | < 0.001 | 170575 | GIMAP1 |
| -0.280422956 | < 0.001 | 27065 | AC110814.1 |
| -0.280437738 | < 0.001 | 64776 | C11orf1 |
| -0.280509055 | < 0.001 | 148022 | TICAM1 |
| -0.280526131 | < 0.001 | 1486 | CTBS |
| -0.280742437 | < 0.001 | 30849 | PIK3R4 |
| -0.280750871 | < 0.001 | 2146 | EZH2 |
| -0.280800849 | < 0.001 | 7273 | TTN |
| -0.280876607 | < 0.001 | 1209 | CLPTM1 |
| -0.280890167 | < 0.001 | 441032 | EEF1A1P9 |
| -0.280901402 | < 0.001 | 653509 | SFTPA1 |
| -0.281178802 | < 0.001 | 7862 | BRPF1 |
| -0.281284302 | < 0.001 | 11319 | ECD |
| -0.281341225 | < 0.001 | 79600 | TCTN1 |
| -0.281411439 | < 0.001 | 64080 | RBKS |
| -0.281563997 | < 0.001 | 51477 | ISYNA1 |
| -0.281582952 | < 0.001 | 8519 | IFITM1 |
| -0.281662345 | < 0.001 | 221395 | GPR116 |
| -0.281753451 | < 0.001 | 6996 | TDG |
| -0.281801105 | < 0.001 | 29916 | SNX11 |
| -0.281931311 | < 0.001 | 56896 | DPYSL5 |
| -0.281966388 | < 0.001 | 126669 | SHE |
| -0.282193184 | < 0.001 | 93587 | RG9MTD2 |
| -0.282214254 | < 0.001 | 10365 | KLF2 |
| -0.282292813 | < 0.001 | 55282 | LRRC36 |
| -0.282378078 | < 0.001 | 148641 | SLC35F3 |
| -0.282452077 | < 0.001 | 4057 | LTF |
| -0.282495916 | < 0.001 | 1954 | MEGF8 |
| -0.282798111 | < 0.001 | 10058 | ABCB6 |
| -0.282838881 | < 0.001 | 441459 | ANKRD18B |
| -0.282877237 | < 0.001 | 115992 | RNF166 |
| -0.282916784 | < 0.001 | 79913 | ACTR5 |
| -0.28302896 | < 0.001 | 363 | AQP6 |
| -0.28324005 | < 0.001 | 9870 | KIAA0317 |
| -0.283306003 | < 0.001 | 112703 | FAM71E1 |
| -0.28333357 | < 0.001 | 83999 | KREMEN1 |
| -0.283373028 | < 0.001 | 9080 | CLDN9 |
| -0.283406943 | < 0.001 | 6895 | TARBP2 |
| -0.283503234 | < 0.001 | 59347 | FKSG2 |
| -0.283566952 | < 0.001 | 84071 | ARMC2 |
| -0.283572137 | < 0.001 | 57380 | MRS2 |
| -0.283573717 | < 0.001 | 25989 | ULK3 |
| -0.283593506 | < 0.001 | 2202 | EFEMP1 |
| -0.28367877 | < 0.001 | 64784 | CRTC3 |
| -0.283715725 | < 0.001 | 125962 | OR7G1 |
| -0.283808112 | < 0.001 | 643911 | CRNDE |
| -0.28389141 | < 0.001 | 5702 | PSMC3 |
| -0.283903599 | < 0.001 | 4071 | TM4SF1 |
| -0.284016222 | < 0.001 | 147011 | PROCA1 |
| -0.284090698 | < 0.001 | 842 | CASP9 |
| -0.28415069 | < 0.001 | 5195 | PEX14 |
| -0.284223139 | < 0.001 | 114815 | SORCS1 |
| -0.284242451 | < 0.001 | 7299 | TYR |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.346203327 | 0.039215293 | 0.06 | 1 | 8745 | ADAM23 |
| -0.346203327 | 0.039215293 | 0.056 | 1 | 56261 | RP5-1022P6.1 |
| -0.346203327 | 0.039215293 | 0.055 | 1 | 56288 | PARD3 |
| -0.346203327 | 0.039215293 | 0.059 | 1 | 64785 | GINS3 |
| -0.34646076 | 0.039062198 | 0.05 | 1 | 9429 | ABCG2 |
| -0.34646076 | 0.039062198 | 0.06 | 1 | 10008 | KCNE3 |
| -0.34646076 | 0.039062198 | 0.033 | 1 | 83697 | SLC4A9 |
| -0.346718132 | 0.038909607 | 0.061 | 1 | 1104 | RCC1 |
| -0.346718132 | 0.038909607 | 0.067 | 1 | 5332 | PLCB4 |
| -0.346718132 | 0.038909607 | 0.056 | 1 | 9001 | HAP1 |
| -0.346975535 | 0.038757507 | 0.06 | 1 | 5696 | PSMB8 |
| -0.346975535 | 0.038757507 | 0.051 | 1 | 11030 | RBPMS |
| -0.346975535 | 0.038757507 | 0.072 | 1 | 55164 | SHQ1 |
| -0.346975535 | 0.038757507 | 0.06 | 1 | 64094 | SMOC2 |
| -0.346975535 | 0.038757507 | 0.053 | 1 | 79709 | GLT25D1 |
| -0.346975535 | 0.038757507 | 0.06 | 1 | 221092 | HNRNPUL2 |
| -0.347232938 | 0.038605861 | 0.058 | 1 | 115207 | KCTD12 |
| -0.34749034 | 0.038454667 | 0.06 | 1 | 1392 | CRH |
| -0.34749034 | 0.038454667 | 0.06 | 1 | 1843 | DUSP1 |
| -0.34749034 | 0.038454667 | 0.045 | 1 | 2788 | AC005512.1 |
| -0.34749034 | 0.038454667 | 0.06 | 1 | 55096 | EBLN2 |
| -0.34749034 | 0.038454667 | 0.052 | 1 | 124565 | SLC38A10 |
| -0.347747743 | 0.038303997 | 0.057 | 1 | 10391 | CORO2B |
| -0.347747743 | 0.038303997 | 0.051 | 1 | 27161 | EIF2C2 |
| -0.347747743 | 0.038303997 | 0.054 | 1 | 55243 | KIRREL |
| -0.347747743 | 0.038303997 | 0.057 | 1 | 79903 | NAT15 |
| -0.347747743 | 0.038303997 | 0.063 | 1 | 284233 | CYP4F35P |
| -0.348005146 | 0.038153838 | 0.05 | 1 | 2563 | GABRD |
| -0.348005146 | 0.038153838 | 0.066 | 1 | 64745 | METT11D1 |
| -0.348005146 | 0.038153838 | 0.057 | 1 | 116835 | HSPA12B |
| -0.348262519 | 0.038004167 | 0.056 | 1 | 10276 | NET1 |
| -0.348262519 | 0.038004167 | 0.062 | 1 | 56052 | ALG1 |
| -0.348262519 | 0.038004167 | 0.048 | 1 | 196294 | IMMP1L |
| -0.348519951 | 0.037854876 | 0.044 | 1 | 3827 | KNG1 |
| -0.348519951 | 0.037854876 | 0.051 | 1 | 9435 | CHST2 |
| -0.348777324 | 0.037706167 | 0.045 | 1 | 2872 | MKNK2 |
| -0.348777324 | 0.037706167 | 0.036 | 1 | 7369 | UMOD |
| -0.348777324 | 0.037706167 | 0.051 | 1 | 27040 | LAT |
| -0.348777324 | 0.037706167 | 0.055 | 1 | 162972 | ZNF550 |
| -0.349034756 | 0.037557904 | 0.055 | 1 | 8771 | TNFRSF6B |
| -0.349034756 | 0.037557904 | 0.047 | 1 | 51566 | ARMCX3 |
| -0.349292129 | 0.037410151 | 0.059 | 1 | 3590 | IL11RA |
| -0.349292129 | 0.037410151 | 0.056 | 1 | 29127 | RACGAP1P |
| -0.349292129 | 0.037410151 | 0.046 | 1 | 440180 | LOC440180 |
| -0.349292129 | 0.037410151 | 0.053 | 1 | 100130357 | LOC100130357 |
| -0.349549532 | 0.037262797 | 0.051 | 1 | 81603 | TRIM8 |
| -0.349549532 | 0.037262797 | 0.057 | 1 | 283598 | C14orf177 |
| -0.349806964 | 0.03711598 | 0.05 | 1 | 10388 | SYCP2 |
| -0.349806964 | 0.03711598 | 0.054 | 1 | 100132406 | NBPF10 |
| -0.35032177 | 0.036823779 | 0.057 | 1 | 4168 | MCF2 |
| -0.350579143 | 0.036678404 | 0.044 | 1 | 134 | ADORA1 |
| -0.350579143 | 0.036678404 | 0.054 | 1 | 84913 | ATOH8 |
| -0.350836545 | 0.036533434 | 0.058 | 1 | 2859 | GPR35 |
| -0.350836545 | 0.036533434 | 0.052 | 1 | 51427 | ZNF588 |
| -0.350836545 | 0.036533434 | 0.051 | 1 | 80177 | MYCT1 |
| -0.350836545 | 0.036533434 | 0.058 | 1 | 94120 | SYTL3 |
| -0.351093948 | 0.036388971 | 0.063 | 1 | 1241 | LTB4R |
| -0.351093948 | 0.036388971 | 0.041 | 1 | 348645 | C22orf34 |
| -0.351351351 | 0.036245011 | 0.059 | 1 | 5118 | PCOLCE |
| -0.351351351 | 0.036245011 | 0.05 | 1 | 11270 | NRM |
| -0.351351351 | 0.036245011 | 0.055 | 1 | 115708 | TRMT61A |
| -0.351608753 | 0.036101483 | 0.049 | 1 | 2674 | GFRA1 |
| -0.351608753 | 0.036101483 | 0.06 | 1 | 3883 | KRT33A |
| -0.351608753 | 0.036101483 | 0.056 | 1 | 440051 | KRTAP5-11 |
| -0.351866156 | 0.035958394 | 0.056 | 1 | 4071 | TM4SF1 |
| -0.351866156 | 0.035958394 | 0.048 | 1 | 84709 | C4orf49 |
| -0.352123529 | 0.035815831 | 0.047 | 1 | 9124 | PDLIM1 |
| -0.352123529 | 0.035815831 | 0.048 | 1 | 55340 | GIMAP5 |
| -0.352123529 | 0.035815831 | 0.057 | 1 | 56132 | PCDHB3 |
| -0.352123529 | 0.035815831 | 0.052 | 1 | 64321 | SOX17 |
| -0.352123529 | 0.035815831 | 0.056 | 1 | 253943 | YTHDF3 |
| -0.352380961 | 0.035673708 | 0.065 | 1 | 1039 | CDR2 |
| -0.352380961 | 0.035673708 | 0.052 | 1 | 51684 | SUFU |
| -0.352380961 | 0.035673708 | 0.058 | 1 | 80896 | NPL |
| -0.352380961 | 0.035673708 | 0.066 | 1 | 642954 | RBBP4P1 |
| -0.352638334 | 0.035532076 | 0.043 | 1 | 7629 | ZNF76 |
| -0.352638334 | 0.035532076 | 0.041 | 1 | 8916 | HERC3 |
| -0.352638334 | 0.035532076 | 0.045 | 1 | 28231 | SLCO4A1 |
| -0.352638334 | 0.035532076 | 0.051 | 1 | 79706 | PRKRIP1 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.284368008 | < 0.001 | 79660 | PPP1R3B |
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| -0.28446579 | < 0.001 | 6674 | SPAG1 |
| -0.284765005 | < 0.001 | 389125 | MUSTN1 |
| -0.284771591 | < 0.001 | 84168 | ANTXR1 |
| -0.285311997 | < 0.001 | 6014 | RIT2 |
| -0.285351843 | < 0.001 | 3625 | INHBB |
| -0.285362422 | < 0.001 | 57125 | PLXDC1 |
| -0.285378933 | < 0.001 | 339263 | C17orf51 |
| -0.285427511 | < 0.001 | 684 | BST2 |
| -0.285452038 | < 0.001 | 2535 | FZD2 |
| -0.285587072 | < 0.001 | 118924 | C10orf4 |
| -0.285697281 | < 0.001 | 84229 | CCDC135 |
| -0.285796851 | < 0.001 | 6875 | TAF4B |
| -0.28586632 | < 0.001 | 653781 | AC140481.7 |
| -0.285975337 | < 0.001 | 2040 | STOM |
| -0.286004484 | < 0.001 | 10627 | MYL12A |
| -0.28607285 | < 0.001 | 8309 | ACOX2 |
| -0.286073685 | < 0.001 | 55709 | KBTBD4 |
| -0.286087781 | < 0.001 | 402 | ARL2 |
| -0.286118239 | < 0.001 | 79974 | C7orf58 |
| -0.286237389 | < 0.001 | 128272 | ARHGEF19 |
| -0.286255419 | < 0.001 | 84940 | CORO6 |
| -0.286307603 | < 0.001 | 6626 | SNRPA |
| -0.286390245 | < 0.001 | 5159 | PDGFRB |
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| -0.286438823 | < 0.001 | 2796 | GNRH1 |
| -0.286482573 | < 0.001 | 100874392 | ANKRD20A12P |
| -0.286578506 | < 0.001 | 57575 | PCDH10 |
| -0.286640614 | < 0.001 | 65986 | ZBTB10 |
| -0.286745936 | < 0.001 | 79866 | C13orf34 |
| -0.286833704 | < 0.001 | 339501 | MPN2 |
| -0.286838233 | < 0.001 | 6345 | SRL |
| -0.286876887 | < 0.001 | 57696 | DDX55 |
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| -0.287189364 | < 0.001 | 158135 | TTLL11 |
| -0.287384003 | < 0.001 | 84448 | ABLIM2 |
| -0.287391543 | < 0.001 | 26108 | PYGO1 |
| -0.287411213 | < 0.001 | 147172 | LRRC37BP1 |
| -0.287467122 | < 0.001 | 2120 | ETV6 |
| -0.287622124 | < 0.001 | 8189 | SYMPK |
| -0.287700236 | < 0.001 | 9306 | SOCS6 |
| -0.28771916 | < 0.001 | 64063 | PRSS22 |
| -0.28788504 | < 0.001 | 55110 | MAGOHB |
| -0.287926733 | < 0.001 | 54619 | CCNJ |
| -0.287930638 | < 0.001 | 9170 | LPAR2 |
| -0.288174957 | < 0.001 | 2976 | GTF3C2 |
| -0.288234383 | < 0.001 | 285203 | C3orf64 |
| -0.288302362 | < 0.001 | 1843 | DUSP1 |
| -0.288535178 | < 0.001 | 79922 | MRM1 |
| -0.28854093 | < 0.001 | 6197 | RPS6KA3 |
| -0.28855142 | < 0.001 | 399949 | C11orf88 |
| -0.288555533 | < 0.001 | 10677 | AVIL |
| -0.288567215 | < 0.001 | 2 | A2M |
| -0.288575202 | < 0.001 | 7016 | TESK1 |
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| -0.288636208 | < 0.001 | 2177 | FANCD2 |
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| -0.288858086 | < 0.001 | 5042 | PABPC3 |
| -0.288951486 | < 0.001 | 344838 | PAQR9 |
| -0.288974255 | < 0.001 | 6603 | SMARCD2 |
| -0.289179772 | < 0.001 | 284439 | SLC25A42 |
| -0.289243758 | < 0.001 | 112609 | MRAP2 |
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| -0.289379627 | < 0.001 | 646262 | RP1-74M1.1 |
| -0.289454281 | < 0.001 | 56672 | C11orf17 |
| -0.289485306 | < 0.001 | 84518 | CNFN |
| -0.28956601 | < 0.001 | 25812 | POM121L1P |
| -0.289585769 | < 0.001 | 124404 | SEPTIN12 |
| -0.28976658 | < 0.001 | 196549 | EEF1DP3 |
| -0.289785892 | < 0.001 | 57493 | HEG1 |
| -0.289876342 | < 0.001 | 2913 | GRM3 |
| -0.28993383 | < 0.001 | 8190 | MIA |
| -0.290000796 | < 0.001 | 753 | C18orf1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.352638334 | 0.035532076 | 0.06 | 1 | 83849 | SYT15 |
| -0.352638334 | 0.035532076 | 0.053 | 1 | 283985 | FADS6 |
| -0.352638334 | 0.035532076 | 0.059 | 1 | 403341 | ZBTB34 |
| -0.352895766 | 0.035390813 | 0.05 | 1 | 388 | RHOB |
| -0.353153139 | 0.035250109 | 0.044 | 1 | 1770 | DNAH9 |
| -0.353153139 | 0.035250109 | 0.047 | 1 | 5152 | PDE9A |
| -0.353153139 | 0.035250109 | 0.054 | 1 | 10434 | LYPLA1 |
| -0.353153139 | 0.035250109 | 0.051 | 1 | 347746 | PAR-SN |
| -0.353153139 | 0.035250109 | 0.039 | 1 | 643036 | SLED1 |
| -0.353153139 | 0.035250109 | 0.042 | 1 | 729975 | AC018755.8 |
| -0.353410542 | 0.035109863 | 0.059 | 1 | 22891 | ZNF365 |
| -0.353410542 | 0.035109863 | 0.038 | 1 | 79854 | LINC00115 |
| -0.353667945 | 0.034970045 | 0.054 | 1 | 303 | ANXA2P1 |
| -0.353667945 | 0.034970045 | 0.053 | 1 | 3902 | LAG3 |
| -0.353667945 | 0.034970045 | 0.052 | 1 | 55679 | LIMS2 |
| -0.353667945 | 0.034970045 | 0.048 | 1 | 255877 | BCL6B |
| -0.353925347 | 0.034830723 | 0.043 | 1 | 5810 | RAD1 |
| -0.353925347 | 0.034830723 | 0.048 | 1 | 56937 | PMEPA1 |
| -0.353925347 | 0.034830723 | 0.054 | 1 | 129530 | LYG1 |
| -0.353925347 | 0.034830723 | 0.055 | 1 | 100287852 | LOC100287852 |
| -0.35418275 | 0.034691758 | 0.039 | 1 | 22987 | SV2C |
| -0.35418275 | 0.034691758 | 0.057 | 1 | 23051 | ZHX3 |
| -0.35418275 | 0.034691758 | 0.052 | 1 | 79973 | ZNF442 |
| -0.354440153 | 0.034553345 | 0.052 | 1 | 84612 | PARD6B |
| -0.354440153 | 0.034553345 | 0.058 | 1 | 723972 | ANP32AP1 |
| -0.354697526 | 0.03441539 | 0.037 | 1 | 2622 | GAS8 |
| -0.354697526 | 0.03441539 | 0.052 | 1 | 2693 | GHSR |
| -0.354697526 | 0.03441539 | 0.059 | 1 | 4023 | LPL |
| -0.354697526 | 0.03441539 | 0.053 | 1 | 9013 | TAF1C |
| -0.354697526 | 0.03441539 | 0.059 | 1 | 23105 | FSTL4 |
| -0.354697526 | 0.03441539 | 0.045 | 1 | 23256 | SCFD1 |
| -0.354697526 | 0.03441539 | 0.066 | 1 | 79785 | RERGL |
| -0.354954958 | 0.034277856 | 0.043 | 1 | 353323 | KRTAP12-2 |
| -0.355212331 | 0.034140743 | 0.058 | 1 | 147872 | CCDC155 |
| -0.355469763 | 0.034004118 | 0.055 | 1 | 6890 | TAP1 |
| -0.355469763 | 0.034004118 | 0.046 | 1 | 7022 | TFAP2C |
| -0.355469763 | 0.034004118 | 0.064 | 1 | 23102 | TBC1D2B |
| -0.355469763 | 0.034004118 | 0.032 | 1 | 135458 | HUS1B |
| -0.355984539 | 0.033732273 | 0.045 | 1 | 2550 | GABBR1 |
| -0.355984539 | 0.033732273 | 0.053 | 1 | 8940 | TOP3B |
| -0.355984539 | 0.033732273 | 0.045 | 1 | 10237 | SLC35B1 |
| -0.355984539 | 0.033732273 | 0.041 | 1 | 80176 | SPSB1 |
| -0.356241941 | 0.033596937 | 0.038 | 1 | 292 | SLC25A5 |
| -0.356241941 | 0.033596937 | 0.043 | 1 | 4057 | LTF |
| -0.356241941 | 0.033596937 | 0.057 | 1 | 90594 | ZNF439 |
| -0.356499344 | 0.033462133 | 0.044 | 1 | 9631 | NUP155 |
| -0.356499344 | 0.033462133 | 0.049 | 1 | 9811 | KIAA0427 |
| -0.356499344 | 0.033462133 | 0.051 | 1 | 60485 | SAV1 |
| -0.356499344 | 0.033462133 | 0.043 | 1 | 400713 | AC010332.1 |
| -0.357014149 | 0.033193842 | 0.043 | 1 | 785 | CACNB4 |
| -0.357014149 | 0.033193842 | 0.042 | 1 | 728841 | NBPF8 |
| -0.357528955 | 0.032927267 | 0.048 | 1 | 3136 | HLA-H |
| -0.357528955 | 0.032927267 | 0.049 | 1 | 79841 | AGBL2 |
| -0.357528955 | 0.032927267 | 0.057 | 1 | 79929 | MAP6D1 |
| -0.357786357 | 0.032794688 | 0.042 | 1 | 309 | ANXA6 |
| -0.35804376 | 0.032662522 | 0.044 | 1 | 132320 | SCLT1 |
| -0.358301163 | 0.032530826 | 0.057 | 1 | 6935 | ZEB1 |
| -0.358558536 | 0.032399505 | 0.044 | 1 | 1735 | DIO3 |
| -0.358558536 | 0.032399505 | 0.046 | 1 | 3689 | ITGB2 |
| -0.358815968 | 0.032268658 | 0.047 | 1 | 57104 | PNPLA2 |
| -0.358815968 | 0.032268658 | 0.05 | 1 | 83690 | CRISPLD1 |
| -0.358815968 | 0.032268658 | 0.052 | 1 | 195828 | ZNF367 |
| -0.359073341 | 0.032138273 | 0.045 | 1 | 653 | BMP5 |
| -0.359073341 | 0.032138273 | 0.042 | 1 | 5255 | PHKA1 |
| -0.359073341 | 0.032138273 | 0.043 | 1 | 10537 | UBD |
| -0.359073341 | 0.032138273 | 0.043 | 1 | 441376 | AARD |
| -0.359330773 | 0.032008313 | 0.046 | 1 | 5731 | PTGER1 |
| -0.359330773 | 0.032008313 | 0.046 | 1 | 6274 | S100A3 |
| -0.359330773 | 0.032008313 | 0.051 | 1 | 131873 | AC128683.1 |
| -0.359588146 | 0.031878781 | 0.04 | 1 | 5919 | RARRES2 |
| -0.359588146 | 0.031878781 | 0.042 | 1 | 9885 | OSBPL2 |
| -0.359845549 | 0.031749647 | 0.053 | 1 | 200162 | SPAG17 |
| -0.360102952 | 0.031620972 | 0.046 | 1 | 3882 | KRT32 |
| -0.360102952 | 0.031620972 | 0.055 | 1 | 54039 | PCBP3 |
| -0.360102952 | 0.031620972 | 0.037 | 1 | 55698 | RADIL |
| -0.360102952 | 0.031620972 | 0.031 | 1 | 79582 | SPAG16 |
| -0.360102952 | 0.031620972 | 0.045 | 1 | 80198 | MUS81 |
| -0.360102952 | 0.031620972 | 0.046 | 1 | 92304 | SCGB3A1 |
| -0.360360354 | 0.031492755 | 0.03 | 1 | 23520 | ANP32C |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.290133119 | < 0.001 | 23228 | PLCL2 |
| -0.290133327 | < 0.001 | 2852 | GPER |
| -0.290136009 | < 0.001 | 79923 | NANOGP8 |
| -0.290225804 | < 0.001 | 65251 | ZNF649 |
| -0.290274739 | < 0.001 | 64224 | HERPUD2 |
| -0.29041329 | < 0.001 | 3015 | H2AFZ |
| -0.290433556 | < 0.001 | 5245 | PHB |
| -0.290527821 | < 0.001 | 79664 | NARG2 |
| -0.290723383 | < 0.001 | 23403 | FBXO46 |
| -0.290725052 | < 0.001 | 10723 | SLC12A7 |
| -0.29080382 | < 0.001 | 63928 | AC130454.1 |
| -0.291019261 | < 0.001 | 100129128 | RP11-257K9.7 |
| -0.291023701 | < 0.001 | 5190 | PEX6 |
| -0.291047126 | < 0.001 | 124923 | SGK494 |
| -0.291247785 | < 0.001 | 79776 | ZFHX4 |
| -0.291423589 | < 0.001 | 169611 | OLFML2A |
| -0.291491657 | < 0.001 | 200162 | SPAG17 |
| -0.291579038 | < 0.001 | 152015 | ROPN1B |
| -0.291590661 | < 0.001 | 55871 | CBWD1 |
| -0.291777223 | < 0.001 | 4212 | MEIS2 |
| -0.29185003 | < 0.001 | 1750 | DLX6 |
| -0.29200381 | < 0.001 | 3603 | IL16 |
| -0.292014688 | < 0.001 | 730112 | FAM166B |
| -0.292055279 | < 0.001 | 84152 | PPP1R1B |
| -0.292061776 | < 0.001 | 5187 | PER1 |
| -0.292124182 | < 0.001 | 780529 | LOC780529 |
| -0.292269498 | < 0.001 | 6876 | TAGLN |
| -0.292282045 | < 0.001 | 5322 | PLA2G5 |
| -0.292398512 | < 0.001 | 6386 | SDCBP |
| -0.292771816 | < 0.001 | 23395 | LARS2 |
| -0.292829484 | < 0.001 | 5528 | PPP2R5D |
| -0.292933404 | < 0.001 | 200232 | FAM209A |
| -0.292951137 | < 0.001 | 54505 | DHX29 |
| -0.293043256 | < 0.001 | 2589 | GALNT1 |
| -0.293111712 | < 0.001 | 1021 | CDK6 |
| -0.293119431 | < 0.001 | 6511 | SLC1A6 |
| -0.293149799 | < 0.001 | 56154 | TEX15 |
| -0.293177545 | < 0.001 | 646960 | PRSS56 |
| -0.293188602 | < 0.001 | 26206 | SPAG8 |
| -0.293275058 | < 0.001 | 85379 | KIAA1671 |
| -0.293367565 | < 0.001 | 84074 | QRICH2 |
| -0.293384463 | < 0.001 | 6926 | TBX3 |
| -0.293427259 | < 0.001 | 18 | ABAT |
| -0.293597221 | < 0.001 | 79841 | AGBL2 |
| -0.293643177 | < 0.001 | 728299 | KRTAP19-8 |
| -0.293758631 | < 0.001 | 83938 | C10orf11 |
| -0.2937693 | < 0.001 | 1301 | COL11A1 |
| -0.293789357 | < 0.001 | 6513 | SLC2A1 |
| -0.293790013 | < 0.001 | 284837 | AP001053.11 |
| -0.293846011 | < 0.001 | 2875 | GPT |
| -0.293923259 | < 0.001 | 26505 | CNNM3 |
| -0.294081032 | < 0.001 | 645332 | AP003716.1 |
| -0.294092178 | < 0.001 | 1545 | CYP1B1 |
| -0.294187576 | < 0.001 | 3192 | HNRNPU |
| -0.294208735 | < 0.001 | 7227 | TRPS1 |
| -0.294248015 | < 0.001 | 441425 | ANKRD20A1 |
| -0.294319808 | < 0.001 | 4050 | LTB |
| -0.294440717 | < 0.001 | 253970 | SFTA3 |
| -0.294476569 | < 0.001 | 10391 | CORO2B |
| -0.294629991 | < 0.001 | 115677 | NOSTRIN |
| -0.294655502 | < 0.001 | 84190 | C12orf26 |
| -0.294685692 | < 0.001 | 144404 | TMEM120B |
| -0.294878304 | < 0.001 | 8745 | ADAM23 |
| -0.294962168 | < 0.001 | 4925 | NUCB2 |
| -0.295170546 | < 0.001 | 57697 | FANCM |
| -0.295299917 | < 0.001 | 490 | ATP2B1 |
| -0.295555383 | < 0.001 | 54329 | GPR85 |
| -0.295565784 | < 0.001 | 5255 | PHKA1 |
| -0.295683354 | < 0.001 | 727941 | LOC727941 |
| -0.295712709 | < 0.001 | 3141 | HLCS |
| -0.295731932 | < 0.001 | 9569 | GTF2IRD1 |
| -0.295732766 | < 0.001 | 5549 | PRELP |
| -0.295740932 | < 0.001 | 51029 | PPPDE1 |
| -0.295838445 | < 0.001 | 3726 | JUNB |
| -0.295889884 | < 0.001 | 91147 | TMEM67 |
| -0.295977175 | < 0.001 | 192670 | EIF2C4 |
| -0.296030402 | < 0.001 | 5429 | POLH |
| -0.296151221 | < 0.001 | 4701 | NDUFA7 |
| -0.296181679 | < 0.001 | 254065 | BRWD3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.360360354 | 0.031492755 | 0.058 | 1 | 57835 | SLC4A5 |
| -0.360360354 | 0.031492755 | 0.036 | 1 | 79845 | RNF122 |
| -0.360360354 | 0.031492755 | 0.04 | 1 | 253827 | MSRB3 |
| -0.360360354 | 0.031492755 | 0.051 | 1 | 344758 | GPR149 |
| -0.360617757 | 0.031364955 | 0.052 | 1 | 55531 | ELMOD1 |
| -0.360617757 | 0.031364955 | 0.047 | 1 | 79583 | AC009163.1 |
| -0.360617757 | 0.031364955 | 0.046 | 1 | 129401 | NUP35 |
| -0.36087516 | 0.031237528 | 0.042 | 1 | 6324 | SCN1B |
| -0.361132532 | 0.0311106 | 0.045 | 1 | 898 | CCNE1 |
| -0.361389965 | 0.030984072 | 0.042 | 1 | 5526 | PPP2R5B |
| -0.361389965 | 0.030984072 | 0.024 | 1 | 79081 | C11orf48 |
| -0.361389965 | 0.030984072 | 0.054 | 1 | 285150 | AC062028.1 |
| -0.36190477 | 0.030732265 | 0.04 | 1 | 2822 | GPLD1 |
| -0.36190477 | 0.030732265 | 0.044 | 1 | 26108 | PYGO1 |
| -0.36190477 | 0.030732265 | 0.042 | 1 | 64761 | PARP12 |
| -0.36190477 | 0.030732265 | 0.041 | 1 | 203111 | C8orf47 |
| -0.362162143 | 0.030607035 | 0.052 | 1 | 1295 | COL8A1 |
| -0.362419546 | 0.030482236 | 0.043 | 1 | 9252 | RPS6KA5 |
| -0.362676948 | 0.03035784 | 0.049 | 1 | 8614 | STC2 |
| -0.362676948 | 0.03035784 | 0.044 | 1 | 11080 | DNAJB4 |
| -0.362676948 | 0.03035784 | 0.039 | 1 | 79675 | FASTKD1 |
| -0.362676948 | 0.03035784 | 0.05 | 1 | 149478 | RP11-269F19.1 |
| -0.362934351 | 0.030233864 | 0.045 | 1 | 56648 | EIF5A2 |
| -0.363191754 | 0.030110257 | 0.053 | 1 | 489 | ATP2A3 |
| -0.363191754 | 0.030110257 | 0.043 | 1 | 7450 | VWF |
| -0.363191754 | 0.030110257 | 0.049 | 1 | 30832 | ZNF354C |
| -0.363449156 | 0.029987121 | 0.042 | 1 | 2160 | F11 |
| -0.363449156 | 0.029987121 | 0.042 | 1 | 11320 | MGAT4A |
| -0.363449156 | 0.029987121 | 0.043 | 1 | 29065 | ASAP1-IT1 |
| -0.363449156 | 0.029987121 | 0.042 | 1 | 64065 | PERP |
| -0.363449156 | 0.029987121 | 0.035 | 1 | 79932 | KIAA0319L |
| -0.363449156 | 0.029987121 | 0.042 | 1 | 83872 | HMCN1 |
| -0.363449156 | 0.029987121 | 0.059 | 1 | 163486 | DENND1B |
| -0.363706559 | 0.029864416 | 0.035 | 1 | 94 | ACVRL1 |
| -0.363706559 | 0.029864416 | 0.048 | 1 | 3439 | IFNA1 |
| -0.363706559 | 0.029864416 | 0.035 | 1 | 10072 | DPP3 |
| -0.363706559 | 0.029864416 | 0.041 | 1 | 375611 | SLC26A5 |
| -0.363963962 | 0.029742114 | 0.04 | 1 | 9902 | MRC2 |
| -0.364221364 | 0.029620174 | 0.051 | 1 | 155038 | GIMAP8 |
| -0.364478767 | 0.029498704 | 0.054 | 1 | 362 | AQP5 |
| -0.364478767 | 0.029498704 | 0.04 | 1 | 3141 | HLCS |
| -0.364478767 | 0.029498704 | 0.035 | 1 | 7075 | TIE1 |
| -0.364478767 | 0.029498704 | 0.045 | 1 | 9709 | HERPUD1 |
| -0.364478767 | 0.029498704 | 0.043 | 1 | 645843 | TMEM14E |
| -0.36473617 | 0.029377645 | 0.04 | 1 | 285 | ANGPT2 |
| -0.36473617 | 0.029377645 | 0.051 | 1 | 3075 | CFH |
| -0.36473617 | 0.029377645 | 0.053 | 1 | 56927 | GPR108 |
| -0.365250975 | 0.029136727 | 0.045 | 1 | 3587 | IL10RA |
| -0.365250975 | 0.029136727 | 0.039 | 1 | 7124 | TNF |
| -0.365250975 | 0.029136727 | 0.054 | 1 | 51360 | MBTPS2 |
| -0.365250975 | 0.029136727 | 0.042 | 1 | 170575 | GIMAP1 |
| -0.365508348 | 0.029016903 | 0.036 | 1 | 147276 | C18orf15 |
| -0.36576578 | 0.028897488 | 0.038 | 1 | 6793 | STK10 |
| -0.36576578 | 0.028897488 | 0.046 | 1 | 147650 | NCRNA00085 |
| -0.366280556 | 0.028659895 | 0.055 | 1 | 6913 | TBX15 |
| -0.366280556 | 0.028659895 | 0.044 | 1 | 7123 | CLEC3B |
| -0.366280556 | 0.028659895 | 0.039 | 1 | 51540 | SCLY |
| -0.366280556 | 0.028659895 | 0.051 | 1 | 51547 | SIRT7 |
| -0.366280556 | 0.028659895 | 0.043 | 1 | 440295 | AC135995.5 |
| -0.366537958 | 0.028541651 | 0.043 | 1 | 448834 | KPRP |
| -0.366795361 | 0.028423861 | 0.046 | 1 | 8788 | DLK1 |
| -0.366795361 | 0.028423861 | 0.039 | 1 | 646090 | RHPN2P1 |
| -0.366795361 | 0.028423861 | 0.044 | 1 | 100418883 | LOC100418883 |
| -0.367052764 | 0.028306477 | 0.045 | 1 | 3720 | JARID2 |
| -0.367052764 | 0.028306477 | 0.039 | 1 | 161003 | STOML3 |
| -0.367052764 | 0.028306477 | 0.045 | 1 | 220869 | CBWD5 |
| -0.367310166 | 0.028189508 | 0.044 | 1 | 63027 | SLC22A23 |
| -0.367567539 | 0.028072879 | 0.04 | 1 | 80168 | MOGAT2 |
| -0.367824972 | 0.0279567 | 0.055 | 1 | 56906 | THAP10 |
| -0.367824972 | 0.0279567 | 0.045 | 1 | 64410 | KLHL25 |
| -0.368082345 | 0.027840935 | 0.035 | 1 | 56105 | PCDHGA11 |
| -0.368339777 | 0.027725542 | 0.049 | 1 | 8604 | SLC25A12 |
| -0.368339777 | 0.027725542 | 0.044 | 1 | 56104 | PCDHGB1 |
| -0.36859715 | 0.027610522 | 0.039 | 1 | 4988 | OPRM1 |
| -0.36859715 | 0.027610522 | 0.036 | 1 | 64399 | HHIP |
| -0.368854553 | 0.027495936 | 0.038 | 1 | 56652 | C10orf2 |
| -0.368854553 | 0.027495936 | 0.04 | 1 | 135892 | TRIM50 |
| -0.368854553 | 0.027495936 | 0.043 | 1 | 158056 | MAMDC4 |
| -0.368854553 | 0.027495936 | 0.047 | 1 | 342909 | ZNF284 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.296219379 | < 0.001 | 6232 | RPS27 |
| -0.296322733 | < 0.001 | 10992 | SF3B2 |
| -0.296360075 | < 0.001 | 56288 | PARD3 |
| -0.296361089 | < 0.001 | 11274 | USP18 |
| -0.29636842 | < 0.001 | 4773 | NFATC2 |
| -0.296377987 | < 0.001 | 8334 | HIST1H2AC |
| -0.296380877 | < 0.001 | 3697 | ITIH1 |
| -0.29641968 | < 0.001 | 54839 | LRRC49 |
| -0.296505392 | < 0.001 | 3720 | JARID2 |
| -0.296586394 | < 0.001 | 9457 | FHL5 |
| -0.296613038 | < 0.001 | 5634 | PRPS2 |
| -0.296710998 | < 0.001 | 79070 | KDELC1 |
| -0.296716124 | < 0.001 | 84249 | PSD2 |
| -0.296735257 | < 0.001 | 23428 | SLC7A8 |
| -0.296875 | < 0.001 | 5029 | P2RY2 |
| -0.296958953 | < 0.001 | 80167 | C4orf29 |
| -0.297040313 | < 0.001 | 3699 | ITIH3 |
| -0.297055721 | < 0.001 | 57787 | MARK4 |
| -0.297173679 | < 0.001 | 8788 | DLK1 |
| -0.297221869 | < 0.001 | 100147773 | RP11-466F5.8 |
| -0.297363222 | < 0.001 | 148932 | MOBKL2C |
| -0.297554702 | < 0.001 | 9420 | CYP7B1 |
| -0.297664374 | < 0.001 | 2668 | GDNF |
| -0.297694474 | < 0.001 | 100130557 | LOC100130557 |
| -0.29775241 | < 0.001 | 25956 | SEC31B |
| -0.297822058 | < 0.001 | 92241 | RCSD1 |
| -0.297976047 | < 0.001 | 84287 | ZDHHC16 |
| -0.298047721 | < 0.001 | 3429 | IFI27 |
| -0.298099905 | < 0.001 | 11097 | NUPL2 |
| -0.298148304 | < 0.001 | 3767 | KCNJ11 |
| -0.298158705 | < 0.001 | 135398 | C6ORF141 |
| -0.298207074 | < 0.001 | 286046 | XKR6 |
| -0.298336923 | < 0.001 | 728264 | MIR143HG |
| -0.298433661 | < 0.001 | 11215 | AKAP11 |
| -0.29858914 | < 0.001 | 341350 | OVCH1 |
| -0.298754811 | < 0.001 | 730232 | EEF1A1P32 |
| -0.29886958 | < 0.001 | 10301 | DLEU1 |
| -0.298912674 | < 0.001 | 463 | ATBF1 |
| -0.298917681 | < 0.001 | 100272228 | RP13-507I23.1 |
| -0.29893133 | < 0.001 | 5552 | SRGN |
| -0.299060881 | < 0.001 | 445328 | ARHGEF5L |
| -0.29908058 | < 0.001 | 285533 | RNF175 |
| -0.299309224 | < 0.001 | 27229 | TUBGCP4 |
| -0.29932037 | < 0.001 | 90459 | ERI1 |
| -0.299423635 | < 0.001 | 7375 | USP4 |
| -0.299443781 | < 0.001 | 83657 | DYNLRB2 |
| -0.299585491 | < 0.001 | 161394 | SAMD15 |
| -0.299647063 | < 0.001 | 23224 | SYNE2 |
| -0.299683273 | < 0.001 | 23281 | MTUS2 |
| -0.299847096 | < 0.001 | 88455 | ANKRD13A |
| -0.299928635 | < 0.001 | 7327 | UBE2G2 |
| -0.299964666 | < 0.001 | 3708 | ITPR1 |
| -0.300079346 | < 0.001 | 1136 | CHRNA3 |
| -0.300114453 | < 0.001 | 64427 | TTC31 |
| -0.300261647 | < 0.001 | 79676 | OGFOD2 |
| -0.300300837 | < 0.001 | 152573 | SHISA3 |
| -0.30030632 | < 0.001 | 26586 | CKAP2 |
| -0.300311327 | < 0.001 | 84062 | DTNBP1 |
| -0.300394624 | < 0.001 | 166793 | ZNF509 |
| -0.300431401 | < 0.001 | 148398 | SAMD11 |
| -0.300473094 | < 0.001 | 282997 | LOC282997 |
| -0.300485641 | < 0.001 | 340120 | ANKRD34B |
| -0.300531417 | < 0.001 | 26123 | TCTN3 |
| -0.300535053 | < 0.001 | 151556 | GPR155 |
| -0.300592333 | < 0.001 | 9814 | SFI1 |
| -0.300620109 | < 0.001 | 144100 | PLEKHA7 |
| -0.300665259 | < 0.001 | 55818 | KDM3A |
| -0.301008195 | < 0.001 | 79630 | C1orf54 |
| -0.301011443 | < 0.001 | 362 | AQP5 |
| -0.301028997 | < 0.001 | 64097 | EPB41L4A |
| -0.301053971 | < 0.001 | 84696 | ABHD1 |
| -0.301140338 | < 0.001 | 146956 | EME1 |
| -0.301364541 | < 0.001 | 5740 | PTGIS |
| -0.301535398 | < 0.001 | 150082 | LCA5L |
| -0.301747054 | < 0.001 | 9572 | NR1D1 |
| -0.301750571 | < 0.001 | 9718 | ECE2 |
| -0.30176422 | < 0.001 | 8346 | HIST1H2BI |
| -0.301940292 | < 0.001 | 9674 | KIAA0040 |
| -0.30196926 | < 0.001 | 132430 | PABPC4L |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.368854553 | 0.027495936 | 0.033 | 1 | 347442 | DCAF8L2 |
| -0.369111955 | 0.027381748 | 0.035 | 1 | 574 | BAGE |
| -0.369111955 | 0.027381748 | 0.045 | 1 | 5029 | P2RY2 |
| -0.369369358 | 0.027267966 | 0.037 | 1 | 4913 | NTHL1 |
| -0.369369358 | 0.027267966 | 0.041 | 1 | 5327 | PLAT |
| -0.36962676 | 0.027154554 | 0.041 | 1 | 1909 | EDNRA |
| -0.36962676 | 0.027154554 | 0.04 | 1 | 56969 | RPL23AP32 |
| -0.36962676 | 0.027154554 | 0.044 | 1 | 84915 | C12orf34 |
| -0.36962676 | 0.027154554 | 0.03 | 1 | 134265 | AFAP1L1 |
| -0.369884163 | 0.027041508 | 0.044 | 1 | 2321 | FLT1 |
| -0.369884163 | 0.027041508 | 0.039 | 1 | 23591 | FAM215A |
| -0.369884163 | 0.027041508 | 0.038 | 1 | 79922 | MRM1 |
| -0.370141536 | 0.02692889 | 0.049 | 1 | 26528 | DAZAP1 |
| -0.370398968 | 0.026816666 | 0.041 | 1 | 550 | AUP1 |
| -0.370398968 | 0.026816666 | 0.042 | 1 | 5256 | PHKA2 |
| -0.370398968 | 0.026816666 | 0.038 | 1 | 9427 | ECEL1 |
| -0.371171176 | 0.026482284 | 0.031 | 1 | 633 | BGN |
| -0.371171176 | 0.026482284 | 0.051 | 1 | 4629 | MYH11 |
| -0.371171176 | 0.026482284 | 0.039 | 1 | 6895 | TARBP2 |
| -0.371171176 | 0.026482284 | 0.044 | 1 | 83992 | CTTNBP2 |
| -0.371685982 | 0.026261322 | 0.032 | 1 | 339390 | CLEC4G |
| -0.371685982 | 0.026261322 | 0.045 | 1 | 641518 | AC097067.1 |
| -0.371943355 | 0.026151383 | 0.051 | 1 | 100272228 | RP13-507I23.1 |
| -0.372200787 | 0.026041863 | 0.044 | 1 | 7035 | TFPI |
| -0.372200787 | 0.026041863 | 0.039 | 1 | 54829 | ASPN |
| -0.372200787 | 0.026041863 | 0.034 | 1 | 90589 | ZNF625 |
| -0.37245816 | 0.025932726 | 0.027 | 1 | 2648 | KAT2A |
| -0.37245816 | 0.025932726 | 0.029 | 1 | 55297 | CCDC91 |
| -0.37245816 | 0.025932726 | 0.049 | 1 | 222223 | KIAA1324L |
| -0.37245816 | 0.025932726 | 0.035 | 1 | 645879 | FAM90A12P |
| -0.372715592 | 0.025823982 | 0.036 | 1 | 2791 | GNG11 |
| -0.372715592 | 0.025823982 | 0.041 | 1 | 9486 | CHST10 |
| -0.372715592 | 0.025823982 | 0.037 | 1 | 79627 | OGFRL1 |
| -0.372972965 | 0.025715595 | 0.041 | 1 | 1009 | CDH11 |
| -0.372972965 | 0.025715595 | 0.044 | 1 | 780529 | LOC780529 |
| -0.373230368 | 0.025607564 | 0.051 | 1 | 3547 | IGSF1 |
| -0.373230368 | 0.025607564 | 0.047 | 1 | 3685 | ITGAV |
| -0.373230368 | 0.025607564 | 0.045 | 1 | 339403 | RXFP4 |
| -0.373487771 | 0.025499946 | 0.034 | 1 | 1956 | EGFR |
| -0.373745173 | 0.025392706 | 0.04 | 1 | 6474 | SHOX2 |
| -0.373745173 | 0.025392706 | 0.032 | 1 | 8323 | FZD6 |
| -0.373745173 | 0.025392706 | 0.039 | 1 | 10395 | DLC1 |
| -0.374002546 | 0.025285855 | 0.029 | 1 | 649 | BMP1 |
| -0.374002546 | 0.025285855 | 0.035 | 1 | 259295 | TAS2R20 |
| -0.374002546 | 0.025285855 | 0.04 | 1 | 401131 | LOC401131 |
| -0.374259979 | 0.025179308 | 0.041 | 1 | 80178 | C16orf59 |
| -0.374517351 | 0.025073206 | 0.036 | 1 | 84182 | FAM188B |
| -0.374774784 | 0.024967477 | 0.035 | 1 | 3449 | IFNA16 |
| -0.374774784 | 0.024967477 | 0.026 | 1 | 9375 | TM9SF2 |
| -0.374774784 | 0.024967477 | 0.034 | 1 | 55626 | AMBRA1 |
| -0.374774784 | 0.024967477 | 0.035 | 1 | 84804 | MFSD9 |
| -0.375032157 | 0.024862099 | 0.038 | 1 | 54963 | UCKL1 |
| -0.375032157 | 0.024862099 | 0.038 | 1 | 643911 | CRNDE |
| -0.375289589 | 0.024757067 | 0.03 | 1 | 2294 | FOXF1 |
| -0.375289589 | 0.024757067 | 0.032 | 1 | 5501 | PPP1CC |
| -0.375289589 | 0.024757067 | 0.031 | 1 | 8896 | BUD31 |
| -0.375289589 | 0.024757067 | 0.037 | 1 | 27198 | HCAR1 |
| -0.375546962 | 0.024652431 | 0.044 | 1 | 3617 | IMPG1 |
| -0.375546962 | 0.024652431 | 0.053 | 1 | 10678 | B3GNT1 |
| -0.375546962 | 0.024652431 | 0.044 | 1 | 154043 | CNKSR3 |
| -0.375546962 | 0.024652431 | 0.062 | 1 | 729839 | LOC729839 |
| -0.375804365 | 0.024548186 | 0.04 | 1 | 2027 | ENO3 |
| -0.375804365 | 0.024548186 | 0.032 | 1 | 9842 | PLEKHM1 |
| -0.375804365 | 0.024548186 | 0.04 | 1 | 23268 | DNMBP |
| -0.376061767 | 0.024444308 | 0.046 | 1 | 79939 | SLC35E1 |
| -0.376061767 | 0.024444308 | 0.033 | 1 | 729082 | OIP5-AS1 |
| -0.37631917 | 0.024340777 | 0.044 | 1 | 4148 | MATN3 |
| -0.37631917 | 0.024340777 | 0.037 | 1 | 5552 | SRGN |
| -0.37631917 | 0.024340777 | 0.028 | 1 | 9330 | GTF3C3 |
| -0.37631917 | 0.024340777 | 0.047 | 1 | 162494 | RHBDL3 |
| -0.376576573 | 0.02423759 | 0.034 | 1 | 5745 | PTH1R |
| -0.376576573 | 0.02423759 | 0.029 | 1 | 9034 | CCRL2 |
| -0.376576573 | 0.02423759 | 0.05 | 1 | 284340 | CXCL17 |
| -0.376833975 | 0.024134791 | 0.028 | 1 | 9108 | MTMR7 |
| -0.376833975 | 0.024134791 | 0.032 | 1 | 22889 | KIAA0907 |
| -0.376833975 | 0.024134791 | 0.039 | 1 | 196883 | ADCY4 |
| -0.377091348 | 0.024032379 | 0.046 | 1 | 2905 | GRIN2C |
| -0.377091348 | 0.024032379 | 0.033 | 1 | 6323 | SCN1A |
| -0.377091348 | 0.024032379 | 0.036 | 1 | 9866 | TRIM66 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.30197233 | < 0.001 | 3490 | IGFBP7 |
| -0.302321881 | < 0.001 | 285877 | POM121L12 |
| -0.30237481 | < 0.001 | 5326 | PLAGL2 |
| -0.302716106 | < 0.001 | 339201 | C17orf65 |
| -0.302997202 | < 0.001 | 27252 | KLHL20 |
| -0.3030155 | < 0.001 | 221092 | HNRNPUL2 |
| -0.303069919 | < 0.001 | 4673 | NAP1L1 |
| -0.303158134 | < 0.001 | 9747 | FAM115A |
| -0.30316788 | < 0.001 | 57597 | BAHCC1 |
| -0.30323419 | < 0.001 | 118491 | TTC18 |
| -0.303293824 | < 0.001 | 2981 | GUCA2B |
| -0.303294182 | < 0.001 | 51176 | LEF1 |
| -0.303325951 | < 0.001 | 5139 | PDE3A |
| -0.303473055 | < 0.001 | 389799 | C9orf171 |
| -0.303680688 | < 0.001 | 100128174 | LOC100128174 |
| -0.30368489 | < 0.001 | 653269 | POTEI |
| -0.30370307 | < 0.001 | 23145 | SSPO |
| -0.303744137 | < 0.001 | 5016 | OVGP1 |
| -0.303747922 | < 0.001 | 126147 | NTN5 |
| -0.304200292 | < 0.001 | 4958 | OMD |
| -0.304311544 | < 0.001 | 729305 | RP11-469N6.1 |
| -0.304568768 | < 0.001 | 129563 | DIS3L2 |
| -0.304669708 | < 0.001 | 26151 | NAT9 |
| -0.304683566 | < 0.001 | 408186 | OVOS |
| -0.304781079 | < 0.001 | 8870 | IER3 |
| -0.304842532 | < 0.001 | 6793 | STK10 |
| -0.305049628 | < 0.001 | 2277 | FIGF |
| -0.305072844 | < 0.001 | 729839 | LOC729839 |
| -0.305176109 | < 0.001 | 9980 | DOPEY2 |
| -0.30525431 | < 0.001 | 51167 | CYB5R4 |
| -0.30536446 | < 0.001 | 285154 | CYP1B1-AS1 |
| -0.305396289 | < 0.001 | 220869 | CBWD5 |
| -0.305399269 | < 0.001 | 653247 | PRB2 |
| -0.305590034 | < 0.001 | 55766 | H2AFJ |
| -0.305753201 | < 0.001 | 9488 | PIGB |
| -0.305775285 | < 0.001 | 9699 | RIMS2 |
| -0.305915982 | < 0.001 | 197021 | LCTL |
| -0.305949509 | < 0.001 | 2919 | CXCL1 |
| -0.30601126 | < 0.001 | 4618 | MYF6 |
| -0.30623731 | < 0.001 | 114987 | WDR31 |
| -0.30664748 | < 0.001 | 222698 | NKAPL |
| -0.3067424 | < 0.001 | 6559 | SLC12A3 |
| -0.306905389 | < 0.001 | 4005 | LMO2 |
| -0.306957483 | < 0.001 | 83742 | MARVELD1 |
| -0.306959063 | < 0.001 | 27122 | DKK3 |
| -0.306985527 | < 0.001 | 152485 | ZNF827 |
| -0.307014495 | < 0.001 | 83547 | RILP |
| -0.307108015 | < 0.001 | 342909 | ZNF284 |
| -0.30711478 | < 0.001 | 7764 | ZNF217 |
| -0.307143569 | < 0.001 | 8045 | RASSF7 |
| -0.307175159 | < 0.001 | 5453 | POU3F1 |
| -0.307214051 | < 0.001 | 137075 | CLDN23 |
| -0.307251304 | < 0.001 | 139818 | DOCK11 |
| -0.307272553 | < 0.001 | 28985 | MCTS1 |
| -0.307365149 | < 0.001 | 8743 | TNFSF10 |
| -0.307450593 | < 0.001 | 5797 | PTPRM |
| -0.307739496 | < 0.001 | 10978 | CLP1 |
| -0.307752311 | < 0.001 | 642938 | FAM196A |
| -0.307785481 | < 0.001 | 80760 | ITIH5 |
| -0.307791024 | < 0.001 | 3045 | HBD |
| -0.307801157 | < 0.001 | 83482 | SCRT1 |
| -0.307902098 | < 0.001 | 55684 | C9orf86 |
| -0.308072239 | < 0.001 | 271 | AMPD2 |
| -0.308150232 | < 0.001 | 256949 | KANK3 |
| -0.308486432 | < 0.001 | 72 | ACTG2 |
| -0.308545858 | < 0.001 | 54930 | HAUS4 |
| -0.308620423 | < 0.001 | 387644 | LINC00202 |
| -0.308656931 | < 0.001 | 4702 | NDUFA8 |
| -0.308780164 | < 0.001 | 26025 | PCDHGA12 |
| -0.308898181 | < 0.001 | 542767 | C1QTNF9B-AS1 |
| -0.308956325 | < 0.001 | 339488 | TFAP2E |
| -0.309008509 | < 0.001 | 283788 | LOC283788 |
| -0.309179932 | < 0.001 | 57649 | PHF12 |
| -0.309209466 | < 0.001 | 493911 | PHOSPHO2 |
| -0.309237599 | < 0.001 | 23678 | SGK3 |
| -0.309250534 | < 0.001 | 55145 | THAP1 |
| -0.30940932 | < 0.001 | 1116 | CHI3L1 |
| -0.30946058 | < 0.001 | 56920 | SEMA3G |
| -0.309505731 | < 0.001 | 85004 | RERG |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.377091348 | 0.024032379 | 0.037 | 1 | 79015 | RP11-445H22.3 |
| -0.377091348 | 0.024032379 | 0.029 | 1 | 151393 | FAM82A1 |
| -0.377348781 | 0.02393033 | 0.031 | 1 | 6495 | SIX1 |
| -0.377348781 | 0.02393033 | 0.034 | 1 | 64844 | MARCHF7 |
| -0.377348781 | 0.02393033 | 0.033 | 1 | 146956 | EME1 |
| -0.377348781 | 0.02393033 | 0.03 | 1 | 390284 | SRP14P1 |
| -0.377606153 | 0.023828575 | 0.04 | 1 | 3291 | HSD11B2 |
| -0.377606153 | 0.023828575 | 0.037 | 1 | 3786 | KCNQ3 |
| -0.377606153 | 0.023828575 | 0.038 | 1 | 51006 | SLC35C2 |
| -0.377606153 | 0.023828575 | 0.043 | 1 | 55018 | LINC00483 |
| -0.377606153 | 0.023828575 | 0.033 | 1 | 153129 | SLC38A9 |
| -0.377606153 | 0.023828575 | 0.015 | 1 | 256949 | KANK3 |
| -0.377863586 | 0.023727253 | 0.038 | 1 | 55145 | THAP1 |
| -0.378120989 | 0.023626266 | 0.047 | 1 | 51435 | SCARA3 |
| -0.378120989 | 0.023626266 | 0.034 | 1 | 729096 | RP11-464F9.1 |
| -0.378378361 | 0.023525663 | 0.033 | 1 | 5326 | PLAGL2 |
| -0.378378361 | 0.023525663 | 0.039 | 1 | 9445 | ITM2B |
| -0.378378361 | 0.023525663 | 0.036 | 1 | 57639 | CCDC146 |
| -0.378378361 | 0.023525663 | 0.041 | 1 | 80760 | ITIH5 |
| -0.378378361 | 0.023525663 | 0.048 | 1 | 138429 | PIP5KL1 |
| -0.378378361 | 0.023525663 | 0.037 | 1 | 148206 | ZNF714 |
| -0.378893167 | 0.023325462 | 0.035 | 1 | 6876 | TAGLN |
| -0.378893167 | 0.023325462 | 0.028 | 1 | 59351 | PBOV1 |
| -0.378893167 | 0.023325462 | 0.037 | 1 | 124274 | GPR139 |
| -0.379150599 | 0.02322593 | 0.027 | 1 | 23078 | KIAA0564 |
| -0.379150599 | 0.02322593 | 0.033 | 1 | 79002 | C19orf43 |
| -0.379665375 | 0.023027912 | 0.032 | 1 | 6926 | TBX3 |
| -0.379665375 | 0.023027912 | 0.026 | 1 | 57684 | ZBTB26 |
| -0.379665375 | 0.023027912 | 0.032 | 1 | 127845 | GOLT1A |
| -0.379922777 | 0.0229294 | 0.026 | 1 | 51751 | HIGD1B |
| -0.379922777 | 0.0229294 | 0.039 | 1 | 643438 | LOC643438 |
| -0.38018018 | 0.022831265 | 0.026 | 1 | 79840 | NHEJ1 |
| -0.380437583 | 0.022733504 | 0.033 | 1 | 4430 | MYO1B |
| -0.380437583 | 0.022733504 | 0.042 | 1 | 57822 | GRHL3 |
| -0.380437583 | 0.022733504 | 0.036 | 1 | 81626 | C1orf14 |
| -0.380437583 | 0.022733504 | 0.031 | 1 | 91353 | IGLL3P |
| -0.380437583 | 0.022733504 | 0.025 | 1 | 388931 | AC104665.1 |
| -0.380694985 | 0.022636071 | 0.04 | 1 | 10489 | LRRC41 |
| -0.380694985 | 0.022636071 | 0.037 | 1 | 130557 | ZNF513 |
| -0.380952358 | 0.022538966 | 0.027 | 1 | 973 | CD79A |
| -0.380952358 | 0.022538966 | 0.037 | 1 | 23154 | NCDN |
| -0.380952358 | 0.022538966 | 0.032 | 1 | 57786 | RBAK |
| -0.380952358 | 0.022538966 | 0.029 | 1 | 151473 | SLC16A14 |
| -0.380952358 | 0.022538966 | 0.033 | 1 | 474344 | GIMAP6 |
| -0.380952358 | 0.022538966 | 0.032 | 1 | 646993 | HMGB3P24 |
| -0.381209791 | 0.022442251 | 0.036 | 1 | 786 | CACNG1 |
| -0.381209791 | 0.022442251 | 0.04 | 1 | 136895 | C7orf31 |
| -0.381467164 | 0.022345865 | 0.029 | 1 | 55040 | EPN3 |
| -0.381467164 | 0.022345865 | 0.025 | 1 | 57685 | CACHD1 |
| -0.381467164 | 0.022345865 | 0.031 | 1 | 85291 | KRTAP4-2 |
| -0.381981969 | 0.022154156 | 0.034 | 1 | 1080 | CFTR |
| -0.381981969 | 0.022154156 | 0.035 | 1 | 1489 | CTF1 |
| -0.381981969 | 0.022154156 | 0.034 | 1 | 339451 | KLHL17 |
| -0.382239372 | 0.022058787 | 0.029 | 1 | 6892 | TAPBP |
| -0.382239372 | 0.022058787 | 0.036 | 1 | 163071 | ZNF114 |
| -0.382496774 | 0.021963805 | 0.043 | 1 | 283663 | AC016525.1 |
| -0.382754177 | 0.021869145 | 0.033 | 1 | 3588 | IL10RB |
| -0.38301158 | 0.021774847 | 0.039 | 1 | 7074 | TIAM1 |
| -0.38301158 | 0.021774847 | 0.018 | 1 | 154007 | SNRNP48 |
| -0.383268982 | 0.021680828 | 0.029 | 1 | 5544 | PRB3 |
| -0.383268982 | 0.021680828 | 0.027 | 1 | 23329 | TBC1D30 |
| -0.383526355 | 0.021587214 | 0.028 | 1 | 6559 | SLC12A3 |
| -0.383526355 | 0.021587214 | 0.021 | 1 | 403313 | PPAPDC2 |
| -0.383783787 | 0.021493938 | 0.029 | 1 | 5090 | PBX3 |
| -0.38404116 | 0.021400981 | 0.018 | 1 | 3976 | LIF |
| -0.38404116 | 0.021400981 | 0.035 | 1 | 7481 | WNT11 |
| -0.38404116 | 0.021400981 | 0.031 | 1 | 79971 | GPR177 |
| -0.38404116 | 0.021400981 | 0.032 | 1 | 284648 | LOC284648 |
| -0.384298593 | 0.02130834 | 0.036 | 1 | 9904 | RBM19 |
| -0.384298593 | 0.02130834 | 0.031 | 1 | 255520 | ELMOD2 |
| -0.384298593 | 0.02130834 | 0.035 | 1 | 493754 | LOC493754 |
| -0.384813368 | 0.021124128 | 0.033 | 1 | 2625 | GATA3 |
| -0.384813368 | 0.021124128 | 0.027 | 1 | 4957 | ODF2 |
| -0.384813368 | 0.021124128 | 0.034 | 1 | 128602 | C20orf85 |
| -0.384813368 | 0.021124128 | 0.037 | 1 | 160857 | CCDC122 |
| -0.385070801 | 0.021032535 | 0.04 | 1 | 515 | ATP5F1 |
| -0.385070801 | 0.021032535 | 0.04 | 1 | 26206 | SPAG8 |
| -0.385328174 | 0.020941256 | 0.024 | 1 | 115677 | NOSTRIN |
| -0.385328174 | 0.020941256 | 0.029 | 1 | 127066 | OR14C36 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.309562176 | < 0.001 | 3303 | HSPA1A |
| -0.309653103 | < 0.001 | 3053 | SERPIND1 |
| -0.309875309 | < 0.001 | 378938 | MALAT1 |
| -0.31012094 | < 0.001 | 9360 | PPIG |
| -0.310293138 | < 0.001 | 387646 | RP11-85G18.4 |
| -0.310532808 | < 0.001 | 85027 | C5ORF62 |
| -0.310664862 | < 0.001 | 285343 | C3orf23 |
| -0.310803413 | < 0.001 | 9452 | ITM2A |
| -0.310866654 | < 0.001 | 195827 | AAED1 |
| -0.310966492 | < 0.001 | 3090 | HIC1 |
| -0.31120646 | < 0.001 | 168537 | GIMAP7 |
| -0.311485529 | < 0.001 | 729967 | MORN2 |
| -0.311513186 | < 0.001 | 5826 | ABCD4 |
| -0.31166476 | < 0.001 | 3759 | KCNJ2 |
| -0.311720192 | < 0.001 | 3449 | IFNA16 |
| -0.3117356 | < 0.001 | 284565 | NBPF15 |
| -0.311784357 | < 0.001 | 25966 | C2CD2 |
| -0.311843067 | < 0.001 | 79796 | ALG9 |
| -0.31189248 | < 0.001 | 139285 | FAM123B |
| -0.311915308 | < 0.001 | 79174 | CRELD2 |
| -0.31202507 | < 0.001 | 4240 | MFGE8 |
| -0.312093347 | < 0.001 | 2324 | FLT4 |
| -0.312136799 | < 0.001 | 2302 | FOXJ1 |
| -0.312266618 | < 0.001 | 7450 | VWF |
| -0.312337011 | < 0.001 | 119504 | C10orf104 |
| -0.312753618 | < 0.001 | 4913 | NTHL1 |
| -0.312888443 | < 0.001 | 1302 | COL11A2 |
| -0.313044846 | < 0.001 | 949 | SCARB1 |
| -0.313280344 | < 0.001 | 5003 | SLC22A18AS |
| -0.313307375 | < 0.001 | 84570 | COL25A1 |
| -0.313381582 | < 0.001 | 9592 | IER2 |
| -0.313424379 | < 0.001 | 132014 | IL17RE |
| -0.313481033 | < 0.001 | 23704 | KCNE4 |
| -0.313529968 | < 0.001 | 5831 | PYCR1 |
| -0.313566655 | < 0.001 | 160857 | CCDC122 |
| -0.313624322 | < 0.001 | 1842 | ECM2 |
| -0.31379807 | < 0.001 | 80144 | FRAS1 |
| -0.31383419 | < 0.001 | 83439 | TCF7L1 |
| -0.313892156 | < 0.001 | 80201 | HKDC1 |
| -0.313928932 | < 0.001 | 493869 | GPX8 |
| -0.314036548 | < 0.001 | 9781 | RNF144A |
| -0.314163327 | < 0.001 | 85015 | USP45 |
| -0.314188659 | < 0.001 | 170394 | PWWP2B |
| -0.314191282 | < 0.001 | 23528 | ZNF281 |
| -0.314225912 | < 0.001 | 29057 | FAM156A |
| -0.314317465 | < 0.001 | 255104 | TMCO4 |
| -0.314373851 | < 0.001 | 448834 | KPRP |
| -0.314403921 | < 0.001 | 4661 | MYT1 |
| -0.314476281 | < 0.001 | 54780 | NSMCE4A |
| -0.314780682 | < 0.001 | 54660 | PCDHB18 |
| -0.314785063 | < 0.001 | 85289 | KRTAP4-5 |
| -0.314952493 | < 0.001 | 392862 | GRID2IP |
| -0.315288305 | < 0.001 | 150165 | XKR3 |
| -0.315331578 | < 0.001 | 8436 | SDPR |
| -0.315375686 | < 0.001 | 150135 | LINC00479 |
| -0.315530121 | < 0.001 | 84733 | CBX2 |
| -0.315672398 | < 0.001 | 400710 | AC010624.2 |
| -0.315740645 | < 0.001 | 347731 | LRRTM3 |
| -0.315868348 | < 0.001 | 401491 | RP11-125B21.2 |
| -0.315891653 | < 0.001 | 4038 | LRP4 |
| -0.315923959 | < 0.001 | 25769 | SLC24A2 |
| -0.315949321 | < 0.001 | 6422 | SFRP1 |
| -0.316004306 | < 0.001 | 23059 | CLUAP1 |
| -0.316029191 | < 0.001 | 649 | BMP1 |
| -0.316160679 | < 0.001 | 2328 | FMO3 |
| -0.316175073 | < 0.001 | 221294 | NT5DC1 |
| -0.316212416 | < 0.001 | 6646 | SOAT1 |
| -0.316223651 | < 0.001 | 400745 | SH2D5 |
| -0.316368788 | < 0.001 | 257177 | C1orf192 |
| -0.316671073 | < 0.001 | 79097 | TRIM48 |
| -0.316801071 | < 0.001 | 162137 | MGC34800 |
| -0.316870451 | < 0.001 | 1638 | DCT |
| -0.316900343 | < 0.001 | 79624 | C6orf211 |
| -0.317149967 | < 0.001 | 11313 | LYPLA2 |
| -0.317256778 | < 0.001 | 140679 | SLC32A1 |
| -0.317261875 | < 0.001 | 84299 | MIEN1 |
| -0.317312598 | < 0.001 | 2894 | GRID1 |
| -0.317673653 | < 0.001 | 80176 | SPSB1 |
| -0.317923635 | < 0.001 | 57589 | KIAA1432 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.385585606 | 0.02085029 | 0.026 | 1 | 5754 | PTK7 |
| -0.385842979 | 0.020759676 | 0.034 | 1 | 3768 | KCNJ12 |
| -0.385842979 | 0.020759676 | 0.03 | 1 | 9197 | SLC33A1 |
| -0.385842979 | 0.020759676 | 0.036 | 1 | 51475 | CABP2 |
| -0.386100382 | 0.020669412 | 0.03 | 1 | 8576 | STK16 |
| -0.386100382 | 0.020669412 | 0.039 | 1 | 51283 | BFAR |
| -0.386100382 | 0.020669412 | 0.037 | 1 | 54112 | GPR88 |
| -0.386100382 | 0.020669412 | 0.026 | 1 | 55711 | FAR2 |
| -0.386357784 | 0.020579478 | 0.033 | 1 | 4615 | MYD88 |
| -0.386357784 | 0.020579478 | 0.034 | 1 | 7045 | TGFBI |
| -0.386615187 | 0.020489816 | 0.039 | 1 | 55076 | TMEM45A |
| -0.386615187 | 0.020489816 | 0.035 | 1 | 55160 | ARHGEF10L |
| -0.38687259 | 0.020400539 | 0.027 | 1 | 83650 | AMAC1L2 |
| -0.38687259 | 0.020400539 | 0.023 | 1 | 166929 | SGMS2 |
| -0.387129992 | 0.020311579 | 0.03 | 1 | 3362 | HTR6 |
| -0.387129992 | 0.020311579 | 0.03 | 1 | 6478 | SIAH2 |
| -0.387129992 | 0.020311579 | 0.028 | 1 | 6819 | SULT1C2 |
| -0.387129992 | 0.020311579 | 0.039 | 1 | 25966 | C2CD2 |
| -0.387129992 | 0.020311579 | 0.031 | 1 | 55552 | ZNF823 |
| -0.387129992 | 0.020311579 | 0.043 | 1 | 64419 | MTMR14 |
| -0.387129992 | 0.020311579 | 0.026 | 1 | 255189 | PLA2G4F |
| -0.387129992 | 0.020311579 | 0.043 | 1 | 338596 | ST8SIA6 |
| -0.387387365 | 0.020222949 | 0.03 | 1 | 11211 | FZD10 |
| -0.387387365 | 0.020222949 | 0.035 | 1 | 84891 | ZSCAN10 |
| -0.387387365 | 0.020222949 | 0.03 | 1 | 114785 | MBD6 |
| -0.387644798 | 0.020134611 | 0.03 | 1 | 25973 | PARS2 |
| -0.387644798 | 0.020134611 | 0.034 | 1 | 257407 | C2orf72 |
| -0.387644798 | 0.020134611 | 0.038 | 1 | 415117 | STX19 |
| -0.38790217 | 0.020046618 | 0.037 | 1 | 25844 | YIPF3 |
| -0.38790217 | 0.020046618 | 0.024 | 1 | 650623 | LOC650623 |
| -0.388159603 | 0.019958969 | 0.029 | 1 | 163747 | C1orf177 |
| -0.388416976 | 0.019871632 | 0.032 | 1 | 9882 | TBC1D4 |
| -0.388416976 | 0.019871632 | 0.033 | 1 | 10166 | SLC25A15 |
| -0.388416976 | 0.019871632 | 0.022 | 1 | 442523 | DPY19L2P4 |
| -0.388674378 | 0.019784618 | 0.027 | 1 | 81786 | TRIM7 |
| -0.388674378 | 0.019784618 | 0.029 | 1 | 729020 | LOC729020 |
| -0.388931781 | 0.019697895 | 0.035 | 1 | 129807 | NEU4 |
| -0.388931781 | 0.019697895 | 0.039 | 1 | 222698 | NKAPL |
| -0.389189184 | 0.019611511 | 0.034 | 1 | 83548 | COG3 |
| -0.389189184 | 0.019611511 | 0.026 | 1 | 85329 | LGALS12 |
| -0.389189184 | 0.019611511 | 0.032 | 1 | 284723 | SLC25A34 |
| -0.389446586 | 0.019525468 | 0.027 | 1 | 55656 | INTS8 |
| -0.389446586 | 0.019525468 | 0.033 | 1 | 83857 | TMTC1 |
| -0.389703989 | 0.019439729 | 0.034 | 1 | 7378 | UPP1 |
| -0.389961362 | 0.019354273 | 0.033 | 1 | 3659 | IRF1 |
| -0.389961362 | 0.019354273 | 0.031 | 1 | 10106 | CTDSP2 |
| -0.389961362 | 0.019354273 | 0.033 | 1 | 64123 | ELTD1 |
| -0.389961362 | 0.019354273 | 0.031 | 1 | 84759 | PCGF1 |
| -0.389961362 | 0.019354273 | 0.026 | 1 | 728464 | C6orf186 |
| -0.390218794 | 0.01926918 | 0.028 | 1 | 7015 | TERT |
| -0.390218794 | 0.01926918 | 0.016 | 1 | 23063 | WAPAL |
| -0.390218794 | 0.01926918 | 0.025 | 1 | 51117 | COQ4 |
| -0.390218794 | 0.01926918 | 0.033 | 1 | 169522 | KCNV2 |
| -0.390476167 | 0.01918439 | 0.029 | 1 | 388533 | KRTDAP |
| -0.3907336 | 0.019099917 | 0.028 | 1 | 6664 | SOX11 |
| -0.3907336 | 0.019099917 | 0.027 | 1 | 152559 | PAQR3 |
| -0.3907336 | 0.019099917 | 0.03 | 1 | 286676 | ILDR1 |
| -0.390990973 | 0.019015718 | 0.032 | 1 | 9031 | BAZ1B |
| -0.390990973 | 0.019015718 | 0.034 | 1 | 57480 | PLEKHG1 |
| -0.390990973 | 0.019015718 | 0.031 | 1 | 84933 | C8orf76 |
| -0.390990973 | 0.019015718 | 0.036 | 1 | 124923 | SGK494 |
| -0.390990973 | 0.019015718 | 0.02 | 1 | 148418 | SAMD13 |
| -0.391248375 | 0.018931873 | 0.038 | 1 | 90507 | SCRN2 |
| -0.391248375 | 0.018931873 | 0.036 | 1 | 124857 | WFIKKN2 |
| -0.391505778 | 0.018848347 | 0.03 | 1 | 29909 | GPR171 |
| -0.39176318 | 0.018765122 | 0.035 | 1 | 5069 | PAPPA |
| -0.39176318 | 0.018765122 | 0.03 | 1 | 84264 | HAGHL |
| -0.392020613 | 0.018682206 | 0.023 | 1 | 10517 | FBXW10 |
| -0.392020613 | 0.018682206 | 0.025 | 1 | 57493 | HEG1 |
| -0.392020613 | 0.018682206 | 0.023 | 1 | 114789 | SLC25A25 |
| -0.392277986 | 0.018599564 | 0.028 | 1 | 22890 | ZBTB1 |
| -0.392277986 | 0.018599564 | 0.021 | 1 | 100132356 | LOC100132356 |
| -0.392535388 | 0.018517267 | 0.036 | 1 | 23086 | EXPH5 |
| -0.392792791 | 0.018435284 | 0.033 | 1 | 919 | CD247 |
| -0.393050194 | 0.0183536 | 0.033 | 1 | 79652 | TMEM204 |
| -0.393050194 | 0.0183536 | 0.025 | 1 | 130340 | AP1S3 |
| -0.393050194 | 0.0183536 | 0.037 | 1 | 165904 | XIRP1 |
| -0.393307596 | 0.018272186 | 0.027 | 1 | 25921 | ZDHHC5 |
| -0.393564999 | 0.018191112 | 0.025 | 1 | 3861 | KRT14 |

| voxel-wise, subcortex | | | |
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| Spearman's corr coef | p-val | GenID | Gene |
| -0.318076134 | < 0.001 | 256126 | SYCE2 |
| -0.318122923 | < 0.001 | 400891 | AC002472.1 |
| -0.31818682 | < 0.001 | 23410 | SIRT3 |
| -0.318308681 | < 0.001 | 653857 | RP5-820A21.1 |
| -0.318549365 | < 0.001 | 3858 | KRT10 |
| -0.318693608 | < 0.001 | 64388 | GREM2 |
| -0.31872797 | < 0.001 | 5499 | PPP1CA |
| -0.318743378 | < 0.001 | 55815 | TSNAXIP1 |
| -0.31885156 | < 0.001 | 55769 | ZNF83 |
| -0.31887126 | < 0.001 | 7545 | ZIC1 |
| -0.31892547 | < 0.001 | 7124 | TNF |
| -0.319322407 | < 0.001 | 401190 | RGS7BP |
| -0.319399387 | < 0.001 | 26045 | LRRTM2 |
| -0.319411814 | < 0.001 | 55626 | AMBRA1 |
| -0.319428831 | < 0.001 | 440854 | CAPN14 |
| -0.319711119 | < 0.001 | 7436 | VLDLR |
| -0.319711417 | < 0.001 | 6746 | SSR2 |
| -0.319743633 | < 0.001 | 11186 | RASSF1 |
| -0.319830358 | < 0.001 | 121504 | HIST4H4 |
| -0.319877177 | < 0.001 | 26507 | CNNM1 |
| -0.319919348 | < 0.001 | 23607 | CD2AP |
| -0.319946557 | < 0.001 | 51809 | GALNT7 |
| -0.32008639 | < 0.001 | 90594 | ZNF439 |
| -0.320226729 | < 0.001 | 1051 | CEBPB |
| -0.320386559 | < 0.001 | 6584 | SLC22A5 |
| -0.320471883 | < 0.001 | 10993 | SDS |
| -0.320513874 | < 0.001 | 6263 | RYR3 |
| -0.320527226 | < 0.001 | 1814 | DRD3 |
| -0.320549518 | < 0.001 | 9518 | GDF15 |
| -0.320555478 | < 0.001 | 717 | C2 |
| -0.320817351 | < 0.001 | 27161 | EIF2C2 |
| -0.321078956 | < 0.001 | 100303728 | RP3-404F18.2 |
| -0.321105599 | < 0.001 | 79958 | DENND1C |
| -0.321295232 | < 0.001 | 132299 | OCIAD2 |
| -0.321426928 | < 0.001 | 374403 | TBC1D10C |
| -0.321451068 | < 0.001 | 2030 | SLC29A1 |
| -0.321485251 | < 0.001 | 9970 | NR1I3 |
| -0.321501136 | < 0.001 | 129530 | LYG1 |
| -0.321562886 | < 0.001 | 26223 | FBXL21 |
| -0.32161358 | < 0.001 | 9293 | GPR52 |
| -0.321681738 | < 0.001 | 57602 | USP36 |
| -0.321737945 | < 0.001 | 90952 | ESAM |
| -0.321766526 | < 0.001 | 2948 | GSTM4 |
| -0.321771652 | < 0.001 | 84108 | PCGF6 |
| -0.321870178 | < 0.001 | 5725 | PTBP1 |
| -0.321981788 | < 0.001 | 57003 | CCDC47 |
| -0.322038263 | < 0.001 | 23102 | TBC1D2B |
| -0.322054058 | < 0.001 | 9861 | PSMD6 |
| -0.322206825 | < 0.001 | 467 | ATF3 |
| -0.322548926 | < 0.001 | 26207 | PITPNC1 |
| -0.322562665 | < 0.001 | 554235 | ASPDH |
| -0.322609663 | < 0.001 | 386680 | KRTAP10-5 |
| -0.322977215 | < 0.001 | 84417 | C2orf40 |
| -0.323024035 | < 0.001 | 828 | CAPS |
| -0.323114008 | < 0.001 | 353333 | KRTAP10-10 |
| -0.323147088 | < 0.001 | 23085 | ERC1 |
| -0.323174298 | < 0.001 | 3915 | LAMC1 |
| -0.323230952 | < 0.001 | 1286 | COL4A4 |
| -0.323243022 | < 0.001 | 11043 | MID2 |
| -0.32340312 | < 0.001 | 201780 | SLC10A4 |
| -0.323556811 | < 0.001 | 1636 | ACE |
| -0.323591262 | < 0.001 | 574036 | C1orf133 |
| -0.323671967 | < 0.001 | 4860 | PNP |
| -0.323788315 | < 0.001 | 159195 | USP54 |
| -0.323810965 | < 0.001 | 9122 | SLC16A4 |
| -0.323846817 | < 0.001 | 256374 | LOC256374 |
| -0.323909968 | < 0.001 | 60672 | MIIP |
| -0.324428618 | < 0.001 | 835 | CASP2 |
| -0.324576557 | < 0.001 | 53373 | TPCN1 |
| -0.3246153 | < 0.001 | 10398 | MYL9 |
| -0.324718833 | < 0.001 | 3690 | ITGB3 |
| -0.324748546 | < 0.001 | 80755 | AARSD1 |
| -0.325145364 | < 0.001 | 54874 | FNBP1L |
| -0.32520926 | < 0.001 | 6330 | SCN4B |
| -0.325256795 | < 0.001 | 63916 | ELMO2 |
| -0.325309277 | < 0.001 | 5359 | PLSCR1 |
| -0.325582117 | < 0.001 | 55073 | LRRC37A4P |
| -0.325740278 | < 0.001 | 84171 | LOXL4 |
| -0.325741023 | < 0.001 | 200958 | MUC20 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.393564999 | 0.018191112 | 0.032 | 1 | 5617 | PRL |
| -0.393822372 | 0.018110352 | 0.027 | 1 | 81698 | LINC00597 |
| -0.394079804 | 0.018029882 | 0.028 | 1 | 285513 | GPRIN3 |
| -0.394337177 | 0.017949682 | 0.019 | 1 | 3640 | INSL3 |
| -0.39459461 | 0.017869817 | 0.023 | 1 | 84164 | ASCC2 |
| -0.394851983 | 0.017790254 | 0.023 | 1 | 222235 | FBXL13 |
| -0.395109385 | 0.017710999 | 0.039 | 1 | 1807 | DPYS |
| -0.395109385 | 0.017710999 | 0.028 | 1 | 8528 | DDO |
| -0.395109385 | 0.017710999 | 0.025 | 1 | 29062 | WDR91 |
| -0.395109385 | 0.017710999 | 0.032 | 1 | 29803 | REPIN1 |
| -0.395109385 | 0.017710999 | 0.022 | 1 | 135228 | CD109 |
| -0.395109385 | 0.017710999 | 0.026 | 1 | 654254 | ZNF732 |
| -0.395366788 | 0.017632039 | 0.036 | 1 | 1396 | CRIP1 |
| -0.395366788 | 0.017632039 | 0.032 | 1 | 3090 | HIC1 |
| -0.395366788 | 0.017632039 | 0.026 | 1 | 10398 | MYL9 |
| -0.395366788 | 0.017632039 | 0.027 | 1 | 25812 | POM121L1P |
| -0.395366788 | 0.017632039 | 0.022 | 1 | 130399 | ACVR1C |
| -0.395624191 | 0.017553328 | 0.025 | 1 | 2268 | FGR |
| -0.395624191 | 0.017553328 | 0.02 | 1 | 147923 | ZNF420 |
| -0.395624191 | 0.017553328 | 0.028 | 1 | 389136 | VGLL3 |
| -0.395881593 | 0.017474962 | 0.028 | 1 | 7712 | ZNF157 |
| -0.395881593 | 0.017474962 | 0.03 | 1 | 90693 | CCDC126 |
| -0.395881593 | 0.017474962 | 0.031 | 1 | 122953 | JDP2 |
| -0.396138996 | 0.017396878 | 0.018 | 1 | 5366 | PMAIP1 |
| -0.396138996 | 0.017396878 | 0.024 | 1 | 441416 | GPR116P2 |
| -0.396653801 | 0.017241584 | 0.019 | 1 | 668 | FOXL2 |
| -0.396653801 | 0.017241584 | 0.027 | 1 | 9022 | CLIC3 |
| -0.396911174 | 0.017164389 | 0.025 | 1 | 2784 | GNB3 |
| -0.396911174 | 0.017164389 | 0.024 | 1 | 3625 | INHBB |
| -0.396911174 | 0.017164389 | 0.025 | 1 | 8631 | SKAP1 |
| -0.396911174 | 0.017164389 | 0.025 | 1 | 9828 | ARHGEF17 |
| -0.397168607 | 0.017087493 | 0.039 | 1 | 9748 | SLK |
| -0.397168607 | 0.017087493 | 0.028 | 1 | 400891 | AC002472.1 |
| -0.397425979 | 0.017010875 | 0.035 | 1 | 2977 | GUCY1A2 |
| -0.397425979 | 0.017010875 | 0.019 | 1 | 50834 | TAS2R1 |
| -0.397683382 | 0.016934531 | 0.023 | 1 | 1040 | CDS1 |
| -0.397683382 | 0.016934531 | 0.022 | 1 | 1071 | CETP |
| -0.397683382 | 0.016934531 | 0.035 | 1 | 1663 | DDX11 |
| -0.397683382 | 0.016934531 | 0.022 | 1 | 9778 | KIAA0232 |
| -0.397940785 | 0.016858498 | 0.027 | 1 | 64766 | S100PBP |
| -0.398198187 | 0.016782759 | 0.023 | 1 | 55759 | WDR12 |
| -0.39845559 | 0.016707312 | 0.026 | 1 | 9934 | P2RY14 |
| -0.39845559 | 0.016707312 | 0.018 | 1 | 55753 | OGDHL |
| -0.39845559 | 0.016707312 | 0.028 | 1 | 168537 | GIMAP7 |
| -0.39845559 | 0.016707312 | 0.021 | 1 | 169611 | OLFML2A |
| -0.39845559 | 0.016707312 | 0.031 | 1 | 390429 | OR4N2 |
| -0.398712993 | 0.016632138 | 0.023 | 1 | 3710 | ITPR3 |
| -0.398712993 | 0.016632138 | 0.027 | 1 | 400579 | FLJ35934 |
| -0.399227798 | 0.016482646 | 0.022 | 1 | 23401 | FRAT2 |
| -0.399227798 | 0.016482646 | 0.032 | 1 | 84101 | USP44 |
| -0.399227798 | 0.016482646 | 0.022 | 1 | 92797 | HELB |
| -0.399742603 | 0.01633431 | 0.024 | 1 | 56102 | PCDHGB3 |
| -0.399742603 | 0.01633431 | 0.016 | 1 | 64852 | TUT1 |
| -0.399742603 | 0.01633431 | 0.026 | 1 | 83714 | NRIP2 |
| -0.399742603 | 0.01633431 | 0.021 | 1 | 641700 | ECSCR |
| -0.400000006 | 0.016260525 | 0.024 | 1 | 4324 | MMP15 |
| -0.400000006 | 0.016260525 | 0.027 | 1 | 5211 | PFKL |
| -0.400000006 | 0.016260525 | 0.023 | 1 | 29984 | RHOD |
| -0.400000006 | 0.016260525 | 0.031 | 1 | 158228 | FAM201A |
| -0.400257379 | 0.01618707 | 0.027 | 1 | 22878 | KIAA1012 |
| -0.400257379 | 0.01618707 | 0.025 | 1 | 152831 | KLB |
| -0.400514811 | 0.0161139 | 0.025 | 1 | 7652 | ZNF99 |
| -0.400514811 | 0.0161139 | 0.024 | 1 | 8436 | SDPR |
| -0.400514811 | 0.0161139 | 0.022 | 1 | 9120 | SLC16A6 |
| -0.400514811 | 0.0161139 | 0.026 | 1 | 10052 | GJC1 |
| -0.400772184 | 0.016040992 | 0.025 | 1 | 1209 | CLPTM1 |
| -0.401029617 | 0.015968347 | 0.035 | 1 | 23415 | KCNH4 |
| -0.401029617 | 0.015968347 | 0.022 | 1 | 55920 | RCC2 |
| -0.401029617 | 0.015968347 | 0.029 | 1 | 90102 | PHLDB2 |
| -0.401286989 | 0.015895996 | 0.026 | 1 | 857 | CAV1 |
| -0.401286989 | 0.015895996 | 0.02 | 1 | 80144 | FRAS1 |
| -0.401544392 | 0.01582394 | 0.024 | 1 | 6569 | SLC34A1 |
| -0.401544392 | 0.01582394 | 0.028 | 1 | 23361 | ZNF629 |
| -0.401801795 | 0.015752161 | 0.019 | 1 | 55808 | ST6GALNAC1 |
| -0.401801795 | 0.015752161 | 0.023 | 1 | 64118 | DUS1L |
| -0.402059197 | 0.015680641 | 0.028 | 1 | 90113 | VWA5B2 |
| -0.4023166 | 0.015609383 | 0.019 | 1 | 9122 | SLC16A4 |
| -0.4023166 | 0.015609383 | 0.025 | 1 | 400916 | CHCHD10 |
| -0.402574003 | 0.015538413 | 0.033 | 1 | 757 | TMEM50B |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.325921744 | < 0.001 | 114224 | PRO2852 |
| -0.325993329 | < 0.001 | 80185 | C8orf41 |
| -0.326028258 | < 0.001 | 1602 | DACH1 |
| -0.326046824 | < 0.001 | 583 | BBS2 |
| -0.326085716 | < 0.001 | 63892 | THADA |
| -0.326190382 | < 0.001 | 2550 | GABBR1 |
| -0.32621035 | < 0.001 | 7424 | VEGFC |
| -0.32638225 | < 0.001 | 8884 | SLC5A6 |
| -0.326401949 | < 0.001 | 55753 | OGDHL |
| -0.326518565 | < 0.001 | 79834 | AC107883.1 |
| -0.326565295 | < 0.001 | 1104 | RCC1 |
| -0.326573849 | < 0.001 | 284273 | ZADH2 |
| -0.326588243 | < 0.001 | 29090 | C18orf55 |
| -0.326902777 | < 0.001 | 4239 | MFAP4 |
| -0.326907784 | < 0.001 | 80168 | MOGAT2 |
| -0.326911598 | < 0.001 | 93190 | C1orf158 |
| -0.327053666 | < 0.001 | 441054 | C4orf47 |
| -0.327187479 | < 0.001 | 5108 | PCM1 |
| -0.327258438 | < 0.001 | 7083 | TK1 |
| -0.327341557 | < 0.001 | 79609 | C14orf138 |
| -0.327379644 | < 0.001 | 440193 | CCDC88C |
| -0.327572614 | < 0.001 | 387640 | C10orf140 |
| -0.327617079 | < 0.001 | 416 | ARSF |
| -0.327629805 | < 0.001 | 55632 | G2E3 |
| -0.327682555 | < 0.001 | 4969 | OGN |
| -0.327859938 | < 0.001 | 9794 | MAML1 |
| -0.327924371 | < 0.001 | 6664 | SOX11 |
| -0.328027666 | < 0.001 | 8846 | ALKBH1 |
| -0.328220814 | < 0.001 | 400931 | RP4-695O20__B.1 |
| -0.328255922 | < 0.001 | 7052 | TGM2 |
| -0.32840088 | < 0.001 | 653641 | GOLGA6C |
| -0.328435719 | < 0.001 | 79177 | ZNF576 |
| -0.32851845 | < 0.001 | 4357 | MPST |
| -0.328521132 | < 0.001 | 8483 | CILP |
| -0.328529507 | < 0.001 | 79652 | TMEM204 |
| -0.328598976 | < 0.001 | 84922 | FIZ1 |
| -0.328614295 | < 0.001 | 219681 | ARMC3 |
| -0.32866323 | < 0.001 | 171019 | ADAMTS19 |
| -0.32872358 | < 0.001 | 4615 | MYD88 |
| -0.328795284 | < 0.001 | 92283 | ZNF461 |
| -0.328818679 | < 0.001 | 723972 | ANP32AP1 |
| -0.328837067 | < 0.001 | 4778 | NFE2 |
| -0.328910619 | < 0.001 | 92797 | HELB |
| -0.329013705 | < 0.001 | 167465 | ZNF366 |
| -0.329563379 | < 0.001 | 3685 | ITGAV |
| -0.329869002 | < 0.001 | 100289574 | AC133485.2 |
| -0.3300291 | < 0.001 | 93556 | EGFEM1P |
| -0.330039501 | < 0.001 | 4053 | LTBP2 |
| -0.330213517 | < 0.001 | 9435 | CHST2 |
| -0.33074072 | < 0.001 | 56287 | GKN1 |
| -0.330813438 | < 0.001 | 55268 | ECHDC2 |
| -0.330847621 | < 0.001 | 56102 | PCDHGB3 |
| -0.330972522 | < 0.001 | 341 | APOC1 |
| -0.33127296 | < 0.001 | 84838 | ZNF496 |
| -0.331330895 | < 0.001 | 115811 | IQCD |
| -0.331397653 | < 0.001 | 647024 | C6orf132 |
| -0.331418186 | < 0.001 | 317762 | CCDC85C |
| -0.331641257 | < 0.001 | 9254 | CACNA2D2 |
| -0.331679612 | < 0.001 | 56985 | C17orf48 |
| -0.332050592 | < 0.001 | 4635 | MYL4 |
| -0.332127035 | < 0.001 | 28987 | NOB1 |
| -0.332321018 | < 0.001 | 79891 | ZNF671 |
| -0.332331419 | < 0.001 | 9314 | KLF4 |
| -0.332393646 | < 0.001 | 23169 | SLC35D1 |
| -0.33250761 | < 0.001 | 25896 | INTS7 |
| -0.332670778 | < 0.001 | 54429 | TAS2R5 |
| -0.332675785 | < 0.001 | 3235 | HOXD9 |
| -0.332758248 | < 0.001 | 400566 | C17orf97 |
| -0.332826793 | < 0.001 | 25988 | HINFP |
| -0.333127111 | < 0.001 | 84709 | C4orf49 |
| -0.333131015 | < 0.001 | 3739 | KCNA4 |
| -0.333135098 | < 0.001 | 2633 | GBP1 |
| -0.333412588 | < 0.001 | 7072 | TIA1 |
| -0.333527356 | < 0.001 | 2889 | RAPGEF1 |
| -0.333706886 | < 0.001 | 440689 | HIST2H2BF |
| -0.333726466 | < 0.001 | 138716 | C9orf23 |
| -0.333796859 | < 0.001 | 149478 | RP11-269F19.1 |
| -0.333918601 | < 0.001 | 7691 | ZNF132 |
| -0.333942205 | < 0.001 | 10324 | KBTBD10 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.402574003 | 0.015538413 | 0.02 | 1 | 401508 | FAM74A4 |
| -0.402831376 | 0.015467734 | 0.027 | 1 | 79041 | TMEM38A |
| -0.403088808 | 0.015397327 | 0.02 | 1 | 1297 | COL9A1 |
| -0.403088808 | 0.015397327 | 0.02 | 1 | 26090 | ABHD12 |
| -0.403088808 | 0.015397327 | 0.022 | 1 | 79177 | ZNF576 |
| -0.403088808 | 0.015397327 | 0.019 | 1 | 131601 | GPR175 |
| -0.403088808 | 0.015397327 | 0.022 | 1 | 162137 | MGC34800 |
| -0.403346181 | 0.015327144 | 0.025 | 1 | 8553 | BHLHE40 |
| -0.403346181 | 0.015327144 | 0.027 | 1 | 50838 | TAS2R13 |
| -0.403603613 | 0.01525728 | 0.025 | 1 | 3737 | KCNA2 |
| -0.403603613 | 0.01525728 | 0.026 | 1 | 6493 | SIM2 |
| -0.403603613 | 0.01525728 | 0.021 | 1 | 83743 | GRWD1 |
| -0.403860986 | 0.015187671 | 0.021 | 1 | 866 | SERPINA6 |
| -0.403860986 | 0.015187671 | 0.025 | 1 | 285203 | C3orf64 |
| -0.404118389 | 0.015118347 | 0.025 | 1 | 6875 | TAF4B |
| -0.404118389 | 0.015118347 | 0.022 | 1 | 131544 | CRYBG3 |
| -0.404375792 | 0.015049292 | 0.026 | 1 | 8833 | GMPS |
| -0.404375792 | 0.015049292 | 0.012 | 1 | 84838 | ZNF496 |
| -0.404633194 | 0.014980458 | 0.025 | 1 | 4969 | OGN |
| -0.404890597 | 0.014911937 | 0.035 | 1 | 22894 | DIS3 |
| -0.405148 | 0.014843669 | 0.02 | 1 | 1638 | DCT |
| -0.405148 | 0.014843669 | 0.023 | 1 | 3814 | KISS1 |
| -0.405148 | 0.014843669 | 0.022 | 1 | 246329 | STAC3 |
| -0.405148 | 0.014843669 | 0.024 | 1 | 439921 | MXRA7 |
| -0.405405372 | 0.014775679 | 0.015 | 1 | 440119 | RP11-143E21.7 |
| -0.405662805 | 0.014707925 | 0.027 | 1 | 222183 | AC005077.3 |
| -0.405662805 | 0.014707925 | 0.02 | 1 | 341350 | OVCH1 |
| -0.405662805 | 0.014707925 | 0.019 | 1 | 389834 | LOC389834 |
| -0.405920208 | 0.014640447 | 0.018 | 1 | 2277 | FIGF |
| -0.405920208 | 0.014640447 | 0.032 | 1 | 4914 | NTRK1 |
| -0.405920208 | 0.014640447 | 0.031 | 1 | 81621 | KAZALD1 |
| -0.405920208 | 0.014640447 | 0.023 | 1 | 257415 | FAM133B |
| -0.406435013 | 0.0145063 | 0.025 | 1 | 26045 | LRRTM2 |
| -0.406692386 | 0.014439595 | 0.028 | 1 | 57106 | NAT14 |
| -0.406692386 | 0.014439595 | 0.023 | 1 | 84864 | MINA |
| -0.406692386 | 0.014439595 | 0.025 | 1 | 728264 | MIR143HG |
| -0.406949818 | 0.014373181 | 0.024 | 1 | 114044 | MCM3AP-AS1 |
| -0.407464623 | 0.014241118 | 0.026 | 1 | 7048 | TGFBR2 |
| -0.407721996 | 0.014175464 | 0.022 | 1 | 1164 | CKS2 |
| -0.407721996 | 0.014175464 | 0.022 | 1 | 5596 | MAPK4 |
| -0.407721996 | 0.014175464 | 0.016 | 1 | 153643 | FAM81B |
| -0.407721996 | 0.014175464 | 0.021 | 1 | 285955 | SPDYE1 |
| -0.407979399 | 0.014110055 | 0.016 | 1 | 3248 | HPGD |
| -0.407979399 | 0.014110055 | 0.021 | 1 | 9688 | NUP93 |
| -0.407979399 | 0.014110055 | 0.025 | 1 | 729648 | ZNF812 |
| -0.408236802 | 0.014044932 | 0.02 | 1 | 6581 | SLC22A3 |
| -0.408236802 | 0.014044932 | 0.022 | 1 | 55612 | FERMT1 |
| -0.408494204 | 0.013980049 | 0.028 | 1 | 26524 | LATS2 |
| -0.408494204 | 0.013980049 | 0.024 | 1 | 56253 | CRTAM |
| -0.408751607 | 0.013915436 | 0.018 | 1 | 284185 | LINC00482 |
| -0.40900901 | 0.013851049 | 0.016 | 1 | 10595 | ERN2 |
| -0.409266382 | 0.013786931 | 0.017 | 1 | 305 | ANXA2P3 |
| -0.409523815 | 0.013723077 | 0.031 | 1 | 144568 | A2ML1 |
| -0.409781188 | 0.013659461 | 0.025 | 1 | 283554 | GPR137C |
| -0.410295993 | 0.013532983 | 0.014 | 1 | 7186 | TRAF2 |
| -0.410295993 | 0.013532983 | 0.022 | 1 | 25817 | FAM19A5 |
| -0.410295993 | 0.013532983 | 0.024 | 1 | 54830 | NUP62CL |
| -0.410553396 | 0.013470119 | 0.019 | 1 | 7046 | TGFBR1 |
| -0.410810798 | 0.013407516 | 0.017 | 1 | 1029 | CDKN2A |
| -0.410810798 | 0.013407516 | 0.027 | 1 | 9480 | ONECUT2 |
| -0.410810798 | 0.013407516 | 0.022 | 1 | 252995 | FNDC5 |
| -0.410810798 | 0.013407516 | 0.021 | 1 | 286144 | C8orf83 |
| -0.411068201 | 0.013345155 | 0.021 | 1 | 57419 | SLC24A3 |
| -0.411325604 | 0.013283013 | 0.024 | 1 | 9080 | CLDN9 |
| -0.411325604 | 0.013283013 | 0.026 | 1 | 9569 | GTF2IRD1 |
| -0.411325604 | 0.013283013 | 0.024 | 1 | 283578 | TMED8 |
| -0.411583006 | 0.013221152 | 0.02 | 1 | 79940 | LINC00472 |
| -0.411840379 | 0.013159524 | 0.023 | 1 | 142684 | RAB40A |
| -0.412097812 | 0.013098152 | 0.02 | 1 | 9663 | LPIN2 |
| -0.412355185 | 0.013036985 | 0.025 | 1 | 5015 | OTX2 |
| -0.41287002 | 0.012915459 | 0.02 | 1 | 220002 | CYBASC3 |
| -0.413127393 | 0.012855047 | 0.02 | 1 | 22996 | TTC39A |
| -0.413127393 | 0.012855047 | 0.026 | 1 | 79190 | IRX6 |
| -0.413127393 | 0.012855047 | 0.023 | 1 | 219983 | OR4D6 |
| -0.413384825 | 0.012794862 | 0.025 | 1 | 5634 | PRPS2 |
| -0.413384825 | 0.012794862 | 0.018 | 1 | 257240 | KLHL34 |
| -0.413642198 | 0.012734929 | 0.016 | 1 | 157869 | C8orf84 |
| -0.41389963 | 0.01267525 | 0.016 | 1 | 286410 | ATP11C |
| -0.414157003 | 0.012615808 | 0.027 | 1 | 2652 | OPN1MW |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.334201932 | < 0.001 | 114785 | MBD6 |
| -0.334436059 | < 0.001 | 23554 | TSPAN12 |
| -0.334525585 | < 0.001 | 5325 | PLAGL1 |
| -0.334686339 | < 0.001 | 83886 | PRSS27 |
| -0.334823489 | < 0.001 | 85376 | RIMBP3 |
| -0.334831744 | < 0.001 | 55316 | RSAD1 |
| -0.334974855 | < 0.001 | 643036 | SLED1 |
| -0.334982485 | < 0.001 | 6295 | SAG |
| -0.335039675 | < 0.001 | 203062 | TSNARE1 |
| -0.335152239 | < 0.001 | 57688 | ZSWIM6 |
| -0.335437149 | < 0.001 | 10194 | TSHZ1 |
| -0.336012453 | < 0.001 | 91646 | TDRD12 |
| -0.336017668 | < 0.001 | 23212 | RRS1 |
| -0.336052388 | < 0.001 | 57096 | RPGRIP1 |
| -0.336159378 | < 0.001 | 55646 | LYAR |
| -0.336363852 | < 0.001 | 22995 | CEP152 |
| -0.336625755 | < 0.001 | 1804 | DPP6 |
| -0.336671621 | < 0.001 | 7980 | TFPI2 |
| -0.336732924 | < 0.001 | 55066 | PDPR |
| -0.336929053 | < 0.001 | 388284 | C16orf86 |
| -0.337075949 | < 0.001 | 1396 | CRIP1 |
| -0.337150812 | < 0.001 | 83857 | TMTC1 |
| -0.337164551 | < 0.001 | 84787 | SUV420H2 |
| -0.337212473 | < 0.001 | 7351 | UCP2 |
| -0.337277472 | < 0.001 | 79572 | ATP13A3 |
| -0.33733356 | < 0.001 | 51593 | SRRT |
| -0.337441474 | < 0.001 | 1647 | GADD45A |
| -0.337545037 | < 0.001 | 10667 | FARS2 |
| -0.337558568 | < 0.001 | 113878 | DTX2 |
| -0.337904781 | < 0.001 | 23415 | KCNH4 |
| -0.338062018 | < 0.001 | 374897 | SBSN |
| -0.338142604 | < 0.001 | 9427 | ECEL1 |
| -0.338647813 | < 0.001 | 1506 | CTRL |
| -0.33875525 | < 0.001 | 5501 | PPP1CC |
| -0.338860482 | < 0.001 | 91977 | MYOZ3 |
| -0.338948131 | < 0.001 | 23256 | SCFD1 |
| -0.339609981 | < 0.001 | 284427 | SLC25A41 |
| -0.339745939 | < 0.001 | 23037 | PDZD2 |
| -0.339796454 | < 0.001 | 8874 | ARHGEF7 |
| -0.340001702 | < 0.001 | 9868 | TOMM70A |
| -0.340017587 | < 0.001 | 8720 | MBTPS1 |
| -0.340039134 | < 0.001 | 27086 | FOXP1 |
| -0.340125769 | < 0.001 | 2135 | EXTL2 |
| -0.340595394 | < 0.001 | 91392 | ZNF502 |
| -0.340608209 | < 0.001 | 8565 | YARS |
| -0.340813637 | < 0.001 | 119391 | GSTO2 |
| -0.340991378 | < 0.001 | 64170 | CARD9 |
| -0.341031015 | < 0.001 | 23105 | FSTL4 |
| -0.341044664 | < 0.001 | 112752 | C14orf179 |
| -0.341124177 | < 0.001 | 340547 | VSIG1 |
| -0.341353834 | < 0.001 | 7857 | SCG2 |
| -0.341444641 | < 0.001 | 55703 | POLR3B |
| -0.341473818 | < 0.001 | 348807 | CCDC37 |
| -0.341525078 | < 0.001 | 199704 | ZNF585A |
| -0.34167859 | < 0.001 | 339403 | RXFP4 |
| -0.341884941 | < 0.001 | 1005 | CDH7 |
| -0.342031002 | < 0.001 | 219931 | TPCN2 |
| -0.342110395 | < 0.001 | 57643 | ZSWIM5 |
| -0.342121542 | < 0.001 | 79854 | LINC00115 |
| -0.342163533 | < 0.001 | 3263 | HPX |
| -0.342360973 | < 0.001 | 284233 | CYP4F35P |
| -0.342523277 | < 0.001 | 283521 | LINC00282 |
| -0.34258616 | < 0.001 | 151887 | CCDC80 |
| -0.342936456 | < 0.001 | 56474 | CTPS2 |
| -0.343009919 | < 0.001 | 399665 | FAM102A |
| -0.343136579 | < 0.001 | 376940 | ZC3H6 |
| -0.343257487 | < 0.001 | 339829 | CCDC39 |
| -0.343319237 | < 0.001 | 29990 | PILRB |
| -0.34341535 | < 0.001 | 339327 | ZNF546 |
| -0.343443215 | < 0.001 | 284076 | TTLL6 |
| -0.343519926 | < 0.001 | 2444 | FRK |
| -0.343562633 | < 0.001 | 3976 | LIF |
| -0.343837172 | < 0.001 | 23584 | VSIG2 |
| -0.344134688 | < 0.001 | 79006 | METRN |
| -0.344153285 | < 0.001 | 8702 | B4GALT4 |
| -0.344320714 | < 0.001 | 165904 | XIRP1 |
| -0.344337702 | < 0.001 | 84795 | PYROXD2 |
| -0.344418675 | < 0.001 | 9663 | LPIN2 |
| -0.344610184 | < 0.001 | 284029 | LINC00324 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.414414406 | 0.012556599 | 0.024 | 1 | 858 | CAV2 |
| -0.414414406 | 0.012556599 | 0.014 | 1 | 51126 | NAT5 |
| -0.414414406 | 0.012556599 | 0.018 | 1 | 408186 | OVOS |
| -0.414929211 | 0.012438864 | 0.023 | 1 | 283870 | C16orf79 |
| -0.415186614 | 0.012380364 | 0.017 | 1 | 54763 | ROPN1 |
| -0.415186614 | 0.012380364 | 0.022 | 1 | 150209 | AIFM3 |
| -0.415186614 | 0.012380364 | 0.027 | 1 | 728978 | RP11-790G19.2 |
| -0.415701389 | 0.012264041 | 0.022 | 1 | 9322 | TRIP10 |
| -0.415958822 | 0.012206248 | 0.019 | 1 | 258 | AMBN |
| -0.415958822 | 0.012206248 | 0.02 | 1 | 3045 | HBD |
| -0.415958822 | 0.012206248 | 0.015 | 1 | 146395 | GSG1L |
| -0.416216195 | 0.012148682 | 0.015 | 1 | 2302 | FOXJ1 |
| -0.416473627 | 0.012091348 | 0.018 | 1 | 4318 | MMP9 |
| -0.416731 | 0.012034226 | 0.016 | 1 | 7052 | TGM2 |
| -0.416731 | 0.012034226 | 0.021 | 1 | 9452 | ITM2A |
| -0.416731 | 0.012034226 | 0.019 | 1 | 79175 | ZNF343 |
| -0.416731 | 0.012034226 | 0.023 | 1 | 79788 | ZNF665 |
| -0.416988403 | 0.011977348 | 0.016 | 1 | 2304 | FOXE1 |
| -0.416988403 | 0.011977348 | 0.017 | 1 | 3736 | KCNA1 |
| -0.416988403 | 0.011977348 | 0.022 | 1 | 56140 | PCDHA8 |
| -0.416988403 | 0.011977348 | 0.018 | 1 | 403277 | OR5K3 |
| -0.417245805 | 0.01192071 | 0.009 | 1 | 57194 | ATP10A |
| -0.417245805 | 0.01192071 | 0.022 | 1 | 114822 | RHPN1 |
| -0.417245805 | 0.01192071 | 0.016 | 1 | 100130256 | LOC100130256 |
| -0.417503208 | 0.011864296 | 0.025 | 1 | 6442 | SGCA |
| -0.417503208 | 0.011864296 | 0.02 | 1 | 10747 | MASP2 |
| -0.417503208 | 0.011864296 | 0.017 | 1 | 132014 | IL17RE |
| -0.417503208 | 0.011864296 | 0.019 | 1 | 388730 | TMEM81 |
| -0.417760611 | 0.011808117 | 0.018 | 1 | 55824 | PAG1 |
| -0.418018013 | 0.011752132 | 0.024 | 1 | 7367 | UGT2B17 |
| -0.418018013 | 0.011752132 | 0.017 | 1 | 163051 | ZNF709 |
| -0.418018013 | 0.011752132 | 0.014 | 1 | 386677 | KRTAP10-1 |
| -0.418275386 | 0.011696401 | 0.024 | 1 | 6014 | RIT2 |
| -0.418275386 | 0.011696401 | 0.017 | 1 | 9457 | FHL5 |
| -0.418275386 | 0.011696401 | 0.036 | 1 | 26268 | FBXO9 |
| -0.418275386 | 0.011696401 | 0.024 | 1 | 83955 | NACAP1 |
| -0.418790191 | 0.011585613 | 0.016 | 1 | 127833 | SYT2 |
| -0.419047624 | 0.011530533 | 0.018 | 1 | 29952 | DPP7 |
| -0.419047624 | 0.011530533 | 0.016 | 1 | 64427 | TTC31 |
| -0.419047624 | 0.011530533 | 0.017 | 1 | 84945 | ABHD13 |
| -0.419304997 | 0.011475705 | 0.028 | 1 | 10003 | NAALAD2 |
| -0.419304997 | 0.011475705 | 0.025 | 1 | 80323 | CCDC68 |
| -0.419304997 | 0.011475705 | 0.024 | 1 | 728485 | LOC728485 |
| -0.419562399 | 0.011421096 | 0.019 | 1 | 2676 | GFRA3 |
| -0.419562399 | 0.011421096 | 0.02 | 1 | 5590 | PRKCZ |
| -0.419819832 | 0.011366708 | 0.019 | 1 | 49 | ACR |
| -0.419819832 | 0.011366708 | 0.024 | 1 | 50831 | TAS2R3 |
| -0.419819832 | 0.011366708 | 0.02 | 1 | 221178 | SPATA13 |
| -0.420077205 | 0.011312517 | 0.021 | 1 | 201501 | ZBTB7C |
| -0.420334637 | 0.011258571 | 0.014 | 1 | 4824 | NKX3-1 |
| -0.42059201 | 0.011204853 | 0.019 | 1 | 165545 | DQX1 |
| -0.42059201 | 0.011204853 | 0.016 | 1 | 221294 | NT5DC1 |
| -0.420849413 | 0.011151346 | 0.02 | 1 | 64332 | NFKBIZ |
| -0.421106815 | 0.011098064 | 0.02 | 1 | 4081 | MAB21L1 |
| -0.421106815 | 0.011098064 | 0.019 | 1 | 9909 | DENND4B |
| -0.421106815 | 0.011098064 | 0.014 | 1 | 56918 | C2orf83 |
| -0.421106815 | 0.011098064 | 0.018 | 1 | 339983 | NAT8L |
| -0.421364218 | 0.011044967 | 0.018 | 1 | 57096 | RPGRIP1 |
| -0.421364218 | 0.011044967 | 0.021 | 1 | 84740 | AFAP1-AS1 |
| -0.421879023 | 0.010939483 | 0.019 | 1 | 151 | ADRA2B |
| -0.421879023 | 0.010939483 | 0.017 | 1 | 23281 | MTUS2 |
| -0.421879023 | 0.010939483 | 0.014 | 1 | 171425 | CLYBL |
| -0.422651201 | 0.010782844 | 0.018 | 1 | 26225 | ARL5A |
| -0.422651201 | 0.010782844 | 0.018 | 1 | 26548 | ITGB1BP2 |
| -0.422651201 | 0.010782844 | 0.011 | 1 | 79070 | KDELC1 |
| -0.422908634 | 0.010731074 | 0.016 | 1 | 1136 | CHRNA3 |
| -0.422908634 | 0.010731074 | 0.019 | 1 | 6603 | SMARCD2 |
| -0.422908634 | 0.010731074 | 0.016 | 1 | 8743 | TNFSF10 |
| -0.423166007 | 0.010679515 | 0.013 | 1 | 2035 | EPB41 |
| -0.423166007 | 0.010679515 | 0.016 | 1 | 5456 | POU3F4 |
| -0.423423409 | 0.010628135 | 0.018 | 1 | 199704 | ZNF585A |
| -0.424195617 | 0.010475351 | 0.013 | 1 | 55599 | RNPC3 |
| -0.42445302 | 0.010424848 | 0.021 | 1 | 554235 | ASPDH |
| -0.424710393 | 0.010374518 | 0.022 | 1 | 1537 | CYC1 |
| -0.424967825 | 0.010324431 | 0.018 | 1 | 6539 | SLC6A12 |
| -0.425482631 | 0.010224866 | 0.016 | 1 | 64768 | IPPK |
| -0.425482631 | 0.010224866 | 0.02 | 1 | 100129917 | RP11-440L14.1 |
| -0.425740004 | 0.010175371 | 0.012 | 1 | 10484 | SEC23A |
| -0.425997406 | 0.010126103 | 0.014 | 1 | 26136 | TES |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.344739735 | < 0.001 | 7007 | TECTA |
| -0.344810128 | < 0.001 | 83939 | EIF2A |
| -0.345002353 | < 0.001 | 51454 | GULP1 |
| -0.345072657 | < 0.001 | 2572 | GAD2 |
| -0.345171362 | < 0.001 | 1854 | DUT |
| -0.345374078 | < 0.001 | 5649 | RELN |
| -0.345404536 | < 0.001 | 79867 | TCTN2 |
| -0.345553607 | < 0.001 | 654254 | ZNF732 |
| -0.34567219 | < 0.001 | 373861 | HILS1 |
| -0.345692068 | < 0.001 | 200030 | NBPF11 |
| -0.345721602 | < 0.001 | 348801 | LNP1 |
| -0.345726341 | < 0.001 | 79447 | C16orf53 |
| -0.345789105 | < 0.001 | 1108 | CHD4 |
| -0.345962852 | < 0.001 | 2842 | GPR19 |
| -0.34605822 | < 0.001 | 7057 | THBS1 |
| -0.346220106 | < 0.001 | 111 | ADCY5 |
| -0.346287996 | < 0.001 | 64118 | DUS1L |
| -0.346410483 | < 0.001 | 257 | ALX3 |
| -0.346562207 | < 0.001 | 22844 | FRMPD1 |
| -0.346731126 | < 0.001 | 84293 | C10orf57 |
| -0.346762061 | < 0.001 | 10878 | CFHR3 |
| -0.346798569 | < 0.001 | 56652 | C10orf2 |
| -0.346866459 | < 0.001 | 643669 | LOC643669 |
| -0.34703064 | < 0.001 | 3043 | HBB |
| -0.34728387 | < 0.001 | 266743 | NPAS4 |
| -0.34751603 | < 0.001 | 729338 | CETN4P |
| -0.34758839 | < 0.001 | 442523 | DPY19L2P4 |
| -0.347754061 | < 0.001 | 93109 | TMEM44 |
| -0.347796023 | < 0.001 | 10090 | UST |
| -0.347914636 | < 0.001 | 151126 | ZNF385B |
| -0.348035991 | < 0.001 | 3913 | LAMB2 |
| -0.348119766 | < 0.001 | 4256 | MGP |
| -0.348146141 | < 0.001 | 85002 | FAM86B1 |
| -0.348179847 | < 0.001 | 2571 | GAD1 |
| -0.348488271 | < 0.001 | 221927 | C7orf27 |
| -0.348517597 | < 0.001 | 202915 | TMEM184A |
| -0.348900765 | < 0.001 | 9673 | SLC25A44 |
| -0.34902826 | < 0.001 | 79940 | LINC00472 |
| -0.349106848 | < 0.001 | 54464 | XRN1 |
| -0.349228024 | < 0.001 | 84033 | OBSCN |
| -0.34960106 | < 0.001 | 29992 | PILRA |
| -0.349644065 | < 0.001 | 7123 | CLEC3B |
| -0.349759042 | < 0.001 | 9658 | ZNF516 |
| -0.349767298 | < 0.001 | 60485 | SAV1 |
| -0.349852175 | < 0.001 | 7011 | TEP1 |
| -0.349978 | < 0.001 | 493754 | LOC493754 |
| -0.349985719 | < 0.001 | 994 | CDC25B |
| -0.350205064 | < 0.001 | 9767 | PHF16 |
| -0.350401014 | < 0.001 | 10244 | RABEPK |
| -0.350437969 | < 0.001 | 389432 | SAMD5 |
| -0.350512743 | < 0.001 | 347442 | DCAF8L2 |
| -0.350558043 | < 0.001 | 285498 | RNF212 |
| -0.350618035 | < 0.001 | 79585 | CORO7 |
| -0.350656033 | < 0.001 | 64411 | ARAP3 |
| -0.350737005 | < 0.001 | 55138 | FAM90A1 |
| -0.350818276 | < 0.001 | 56975 | FAM20C |
| -0.350870818 | < 0.001 | 3383 | ICAM1 |
| -0.35115099 | < 0.001 | 100129842 | ZNF737 |
| -0.351174682 | < 0.001 | 279 | AMY2A |
| -0.351673573 | < 0.001 | 121512 | FGD4 |
| -0.351698995 | < 0.001 | 283663 | AC016525.1 |
| -0.351789564 | < 0.001 | 220136 | CCDC11 |
| -0.351798177 | < 0.001 | 215 | ABCD1 |
| -0.351817876 | < 0.001 | 286144 | C8orf83 |
| -0.351833194 | < 0.001 | 5152 | PDE9A |
| -0.351933867 | < 0.001 | 130399 | ACVR1C |
| -0.351973236 | < 0.001 | 5500 | PPP1CB |
| -0.35208106 | < 0.001 | 283870 | C16orf79 |
| -0.352281362 | < 0.001 | 1164 | CKS2 |
| -0.352381378 | < 0.001 | 578 | BAK1 |
| -0.352647066 | < 0.001 | 55667 | DENND4C |
| -0.352688223 | < 0.001 | 7629 | ZNF76 |
| -0.352688402 | < 0.001 | 57187 | THOC2 |
| -0.353022903 | < 0.001 | 90853 | SPOCD1 |
| -0.353069156 | < 0.001 | 3167 | HMX2 |
| -0.353132755 | < 0.001 | 388407 | C17orf82 |
| -0.353137314 | < 0.001 | 353323 | KRTAP12-2 |
| -0.353180498 | < 0.001 | 7091 | TLE4 |
| -0.353287011 | < 0.001 | 285382 | C3orf70 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.425997406 | 0.010126103 | 0.016 | 1 | 440900 | AC010982.1 |
| -0.426254809 | 0.010077045 | 0.014 | 1 | 6004 | RGS16 |
| -0.426254809 | 0.010077045 | 0.021 | 1 | 26586 | CKAP2 |
| -0.426254809 | 0.010077045 | 0.013 | 1 | 79676 | OGFOD2 |
| -0.426254809 | 0.010077045 | 0.012 | 1 | 90864 | SPSB3 |
| -0.426254809 | 0.010077045 | 0.011 | 1 | 167465 | ZNF366 |
| -0.426254809 | 0.010077045 | 0.02 | 1 | 440459 | LOC440459 |
| -0.426512212 | 0.010028181 | 0.018 | 1 | 5564 | PRKAB1 |
| -0.426769644 | 0.00997953 | 0.009 | 1 | 93589 | CACNA2D4 |
| -0.427027017 | 0.00993106 | 0.015 | 1 | 284076 | TTLL6 |
| -0.427284449 | 0.009882802 | 0.014 | 1 | 3043 | HBB |
| -0.427284449 | 0.009882802 | 0.028 | 1 | 284451 | ODF3L2 |
| -0.427541822 | 0.009834757 | 0.022 | 1 | 57212 | TP73-AS1 |
| -0.427799225 | 0.009786902 | 0.009 | 1 | 3172 | HNF4A |
| -0.427799225 | 0.009786902 | 0.018 | 1 | 23593 | HEBP2 |
| -0.427799225 | 0.009786902 | 0.016 | 1 | 80853 | JHDM1D |
| -0.42831403 | 0.00969179 | 0.017 | 1 | 163223 | ZNF676 |
| -0.42831403 | 0.00969179 | 0.014 | 1 | 644256 | DND1P2 |
| -0.428828835 | 0.009597483 | 0.02 | 1 | 3321 | IGSF3 |
| -0.428828835 | 0.009597483 | 0.017 | 1 | 85026 | C9orf37 |
| -0.429086208 | 0.009550599 | 0.009 | 1 | 148281 | SYT6 |
| -0.429343641 | 0.009503943 | 0.015 | 1 | 4846 | NOS3 |
| -0.429343641 | 0.009503943 | 0.014 | 1 | 8356 | HIST1H3J |
| -0.429343641 | 0.009503943 | 0.01 | 1 | 10901 | DHRS4 |
| -0.429601014 | 0.009457483 | 0.014 | 1 | 116441 | TM4SF18 |
| -0.429601014 | 0.009457483 | 0.014 | 1 | 221400 | TDRD6 |
| -0.429858446 | 0.009411207 | 0.013 | 1 | 79834 | AC107883.1 |
| -0.430115819 | 0.009365137 | 0.025 | 1 | 79828 | METTL8 |
| -0.430373222 | 0.00931923 | 0.021 | 1 | 363 | AQP6 |
| -0.430373222 | 0.00931923 | 0.01 | 1 | 8644 | AKR1C3 |
| -0.430373222 | 0.00931923 | 0.013 | 1 | 27076 | LYPD3 |
| -0.430373222 | 0.00931923 | 0.007 | 1 | 388507 | ZNF788 |
| -0.430630624 | 0.009273546 | 0.012 | 1 | 2101 | ESRRA |
| -0.430630624 | 0.009273546 | 0.017 | 1 | 85462 | FHDC1 |
| -0.4311454 | 0.009182745 | 0.015 | 1 | 4807 | NHLH1 |
| -0.431402832 | 0.009137617 | 0.009 | 1 | 7766 | ZNF223 |
| -0.431402832 | 0.009137617 | 0.015 | 1 | 149563 | C1orf64 |
| -0.431660205 | 0.009092689 | 0.019 | 1 | 30849 | PIK3R4 |
| -0.431917638 | 0.009047961 | 0.016 | 1 | 578 | BAK1 |
| -0.431917638 | 0.009047961 | 0.018 | 1 | 3426 | CFI |
| -0.431917638 | 0.009047961 | 0.01 | 1 | 6732 | SRPK1 |
| -0.431917638 | 0.009047961 | 0.019 | 1 | 55709 | KBTBD4 |
| -0.431917638 | 0.009047961 | 0.017 | 1 | 64116 | SLC39A8 |
| -0.43217501 | 0.009003422 | 0.011 | 1 | 488 | ATP2A2 |
| -0.43217501 | 0.009003422 | 0.013 | 1 | 29990 | PILRB |
| -0.432432443 | 0.008959042 | 0.018 | 1 | 2921 | CXCL3 |
| -0.432432443 | 0.008959042 | 0.023 | 1 | 3310 | HSPA6 |
| -0.432689816 | 0.00891488 | 0.011 | 1 | 219790 | RTKN2 |
| -0.432947218 | 0.008870896 | 0.009 | 1 | 91252 | SLC39A13 |
| -0.432947218 | 0.008870896 | 0.018 | 1 | 339145 | FAM92B |
| -0.432947218 | 0.008870896 | 0.011 | 1 | 339416 | ANKRD45 |
| -0.433204621 | 0.008827107 | 0.015 | 1 | 25957 | SFRS18 |
| -0.433204621 | 0.008827107 | 0.011 | 1 | 84787 | SUV420H2 |
| -0.433462024 | 0.008783505 | 0.007 | 1 | 653436 | ANKRD20A7P |
| -0.433719456 | 0.008740058 | 0.011 | 1 | 54891 | INO80D |
| -0.433976829 | 0.008696826 | 0.011 | 1 | 51270 | TFDP3 |
| -0.434234232 | 0.008653768 | 0.012 | 1 | 342132 | ZNF774 |
| -0.434234232 | 0.008653768 | 0.014 | 1 | 378108 | TRIM74 |
| -0.434491634 | 0.008610904 | 0.012 | 1 | 5018 | OXA1L |
| -0.434491634 | 0.008610904 | 0.015 | 1 | 50618 | ITSN2 |
| -0.434491634 | 0.008610904 | 0.008 | 1 | 51167 | CYB5R4 |
| -0.434749037 | 0.008568203 | 0.01 | 1 | 4438 | MSH4 |
| -0.434749037 | 0.008568203 | 0.011 | 1 | 353333 | KRTAP10-10 |
| -0.43500644 | 0.008525694 | 0.018 | 1 | 23428 | SLC7A8 |
| -0.43500644 | 0.008525694 | 0.007 | 1 | 119391 | GSTO2 |
| -0.435263842 | 0.008483375 | 0.012 | 1 | 8547 | FCN3 |
| -0.435263842 | 0.008483375 | 0.016 | 1 | 10332 | CLEC4M |
| -0.435263842 | 0.008483375 | 0.017 | 1 | 257177 | C1orf192 |
| -0.435521215 | 0.008441228 | 0.018 | 1 | 4091 | SMAD6 |
| -0.435778648 | 0.008399253 | 0.013 | 1 | 7515 | XRCC1 |
| -0.436293453 | 0.008315867 | 0.019 | 1 | 643955 | RP11-196D18.6 |
| -0.436550826 | 0.008274446 | 0.015 | 1 | 2137 | EXTL3 |
| -0.436808228 | 0.008233199 | 0.012 | 1 | 150763 | GPAT2 |
| -0.436808228 | 0.008233199 | 0.018 | 1 | 387119 | C6orf204 |
| -0.437065631 | 0.008192111 | 0.008 | 1 | 79658 | ARHGAP10 |
| -0.437580436 | 0.0081105 | 0.013 | 1 | 2916 | GRM6 |
| -0.437580436 | 0.0081105 | 0.018 | 1 | 3235 | HOXD9 |
| -0.437580436 | 0.0081105 | 0.017 | 1 | 85407 | NKD1 |
| -0.437837839 | 0.008069962 | 0.016 | 1 | 285489 | DOK7 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.35335955 | < 0.001 | 6869 | TACR1 |
| -0.353402734 | < 0.001 | 116441 | TM4SF18 |
| -0.353449345 | < 0.001 | 149563 | C1orf64 |
| -0.353871316 | < 0.001 | 641700 | ECSCR |
| -0.353880972 | < 0.001 | 6508 | SLC4A3 |
| -0.353881717 | < 0.001 | 56172 | ANKH |
| -0.353886366 | < 0.001 | 23063 | WAPAL |
| -0.354314029 | < 0.001 | 80135 | RPF1 |
| -0.354471236 | < 0.001 | 644256 | DND1P2 |
| -0.354533732 | < 0.001 | 83605 | CCM2 |
| -0.354997993 | < 0.001 | 114819 | CROCCP3 |
| -0.355035394 | < 0.001 | 340526 | RGAG4 |
| -0.355091214 | < 0.001 | 582 | BBS1 |
| -0.355352551 | < 0.001 | 2301 | FOXE3 |
| -0.355367959 | < 0.001 | 22927 | HABP4 |
| -0.355579317 | < 0.001 | 51751 | HIGD1B |
| -0.355663627 | < 0.001 | 1241 | LTB4R |
| -0.355847418 | < 0.001 | 5341 | PLEK |
| -0.35588941 | < 0.001 | 390429 | OR4N2 |
| -0.356127053 | < 0.001 | 151393 | FAM82A1 |
| -0.35614869 | < 0.001 | 131873 | AC128683.1 |
| -0.356179595 | < 0.001 | 10388 | SYCP2 |
| -0.356414557 | < 0.001 | 390205 | AP003108.2 |
| -0.356687129 | < 0.001 | 79919 | C2orf54 |
| -0.356692404 | < 0.001 | 7186 | TRAF2 |
| -0.35673058 | < 0.001 | 22894 | DIS3 |
| -0.357030988 | < 0.001 | 29062 | WDR91 |
| -0.357116342 | < 0.001 | 5412 | UBL3 |
| -0.357171029 | < 0.001 | 375612 | LHFPL3 |
| -0.35747844 | < 0.001 | 55711 | FAR2 |
| -0.357603878 | < 0.001 | 157638 | FAM84B |
| -0.357849061 | < 0.001 | 196264 | MPZL3 |
| -0.3578915 | < 0.001 | 2296 | FOXC1 |
| -0.357928932 | < 0.001 | 9633 | MTL5 |
| -0.358184755 | < 0.001 | 79041 | TMEM38A |
| -0.358401716 | < 0.001 | 11082 | ESM1 |
| -0.358477205 | < 0.001 | 8399 | PLA2G10 |
| -0.358726919 | < 0.001 | 23051 | ZHX3 |
| -0.35872969 | < 0.001 | 132320 | SCLT1 |
| -0.358802408 | < 0.001 | 169714 | QSOX2 |
| -0.358819604 | < 0.001 | 64518 | TEKT3 |
| -0.358939201 | < 0.001 | 723961 | INS-IGF2 |
| -0.358966231 | < 0.001 | 84529 | C15orf41 |
| -0.358995855 | < 0.001 | 55007 | FAM118A |
| -0.359698385 | < 0.001 | 58190 | CTDSP1 |
| -0.359734893 | < 0.001 | 80745 | THUMPD2 |
| -0.359768957 | < 0.001 | 55787 | CXorf15 |
| -0.359810114 | < 0.001 | 55759 | WDR12 |
| -0.35983333 | < 0.001 | 5133 | PDCD1 |
| -0.359864891 | < 0.001 | 1847 | DUSP |
| -0.360013962 | < 0.001 | 55656 | INTS8 |
| -0.360527396 | < 0.001 | 93589 | CACNA2D4 |
| -0.360998601 | < 0.001 | 9311 | ACCN3 |
| -0.36103797 | < 0.001 | 6998 | TDGF1P3 |
| -0.361098349 | < 0.001 | 81610 | FAM83D |
| -0.36128509 | < 0.001 | 92565 | FANK1 |
| -0.361348331 | < 0.001 | 54661 | PCDHB17 |
| -0.361574918 | < 0.001 | 6496 | SIX3 |
| -0.361598045 | < 0.001 | 114044 | MCM3AP-AS1 |
| -0.362178743 | < 0.001 | 275 | AMT |
| -0.362206787 | < 0.001 | 124602 | KIF19 |
| -0.362419277 | < 0.001 | 284004 | HEXDC |
| -0.36243096 | < 0.001 | 84264 | HAGHL |
| -0.362487346 | < 0.001 | 6327 | SCN2B |
| -0.36254251 | < 0.001 | 57639 | CCDC146 |
| -0.362592548 | < 0.001 | 6801 | STRN |
| -0.362617344 | < 0.001 | 2957 | GTF2A1 |
| -0.362641603 | < 0.001 | 55251 | PCMTD2 |
| -0.362679392 | < 0.001 | 2563 | GABRD |
| -0.362956673 | < 0.001 | 2791 | GNG11 |
| -0.363114268 | < 0.001 | 7030 | TFE3 |
| -0.363185495 | < 0.001 | 53632 | PRKAG3 |
| -0.36341694 | < 0.001 | 51312 | SLC25A37 |
| -0.363801688 | < 0.001 | 146395 | GSG1L |
| -0.363885254 | < 0.001 | 773 | CACNA1A |
| -0.363974601 | < 0.001 | 92162 | TMEM88 |
| -0.364378452 | < 0.001 | 57020 | C16orf62 |
| -0.364774913 | < 0.001 | 57786 | RBAK |
| -0.364912897 | < 0.001 | 401265 | KLHL31 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.438095212 | 0.008029581 | 0.011 | 1 | 2242 | FES |
| -0.438095212 | 0.008029581 | 0.013 | 1 | 54757 | FAM20A |
| -0.438610017 | 0.007949368 | 0.015 | 1 | 9808 | KIAA0087 |
| -0.439124823 | 0.007869828 | 0.012 | 1 | 1842 | ECM2 |
| -0.439124823 | 0.007869828 | 0.014 | 1 | 24137 | KIF4A |
| -0.439124823 | 0.007869828 | 0.013 | 1 | 219931 | TPCN2 |
| -0.439382225 | 0.007830329 | 0.015 | 1 | 5915 | RARB |
| -0.439382225 | 0.007830329 | 0.015 | 1 | 26151 | NAT9 |
| -0.439382225 | 0.007830329 | 0.022 | 1 | 144453 | BEST3 |
| -0.439639628 | 0.007790993 | 0.008 | 1 | 8608 | RDH16 |
| -0.439897031 | 0.007751835 | 0.013 | 1 | 2301 | FOXE3 |
| -0.440154433 | 0.007712843 | 0.021 | 1 | 9170 | LPAR2 |
| -0.440154433 | 0.007712843 | 0.01 | 1 | 158572 | LOC158572 |
| -0.440411836 | 0.007674003 | 0.012 | 1 | 463 | ATBF1 |
| -0.440411836 | 0.007674003 | 0.015 | 1 | 83547 | RILP |
| -0.440669239 | 0.007635354 | 0.021 | 1 | 5095 | PCCA |
| -0.440926641 | 0.007596863 | 0.014 | 1 | 730 | C7 |
| -0.440926641 | 0.007596863 | 0.008 | 1 | 9870 | KIAA0317 |
| -0.440926641 | 0.007596863 | 0.007 | 1 | 81629 | TSSK3 |
| -0.440926641 | 0.007596863 | 0.015 | 1 | 91734 | IDI2 |
| -0.441184044 | 0.007558549 | 0.009 | 1 | 7475 | WNT6 |
| -0.441184044 | 0.007558549 | 0.01 | 1 | 23169 | SLC35D1 |
| -0.441184044 | 0.007558549 | 0.011 | 1 | 63926 | ANKRD5 |
| -0.441184044 | 0.007558549 | 0.012 | 1 | 91445 | RNF185 |
| -0.442213655 | 0.007406923 | 0.008 | 1 | 590 | BCHE |
| -0.442213655 | 0.007406923 | 0.016 | 1 | 5451 | POU2F1 |
| -0.443243235 | 0.007257929 | 0.008 | 1 | 56133 | PCDHB2 |
| -0.443500638 | 0.007221091 | 0.012 | 1 | 347252 | IGFBPL1 |
| -0.443758041 | 0.007184397 | 0.018 | 1 | 642517 | BMS1P6 |
| -0.443758041 | 0.007184397 | 0.012 | 1 | 729495 | FAM108A5P |
| -0.444015443 | 0.00714788 | 0.007 | 1 | 41 | ACCN2 |
| -0.444015443 | 0.00714788 | 0.007 | 1 | 10849 | CD3EAP |
| -0.444272846 | 0.007111525 | 0.008 | 1 | 5495 | PPM1B |
| -0.444530219 | 0.007075333 | 0.013 | 1 | 2324 | FLT4 |
| -0.444530219 | 0.007075333 | 0.014 | 1 | 29941 | PKN3 |
| -0.444787651 | 0.007039277 | 0.014 | 1 | 10878 | CFHR3 |
| -0.444787651 | 0.007039277 | 0.011 | 1 | 139562 | OTUD6A |
| -0.444787651 | 0.007039277 | 0.013 | 1 | 146429 | SLC22A31 |
| -0.445045024 | 0.007003402 | 0.012 | 1 | 24 | ABCA4 |
| -0.445045024 | 0.007003402 | 0.006 | 1 | 6103 | RPGR |
| -0.445045024 | 0.007003402 | 0.006 | 1 | 79867 | TCTN2 |
| -0.445302457 | 0.006967682 | 0.004 | 1 | 6998 | TDGF1P3 |
| -0.445559829 | 0.006932124 | 0.016 | 1 | 646576 | RP11-291L15.2 |
| -0.445817232 | 0.006896718 | 0.01 | 1 | 5105 | PCK1 |
| -0.446074635 | 0.006861453 | 0.006 | 1 | 3384 | ICAM2 |
| -0.446332037 | 0.00682636 | 0.015 | 1 | 5997 | RGS2 |
| -0.44658944 | 0.006791422 | 0.01 | 1 | 51705 | EMCN |
| -0.446846843 | 0.006756642 | 0.014 | 1 | 5178 | PEG3AS |
| -0.446846843 | 0.006756642 | 0.012 | 1 | 5329 | PLAUR |
| -0.446846843 | 0.006756642 | 0.011 | 1 | 10082 | GPC6 |
| -0.446846843 | 0.006756642 | 0.008 | 1 | 51136 | RNFT1 |
| -0.446846843 | 0.006756642 | 0.014 | 1 | 152519 | NIPAL1 |
| -0.446846843 | 0.006756642 | 0.02 | 1 | 153769 | SH3RF2 |
| -0.447104216 | 0.006721998 | 0.009 | 1 | 90952 | ESAM |
| -0.447361648 | 0.006687521 | 0.008 | 1 | 286464 | CXorf59 |
| -0.447619021 | 0.006653198 | 0.019 | 1 | 268 | AMH |
| -0.447619021 | 0.006653198 | 0.005 | 1 | 1813 | DRD2 |
| -0.448133856 | 0.006584994 | 0.014 | 1 | 2615 | LRRC32 |
| -0.448133856 | 0.006584994 | 0.011 | 1 | 79609 | C14orf138 |
| -0.448133856 | 0.006584994 | 0.006 | 1 | 116337 | PANX3 |
| -0.448648661 | 0.006517414 | 0.015 | 1 | 121512 | FGD4 |
| -0.448906034 | 0.006483852 | 0.01 | 1 | 115123 | MARCHF3 |
| -0.448906034 | 0.006483852 | 0.015 | 1 | 168002 | DACT2 |
| -0.449163467 | 0.006450431 | 0.011 | 1 | 26135 | SERBP1 |
| -0.449163467 | 0.006450431 | 0.016 | 1 | 54825 | PCDH24 |
| -0.44942084 | 0.006417152 | 0.017 | 1 | 654790 | PCP4L1 |
| -0.449678242 | 0.006384034 | 0.008 | 1 | 79768 | C15orf29 |
| -0.449935645 | 0.006351063 | 0.008 | 1 | 1305 | COL13A1 |
| -0.449935645 | 0.006351063 | 0.009 | 1 | 54429 | TAS2R5 |
| -0.449935645 | 0.006351063 | 0.015 | 1 | 54477 | PLEKHA5 |
| -0.449935645 | 0.006351063 | 0.014 | 1 | 440021 | KRTAP5-2 |
| -0.450193048 | 0.006318243 | 0.009 | 1 | 26338 | OR5L2 |
| -0.450193048 | 0.006318243 | 0.009 | 1 | 84249 | PSD2 |
| -0.450707853 | 0.006253023 | 0.011 | 1 | 81571 | C9orf45 |
| -0.450965226 | 0.006220642 | 0.011 | 1 | 1375 | CPT1B |
| -0.450965226 | 0.006220642 | 0.004 | 1 | 1968 | EIF2S3 |
| -0.450965226 | 0.006220642 | 0.016 | 1 | 114879 | OSBPL5 |
| -0.451222658 | 0.006188399 | 0.007 | 1 | 4053 | LTBP2 |
| -0.451222658 | 0.006188399 | 0.01 | 1 | 10560 | SLC19A2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.365025729 | < 0.001 | 27019 | DNAI1 |
| -0.365151018 | < 0.001 | 204851 | HIPK1 |
| -0.365197808 | < 0.001 | 6540 | SLC6A13 |
| -0.365496576 | < 0.001 | 51705 | EMCN |
| -0.365504384 | < 0.001 | 652995 | UCA1 |
| -0.3655352 | < 0.001 | 195828 | ZNF367 |
| -0.365641534 | < 0.001 | 5451 | POU2F1 |
| -0.365665108 | < 0.001 | 3689 | ITGB2 |
| -0.365911216 | < 0.001 | 10082 | GPC6 |
| -0.366491824 | < 0.001 | 78989 | COLEC11 |
| -0.366560727 | < 0.001 | 2615 | LRRC32 |
| -0.366682202 | < 0.001 | 9772 | KIAA0195 |
| -0.36674124 | < 0.001 | 285 | ANGPT2 |
| -0.366821766 | < 0.001 | 7127 | TNFAIP2 |
| -0.366982609 | < 0.001 | 4143 | MAT1A |
| -0.367022187 | < 0.001 | 84690 | SPATA22 |
| -0.367077142 | < 0.001 | 221061 | FAM171A1 |
| -0.367121905 | < 0.001 | 342132 | ZNF774 |
| -0.367178202 | < 0.001 | 730092 | RRN3P1 |
| -0.36723724 | < 0.001 | 10251 | SPRY3 |
| -0.367290735 | < 0.001 | 5863 | RGL2 |
| -0.367319077 | < 0.001 | 2774 | GNAL |
| -0.367320746 | < 0.001 | 956 | ENTPD3 |
| -0.367486507 | < 0.001 | 91543 | RSAD2 |
| -0.367512584 | < 0.001 | 1388 | CREBL1 |
| -0.367620409 | < 0.001 | 10144 | FAM13A |
| -0.367750049 | < 0.001 | 8916 | HERC3 |
| -0.367822766 | < 0.001 | 3274 | HRH2 |
| -0.368543863 | < 0.001 | 100289350 | LOC100289350 |
| -0.36859104 | < 0.001 | 10455 | PECI |
| -0.368624568 | < 0.001 | 148103 | ZNF599 |
| -0.369143784 | < 0.001 | 100129075 | C14orf33 |
| -0.369208694 | < 0.001 | 84444 | DOT1L |
| -0.369270176 | < 0.001 | 84630 | TTBK1 |
| -0.369319201 | < 0.001 | 84307 | ZNF397 |
| -0.369712144 | < 0.001 | 8322 | FZD4 |
| -0.369761348 | < 0.001 | 10538 | BATF |
| -0.370360613 | < 0.001 | 11023 | VAX1 |
| -0.370384306 | < 0.001 | 257240 | KLHL34 |
| -0.370558143 | < 0.001 | 2637 | GBX2 |
| -0.371402949 | < 0.001 | 3710 | ITPR3 |
| -0.371545941 | < 0.001 | 29028 | ATAD2 |
| -0.371690542 | < 0.001 | 54738 | FEV |
| -0.371734858 | < 0.001 | 258 | AMBN |
| -0.371806353 | < 0.001 | 257415 | FAM133B |
| -0.371917605 | < 0.001 | 130752 | MDH1B |
| -0.372099996 | < 0.001 | 57687 | VAT1L |
| -0.372363001 | < 0.001 | 3617 | IMPG1 |
| -0.372665077 | < 0.001 | 23762 | OSBP2 |
| -0.372870237 | < 0.001 | 9034 | CCRL2 |
| -0.372933179 | < 0.001 | 1003 | CDH5 |
| -0.373013616 | < 0.001 | 6550 | SLC9A3 |
| -0.373746216 | < 0.001 | 221400 | TDRD6 |
| -0.373828143 | < 0.001 | 221981 | THSD7A |
| -0.374195337 | < 0.001 | 93986 | FOXP2 |
| -0.374287546 | < 0.001 | 79875 | THSD4 |
| -0.37438488 | < 0.001 | 284185 | LINC00482 |
| -0.374438167 | < 0.001 | 8787 | RGS9 |
| -0.374547929 | < 0.001 | 29909 | GPR171 |
| -0.374584258 | < 0.001 | 81491 | GPR63 |
| -0.374587029 | < 0.001 | 151827 | LRRC34 |
| -0.374800354 | < 0.001 | 4728 | NDUFS8 |
| -0.375006139 | < 0.001 | 56105 | PCDHGA11 |
| -0.375070214 | < 0.001 | 388125 | FAM148B |
| -0.375282973 | < 0.001 | 6495 | SIX1 |
| -0.376235873 | < 0.001 | 100144748 | AC063965.2 |
| -0.376400232 | < 0.001 | 27198 | HCAR1 |
| -0.37656945 | < 0.001 | 353322 | ANKRD37 |
| -0.37659061 | < 0.001 | 3776 | KCNK2 |
| -0.376809418 | < 0.001 | 11059 | WWP1 |
| -0.377314329 | < 0.001 | 123904 | NRN1L |
| -0.377426594 | < 0.001 | 50834 | TAS2R1 |
| -0.377605826 | < 0.001 | 9481 | SLC25A27 |
| -0.377648264 | < 0.001 | 6383 | SDC2 |
| -0.377849966 | < 0.001 | 9934 | P2RY14 |
| -0.378087431 | < 0.001 | 2057 | EPOR |
| -0.378406256 | < 0.001 | 3291 | HSD11B2 |
| -0.378445804 | < 0.001 | 6103 | RPGR |
| -0.378879964 | < 0.001 | 6539 | SLC6A12 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.451480031 | 0.006156294 | 0.011 | 1 | 1006 | CDH8 |
| -0.451480031 | 0.006156294 | 0.013 | 1 | 120425 | AMICA1 |
| -0.451994836 | 0.006092538 | 0.01 | 1 | 7711 | ZNF155 |
| -0.451994836 | 0.006092538 | 0.014 | 1 | 9306 | SOCS6 |
| -0.452252239 | 0.006060879 | 0.009 | 1 | 1388 | CREBL1 |
| -0.452252239 | 0.006060879 | 0.011 | 1 | 91608 | RASL10B |
| -0.452252239 | 0.006060879 | 0.01 | 1 | 113878 | DTX2 |
| -0.452509642 | 0.006029354 | 0.014 | 1 | 79817 | MOBKL2B |
| -0.452767044 | 0.005997966 | 0.011 | 1 | 2219 | FCN1 |
| -0.453024447 | 0.005966726 | 0.005 | 1 | 1044 | CDX1 |
| -0.453024447 | 0.005966726 | 0.008 | 1 | 2765 | GML |
| -0.453024447 | 0.005966726 | 0.008 | 1 | 63898 | SH2D4A |
| -0.45328185 | 0.005935633 | 0.011 | 1 | 4017 | LOXL2 |
| -0.45328185 | 0.005935633 | 0.015 | 1 | 64063 | PRSS22 |
| -0.453539222 | 0.005904682 | 0.01 | 1 | 78989 | COLEC11 |
| -0.453539222 | 0.005904682 | 0.013 | 1 | 283011 | FLJ37201 |
| -0.453796655 | 0.005873849 | 0.005 | 1 | 390261 | OR6M1 |
| -0.45431146 | 0.005812637 | 0.011 | 1 | 6310 | ATXN1 |
| -0.454568833 | 0.005782242 | 0.006 | 1 | 1285 | COL4A3 |
| -0.454568833 | 0.005782242 | 0.01 | 1 | 51733 | UPB1 |
| -0.454568833 | 0.005782242 | 0.016 | 1 | 93273 | LEMD1 |
| -0.454826236 | 0.005751972 | 0.011 | 1 | 55504 | TNFRSF19 |
| -0.455341041 | 0.005691862 | 0.01 | 1 | 3767 | KCNJ11 |
| -0.455341041 | 0.005691862 | 0.012 | 1 | 92162 | TMEM88 |
| -0.455341041 | 0.005691862 | 0.008 | 1 | 285877 | POM121L12 |
| -0.455598474 | 0.005662009 | 0.012 | 1 | 846 | CASR |
| -0.455855846 | 0.005632298 | 0.011 | 1 | 23387 | AP006216.1 |
| -0.456370652 | 0.005573262 | 0.013 | 1 | 7016 | TESK1 |
| -0.456370652 | 0.005573262 | 0.008 | 1 | 53820 | DSCR6 |
| -0.456370652 | 0.005573262 | 0.007 | 1 | 166815 | TIGD2 |
| -0.45714286 | 0.005485726 | 0.013 | 1 | 5350 | PLN |
| -0.45714286 | 0.005485726 | 0.01 | 1 | 51454 | GULP1 |
| -0.457400233 | 0.00545682 | 0.008 | 1 | 6095 | RORA |
| -0.457915038 | 0.005399398 | 0.014 | 1 | 200232 | FAM209A |
| -0.458687246 | 0.005314238 | 0.005 | 1 | 56241 | SUSD2 |
| -0.458944649 | 0.005286111 | 0.011 | 1 | 5139 | PDE3A |
| -0.458944649 | 0.005286111 | 0.014 | 1 | 57125 | PLXDC1 |
| -0.459202051 | 0.005258121 | 0.011 | 1 | 26207 | PITPNC1 |
| -0.459202051 | 0.005258121 | 0.011 | 1 | 84922 | FIZ1 |
| -0.459202051 | 0.005258121 | 0.004 | 1 | 347730 | LRRTM1 |
| -0.459459454 | 0.005230241 | 0.009 | 1 | 53405 | CLIC5 |
| -0.459459454 | 0.005230241 | 0.006 | 1 | 92565 | FANK1 |
| -0.459459454 | 0.005230241 | 0.007 | 1 | 170959 | ZNF431 |
| -0.459716856 | 0.005202507 | 0.01 | 1 | 219670 | ENKUR |
| -0.459716856 | 0.005202507 | 0.011 | 1 | 255119 | C4orf22 |
| -0.460231662 | 0.005147417 | 0.005 | 1 | 9241 | NOG |
| -0.460489035 | 0.005120053 | 0.01 | 1 | 3614 | IMPDH1 |
| -0.461261243 | 0.005038749 | 0.009 | 1 | 5133 | PDCD1 |
| -0.461776048 | 0.004985158 | 0.007 | 1 | 4635 | MYL4 |
| -0.461776048 | 0.004985158 | 0.008 | 1 | 8884 | SLC5A6 |
| -0.461776048 | 0.004985158 | 0.004 | 1 | 56920 | SEMA3G |
| -0.46203348 | 0.004958551 | 0.009 | 1 | 284009 | LOC284009 |
| -0.462548256 | 0.00490572 | 0.008 | 1 | 3697 | ITIH1 |
| -0.462548256 | 0.00490572 | 0.005 | 1 | 338557 | GPR120 |
| -0.462805659 | 0.004879472 | 0.014 | 1 | 30835 | CD209 |
| -0.463063061 | 0.004853362 | 0.005 | 1 | 79624 | C6orf211 |
| -0.463063061 | 0.004853362 | 0.011 | 1 | 100129842 | ZNF737 |
| -0.463835239 | 0.004775744 | 0.007 | 1 | 390213 | DOC2GP |
| -0.464350045 | 0.004724606 | 0.009 | 1 | 9084 | VCY1B |
| -0.464607477 | 0.004699217 | 0.012 | 1 | 80154 | AGSK1 |
| -0.46486485 | 0.004673935 | 0.011 | 1 | 6997 | TDGF1 |
| -0.465122253 | 0.004648785 | 0.009 | 1 | 729305 | RP11-469N6.1 |
| -0.465379655 | 0.004623747 | 0.008 | 1 | 23012 | STK38L |
| -0.465894461 | 0.004574033 | 0.007 | 1 | 6540 | SLC6A13 |
| -0.466409236 | 0.004524772 | 0.006 | 1 | 10681 | GNB5 |
| -0.466409236 | 0.004524772 | 0.007 | 1 | 26233 | FBXL6 |
| -0.466409236 | 0.004524772 | 0.007 | 1 | 79154 | DHRS11 |
| -0.466409236 | 0.004524772 | 0.009 | 1 | 159195 | USP54 |
| -0.466666669 | 0.00450032 | 0.004 | 1 | 5858 | PZP |
| -0.466666669 | 0.00450032 | 0.01 | 1 | 390154 | OR5T3 |
| -0.467181474 | 0.004451749 | 0.008 | 1 | 79789 | CLMN |
| -0.467181474 | 0.004451749 | 0.004 | 1 | 399949 | C11orf88 |
| -0.467438847 | 0.004427641 | 0.004 | 1 | 2633 | GBP1 |
| -0.467438847 | 0.004427641 | 0.005 | 1 | 651250 | LRRC37A16P |
| -0.467696249 | 0.004403649 | 0.008 | 1 | 717 | C2 |
| -0.467696249 | 0.004403649 | 0.005 | 1 | 168544 | ZNF467 |
| -0.467953652 | 0.004379768 | 0.007 | 1 | 653509 | SFTPA1 |
| -0.46872586 | 0.00430879 | 0.011 | 1 | 2869 | GRK5 |
| -0.468983263 | 0.00428536 | 0.002 | 1 | 10218 | ANGPTL7 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.379201353 | < 0.001 | 27299 | ADAMDEC1 |
| -0.379508853 | < 0.001 | 793 | CALB1 |
| -0.379839808 | < 0.001 | 23286 | WWC1 |
| -0.380070031 | < 0.001 | 5937 | RBMS1 |
| -0.38029626 | < 0.001 | 79864 | C11orf63 |
| -0.380379736 | < 0.001 | 100170765 | C19orf69 |
| -0.38052851 | < 0.001 | 10003 | NAALAD2 |
| -0.380776554 | < 0.001 | 5590 | PRKCZ |
| -0.380821973 | < 0.001 | 9381 | OTOF |
| -0.381030738 | < 0.001 | 389421 | LIN28B |
| -0.381155819 | < 0.001 | 80069 | C6ORF208 |
| -0.381171137 | < 0.001 | 326340 | ZAR1 |
| -0.381206721 | < 0.001 | 2035 | EPB41 |
| -0.381318599 | < 0.001 | 1009 | CDH11 |
| -0.38133496 | < 0.001 | 7871 | SLMAP |
| -0.381452888 | < 0.001 | 5729 | PTGDR |
| -0.381681174 | < 0.001 | 3362 | HTR6 |
| -0.381758064 | < 0.001 | 152559 | PAQR3 |
| -0.382018745 | < 0.001 | 163933 | FAM43B |
| -0.382811815 | < 0.001 | 2022 | ENG |
| -0.382941365 | < 0.001 | 23225 | NUP210 |
| -0.383080572 | < 0.001 | 83992 | CTTNBP2 |
| -0.38317129 | < 0.001 | 5915 | RARB |
| -0.383367598 | < 0.001 | 400916 | CHCHD10 |
| -0.383474857 | < 0.001 | 221091 | LRRN4CL |
| -0.383587152 | < 0.001 | 6533 | SLC6A6 |
| -0.383646846 | < 0.001 | 4160 | MC4R |
| -0.383786798 | < 0.001 | 11035 | RIPK3 |
| -0.383917004 | < 0.001 | 64150 | DIO3OS |
| -0.384004295 | < 0.001 | 5091 | PC |
| -0.384300172 | < 0.001 | 148523 | C1orf51 |
| -0.385393381 | < 0.001 | 126432 | RINL |
| -0.385561675 | < 0.001 | 55340 | GIMAP5 |
| -0.386435717 | < 0.001 | 389158 | PLSCR5 |
| -0.386626005 | < 0.001 | 56929 | FEM1C |
| -0.387109369 | < 0.001 | 388931 | AC104665.1 |
| -0.387544543 | < 0.001 | 54112 | GPR88 |
| -0.387732774 | < 0.001 | 5598 | MAPK7 |
| -0.387785792 | < 0.001 | 57703 | CWC22 |
| -0.38778618 | < 0.001 | 7547 | ZIC3 |
| -0.388318866 | < 0.001 | 129521 | NMS |
| -0.388937145 | < 0.001 | 3590 | IL11RA |
| -0.389336109 | < 0.001 | 135892 | TRIM50 |
| -0.389366001 | < 0.001 | 7035 | TFPI |
| -0.389608681 | < 0.001 | 79413 | ZBED2 |
| -0.389740735 | < 0.001 | 3614 | IMPDH1 |
| -0.389820486 | < 0.001 | 651250 | LRRC37A16P |
| -0.390057951 | < 0.001 | 81931 | ZNF93 |
| -0.390072614 | < 0.001 | 10142 | AKAP9 |
| -0.390120536 | < 0.001 | 27115 | PDE7B |
| -0.390165955 | < 0.001 | 100125556 | RP11-666A20.1 |
| -0.39036423 | < 0.001 | 144193 | AMDHD1 |
| -0.390756041 | < 0.001 | 114041 | C21orf88 |
| -0.390969068 | < 0.001 | 10106 | CTDSP2 |
| -0.391057193 | < 0.001 | 8853 | ASAP2 |
| -0.391787022 | < 0.001 | 4330 | MN1 |
| -0.39182511 | < 0.001 | 431707 | LHX8 |
| -0.392017066 | < 0.001 | 965 | CD58 |
| -0.392319322 | < 0.001 | 79675 | FASTKD1 |
| -0.393059671 | < 0.001 | 386682 | KRTAP10-3 |
| -0.393203974 | < 0.001 | 3384 | ICAM2 |
| -0.393293947 | < 0.001 | 378108 | TRIM74 |
| -0.39349547 | < 0.001 | 3164 | NR4A1 |
| -0.393647134 | < 0.001 | 10317 | B3GALT5 |
| -0.394148707 | < 0.001 | 2674 | GFRA1 |
| -0.394221783 | < 0.001 | 840 | CASP7 |
| -0.39428845 | < 0.001 | 491 | ATP2B2 |
| -0.394320607 | < 0.001 | 10100 | TSPAN2 |
| -0.394755751 | < 0.001 | 9748 | SLK |
| -0.394995928 | < 0.001 | 10873 | ME3 |
| -0.395844519 | < 0.001 | 85291 | KRTAP4-2 |
| -0.396083564 | < 0.001 | 1666 | DECR1 |
| -0.396094322 | < 0.001 | 80307 | FER1L4 |
| -0.396423638 | < 0.001 | 23742 | C15orf2 |
| -0.396616787 | < 0.001 | 54477 | PLEKHA5 |
| -0.396702051 | < 0.001 | 100293090 | MTND4P12 |
| -0.396719873 | < 0.001 | 54829 | ASPN |
| -0.396989018 | < 0.001 | 2308 | FOXO1 |
| -0.397031724 | < 0.001 | 160518 | DENND5B |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.468983263 | 0.00428536 | 0.008 | 1 | 400258 | C14orf180 |
| -0.469240665 | 0.004262039 | 0.014 | 1 | 154197 | PNLDC1 |
| -0.469498068 | 0.004238818 | 0.007 | 1 | 2254 | FGF9 |
| -0.470012873 | 0.00419273 | 0.01 | 1 | 7547 | ZIC3 |
| -0.470785052 | 0.004124403 | 0.013 | 1 | 317671 | RFESD |
| -0.470785052 | 0.004124403 | 0.004 | 1 | 647589 | AC226150.1 |
| -0.471299857 | 0.004079402 | 0.008 | 1 | 151887 | CCDC80 |
| -0.47155726 | 0.004057061 | 0.004 | 1 | 23225 | NUP210 |
| -0.471814662 | 0.004034818 | 0.006 | 1 | 84690 | SPATA22 |
| -0.472072065 | 0.00401269 | 0.006 | 1 | 72 | ACTG2 |
| -0.472072065 | 0.00401269 | 0.004 | 1 | 1666 | DECR1 |
| -0.472329468 | 0.003990668 | 0.007 | 1 | 55304 | SPTLC3 |
| -0.472329468 | 0.003990668 | 0.003 | 1 | 85289 | KRTAP4-5 |
| -0.472844243 | 0.003946933 | 0.007 | 1 | 8711 | TNK1 |
| -0.472844243 | 0.003946933 | 0.01 | 1 | 56975 | FAM20C |
| -0.473101676 | 0.003925227 | 0.003 | 1 | 23584 | VSIG2 |
| -0.473616481 | 0.003882126 | 0.006 | 1 | 11043 | MID2 |
| -0.473616481 | 0.003882126 | 0.006 | 1 | 56963 | RGMA |
| -0.474646062 | 0.003797158 | 0.01 | 1 | 5778 | PTPN7 |
| -0.474903464 | 0.003776169 | 0.003 | 1 | 7276 | TTR |
| -0.474903464 | 0.003776169 | 0.009 | 1 | 284029 | LINC00324 |
| -0.475160867 | 0.003755278 | 0.005 | 1 | 83595 | SOX7 |
| -0.475160867 | 0.003755278 | 0.005 | 1 | 112609 | MRAP2 |
| -0.475675672 | 0.003713812 | 0.007 | 1 | 10317 | B3GALT5 |
| -0.475675672 | 0.003713812 | 0.004 | 1 | 133874 | AC034199.2 |
| -0.475933075 | 0.003693231 | 0.005 | 1 | 7057 | THBS1 |
| -0.475933075 | 0.003693231 | 0.005 | 1 | 8629 | JRK |
| -0.475933075 | 0.003693231 | 0.01 | 1 | 386682 | KRTAP10-3 |
| -0.476190478 | 0.003672739 | 0.012 | 1 | 7545 | ZIC1 |
| -0.476190478 | 0.003672739 | 0.006 | 1 | 51409 | HEMK1 |
| -0.476190478 | 0.003672739 | 0.011 | 1 | 55124 | PIWIL2 |
| -0.476190478 | 0.003672739 | 0.006 | 1 | 55349 | CHDH |
| -0.47644788 | 0.003652356 | 0.009 | 1 | 654 | BMP6 |
| -0.476962686 | 0.003611884 | 0.001 | 1 | 3167 | HMX2 |
| -0.476962686 | 0.003611884 | 0.004 | 1 | 100293090 | MTND4P12 |
| -0.477477491 | 0.003571798 | 0.011 | 1 | 104 | ADARB1 |
| -0.477477491 | 0.003571798 | 0.009 | 1 | 7773 | ZNF230 |
| -0.477734864 | 0.003551905 | 0.006 | 1 | 64388 | GREM2 |
| -0.477734864 | 0.003551905 | 0.004 | 1 | 85002 | FAM86B1 |
| -0.478507072 | 0.003492798 | 0.005 | 1 | 58190 | CTDSP1 |
| -0.47927925 | 0.003434559 | 0.004 | 1 | 79961 | DENND2D |
| -0.47927925 | 0.003434559 | 0.004 | 1 | 84107 | ZIC4 |
| -0.479794055 | 0.003396197 | 0.004 | 1 | 4005 | LMO2 |
| -0.479794055 | 0.003396197 | 0.005 | 1 | 23087 | TRIM35 |
| -0.479794055 | 0.003396197 | 0.007 | 1 | 388125 | FAM148B |
| -0.480566263 | 0.003339367 | 0.006 | 1 | 84168 | ANTXR1 |
| -0.481338471 | 0.003283373 | 0.007 | 1 | 29078 | NDUFAF4 |
| -0.482110679 | 0.003228194 | 0.007 | 1 | 845 | CASQ2 |
| -0.482110679 | 0.003228194 | 0.006 | 1 | 119385 | AGAP11 |
| -0.482625484 | 0.00319187 | 0.006 | 1 | 5304 | PIP |
| -0.482625484 | 0.00319187 | 0.004 | 1 | 163882 | C1orf71 |
| -0.482882887 | 0.003173829 | 0.005 | 1 | 11082 | ESM1 |
| -0.482882887 | 0.003173829 | 0.01 | 1 | 85027 | C5ORF62 |
| -0.48314026 | 0.003155892 | 0.012 | 1 | 340888 | LOC340888 |
| -0.483655065 | 0.003120278 | 0.007 | 1 | 84623 | KIRREL3 |
| -0.483655065 | 0.003120278 | 0.004 | 1 | 157285 | AC068353.1 |
| -0.483655065 | 0.003120278 | 0.005 | 1 | 401190 | RGS7BP |
| -0.483912498 | 0.003102595 | 0.005 | 1 | 375612 | LHFPL3 |
| -0.484169871 | 0.003085007 | 0.009 | 1 | 125962 | OR7G1 |
| -0.484169871 | 0.003085007 | 0.007 | 1 | 200132 | TCTEX1D1 |
| -0.484427303 | 0.003067508 | 0.003 | 1 | 441932 | OR2W5 |
| -0.484684676 | 0.003050095 | 0.003 | 1 | 2135 | EXTL2 |
| -0.484942079 | 0.003032772 | 0.002 | 1 | 26609 | VCX |
| -0.485199481 | 0.003015525 | 0.003 | 1 | 8324 | FZD7 |
| -0.485199481 | 0.003015525 | 0.007 | 1 | 164153 | UBL4B |
| -0.485456884 | 0.002998371 | 0.002 | 1 | 56110 | PCDHGA5 |
| -0.485456884 | 0.002998371 | 0.009 | 1 | 83886 | PRSS27 |
| -0.485714257 | 0.002981302 | 0.003 | 1 | 947 | CD34 |
| -0.485714257 | 0.002981302 | 0.009 | 1 | 1879 | EBF1 |
| -0.485714257 | 0.002981302 | 0.004 | 1 | 57680 | CHD8 |
| -0.485971689 | 0.002964319 | 0.01 | 1 | 9576 | SPAG6 |
| -0.486486495 | 0.002930598 | 0.003 | 1 | 85015 | USP45 |
| -0.486743867 | 0.002913869 | 0.01 | 1 | 65083 | NOL6 |
| -0.4870013 | 0.002897226 | 0.005 | 1 | 157506 | RDH10 |
| -0.487516075 | 0.002864176 | 0.006 | 1 | 2348 | FOLR1 |
| -0.487516075 | 0.002864176 | 0.002 | 1 | 55073 | LRRC37A4P |
| -0.487773478 | 0.002847779 | 0.004 | 1 | 1911 | PHC1 |
| -0.488030881 | 0.002831464 | 0.002 | 1 | 54660 | PCDHB18 |
| -0.488545686 | 0.002799073 | 0.005 | 1 | 23212 | RRS1 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.397046864 | < 0.001 | 5336 | PLCG2 |
| -0.397217453 | < 0.001 | 130340 | AP1S3 |
| -0.397849679 | < 0.001 | 41 | ACCN2 |
| -0.39800486 | < 0.001 | 4521 | NUDT1 |
| -0.398056418 | < 0.001 | 4157 | MC1R |
| -0.39839536 | < 0.001 | 3880 | KRT19 |
| -0.398666352 | < 0.001 | 163882 | C1orf71 |
| -0.398702949 | < 0.001 | 163702 | IL28RA |
| -0.39878875 | < 0.001 | 9260 | PDLIM7 |
| -0.398835093 | < 0.001 | 91801 | ALKBH8 |
| -0.39900291 | < 0.001 | 646999 | LOC646999 |
| -0.399067521 | < 0.001 | 2982 | GUCY1A3 |
| -0.399131596 | < 0.001 | 1022 | CDK7 |
| -0.399281681 | < 0.001 | 3736 | KCNA1 |
| -0.399516076 | < 0.001 | 11061 | LECT1 |
| -0.400043726 | < 0.001 | 5778 | PTPN7 |
| -0.400336087 | < 0.001 | 947 | CD34 |
| -0.40046832 | < 0.001 | 79734 | KCTD17 |
| -0.400606126 | < 0.001 | 254050 | LRRC43 |
| -0.40103963 | < 0.001 | 11113 | CIT |
| -0.40126121 | < 0.001 | 10625 | IVNS1ABP |
| -0.401359469 | < 0.001 | 54976 | C20orf27 |
| -0.401466459 | < 0.001 | 785 | CACNB4 |
| -0.401542783 | < 0.001 | 11320 | MGAT4A |
| -0.401621908 | < 0.001 | 1644 | DDC |
| -0.401673079 | < 0.001 | 128344 | C1orf88 |
| -0.401753962 | < 0.001 | 91608 | RASL10B |
| -0.401852131 | < 0.001 | 100289137 | LOC100289137 |
| -0.401934505 | < 0.001 | 136895 | C7orf31 |
| -0.402356833 | < 0.001 | 64116 | SLC39A8 |
| -0.402922392 | < 0.001 | 166815 | TIGD2 |
| -0.403055847 | < 0.001 | 116337 | PANX3 |
| -0.40320164 | < 0.001 | 4995 | OR3A2 |
| -0.403241009 | < 0.001 | 2551 | GABPA |
| -0.403702289 | < 0.001 | 10678 | B3GNT1 |
| -0.403754771 | < 0.001 | 5256 | PHKA2 |
| -0.404135495 | < 0.001 | 81698 | LINC00597 |
| -0.404157341 | < 0.001 | 286826 | LIN9 |
| -0.404321432 | < 0.001 | 6478 | SIAH2 |
| -0.404609948 | < 0.001 | 51409 | HEMK1 |
| -0.404955417 | < 0.001 | 283383 | GPR133 |
| -0.404979557 | < 0.001 | 133584 | EGFLAM |
| -0.405046433 | < 0.001 | 148418 | SAMD13 |
| -0.40507412 | < 0.001 | 84679 | SLC9A7 |
| -0.405098617 | < 0.001 | 317671 | RFESD |
| -0.405114323 | < 0.001 | 8387 | OR1E1 |
| -0.405550331 | < 0.001 | 943 | TNFRSF8 |
| -0.405829281 | < 0.001 | 654429 | LRTM2 |
| -0.405886114 | < 0.001 | 6397 | SEC14L1 |
| -0.406246066 | < 0.001 | 58986 | TMEM8A |
| -0.406322122 | < 0.001 | 92181 | UBTD2 |
| -0.406359941 | < 0.001 | 84182 | FAM188B |
| -0.40645501 | < 0.001 | 25957 | SFRS18 |
| -0.407045931 | < 0.001 | 10610 | ST6GALNAC2 |
| -0.407092929 | < 0.001 | 5618 | PRLR |
| -0.407386571 | < 0.001 | 84623 | KIRREL3 |
| -0.407402426 | < 0.001 | 4318 | MMP9 |
| -0.407937825 | < 0.001 | 83891 | SNX25 |
| -0.408401579 | < 0.001 | 9013 | TAF1C |
| -0.408408076 | < 0.001 | 64094 | SMOC2 |
| -0.408689469 | < 0.001 | 221806 | VWDE |
| -0.408827573 | < 0.001 | 1039 | CDR2 |
| -0.409553975 | < 0.001 | 987 | LRBA |
| -0.409632802 | < 0.001 | 1101 | CHAD |
| -0.409934253 | < 0.001 | 728464 | C6orf186 |
| -0.410337001 | < 0.001 | 386677 | KRTAP10-1 |
| -0.410560817 | < 0.001 | 8439 | NSMAF |
| -0.411396325 | < 0.001 | 145173 | B3GALTL |
| -0.411785632 | < 0.001 | 196996 | GRAMD2 |
| -0.411956489 | < 0.001 | 85477 | SCIN |
| -0.412080854 | < 0.001 | 388533 | KRTDAP |
| -0.412464559 | < 0.001 | 146802 | SLC47A2 |
| -0.412525296 | < 0.001 | 5276 | SERPINI2 |
| -0.412765086 | < 0.001 | 138065 | RNF183 |
| -0.412942171 | < 0.001 | 64785 | GINS3 |
| -0.413151205 | < 0.001 | 132204 | SYNPR |
| -0.413338333 | < 0.001 | 134728 | IRAK1BP1 |
| -0.413494736 | < 0.001 | 4091 | SMAD6 |
| -0.414412796 | < 0.001 | 56130 | PCDHB6 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.488803059 | 0.002783002 | 0.003 | 1 | 29075 | RP5-1068E13.3 |
| -0.489060491 | 0.002767013 | 0.002 | 1 | 2828 | GPR4 |
| -0.489317864 | 0.002751105 | 0.003 | 1 | 374987 | NEXN-AS1 |
| -0.489575297 | 0.00273527 | 0.004 | 1 | 2982 | GUCY1A3 |
| -0.489832699 | 0.002719522 | 0.006 | 1 | 5322 | PLA2G5 |
| -0.489832699 | 0.002719522 | 0.005 | 1 | 9099 | USP2 |
| -0.489832699 | 0.002719522 | 0.001 | 1 | 57522 | SRGAP1 |
| -0.490090072 | 0.002703857 | 0.008 | 1 | 79413 | ZBED2 |
| -0.490347505 | 0.002688267 | 0.002 | 1 | 1075 | CTSC |
| -0.490347505 | 0.002688267 | 0.004 | 1 | 57101 | ANO2 |
| -0.490604877 | 0.002672757 | 0.005 | 1 | 2296 | FOXC1 |
| -0.49086231 | 0.002657318 | 0.006 | 1 | 51666 | ASB4 |
| -0.49086231 | 0.002657318 | 0.002 | 1 | 134728 | IRAK1BP1 |
| -0.491634488 | 0.002611494 | 0.003 | 1 | 4256 | MGP |
| -0.491891891 | 0.002596363 | 0.005 | 1 | 2022 | ENG |
| -0.492406696 | 0.002566352 | 0.006 | 1 | 652 | BMP4 |
| -0.492921501 | 0.002536641 | 0.002 | 1 | 22822 | PHLDA1 |
| -0.492921501 | 0.002536641 | 0.006 | 1 | 646262 | RP1-74M1.1 |
| -0.493436307 | 0.002507237 | 0.007 | 1 | 203062 | TSNARE1 |
| -0.493951082 | 0.002478132 | 0.004 | 1 | 491 | ATP2B2 |
| -0.493951082 | 0.002478132 | 0.005 | 1 | 3554 | IL1R1 |
| -0.494208485 | 0.002463688 | 0.003 | 1 | 59 | ACTA2 |
| -0.494208485 | 0.002463688 | 0.001 | 1 | 6383 | SDC2 |
| -0.494465888 | 0.002449318 | 0.009 | 1 | 11113 | CIT |
| -0.494465888 | 0.002449318 | 0.005 | 1 | 83482 | SCRT1 |
| -0.494465888 | 0.002449318 | 0.004 | 1 | 94081 | SFXN1 |
| -0.49472329 | 0.002435028 | 0.004 | 1 | 10978 | CLP1 |
| -0.495238066 | 0.002406655 | 0.007 | 1 | 79616 | CCNJL |
| -0.495495498 | 0.002392581 | 0.003 | 1 | 25953 | PNKD |
| -0.495495498 | 0.002392581 | 0.002 | 1 | 51776 | ZAK |
| -0.495752871 | 0.002378579 | 0.004 | 1 | 151126 | ZNF385B |
| -0.496525079 | 0.002336998 | 0.007 | 1 | 5863 | RGL2 |
| -0.496782511 | 0.002323285 | 0.008 | 1 | 7226 | TRPM2 |
| -0.496782511 | 0.002323285 | 0.002 | 1 | 339201 | C17orf65 |
| -0.497297317 | 0.002296066 | 0.005 | 1 | 3741 | KCNA5 |
| -0.49755469 | 0.002282553 | 0.008 | 1 | 23762 | OSBP2 |
| -0.497812092 | 0.002269122 | 0.005 | 1 | 29028 | ATAD2 |
| -0.498069495 | 0.002255757 | 0.004 | 1 | 116535 | MRGPRF |
| -0.4985843 | 0.002229229 | 0.004 | 1 | 80185 | C8orf41 |
| -0.498841703 | 0.002216071 | 0.002 | 1 | 1668 | DEFA3 |
| -0.498841703 | 0.002216071 | 0.004 | 1 | 56121 | PCDHB15 |
| -0.498841703 | 0.002216071 | 0.003 | 1 | 284370 | ZNF615 |
| -0.499099076 | 0.002202981 | 0.004 | 1 | 1308 | COL17A1 |
| -0.499613881 | 0.002177 | 0.005 | 1 | 79025 | C20orf195 |
| -0.500128686 | 0.002151295 | 0.006 | 1 | 2328 | FMO3 |
| -0.500128686 | 0.002151295 | 0.002 | 1 | 7222 | TRPC3 |
| -0.501158297 | 0.002100681 | 0.003 | 1 | 83439 | TCF7L1 |
| -0.501158297 | 0.002100681 | 0.005 | 1 | 93986 | FOXP2 |
| -0.50141567 | 0.002088192 | 0.005 | 1 | 23223 | RRP12 |
| -0.501673102 | 0.00207577 | 0.005 | 1 | 54839 | LRRC49 |
| -0.502187908 | 0.002051114 | 0.001 | 1 | 100129543 | ZNF730 |
| -0.502702653 | 0.002026725 | 0.001 | 1 | 93190 | C1orf158 |
| -0.502960086 | 0.002014619 | 0.002 | 1 | 59347 | FKSG2 |
| -0.503217459 | 0.002002583 | 0.008 | 1 | 2831 | NPBWR1 |
| -0.503732324 | 0.001978699 | 0.007 | 1 | 222537 | HS3ST5 |
| -0.503989697 | 0.001966852 | 0.003 | 1 | 64518 | TEKT3 |
| -0.503989697 | 0.001966852 | 0.006 | 1 | 440854 | CAPN14 |
| -0.504247129 | 0.001955062 | 0.002 | 1 | 23286 | WWC1 |
| -0.504247129 | 0.001955062 | 0.001 | 1 | 55188 | RIC8B |
| -0.504504502 | 0.001943343 | 0.004 | 1 | 4661 | MYT1 |
| -0.504761934 | 0.001931679 | 0.001 | 1 | 339501 | MPN2 |
| -0.505019307 | 0.001920083 | 0.003 | 1 | 56172 | ANKH |
| -0.50527668 | 0.001908538 | 0.005 | 1 | 2668 | GDNF |
| -0.50527668 | 0.001908538 | 0.004 | 1 | 5325 | PLAGL1 |
| -0.505534112 | 0.001897064 | 0.005 | 1 | 56311 | ANKRD7 |
| -0.505791485 | 0.001885648 | 0.005 | 1 | 11035 | RIPK3 |
| -0.506306291 | 0.001862994 | 0.004 | 1 | 642475 | C8orf73 |
| -0.506563663 | 0.001851759 | 0.004 | 1 | 5003 | SLC22A18AS |
| -0.507593274 | 0.001807413 | 0.004 | 1 | 49854 | ZNF295 |
| -0.508108079 | 0.001785594 | 0.004 | 1 | 6674 | SPAG1 |
| -0.508622885 | 0.001764002 | 0.003 | 1 | 7373 | COL14A1 |
| -0.508622885 | 0.001764002 | 0.008 | 1 | 8685 | MARCO |
| -0.508880317 | 0.001753296 | 0.003 | 1 | 90075 | ZNF30 |
| -0.508880317 | 0.001753296 | 0.003 | 1 | 197322 | ACSF3 |
| -0.50913769 | 0.001742649 | 0.005 | 1 | 729786 | GOLGA8C |
| -0.509395123 | 0.001732056 | 0.002 | 1 | 57604 | KIAA1456 |
| -0.509395123 | 0.001732056 | 0.002 | 1 | 64981 | MRPL34 |
| -0.509652495 | 0.001721516 | 0.004 | 1 | 9162 | DGKI |
| -0.510424674 | 0.001690248 | 0.002 | 1 | 29122 | TSP50 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.415181458 | < 0.001 | 123099 | DEGS2 |
| -0.415565372 | < 0.001 | 56256 | SERTAD4 |
| -0.415628612 | < 0.001 | 50515 | CHST11 |
| -0.415876657 | < 0.001 | 153769 | SH3RF2 |
| -0.416158408 | < 0.001 | 10867 | TSPAN9 |
| -0.416417867 | < 0.001 | 9902 | MRC2 |
| -0.416505814 | < 0.001 | 130367 | SGPP2 |
| -0.416767061 | < 0.001 | 7015 | TERT |
| -0.416866034 | < 0.001 | 53820 | DSCR6 |
| -0.416902274 | < 0.001 | 347252 | IGFBPL1 |
| -0.417130232 | < 0.001 | 1690 | COCH |
| -0.417442173 | < 0.001 | 5225 | PGC |
| -0.418821514 | < 0.001 | 9099 | USP2 |
| -0.419027507 | < 0.001 | 2977 | GUCY1A2 |
| -0.419572264 | < 0.001 | 150763 | GPAT2 |
| -0.419685721 | < 0.001 | 2788 | AC005512.1 |
| -0.419879436 | < 0.001 | 65065 | NBEAL1 |
| -0.421010852 | < 0.001 | 152519 | NIPAL1 |
| -0.421085507 | < 0.001 | 4879 | NPPB |
| -0.421241879 | < 0.001 | 339416 | ANKRD45 |
| -0.421453446 | < 0.001 | 7367 | UGT2B17 |
| -0.421875507 | < 0.001 | 10385 | BTN2A2 |
| -0.421941161 | < 0.001 | 25973 | PARS2 |
| -0.422336787 | < 0.001 | 23223 | RRP12 |
| -0.422387749 | < 0.001 | 80127 | C14orf45 |
| -0.422448575 | < 0.001 | 56311 | ANKRD7 |
| -0.423809618 | < 0.001 | 7222 | TRPC3 |
| -0.424165666 | < 0.001 | 687 | KLF9 |
| -0.424276292 | < 0.001 | 29098 | RANGRF |
| -0.424564272 | < 0.001 | 168544 | ZNF467 |
| -0.424639851 | < 0.001 | 54970 | TTC12 |
| -0.424711913 | < 0.001 | 79828 | METTL8 |
| -0.424773961 | < 0.001 | 277 | AMY1B |
| -0.425274968 | < 0.001 | 8899 | PRPF4B |
| -0.425343305 | < 0.001 | 54586 | C9orf11 |
| -0.425706416 | < 0.001 | 80746 | TSEN2 |
| -0.425741702 | < 0.001 | 203111 | C8orf47 |
| -0.425750911 | < 0.001 | 8741 | TNFSF13 |
| -0.425962269 | < 0.001 | 7162 | TPBG |
| -0.426032394 | < 0.001 | 196483 | FAM86A |
| -0.426443696 | < 0.001 | 129401 | NUP35 |
| -0.426679462 | < 0.001 | 4703 | NEB |
| -0.427386463 | < 0.001 | 84080 | C16orf48 |
| -0.427481264 | < 0.001 | 1080 | CFTR |
| -0.427507728 | < 0.001 | 64981 | MRPL34 |
| -0.427622527 | < 0.001 | 25953 | PNKD |
| -0.427672863 | < 0.001 | 1375 | CPT1B |
| -0.428216666 | < 0.001 | 5090 | PBX3 |
| -0.428216964 | < 0.001 | 79583 | AC009163.1 |
| -0.42842266 | < 0.001 | 8528 | DDO |
| -0.428490371 | < 0.001 | 1540 | CYLD |
| -0.428782523 | < 0.001 | 22822 | PHLDA1 |
| -0.428813994 | < 0.001 | 6310 | ATXN1 |
| -0.429058224 | < 0.001 | 8771 | TNFRSF6B |
| -0.429384112 | < 0.001 | 254531 | LPCAT4 |
| -0.429689616 | < 0.001 | 3554 | IL1R1 |
| -0.429741442 | < 0.001 | 7226 | TRPM2 |
| -0.429914176 | < 0.001 | 2242 | FES |
| -0.429995239 | < 0.001 | 90075 | ZNF30 |
| -0.431020021 | < 0.001 | 4023 | LPL |
| -0.431446105 | < 0.001 | 26074 | C20orf26 |
| -0.431738347 | < 0.001 | 25914 | RTTN |
| -0.431922883 | < 0.001 | 79887 | PLBD1 |
| -0.432079345 | < 0.001 | 2009 | EML1 |
| -0.432239354 | < 0.001 | 93099 | DMKN |
| -0.432475984 | < 0.001 | 2869 | GRK5 |
| -0.43323794 | < 0.001 | 55612 | FERMT1 |
| -0.433387816 | < 0.001 | 1308 | COL17A1 |
| -0.433410853 | < 0.001 | 286464 | CXorf59 |
| -0.434181452 | < 0.001 | 118980 | SFXN2 |
| -0.43420729 | < 0.001 | 3741 | KCNA5 |
| -0.434228629 | < 0.001 | 6710 | SPTB |
| -0.434440553 | < 0.001 | 861 | RUNX1 |
| -0.434715271 | < 0.001 | 127845 | GOLT1A |
| -0.434743673 | < 0.001 | 23154 | NCDN |
| -0.434839338 | < 0.001 | 29127 | RACGAP1P |
| -0.435402095 | < 0.001 | 10395 | DLC1 |
| -0.435796112 | < 0.001 | 284370 | ZNF615 |
| -0.436090976 | < 0.001 | 55188 | RIC8B |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.510682106 | 0.001679937 | 0.002 | 1 | 25769 | SLC24A2 |
| -0.510682106 | 0.001679937 | < 0.001 | < 0.001 | 51765 | STK3 |
| -0.511196911 | 0.001659477 | 0.003 | 1 | 54586 | C9orf11 |
| -0.513256133 | 0.00157983 | 0.003 | 1 | 2138 | EYA1 |
| -0.513256133 | 0.00157983 | 0.002 | 1 | 392862 | GRID2IP |
| -0.513770878 | 0.001560454 | 0.001 | 1 | 3263 | HPX |
| -0.514543116 | 0.001531783 | 0.004 | 1 | 64127 | NOD2 |
| -0.514543116 | 0.001531783 | 0.003 | 1 | 652995 | UCA1 |
| -0.514800489 | 0.00152233 | 0.001 | 1 | 7424 | VEGFC |
| -0.515315294 | 0.001503575 | 0.004 | 1 | 100130934 | ZNF663 |
| -0.516602337 | 0.001457586 | 0.003 | 1 | 57649 | PHF12 |
| -0.517117083 | 0.001439542 | 0.002 | 1 | 9020 | MAP3K14 |
| -0.517631948 | 0.001421691 | 0.001 | 1 | 160851 | DGKH |
| -0.517889321 | 0.001412841 | 0.003 | 1 | 79228 | THOC6 |
| -0.518146694 | 0.001404043 | 0.001 | 1 | 143686 | SESN3 |
| -0.518918931 | 0.001377923 | 0.003 | 1 | 730087 | ZNF726 |
| -0.519176304 | 0.001369317 | 0.001 | 1 | 7030 | TFE3 |
| -0.519176304 | 0.001369317 | 0.002 | 1 | 730232 | EEF1A1P32 |
| -0.51969111 | 0.001352242 | 0.003 | 1 | 57703 | CWC22 |
| -0.519948542 | 0.001343772 | 0.005 | 1 | 25788 | RAD54B |
| -0.519948542 | 0.001343772 | 0.004 | 1 | 79974 | C7orf58 |
| -0.520205915 | 0.001335353 | < 0.001 | < 0.001 | 339488 | TFAP2E |
| -0.520463288 | 0.00132698 | 0.003 | 1 | 389432 | SAMD5 |
| -0.520978153 | 0.00131037 | 0.004 | 1 | 2120 | ETV6 |
| -0.521492898 | 0.001293947 | < 0.001 | < 0.001 | 51176 | LEF1 |
| -0.521750331 | 0.001285807 | 0.003 | 1 | 3699 | ITIH3 |
| -0.521750331 | 0.001285807 | 0.001 | 1 | 10846 | PDE10A |
| -0.522007763 | 0.001277705 | 0.003 | 1 | 1381 | CRABP1 |
| -0.522007763 | 0.001277705 | 0.003 | 1 | 57801 | HES4 |
| -0.522779942 | 0.001253683 | 0.001 | 1 | 1672 | DEFB1 |
| -0.522779942 | 0.001253683 | 0.002 | 1 | 1943 | EFNA2 |
| -0.523037314 | 0.001245765 | 0.001 | 1 | 29992 | PILRA |
| -0.524066925 | 0.00121453 | 0.002 | 1 | 728299 | KRTAP19-8 |
| -0.524324298 | 0.001206829 | 0.005 | 1 | 6241 | RRM2 |
| -0.52458173 | 0.001199174 | 0.004 | 1 | 339263 | C17orf51 |
| -0.524839103 | 0.001191561 | 0.004 | 1 | 286826 | LIN9 |
| -0.525096536 | 0.001183991 | 0.001 | 1 | 80868 | HCG4B |
| -0.525611281 | 0.001168976 | < 0.001 | < 0.001 | 645249 | RP5-1121A15.1 |
| -0.525868714 | 0.001161535 | 0.004 | 1 | 8483 | CILP |
| -0.525868714 | 0.001161535 | 0.002 | 1 | 84940 | CORO6 |
| -0.526126146 | 0.001154133 | 0.004 | 1 | 687 | KLF9 |
| -0.526126146 | 0.001154133 | 0.001 | 1 | 56929 | FEM1C |
| -0.526126146 | 0.001154133 | 0.004 | 1 | 57464 | FAM40B |
| -0.526640892 | 0.001139454 | 0.001 | 1 | 7127 | TNFAIP2 |
| -0.526898324 | 0.00113218 | < 0.001 | < 0.001 | 100289350 | LOC100289350 |
| -0.52741313 | 0.001117751 | 0.002 | 1 | 126375 | ZNF792 |
| -0.527670503 | 0.001110595 | 0.002 | 1 | 8273 | SLC10A3 |
| -0.527927935 | 0.001103482 | 0.001 | 1 | 2662 | GDF10 |
| -0.529214919 | 0.001068519 | < 0.001 | < 0.001 | 840 | CASP7 |
| -0.529214919 | 0.001068519 | 0.002 | 1 | 11332 | ACOT7 |
| -0.529214919 | 0.001068519 | 0.001 | 1 | 85461 | TANC1 |
| -0.529472351 | 0.001061648 | 0.001 | 1 | 120114 | FAT3 |
| -0.530244529 | 0.00104126 | 0.001 | 1 | 54738 | FEV |
| -0.530501962 | 0.001034543 | 0.001 | 1 | 8178 | ELL |
| -0.530501962 | 0.001034543 | 0.004 | 1 | 51480 | VCX2 |
| -0.530759275 | 0.001027864 | 0.002 | 1 | 10867 | TSPAN9 |
| -0.530759275 | 0.001027864 | 0.002 | 1 | 22844 | FRMPD1 |
| -0.53127414 | 0.001014617 | 0.001 | 1 | 3891 | KRT85 |
| -0.531531513 | 0.001008054 | 0.001 | 1 | 81029 | WNT5B |
| -0.531788945 | 0.001001528 | 0.001 | 1 | 135 | ADORA2A |
| -0.532046318 | 0.000995035 | 0.002 | 1 | 3880 | KRT19 |
| -0.532046318 | 0.000995035 | 0.001 | 1 | 84074 | QRICH2 |
| -0.532561123 | 0.000982168 | 0.005 | 1 | 129521 | NMS |
| -0.532818556 | 0.000975789 | 0.001 | 1 | 23062 | GGA2 |
| -0.532818556 | 0.000975789 | < 0.001 | < 0.001 | 56287 | GKN1 |
| -0.533075929 | 0.000969448 | 0.003 | 1 | 10614 | HEXIM1 |
| -0.533333302 | 0.00096314 | 0.001 | 1 | 6934 | TCF7L2 |
| -0.533848166 | 0.000950641 | 0.001 | 1 | 23554 | TSPAN12 |
| -0.534877777 | 0.000926068 | 0.002 | 1 | 10142 | AKAP9 |
| -0.53513509 | 0.000920014 | < 0.001 | < 0.001 | 7448 | VTN |
| -0.535392523 | 0.000913997 | 0.001 | 1 | 344838 | PAQR9 |
| -0.535649955 | 0.000908009 | 0.004 | 1 | 256374 | LOC256374 |
| -0.536936939 | 0.000878607 | 0.003 | 1 | 1847 | DUSP |
| -0.536936939 | 0.000878607 | 0.001 | 1 | 50507 | NOX4 |
| -0.536936939 | 0.000878607 | 0.003 | 1 | 84727 | SPSB2 |
| -0.536936939 | 0.000878607 | 0.003 | 1 | 138065 | RNF183 |
| -0.537194312 | 0.000872829 | 0.006 | 1 | 9481 | SLC25A27 |
| -0.537451744 | 0.000867085 | 0.001 | 1 | 29842 | TFCP2L1 |
| -0.537709117 | 0.000861373 | 0.001 | 1 | 118980 | SFXN2 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.436233521 | < 0.001 | 147276 | C18orf15 |
| -0.437116593 | < 0.001 | 6899 | TBX1 |
| -0.438080519 | < 0.001 | 344758 | GPR149 |
| -0.438568652 | < 0.001 | 6569 | SLC34A1 |
| -0.439374715 | < 0.001 | 389834 | LOC389834 |
| -0.439950287 | < 0.001 | 127833 | SYT2 |
| -0.440026909 | < 0.001 | 4881 | NPR1 |
| -0.440029055 | < 0.001 | 81029 | WNT5B |
| -0.440546304 | < 0.001 | 85463 | ZC3H12C |
| -0.440678269 | < 0.001 | 257236 | CCDC96 |
| -0.44228217 | < 0.001 | 54763 | ROPN1 |
| -0.443277687 | < 0.001 | 221178 | SPATA13 |
| -0.44347316 | < 0.001 | 152831 | KLB |
| -0.443479955 | < 0.001 | 79817 | MOBKL2B |
| -0.444622934 | < 0.001 | 27040 | LAT |
| -0.444679767 | < 0.001 | 400831 | RP4-545L17.1 |
| -0.444717467 | < 0.001 | 49 | ACR |
| -0.444922358 | < 0.001 | 10901 | DHRS4 |
| -0.445227236 | < 0.001 | 645249 | RP5-1121A15.1 |
| -0.446857303 | < 0.001 | 49854 | ZNF295 |
| -0.44685933 | < 0.001 | 55076 | TMEM45A |
| -0.447626591 | < 0.001 | 80325 | ABTB1 |
| -0.448203206 | < 0.001 | 6892 | TAPBP |
| -0.448472053 | < 0.001 | 4914 | NTRK1 |
| -0.448548764 | < 0.001 | 58516 | FAM60A |
| -0.448552489 | < 0.001 | 5456 | POU3F4 |
| -0.449864209 | < 0.001 | 157285 | AC068353.1 |
| -0.450083941 | < 0.001 | 9866 | TRIM66 |
| -0.450588286 | < 0.001 | 79698 | ZMAT4 |
| -0.45157209 | < 0.001 | 340061 | TMEM173 |
| -0.453066677 | < 0.001 | 161497 | STRC |
| -0.453347981 | < 0.001 | 4017 | LOXL2 |
| -0.453352332 | < 0.001 | 374987 | NEXN-AS1 |
| -0.455180138 | < 0.001 | 29842 | TFCP2L1 |
| -0.455831856 | < 0.001 | 57801 | HES4 |
| -0.45606032 | < 0.001 | 56128 | PCDHB8 |
| -0.456292391 | < 0.001 | 645879 | FAM90A12P |
| -0.45645982 | < 0.001 | 84684 | INSM2 |
| -0.456465036 | < 0.001 | 11255 | HRH3 |
| -0.456940234 | < 0.001 | 151 | ADRA2B |
| -0.457051665 | < 0.001 | 7448 | VTN |
| -0.457879484 | < 0.001 | 9252 | RPS6KA5 |
| -0.457990915 | < 0.001 | 84864 | MINA |
| -0.458005011 | < 0.001 | 25788 | RAD54B |
| -0.458663166 | < 0.001 | 3757 | KCNH2 |
| -0.45902589 | < 0.001 | 5596 | MAPK4 |
| -0.45922482 | < 0.001 | 10666 | CD226 |
| -0.459234953 | < 0.001 | 1071 | CETP |
| -0.46026352 | < 0.001 | 126375 | ZNF792 |
| -0.460572869 | < 0.001 | 728485 | LOC728485 |
| -0.460766196 | < 0.001 | 100129781 | LOC100129781 |
| -0.461150199 | < 0.001 | 1813 | DRD2 |
| -0.46124652 | < 0.001 | 23387 | AP006216.1 |
| -0.461571455 | < 0.001 | 80326 | WNT10A |
| -0.46247828 | < 0.001 | 5178 | PEG3AS |
| -0.462731808 | < 0.001 | 90507 | SCRN2 |
| -0.462807119 | < 0.001 | 56937 | PMEPA1 |
| -0.462856054 | < 0.001 | 285513 | GPRIN3 |
| -0.463536948 | < 0.001 | 163486 | DENND1B |
| -0.463711351 | < 0.001 | 701 | BUB1B |
| -0.464141995 | < 0.001 | 51136 | RNFT1 |
| -0.464725286 | < 0.001 | 64766 | S100PBP |
| -0.465016514 | < 0.001 | 1628 | DBP |
| -0.466324806 | < 0.001 | 1004 | CDH6 |
| -0.467568189 | < 0.001 | 439921 | MXRA7 |
| -0.468197346 | < 0.001 | 222537 | HS3ST5 |
| -0.468431175 | < 0.001 | 9162 | DGKI |
| -0.469656646 | < 0.001 | 286410 | ATP11C |
| -0.47002393 | < 0.001 | 114789 | SLC25A25 |
| -0.47003442 | < 0.001 | 343637 | RSPO4 |
| -0.470149398 | < 0.001 | 285622 | NBPF22P |
| -0.471016675 | < 0.001 | 131544 | CRYBG3 |
| -0.471215129 | < 0.001 | 6241 | RRM2 |
| -0.472091764 | < 0.001 | 56099 | PCDHGB7 |
| -0.473032981 | < 0.001 | 168002 | DACT2 |
| -0.473189086 | < 0.001 | 9828 | ARHGEF17 |
| -0.475019276 | < 0.001 | 5066 | PAM |
| -0.478243321 | < 0.001 | 1879 | EBF1 |
| -0.478407681 | < 0.001 | 390874 | ONECUT3 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.538223922 | 0.000850052 | < 0.001 | < 0.001 | 1286 | COL4A4 |
| -0.539253533 | 0.000827806 | 0.001 | 1 | 8565 | YARS |
| -0.539253533 | 0.000827806 | < 0.001 | < 0.001 | 10100 | TSPAN2 |
| -0.540283144 | 0.000806076 | 0.001 | 1 | 283383 | GPR133 |
| -0.540797949 | 0.000795404 | 0.002 | 1 | 133584 | EGFLAM |
| -0.541055322 | 0.000790114 | 0.002 | 1 | 2894 | GRID1 |
| -0.541055322 | 0.000790114 | 0.003 | 1 | 27299 | ADAMDEC1 |
| -0.541312754 | 0.000784856 | 0.001 | 1 | 84630 | TTBK1 |
| -0.542084932 | 0.000769269 | < 0.001 | < 0.001 | 150084 | IGSF5 |
| -0.542342365 | 0.000764133 | 0.001 | 1 | 57512 | GPR158 |
| -0.542599738 | 0.000759031 | < 0.001 | < 0.001 | 127064 | OR2T12 |
| -0.542599738 | 0.000759031 | 0.004 | 1 | 100125556 | RP11-666A20.1 |
| -0.543114543 | 0.000748914 | 0.001 | 1 | 10324 | KBTBD10 |
| -0.543114543 | 0.000748914 | 0.002 | 1 | 65265 | C8orf33 |
| -0.543371975 | 0.000743898 | 0.002 | 1 | 1628 | DBP |
| -0.543371975 | 0.000743898 | 0.004 | 1 | 6327 | SCN2B |
| -0.543629289 | 0.000738915 | 0.002 | 1 | 6533 | SLC6A6 |
| -0.543629289 | 0.000738915 | < 0.001 | < 0.001 | 80325 | ABTB1 |
| -0.544401526 | 0.00072414 | 0.002 | 1 | 2637 | GBX2 |
| -0.544658899 | 0.000719275 | 0.002 | 1 | 84657 | GHRLOS2 |
| -0.545431137 | 0.000704852 | 0.001 | 1 | 80004 | ESRP2 |
| -0.545945942 | 0.00069538 | 0.001 | 1 | 4157 | MC1R |
| -0.546203315 | 0.000690687 | < 0.001 | < 0.001 | 56099 | PCDHGB7 |
| -0.546203315 | 0.000690687 | 0.002 | 1 | 150135 | LINC00479 |
| -0.546203315 | 0.000690687 | 0.002 | 1 | 163933 | FAM43B |
| -0.54671818 | 0.000681383 | < 0.001 | < 0.001 | 389421 | LIN28B |
| -0.546975493 | 0.000676774 | 0.001 | 1 | 400831 | RP4-545L17.1 |
| -0.546975493 | 0.000676774 | 0.002 | 1 | 729440 | CCDC61 |
| -0.548519969 | 0.000649696 | 0.001 | 1 | 23551 | RASD2 |
| -0.548777342 | 0.000645278 | 0.001 | 1 | 83891 | SNX25 |
| -0.549034715 | 0.000640885 | 0.001 | 1 | 1775 | DNASE1L2 |
| -0.549034715 | 0.000640885 | < 0.001 | < 0.001 | 196996 | GRAMD2 |
| -0.54954952 | 0.000632183 | < 0.001 | < 0.001 | 653641 | GOLGA6C |
| -0.549806952 | 0.000627873 | 0.002 | 1 | 113235 | SLC46A1 |
| -0.550064325 | 0.000623584 | 0.002 | 1 | 654429 | LRTM2 |
| -0.550321758 | 0.000619326 | 0.001 | 1 | 4112 | MAGEB1 |
| -0.551093936 | 0.000606701 | < 0.001 | < 0.001 | 145173 | B3GALTL |
| -0.552123487 | 0.000590227 | < 0.001 | < 0.001 | 85403 | EAF1 |
| -0.552380919 | 0.00058617 | 0.002 | 1 | 9641 | IKBKE |
| -0.552380919 | 0.00058617 | < 0.001 | < 0.001 | 286554 | BCORP1 |
| -0.553667963 | 0.000566259 | 0.001 | 1 | 6710 | SPTB |
| -0.553667963 | 0.000566259 | 0.003 | 1 | 23742 | C15orf2 |
| -0.554440141 | 0.000554604 | 0.001 | 1 | 146802 | SLC47A2 |
| -0.554954946 | 0.000546955 | 0.001 | 1 | 196483 | FAM86A |
| -0.555212379 | 0.000543164 | 0.001 | 1 | 254531 | LPCAT4 |
| -0.555212379 | 0.000543164 | 0.002 | 1 | 388152 | AC103965.1 |
| -0.555469751 | 0.000539398 | 0.001 | 1 | 221981 | THSD7A |
| -0.555984557 | 0.000531934 | 0.002 | 1 | 84189 | SLITRK6 |
| -0.556499302 | 0.000524563 | < 0.001 | < 0.001 | 8741 | TNFSF13 |
| -0.556499302 | 0.000524563 | 0.001 | 1 | 282996 | RBM20 |
| -0.557014167 | 0.000517282 | 0.001 | 1 | 728635 | DHRS4L1 |
| -0.559845507 | 0.000478829 | < 0.001 | < 0.001 | 158248 | TTC16 |
| -0.560875118 | 0.000465492 | 0.001 | 1 | 6550 | SLC9A3 |
| -0.561647356 | 0.000455706 | 0.001 | 1 | 80745 | THUMPD2 |
| -0.562676966 | 0.000442946 | 0.001 | 1 | 26074 | C20orf26 |
| -0.562934339 | 0.000439806 | < 0.001 | < 0.001 | 3158 | HMGCS2 |
| -0.562934339 | 0.000439806 | 0.002 | 1 | 196264 | MPZL3 |
| -0.563449144 | 0.000433585 | < 0.001 | < 0.001 | 645332 | AP003716.1 |
| -0.563706577 | 0.000430505 | < 0.001 | < 0.001 | 116151 | C20orf108 |
| -0.564221323 | 0.000424403 | < 0.001 | < 0.001 | 285622 | NBPF22P |
| -0.564478755 | 0.000421382 | 0.001 | 1 | 1540 | CYLD |
| -0.566537976 | 0.000397887 | 0.001 | 1 | 644019 | CBWD6 |
| -0.566795349 | 0.000395032 | < 0.001 | < 0.001 | 285533 | RNF175 |
| -0.567567527 | 0.000386584 | < 0.001 | < 0.001 | 92610 | TIFA |
| -0.568082392 | 0.00038104 | < 0.001 | < 0.001 | 5336 | PLCG2 |
| -0.569369316 | 0.000367491 | 0.001 | 1 | 4995 | OR3A2 |
| -0.570398927 | 0.000356965 | < 0.001 | < 0.001 | 773 | CACNA1A |
| -0.570656359 | 0.000354376 | < 0.001 | < 0.001 | 416 | ARSF |
| -0.571171165 | 0.000349249 | < 0.001 | < 0.001 | 29090 | C18orf55 |
| -0.572200775 | 0.000339191 | 0.001 | 1 | 81491 | GPR63 |
| -0.572458148 | 0.000336716 | 0.002 | 1 | 3757 | KCNH2 |
| -0.575289607 | 0.000310554 | < 0.001 | < 0.001 | 54329 | GPR85 |
| -0.576061785 | 0.000303741 | 0.001 | 1 | 4902 | NRTN |
| -0.576319158 | 0.0003015 | < 0.001 | < 0.001 | 56130 | PCDHB6 |
| -0.576576591 | 0.000299274 | < 0.001 | < 0.001 | 90853 | SPOCD1 |
| -0.576833963 | 0.000297064 | < 0.001 | < 0.001 | 3751 | KCND2 |
| -0.578120947 | 0.000286224 | < 0.001 | < 0.001 | 54836 | BSPRY |
| -0.578378379 | 0.0002841 | < 0.001 | < 0.001 | 771 | CA12 |
| -0.579665363 | 0.000273686 | 0.001 | 1 | 9627 | SNCAIP |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.478413075 | < 0.001 | 4902 | NRTN |
| -0.47883153 | < 0.001 | 91624 | NEXN |
| -0.480184406 | < 0.001 | 143686 | SESN3 |
| -0.480657548 | < 0.001 | 29952 | DPP7 |
| -0.481593162 | < 0.001 | 57101 | ANO2 |
| -0.4820849 | < 0.001 | 124274 | GPR139 |
| -0.482460171 | < 0.001 | 10846 | PDE10A |
| -0.482517749 | < 0.001 | 654 | BMP6 |
| -0.482553869 | < 0.001 | 83541 | FAM110A |
| -0.482578754 | < 0.001 | 440021 | KRTAP5-2 |
| -0.48410669 | < 0.001 | 8178 | ELL |
| -0.484799176 | < 0.001 | 7475 | WNT6 |
| -0.48593086 | < 0.001 | 150379 | PNPLA5 |
| -0.485996604 | < 0.001 | 1381 | CRABP1 |
| -0.486345947 | < 0.001 | 8711 | TNK1 |
| -0.486970752 | < 0.001 | 27092 | CACNG4 |
| -0.48710978 | < 0.001 | 6553 | SLC9A5 |
| -0.488486528 | < 0.001 | 268 | AMH |
| -0.488657296 | < 0.001 | 256076 | COL29A1 |
| -0.488704294 | < 0.001 | 728635 | DHRS4L1 |
| -0.489157379 | < 0.001 | 654790 | PCP4L1 |
| -0.489293158 | < 0.001 | 85397 | RGS8 |
| -0.489867717 | < 0.001 | 3751 | KCND2 |
| -0.490109622 | < 0.001 | 160851 | DGKH |
| -0.492380202 | < 0.001 | 125058 | TBC1D16 |
| -0.492624074 | < 0.001 | 22987 | SV2C |
| -0.493019313 | < 0.001 | 23062 | GGA2 |
| -0.493172824 | < 0.001 | 135 | ADORA2A |
| -0.49320811 | < 0.001 | 57512 | GPR158 |
| -0.495251238 | < 0.001 | 57464 | FAM40B |
| -0.495402157 | < 0.001 | 22874 | PLEKHA6 |
| -0.495595127 | < 0.001 | 157506 | RDH10 |
| -0.496398598 | < 0.001 | 5997 | RGS2 |
| -0.497042358 | < 0.001 | 154197 | PNLDC1 |
| -0.497309148 | < 0.001 | 57522 | SRGAP1 |
| -0.499095351 | < 0.001 | 3738 | KCNA3 |
| -0.49993524 | < 0.001 | 5583 | PRKCH |
| -0.500123739 | < 0.001 | 4092 | SMAD7 |
| -0.50042814 | < 0.001 | 148281 | SYT6 |
| -0.500478745 | < 0.001 | 64410 | KLHL25 |
| -0.500561535 | < 0.001 | 136306 | SVOPL |
| -0.500615776 | < 0.001 | 5157 | PDGFRL |
| -0.501000941 | < 0.001 | 84189 | SLITRK6 |
| -0.501803339 | < 0.001 | 80868 | HCG4B |
| -0.502064466 | < 0.001 | 145447 | ABHD12B |
| -0.502158046 | < 0.001 | 85462 | FHDC1 |
| -0.503231943 | < 0.001 | 129607 | CMPK2 |
| -0.507031679 | < 0.001 | 9480 | ONECUT2 |
| -0.507416308 | < 0.001 | 26225 | ARL5A |
| -0.508548558 | < 0.001 | 57562 | KIAA1377 |
| -0.510961771 | < 0.001 | 51733 | UPB1 |
| -0.515823662 | < 0.001 | 23463 | ICMT |
| -0.51741761 | < 0.001 | 80215 | RUNX1-IT1 |
| -0.518377841 | < 0.001 | 9069 | CLDN12 |
| -0.518522441 | < 0.001 | 9641 | IKBKE |
| -0.520616412 | < 0.001 | 387914 | TMEM46 |
| -0.521389008 | < 0.001 | 2138 | EYA1 |
| -0.521693707 | < 0.001 | 153020 | RASGEF1B |
| -0.522237659 | < 0.001 | 57186 | C20orf74 |
| -0.525138497 | < 0.001 | 771 | CA12 |
| -0.525558352 | < 0.001 | 23551 | RASD2 |
| -0.526489675 | < 0.001 | 3624 | INHBA |
| -0.528961778 | < 0.001 | 1013 | CDH15 |
| -0.530067623 | < 0.001 | 90293 | KLHL13 |
| -0.532631755 | < 0.001 | 646658 | TMEM90A |
| -0.532928765 | < 0.001 | 51765 | STK3 |
| -0.533897519 | < 0.001 | 55024 | BANK1 |
| -0.534932911 | < 0.001 | 54836 | BSPRY |
| -0.536795795 | < 0.001 | 150084 | IGSF5 |
| -0.536915839 | < 0.001 | 5121 | PCP4 |
| -0.542470634 | < 0.001 | 57633 | LRRN1 |
| -0.542942762 | < 0.001 | 80311 | KLHL15 |
| -0.544966578 | < 0.001 | 374655 | ZNF710 |
| -0.544983864 | < 0.001 | 9627 | SNCAIP |
| -0.545810282 | < 0.001 | 3632 | INPP5A |
| -0.545933902 | < 0.001 | 10235 | RASGRP2 |
| -0.546801805 | < 0.001 | 84727 | SPSB2 |
| -0.547943592 | < 0.001 | 120114 | FAT3 |
| -0.548263431 | < 0.001 | 9020 | MAP3K14 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.579665363 | 0.000273686 | 0.001 | 1 | 22874 | PLEKHA6 |
| -0.581209779 | 0.000261643 | < 0.001 | < 0.001 | 27092 | CACNG4 |
| -0.582496762 | 0.000251971 | < 0.001 | < 0.001 | 160518 | DENND5B |
| -0.58326894 | 0.000246324 | 0.001 | 1 | 9069 | CLDN12 |
| -0.58326894 | 0.000246324 | < 0.001 | < 0.001 | 81839 | VANGL1 |
| -0.583526373 | 0.000244467 | < 0.001 | < 0.001 | 150379 | PNPLA5 |
| -0.585585594 | 0.000230055 | < 0.001 | < 0.001 | 199221 | DZIP1L |
| -0.586872578 | 0.00022144 | < 0.001 | < 0.001 | 79734 | KCTD17 |
| -0.589446604 | 0.000205071 | < 0.001 | < 0.001 | 8846 | ALKBH1 |
| -0.590733588 | 0.000197301 | < 0.001 | < 0.001 | 10090 | UST |
| -0.594079792 | 0.000178323 | < 0.001 | < 0.001 | 390874 | ONECUT3 |
| -0.595624208 | 0.000170131 | < 0.001 | < 0.001 | 29057 | FAM156A |
| -0.596138954 | 0.000167476 | < 0.001 | < 0.001 | 388849 | LOC388849 |
| -0.596396387 | 0.000166162 | < 0.001 | < 0.001 | 7691 | ZNF132 |
| -0.599742591 | 0.000149913 | < 0.001 | < 0.001 | 254170 | FBXO33 |
| -0.600257337 | 0.000147544 | < 0.001 | < 0.001 | 1004 | CDH6 |
| -0.600772202 | 0.000145209 | < 0.001 | < 0.001 | 79875 | THSD4 |
| -0.602573991 | 0.000137296 | < 0.001 | < 0.001 | 85397 | RGS8 |
| -0.603088796 | 0.000135107 | 0.001 | 1 | 79698 | ZMAT4 |
| -0.603603601 | 0.00013295 | 0.001 | 1 | 1804 | DPP6 |
| -0.603860974 | 0.000131884 | < 0.001 | < 0.001 | 10251 | SPRY3 |
| -0.604633152 | 0.00012873 | 0.001 | 1 | 340061 | TMEM173 |
| -0.606435001 | 0.000121633 | 0.001 | 1 | 136306 | SVOPL |
| -0.606692374 | 0.000120648 | < 0.001 | < 0.001 | 84858 | ZNF503 |
| -0.607464612 | 0.000117737 | 0.001 | 1 | 2957 | GTF2A1 |
| -0.607464612 | 0.000117737 | < 0.001 | < 0.001 | 25914 | RTTN |
| -0.607721984 | 0.000116781 | < 0.001 | < 0.001 | 7755 | ZNF205 |
| -0.60823679 | 0.00011489 | < 0.001 | < 0.001 | 50515 | CHST11 |
| -0.610296011 | 0.000107599 | < 0.001 | < 0.001 | 83541 | FAM110A |
| -0.611068189 | 0.000104975 | < 0.001 | < 0.001 | 91624 | NEXN |
| -0.612612605 | 9.98983E-05 | < 0.001 | < 0.001 | 1013 | CDH15 |
| -0.614156961 | 9.50445E-05 | < 0.001 | < 0.001 | 22838 | RNF44 |
| -0.614414394 | 9.42566E-05 | < 0.001 | < 0.001 | 125058 | TBC1D16 |
| -0.614671826 | 9.34748E-05 | < 0.001 | < 0.001 | 161497 | STRC |
| -0.620077193 | 7.83513E-05 | < 0.001 | < 0.001 | 203074 | UNQ9391 |
| -0.621364236 | 7.50941E-05 | < 0.001 | < 0.001 | 5157 | PDGFRL |
| -0.622393847 | 7.25773E-05 | < 0.001 | < 0.001 | 6899 | TBX1 |
| -0.625225186 | 6.60458E-05 | < 0.001 | < 0.001 | 80311 | KLHL15 |
| -0.626254797 | 6.38061E-05 | < 0.001 | < 0.001 | 54084 | C21orf29 |
| -0.626254797 | 6.38061E-05 | < 0.001 | < 0.001 | 153020 | RASGEF1B |
| -0.62754184 | 6.11037E-05 | < 0.001 | < 0.001 | 10235 | RASGRP2 |
| -0.632689834 | 5.13034E-05 | < 0.001 | < 0.001 | 80326 | WNT10A |
| -0.640411854 | 3.92667E-05 | < 0.001 | < 0.001 | 4311 | MME |
| -0.642213643 | 3.68587E-05 | < 0.001 | < 0.001 | 374655 | ZNF710 |
| -0.643758059 | 3.49035E-05 | < 0.001 | < 0.001 | 9767 | PHF16 |
| -0.644015491 | 3.45872E-05 | < 0.001 | < 0.001 | 5066 | PAM |
| -0.645302415 | 3.30438E-05 | < 0.001 | < 0.001 | 387914 | TMEM46 |
| -0.645559847 | 3.27429E-05 | < 0.001 | < 0.001 | 109 | ADCY3 |
| -0.64864862 | 2.93227E-05 | < 0.001 | < 0.001 | 3274 | HRH2 |
| -0.649420798 | 2.85208E-05 | < 0.001 | < 0.001 | 57186 | C20orf74 |
| -0.651737452 | 2.62348E-05 | < 0.001 | < 0.001 | 701 | BUB1B |
| -0.653796613 | 2.43459E-05 | < 0.001 | < 0.001 | 63916 | ELMO2 |
| -0.654054046 | 2.41188E-05 | < 0.001 | < 0.001 | 343637 | RSPO4 |
| -0.654826224 | 2.34494E-05 | < 0.001 | < 0.001 | 150165 | XKR3 |
| -0.655083656 | 2.32301E-05 | < 0.001 | < 0.001 | 4881 | NPR1 |
| -0.656628072 | 2.19537E-05 | < 0.001 | < 0.001 | 11255 | HRH3 |
| -0.658172429 | 2.07428E-05 | < 0.001 | < 0.001 | 1277 | COL1A1 |
| -0.659459472 | 1.97816E-05 | < 0.001 | < 0.001 | 4703 | NEB |
| -0.66023165 | 1.92248E-05 | < 0.001 | < 0.001 | 646658 | TMEM90A |
| -0.661518633 | 1.83293E-05 | < 0.001 | < 0.001 | 90293 | KLHL13 |
| -0.664350033 | 1.64944E-05 | < 0.001 | < 0.001 | 10666 | CD226 |
| -0.664607465 | 1.63365E-05 | < 0.001 | < 0.001 | 4092 | SMAD7 |
| -0.665122271 | 1.60249E-05 | < 0.001 | < 0.001 | 285382 | C3orf70 |
| -0.665637016 | 1.57187E-05 | < 0.001 | < 0.001 | 3632 | INPP5A |
| -0.666151881 | 1.54181E-05 | < 0.001 | < 0.001 | 79919 | C2orf54 |
| -0.666409254 | 1.52699E-05 | < 0.001 | < 0.001 | 80215 | RUNX1-IT1 |
| -0.667696238 | 1.45483E-05 | < 0.001 | < 0.001 | 3738 | KCNA3 |
| -0.66795367 | 1.44079E-05 | < 0.001 | < 0.001 | 56128 | PCDHB8 |
| -0.668983221 | 1.38591E-05 | < 0.001 | < 0.001 | 23463 | ICMT |
| -0.675160825 | 1.09593E-05 | < 0.001 | < 0.001 | 8038 | ADAM12 |
| -0.676447868 | 1.04327E-05 | < 0.001 | < 0.001 | 55024 | BANK1 |
| -0.67850703 | 9.64002E-06 | < 0.001 | < 0.001 | 57562 | KIAA1377 |
| -0.679021895 | 9.45111E-06 | < 0.001 | < 0.001 | 100129781 | LOC100129781 |
| -0.681338489 | 8.64424E-06 | < 0.001 | < 0.001 | 57633 | LRRN1 |
| -0.681853235 | 8.47423E-06 | < 0.001 | < 0.001 | 340146 | SLC35D3 |
| -0.683140278 | 8.06315E-06 | < 0.001 | < 0.001 | 387496 | RASL11A |
| -0.688288271 | 6.60462E-06 | < 0.001 | < 0.001 | 5121 | PCP4 |
| -0.68906045 | 6.4095E-06 | < 0.001 | < 0.001 | 145447 | ABHD12B |
| -0.691634476 | 5.79932E-06 | < 0.001 | < 0.001 | 6553 | SLC9A5 |

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| -0.549173594 | < 0.001 | 340146 | SLC35D3 |
| -0.557477057 | < 0.001 | 4311 | MME |
| -0.558562458 | < 0.001 | 54084 | C21orf29 |
| -0.562510192 | < 0.001 | 2914 | GRM4 |
| -0.564779282 | < 0.001 | 1277 | COL1A1 |
| -0.569896579 | < 0.001 | 51279 | C1RL |
| -0.575270355 | < 0.001 | 8038 | ADAM12 |
| -0.575566947 | < 0.001 | 109 | ADCY3 |
| -0.58736223 | < 0.001 | 9542 | NRG2 |
| -0.591522276 | < 0.001 | 282996 | RBM20 |
| -0.625812292 | < 0.001 | 56114 | PCDHGA1 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| -0.695238113 | 5.04115E-06 | < 0.001 | < 0.001 | 256076 | COL29A1 |
| -0.697554648 | 4.60726E-06 | < 0.001 | < 0.001 | 3624 | INHBA |
| -0.699099064 | 4.33921E-06 | < 0.001 | < 0.001 | 51279 | C1RL |
| -0.700900853 | 4.0467E-06 | < 0.001 | < 0.001 | 5583 | PRKCH |
| -0.705534101 | 3.38449E-06 | < 0.001 | < 0.001 | 2914 | GRM4 |
| -0.711196899 | 2.72705E-06 | < 0.001 | < 0.001 | 84684 | INSM2 |
| -0.715572715 | 2.31393E-06 | < 0.001 | < 0.001 | 8387 | OR1E1 |
| -0.718404114 | 2.08391E-06 | < 0.001 | < 0.001 | 130367 | SGPP2 |
| -0.719691098 | 1.98799E-06 | < 0.001 | < 0.001 | 5225 | PGC |
| -0.731016695 | 1.3339E-06 | < 0.001 | < 0.001 | 9542 | NRG2 |
| -0.740283072 | 9.8743E-07 | < 0.001 | < 0.001 | 56114 | PCDHGA1 |

**Emotion (single-site) Cortex**

| voxel-wise, cortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.328194857 | < 0.001 | 245711 | SPDYA |
| 0.298659474 | < 0.001 | 84660 | CCDC62 |
| 0.295964718 | < 0.001 | 90780 | PYGO2 |
| 0.289521992 | < 0.001 | 8532 | CPZ |
| 0.285584927 | < 0.001 | 121643 | FOXN4 |
| 0.282777727 | < 0.001 | 257019 | FRMD3 |
| 0.282284588 | < 0.001 | 8929 | PHOX2B |
| 0.280825406 | < 0.001 | 25814 | ATXN10 |
| 0.276376724 | < 0.001 | 170626 | XAGE3 |
| 0.273480684 | < 0.001 | 57536 | KIAA1328 |
| 0.273387939 | < 0.001 | 25975 | EGFL6 |
| 0.272640556 | < 0.001 | 200312 | RNF215 |
| 0.272379637 | < 0.001 | 51382 | ATP6V1D |
| 0.271965027 | < 0.001 | 54072 | LINC00158 |
| 0.271777332 | < 0.001 | 711 | ERC2-IT1 |
| 0.269577354 | < 0.001 | 5511 | PPP1R8 |
| 0.268109292 | < 0.001 | 79139 | DERL1 |
| 0.266408086 | < 0.001 | 57156 | TMEM63C |
| 0.265974164 | < 0.001 | 221806 | VWDE |
| 0.26574561 | < 0.001 | 4884 | NPTX1 |
| 0.264867723 | < 0.001 | 83989 | FAM172A |
| 0.264651954 | < 0.001 | 7567 | ZNF19 |
| 0.264044911 | < 0.001 | 51340 | CRNKL1 |
| 0.257401705 | < 0.001 | 541466 | CT45A1 |
| 0.257302225 | < 0.001 | 162979 | ZNF296 |
| 0.256674945 | < 0.001 | 55164 | SHQ1 |
| 0.25574559 | < 0.001 | 642938 | FAM196A |
| 0.253203988 | < 0.001 | 23327 | NEDD4L |
| 0.250779063 | < 0.001 | 220115 | TPTE2P3 |
| 0.250141859 | < 0.001 | 541465 | CT45A4 |
| 0.249326184 | < 0.001 | 6781 | STC1 |
| 0.249097854 | < 0.001 | 5199 | CFP |
| 0.2489831 | < 0.001 | 80072 | HEXA-AS1 |
| 0.248951569 | < 0.001 | 8237 | USP11 |
| 0.248571321 | < 0.001 | 282890 | ZNF311 |
| 0.247913346 | < 0.001 | 140886 | PABPC5 |
| 0.247424513 | < 0.001 | 150572 | SMYD1 |
| 0.245078415 | < 0.001 | 7436 | VLDLR |
| 0.244748935 | < 0.001 | 728255 | KRTAP1-4 |
| 0.244653568 | < 0.001 | 123207 | C15orf40 |
| 0.244578257 | < 0.001 | 781 | CACNA2D1 |
| 0.244312838 | < 0.001 | 51123 | ZNF706 |
| 0.244150564 | < 0.001 | 1741 | DLG3 |
| 0.24255155 | < 0.001 | 54903 | MKS1 |
| 0.242420062 | < 0.001 | 80320 | SP6 |
| 0.241374895 | < 0.001 | 5865 | RAB3B |
| 0.239813104 | < 0.001 | 84789 | MGC2889 |
| 0.23689197 | < 0.001 | 26260 | FBXO25 |
| 0.236658216 | < 0.001 | 4288 | MKI67 |
| 0.235888138 | < 0.001 | 339896 | GADL1 |
| 0.235468775 | < 0.001 | 6602 | SMARCD1 |
| 0.234405607 | < 0.001 | 23784 | POTEH |
| 0.23319678 | < 0.001 | 150383 | C22orf40 |
| 0.231458351 | < 0.001 | 8999 | CDKL2 |
| 0.230697438 | < 0.001 | 57456 | KIAA1143 |
| 0.230324194 | < 0.001 | 10772 | FUSIP1 |
| 0.229996532 | < 0.001 | 8974 | P4HA2 |
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| 0.222654998 | < 0.001 | 56649 | TMPRSS4 |

| region-wise, cortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.428802162 | 8.40016E-11 | < 0.001 | < 0.001 | 121643 | FOXN4 |
| 0.393436819 | 3.47579E-09 | < 0.001 | < 0.001 | 146850 | PIK3R6 |
| 0.389991969 | 4.88259E-09 | 0.001 | 1 | 23429 | RYBP |
| 0.388352782 | 5.73178E-09 | < 0.001 | < 0.001 | 6781 | STC1 |
| 0.384260684 | 8.52078E-09 | < 0.001 | < 0.001 | 84660 | CCDC62 |
| 0.378879279 | 1.42347E-08 | < 0.001 | < 0.001 | 8880 | FUBP1 |
| 0.378321439 | 1.50045E-08 | < 0.001 | < 0.001 | 150572 | SMYD1 |
| 0.354859203 | 1.25909E-07 | < 0.001 | < 0.001 | 56649 | TMPRSS4 |
| 0.348708093 | 2.13905E-07 | < 0.001 | < 0.001 | 1741 | DLG3 |
| 0.346211106 | 2.64402E-07 | < 0.001 | < 0.001 | 3303 | HSPA1A |
| 0.345657796 | 2.77048E-07 | < 0.001 | < 0.001 | 1475 | CSTA |
| 0.343362957 | 3.35956E-07 | 0.001 | 1 | 4929 | NR4A2 |
| 0.340946317 | 4.10897E-07 | < 0.001 | < 0.001 | 25814 | ATXN10 |
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| 0.334177107 | 7.15785E-07 | 0.001 | 1 | 730 | C7 |
| 0.329671651 | 1.02817E-06 | 0.002 | 1 | 245711 | SPDYA |
| 0.32865575 | 1.11476E-06 | < 0.001 | < 0.001 | 84172 | POLR1B |
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| 0.326845527 | 1.28661E-06 | 0.001 | 1 | 1576 | CYP3A4 |
| 0.323719442 | 1.64448E-06 | 0.001 | 1 | 51382 | ATP6V1D |
| 0.322719097 | 1.7778E-06 | 0.002 | 1 | 200312 | RNF215 |
| 0.320719689 | 2.07582E-06 | 0.002 | 1 | 7136 | TNNI2 |
| 0.320603073 | 2.0946E-06 | < 0.001 | < 0.001 | 3698 | ITIH2 |
| 0.318226576 | 2.51443E-06 | 0.001 | 1 | 940 | CD28 |
| 0.315798283 | 3.02559E-06 | < 0.001 | < 0.001 | 51340 | CRNKL1 |
| 0.315448403 | 3.10694E-06 | < 0.001 | < 0.001 | 643226 | GRXCR2 |
| 0.314751923 | 3.27511E-06 | 0.001 | 1 | 8999 | CDKL2 |
| 0.313251406 | 3.66735E-06 | 0.004 | 1 | 541466 | CT45A1 |
| 0.312641084 | 3.83934E-06 | 0.003 | 1 | 7436 | VLDLR |
| 0.311513752 | 4.17741E-06 | 0.002 | 1 | 9021 | SOCS3 |
| 0.309019983 | 5.02864E-06 | 0.003 | 1 | 83989 | FAM172A |
| 0.307897836 | 5.46331E-06 | < 0.001 | < 0.001 | 541465 | CT45A4 |
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| 0.295061082 | 1.37695E-05 | 0.001 | 1 | 3726 | JUNB |
| 0.294546664 | 1.42761E-05 | 0.001 | 1 | 201243 | C17orf74 |
| 0.294209123 | 1.46182E-05 | 0.002 | 1 | 5552 | SRGN |
| 0.292899728 | 1.60196E-05 | 0.005 | 1 | 8237 | USP11 |
| 0.290463626 | 1.89717E-05 | 0.005 | 1 | 6792 | CDKL5 |
| 0.29017663 | 1.93515E-05 | 0.004 | 1 | 51752 | ERAP1 |
| 0.288895726 | 2.11362E-05 | 0.005 | 1 | 90780 | PYGO2 |
| 0.288676083 | 2.14575E-05 | 0.002 | 1 | 114042 | LINC00334 |
| 0.288466811 | 2.17678E-05 | 0.002 | 1 | 5009 | OTC |
| 0.288081974 | 2.23497E-05 | 0.004 | 1 | 154881 | KCTD7 |
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| 0.287020057 | 2.40323E-05 | 0.006 | 1 | 54903 | MKS1 |
| 0.286875606 | 2.42702E-05 | 0.003 | 1 | 3054 | HCFC1 |
| 0.286230922 | 2.53595E-05 | 0.006 | 1 | 403253 | AC134982.1 |
| 0.286113679 | 2.55625E-05 | 0.007 | 1 | 92345 | NAF1 |
| 0.285732716 | 2.62327E-05 | 0.006 | 1 | 389332 | LOC389332 |
| 0.285415888 | 2.68027E-05 | 0.003 | 1 | 284233 | CYP4F35P |
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| 0.281976223 | 3.37915E-05 | 0.009 | 1 | 6594 | SMARCA1 |
| 0.281974256 | 3.37959E-05 | 0.005 | 1 | 260429 | PRSS33 |
| 0.281224012 | 3.55336E-05 | 0.006 | 1 | 55164 | SHQ1 |
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| 0.213986546 | < 0.001 | 79153 | GDPD3 |
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| 0.213260695 | < 0.001 | 653 | BMP5 |
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| 0.212687761 | < 0.001 | 4018 | LPA |
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| 0.212399751 | < 0.001 | 23627 | PRND |
| 0.211437106 | < 0.001 | 27315 | PGAP2 |
| 0.21121107 | < 0.001 | 400798 | RP5-990P15.1 |
| 0.211081028 | < 0.001 | 22992 | KDM2A |
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| 0.266073614 | 9.48683E-05 | 0.008 | 1 | 26091 | HERC4 |
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| 0.265436113 | 9.87463E-05 | 0.01 | 1 | 26260 | FBXO25 |
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| 0.26008901 | 0.00013764 | 0.009 | 1 | 6401 | SELE |
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| 0.25615111 | 0.00017499 | 0.01 | 1 | 55539 | KCNQ1DN |
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| 0.178743854 | 0.009439241 | 0.073 | 1 | 3359 | HTR3A |
| 0.178660288 | 0.009473181 | 0.076 | 1 | 84960 | KIAA1984 |
| 0.178659633 | 0.009473449 | 0.097 | 1 | 6335 | SCN9A |
| 0.178620756 | 0.009489272 | 0.078 | 1 | 146771 | TCAM1 |
| 0.178577349 | 0.009506964 | 0.084 | 1 | 132204 | SYNPR |
| 0.17856957 | 0.00951014 | 0.082 | 1 | 57695 | USP37 |
| 0.178292274 | 0.009623925 | 0.105 | 1 | 9582 | APOBEC3B |
| 0.178213879 | 0.009656304 | 0.094 | 1 | 54507 | ADAMTSL4 |
| 0.178181484 | 0.009669717 | 0.076 | 1 | 196500 | C12orf53 |
| 0.178166583 | 0.00967589 | 0.075 | 1 | 119392 | C10orf78 |
| 0.177728608 | 0.009858922 | 0.081 | 1 | 643382 | C14orf176 |
| 0.177672893 | 0.009882422 | 0.079 | 1 | 1295 | COL8A1 |
| 0.177654743 | 0.009890097 | 0.087 | 1 | 51131 | PHF11 |
| 0.177634016 | 0.009898855 | 0.108 | 1 | 401546 | C9orf152 |
| 0.177627534 | 0.009901596 | 0.094 | 1 | 55715 | DOK4 |
| 0.177604213 | 0.009911466 | 0.07 | 1 | 121512 | FGD4 |
| 0.177595794 | 0.009915032 | 0.082 | 1 | 5203 | PFDN4 |
| 0.177209005 | 0.010080036 | 0.09 | 1 | 4624 | MYH6 |
| 0.17706582 | 0.010141737 | 0.088 | 1 | 51338 | MS4A4A |
| 0.177052855 | 0.010147333 | 0.079 | 1 | 10486 | CAP2 |
| 0.176950485 | 0.010191673 | 0.096 | 1 | 3216 | HOXB6 |
| 0.176870793 | 0.010226297 | 0.084 | 1 | 55250 | ELP2 |
| 0.17685914 | 0.010231377 | 0.106 | 1 | 10682 | EBP |
| 0.176846176 | 0.010237019 | 0.103 | 1 | 2825 | GPR1 |
| 0.176819608 | 0.010248602 | 0.101 | 1 | 3136 | HLA-H |
| 0.17675741 | 0.010275755 | 0.087 | 1 | 8436 | SDPR |
| 0.176739916 | 0.010283408 | 0.095 | 1 | 10398 | MYL9 |
| 0.1766233 | 0.010334524 | 0.094 | 1 | 1052 | CEBPD |
| 0.176548138 | 0.010367589 | 0.086 | 1 | 284382 | ACTL9 |
| 0.176442534 | 0.0104142 | 0.084 | 1 | 10586 | MAB21L2 |
| 0.176432177 | 0.010418783 | 0.075 | 1 | 23295 | MGRN1 |
| 0.176006511 | 0.010608634 | 0.084 | 1 | 10890 | RAB10 |

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| 0.135548979 | < 0.001 | 701 | BUB1B |
| 0.13537851 | < 0.001 | 220929 | ZNF438 |
| 0.135316476 | < 0.001 | 659 | BMPR2 |
| 0.135313913 | < 0.001 | 116285 | ACSM1 |
| 0.135251597 | < 0.001 | 51121 | RPL26L1 |
| 0.135212839 | < 0.001 | 29953 | TRHDE |
| 0.135208458 | < 0.001 | 10644 | IGF2BP2 |
| 0.135157615 | < 0.001 | 7168 | TPM1 |
| 0.135149553 | < 0.001 | 9447 | AIM2 |
| 0.134839386 | < 0.001 | 9462 | RASAL2 |
| 0.134747624 | < 0.001 | 7087 | ICAM5 |
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| 0.134640381 | < 0.001 | 23641 | LDOC1 |
| 0.134558067 | < 0.001 | 6289 | SAA2 |
| 0.134362996 | < 0.001 | 7455 | ZAN |
| 0.134220734 | < 0.001 | 219621 | C10orf107 |
| 0.134218305 | < 0.001 | 7700 | ZNF141 |
| 0.13417232 | < 0.001 | 1114 | CHGB |
| 0.134148151 | < 0.001 | 4147 | MATN2 |
| 0.134131894 | < 0.001 | 8499 | PPFIA2 |
| 0.134088337 | < 0.001 | 79915 | ATAD5 |
| 0.134037495 | < 0.001 | 11074 | TRIM31 |
| 0.134023249 | < 0.001 | 158763 | RP13-102H20.1 |
| 0.133974075 | < 0.001 | 10943 | MSL3 |
| 0.133956626 | < 0.001 | 846 | CASR |
| 0.133901402 | < 0.001 | 6358 | CCL14 |
| 0.133857653 | < 0.001 | 201475 | RAB12 |
| 0.133823603 | < 0.001 | 114042 | LINC00334 |
| 0.133808464 | < 0.001 | 390162 | OR5M9 |
| 0.133798882 | < 0.001 | 54935 | DUSP23 |
| 0.133728027 | < 0.001 | 340390 | KIAA1875 |
| 0.133590758 | < 0.001 | 4205 | MEF2A |
| 0.133550823 | < 0.001 | 6728 | SRP19 |
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| 0.133416191 | < 0.001 | 10771 | ZMYND11 |
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| 0.133297756 | < 0.001 | 3963 | LGALS7 |
| 0.133136943 | < 0.001 | 574406 | C1orf138 |
| 0.133091867 | < 0.001 | 79838 | TMC5 |
| 0.132993296 | < 0.001 | 10085 | EDIL3 |
| 0.132977873 | < 0.001 | 200765 | TIGD1 |
| 0.13297613 | < 0.001 | 253018 | HCG27 |
| 0.132960916 | < 0.001 | 8527 | DGKD |
| 0.132768154 | < 0.001 | 7267 | TTC3 |
| 0.132760167 | < 0.001 | 149428 | BNIPL |
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| 0.132680207 | < 0.001 | 1315 | COPB1 |
| 0.132678345 | < 0.001 | 7837 | PXDN |
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| 0.132440835 | < 0.001 | 8837 | CFLAR |
| 0.132432565 | < 0.001 | 646993 | HMGB3P24 |
| 0.132422507 | < 0.001 | 654434 | LINC00338 |
| 0.132330462 | < 0.001 | 8776 | MTMR1 |
| 0.132213265 | < 0.001 | 641384 | TMEM75 |
| 0.132156804 | < 0.001 | 84193 | SETD3 |
| 0.131983131 | < 0.001 | 1001 | CDH3 |
| 0.131959245 | < 0.001 | 692094 | MSMP |
| 0.131934643 | < 0.001 | 23098 | SARM1 |
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| 0.131861776 | < 0.001 | 939 | CD27 |
| 0.13180384 | < 0.001 | 857 | CAV1 |
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| 0.131587118 | < 0.001 | 55057 | AIM1L |
| 0.131532103 | < 0.001 | 138046 | RALYL |
| 0.131496742 | < 0.001 | 3853 | KRT6A |
| 0.131474242 | < 0.001 | 100129361 | LOC100129361 |
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| 0.131418794 | < 0.001 | 83449 | PMFBP1 |
| 0.131402552 | < 0.001 | 55036 | CCDC40 |
| 0.131343573 | < 0.001 | 5146 | PDE6C |
| 0.13103494 | < 0.001 | 139716 | GAB3 |
| 0.130990133 | < 0.001 | 80777 | CYB5B |
| 0.130539104 | < 0.001 | 6840 | SVIL |
| 0.130534589 | < 0.001 | 375 | ARF1 |
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| 0.130369112 | < 0.001 | 55129 | ANO10 |

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| 0.175959855 | 0.010629625 | 0.089 | 1 | 159963 | SLC5A12 |
| 0.17590414 | 0.01065475 | 0.08 | 1 | 1756 | DMD |
| 0.175818622 | 0.010693401 | 0.097 | 1 | 643637 | GLYATL1P4 |
| 0.175623596 | 0.010782024 | 0.086 | 1 | 114798 | SLITRK1 |
| 0.175466165 | 0.01085403 | 0.113 | 1 | 27232 | GNMT |
| 0.175390363 | 0.010888851 | 0.111 | 1 | 57171 | DOLPP1 |
| 0.175345004 | 0.010909741 | 0.095 | 1 | 2116 | ETV2 |
| 0.175179794 | 0.010986101 | 0.098 | 1 | 114770 | PGLYRP2 |
| 0.175096214 | 0.011024923 | 0.106 | 1 | 2702 | GJA5 |
| 0.175073534 | 0.011035467 | 0.079 | 1 | 81490 | PTDSS2 |
| 0.175026894 | 0.011057204 | 0.104 | 1 | 4990 | SIX6 |
| 0.174977005 | 0.011080485 | 0.08 | 1 | 3988 | LIPA |
| 0.174762547 | 0.01118107 | 0.08 | 1 | 2820 | GPD2 |
| 0.17473793 | 0.011192673 | 0.091 | 1 | 5271 | SERPINB8 |
| 0.174718484 | 0.011201838 | 0.084 | 1 | 25850 | ZNF345 |
| 0.174606398 | 0.01125482 | 0.075 | 1 | 57529 | RGAG1 |
| 0.174564287 | 0.011274787 | 0.098 | 1 | 3116 | HLA-DPB2 |
| 0.174561694 | 0.011276014 | 0.088 | 1 | 89832 | CHRFAM7A |
| 0.174560398 | 0.011276626 | 0.076 | 1 | 10019 | SH2B3 |
| 0.174559101 | 0.011277239 | 0.082 | 1 | 642938 | FAM196A |
| 0.174390659 | 0.011357412 | 0.098 | 1 | 119385 | AGAP11 |
| 0.174312264 | 0.011394897 | 0.079 | 1 | 3925 | STMN1 |
| 0.174297363 | 0.011402035 | 0.092 | 1 | 23187 | PHLDB1 |
| 0.174255252 | 0.011422226 | 0.08 | 1 | 169611 | OLFML2A |
| 0.17422998 | 0.011434359 | 0.09 | 1 | 7455 | ZAN |
| 0.174169719 | 0.011463338 | 0.084 | 1 | 3811 | KIR3DL1 |
| 0.174109474 | 0.011492373 | 0.088 | 1 | 51669 | TMEM66 |
| 0.174067348 | 0.011512707 | 0.078 | 1 | 142913 | CFL1P1 |
| 0.174047917 | 0.0115221 | 0.084 | 1 | 666 | BOK |
| 0.173987016 | 0.011551584 | 0.077 | 1 | 113 | ADCY7 |
| 0.173957855 | 0.011565721 | 0.088 | 1 | 114780 | PKD1L2 |
| 0.173832819 | 0.011626525 | 0.086 | 1 | 85458 | DIXDC1 |
| 0.1737784 | 0.011653076 | 0.106 | 1 | 23284 | LPHN3 |
| 0.173760906 | 0.01166162 | 0.103 | 1 | 7221 | TRPC2 |
| 0.173669547 | 0.01170634 | 0.096 | 1 | 401498 | TMEM215 |
| 0.173646227 | 0.011717782 | 0.118 | 1 | 783 | CACNB2 |
| 0.173547745 | 0.01176621 | 0.101 | 1 | 56853 | BRUNOL4 |
| 0.173499152 | 0.011790165 | 0.103 | 1 | 59347 | FKSG2 |
| 0.173442781 | 0.011818008 | 0.099 | 1 | 79751 | SLC25A22 |
| 0.173386425 | 0.011845906 | 0.076 | 1 | 10495 | ENOX2 |
| 0.17335014 | 0.01186389 | 0.09 | 1 | 90874 | ZNF697 |
| 0.173333287 | 0.011872261 | 0.086 | 1 | 3569 | IL6 |
| 0.173241287 | 0.01191801 | 0.113 | 1 | 1852 | DUSP9 |
| 0.173201114 | 0.011938037 | 0.105 | 1 | 55894 | DEFB103B |
| 0.173037201 | 0.012020055 | 0.092 | 1 | 646424 | SPINK8 |
| 0.173027486 | 0.012024933 | 0.097 | 1 | 975 | CD81 |
| 0.172980189 | 0.012048705 | 0.1 | 1 | 128611 | ZNF831 |
| 0.172967225 | 0.012055223 | 0.102 | 1 | 390407 | EIF4A1P6 |
| 0.172897249 | 0.012090475 | 0.091 | 1 | 256979 | SUNC1 |
| 0.172882348 | 0.012097999 | 0.097 | 1 | 64600 | PLA2G2F |
| 0.172835708 | 0.012121563 | 0.094 | 1 | 2861 | GPR37 |
| 0.172787115 | 0.012146156 | 0.111 | 1 | 4439 | MSH5 |
| 0.172674388 | 0.012203376 | 0.113 | 1 | 83636 | C19orf12 |
| 0.172664657 | 0.012208317 | 0.108 | 1 | 375035 | SFT2D2 |
| 0.172654942 | 0.012213266 | 0.088 | 1 | 26140 | TTLL3 |
| 0.172585621 | 0.012248589 | 0.111 | 1 | 5624 | PROC |
| 0.172563598 | 0.012259834 | 0.106 | 1 | 2158 | F9 |
| 0.172479361 | 0.012302922 | 0.116 | 1 | 55613 | MTMR8 |
| 0.172407448 | 0.012339812 | 0.09 | 1 | 6092 | ROBO2 |
| 0.172338769 | 0.012375133 | 0.083 | 1 | 116369 | SLC26A8 |
| 0.172332942 | 0.012378137 | 0.095 | 1 | 339541 | C1orf228 |
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| 0.172196239 | 0.012448714 | 0.11 | 1 | 254528 | C16orf73 |
| 0.172153473 | 0.012470873 | 0.085 | 1 | 6299 | SALL1 |
| 0.172126904 | 0.012484648 | 0.093 | 1 | 147804 | CTD-2224J9.2 |
| 0.172082856 | 0.01250753 | 0.111 | 1 | 55351 | STK32B |
| 0.172054991 | 0.012522018 | 0.097 | 1 | 145376 | C14orf50 |
| 0.172034904 | 0.012532473 | 0.098 | 1 | 245973 | ATP6V1C2 |
| 0.17201677 | 0.012541913 | 0.104 | 1 | 9875 | URB1 |
| 0.172003806 | 0.012548663 | 0.098 | 1 | 284367 | SIGLECP3 |
| 0.171996683 | 0.012552392 | 0.11 | 1 | 8318 | CDC45L |
| 0.171962351 | 0.012570299 | 0.106 | 1 | 119395 | CALHM3 |
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| 0.171753079 | 0.012679968 | 0.099 | 1 | 117248 | GALNTL2 |
| 0.171707079 | 0.012704189 | 0.109 | 1 | 8170 | SLC14A2 |
| 0.17170383 | 0.012705899 | 0.093 | 1 | 653583 | PHLDB3 |

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| 0.13032341 | < 0.001 | 266977 | GPR110 |
| 0.13032341 | < 0.001 | 317754 | POTED |
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| 0.129229546 | < 0.001 | 940 | CD28 |
| 0.129209608 | < 0.001 | 123096 | SLC25A29 |
| 0.12918134 | < 0.001 | 23416 | KCNH3 |
| 0.129112989 | < 0.001 | 1030 | CDKN2B |
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| 0.128200144 | < 0.001 | 11014 | KDELR2 |
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| 0.128008068 | < 0.001 | 343477 | HSP90B3P |
| 0.12792097 | < 0.001 | 79836 | LONRF3 |
| 0.127855316 | < 0.001 | 9908 | G3BP2 |
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| 0.127831981 | < 0.001 | 1660 | DHX9 |
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| 0.127784044 | < 0.001 | 23190 | UBXN4 |
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| 0.127520427 | < 0.001 | 51715 | RAB23 |
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| 0.127394706 | < 0.001 | 6335 | SCN9A |
| 0.127228126 | < 0.001 | 57733 | GBA3 |
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| 0.126844049 | < 0.001 | 342574 | KRT27 |
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| 0.126746804 | < 0.001 | 22953 | P2RX2 |
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| 0.125572979 | < 0.001 | 10458 | BAIAP2 |

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| 0.171449214 | 0.0128407 | 0.102 | 1 | 2044 | EPHA5 |
| 0.171441436 | 0.012844842 | 0.084 | 1 | 81619 | TSPAN14 |
| 0.1713624 | 0.012886954 | 0.102 | 1 | 1942 | EFNA1 |
| 0.171274275 | 0.012934051 | 0.107 | 1 | 199223 | TTC21A |
| 0.171196535 | 0.012975723 | 0.085 | 1 | 5502 | PPP1R1A |
| 0.171156362 | 0.012997301 | 0.091 | 1 | 23539 | SLC16A8 |
| 0.171107769 | 0.013023454 | 0.109 | 1 | 5173 | PDYN |
| 0.171068892 | 0.013044407 | 0.108 | 1 | 2512 | FTL |
| 0.1709892 | 0.013087446 | 0.088 | 1 | 6424 | SFRP4 |
| 0.170929596 | 0.013119718 | 0.101 | 1 | 7169 | TPM2 |
| 0.170846671 | 0.013164738 | 0.098 | 1 | 283999 | AC087645.1 |
| 0.170823351 | 0.013177417 | 0.093 | 1 | 11155 | LDB3 |
| 0.170805857 | 0.013186943 | 0.095 | 1 | 124930 | ANKRD13B |
| 0.170803264 | 0.013188357 | 0.095 | 1 | 100289060 | LOC100289060 |
| 0.170789659 | 0.013195763 | 0.113 | 1 | 1515 | CTSL2 |
| 0.170717731 | 0.013235008 | 0.089 | 1 | 54331 | GNG2 |
| 0.170612127 | 0.013292793 | 0.106 | 1 | 54935 | DUSP23 |
| 0.170457929 | 0.013377581 | 0.093 | 1 | 23671 | TMEFF2 |
| 0.170422301 | 0.013397241 | 0.096 | 1 | 4135 | MAP6 |
| 0.170336127 | 0.013444888 | 0.105 | 1 | 4781 | NFIB |
| 0.170313448 | 0.013457455 | 0.094 | 1 | 340533 | KIAA2022 |
| 0.17028819 | 0.013471465 | 0.088 | 1 | 55748 | CNDP2 |
| 0.170102239 | 0.013574972 | 0.113 | 1 | 57506 | MAVS |
| 0.16997914 | 0.01364387 | 0.104 | 1 | 6002 | RGS12 |
| 0.16973488 | 0.013781518 | 0.096 | 1 | 9061 | PAPSS1 |
| 0.169727102 | 0.013785913 | 0.122 | 1 | 8239 | USP9X |
| 0.169624746 | 0.013843969 | 0.104 | 1 | 6352 | CCL5 |
| 0.169591695 | 0.013862759 | 0.103 | 1 | 2203 | FBP1 |
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| 0.070147134 | < 0.001 | 100288346 | AP000880.1 |
| 0.070133097 | < 0.001 | 10277 | UBE4B |
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| 0.070001394 | < 0.001 | 84996 | C21ORF119 |
| 0.070000768 | < 0.001 | 260293 | CYP4X1 |
| 0.069979236 | < 0.001 | 7844 | RNF103 |
| 0.069949396 | < 0.001 | 343637 | RSPO4 |
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| 0.069776192 | < 0.001 | 201625 | DNAH12 |
| 0.069770977 | < 0.001 | 1776 | DNASE1L3 |
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| 0.069638513 | < 0.001 | 54596 | L1TD1 |
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| 0.069588773 | < 0.001 | 4826 | NNAT |
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| 0.069514446 | < 0.001 | 284123 | FAM27L |
| 0.069463529 | < 0.001 | 146664 | MGAT5B |
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| 0.103908099 | 0.133394495 | 0.355 | 1 | 392188 | USP17L8 |
| 0.103902273 | 0.13341637 | 0.364 | 1 | 63973 | NEUROG2 |
| 0.103889316 | 0.133465126 | 0.299 | 1 | 5600 | MAPK11 |
| 0.103856921 | 0.133586928 | 0.315 | 1 | 29995 | LMCD1 |
| 0.103850439 | 0.133611247 | 0.312 | 1 | 158314 | LINC00475 |
| 0.103823878 | 0.133711234 | 0.334 | 1 | 23509 | POFUT1 |
| 0.103791483 | 0.13383323 | 0.302 | 1 | 374946 | C1orf187 |
| 0.103784353 | 0.133860067 | 0.32 | 1 | 8809 | IL18R1 |
| 0.103768803 | 0.133918658 | 0.323 | 1 | 28982 | FLVCR1 |
| 0.103749365 | 0.133991942 | 0.339 | 1 | 3817 | KLK2 |
| 0.103684582 | 0.134236336 | 0.31 | 1 | 730101 | RP1-152L7.5 |
| 0.103669681 | 0.134292588 | 0.321 | 1 | 115123 | MARCHF3 |
| 0.103667736 | 0.134299949 | 0.333 | 1 | 64399 | HHIP |
| 0.103665143 | 0.134309724 | 0.299 | 1 | 165215 | FAM171B |
| 0.103659958 | 0.134329319 | 0.33 | 1 | 83639 | TEX101 |
| 0.103657365 | 0.134339094 | 0.322 | 1 | 9856 | KIAA0319 |
| 0.103656717 | 0.134341538 | 0.311 | 1 | 4887 | NPY2R |
| 0.103652835 | 0.134356201 | 0.327 | 1 | 1444 | CSHL1 |
| 0.103652187 | 0.134358689 | 0.298 | 1 | 653145 | ANXA8 |
| 0.103560179 | 0.134706602 | 0.353 | 1 | 83546 | RTBDN |
| 0.103551112 | 0.134740964 | 0.308 | 1 | 56000 | NXF3 |
| 0.103516772 | 0.134870991 | 0.346 | 1 | 1675 | CFD |
| 0.103513531 | 0.134883299 | 0.289 | 1 | 10769 | PLK2 |
| 0.103509001 | 0.134900421 | 0.354 | 1 | 80139 | ZNF703 |
| 0.103449389 | 0.135126486 | 0.323 | 1 | 643854 | RP5-988G15.1 |
| 0.103421532 | 0.13523224 | 0.317 | 1 | 54596 | L1TD1 |
| 0.103389785 | 0.135352805 | 0.335 | 1 | 54536 | EXOC6 |
| 0.103356093 | 0.135480866 | 0.319 | 1 | 10290 | SPEG |
| 0.103353508 | 0.135490716 | 0.345 | 1 | 55607 | PPP1R9A |
| 0.103344433 | 0.135525212 | 0.337 | 1 | 23529 | CLCF1 |
| 0.103326291 | 0.135594234 | 0.33 | 1 | 117579 | RLN3 |
| 0.103324994 | 0.135599151 | 0.341 | 1 | 220001 | VWCE |
| 0.103282236 | 0.135761902 | 0.318 | 1 | 55423 | SIRPG |
| 0.103206433 | 0.136050835 | 0.318 | 1 | 10626 | TRIM16 |
| 0.103198655 | 0.136080503 | 0.336 | 1 | 4832 | NME3 |
| 0.103188939 | 0.136117533 | 0.327 | 1 | 339479 | FAM5C |
| 0.103060655 | 0.136607721 | 0.309 | 1 | 374864 | C18orf34 |
| 0.103008173 | 0.136808664 | 0.327 | 1 | 22941 | SHANK2 |
| 0.103004292 | 0.136823565 | 0.311 | 1 | 7069 | THRSP |
| 0.102965415 | 0.136972561 | 0.347 | 1 | 4958 | OMD |
| 0.102956347 | 0.137007296 | 0.357 | 1 | 79843 | FAM124B |
| 0.102938205 | 0.137076899 | 0.315 | 1 | 414152 | C10orf105 |
| 0.102875359 | 0.137318149 | 0.335 | 1 | 285533 | RNF175 |
| 0.102870822 | 0.137335598 | 0.317 | 1 | 7201 | TRHR |
| 0.102855273 | 0.137395322 | 0.339 | 1 | 5620 | PRM2 |
| 0.102850735 | 0.137412772 | 0.314 | 1 | 10335 | MRVI1 |
| 0.102780767 | 0.137681916 | 0.319 | 1 | 7857 | SCG2 |
| 0.102778174 | 0.1376919 | 0.299 | 1 | 6655 | SOS2 |
| 0.102771692 | 0.137716874 | 0.342 | 1 | 6567 | SLC16A2 |
| 0.102757439 | 0.137771741 | 0.301 | 1 | 79887 | PLBD1 |
| 0.102742538 | 0.137829125 | 0.326 | 1 | 22948 | CCT5 |
| 0.102736712 | 0.137851551 | 0.321 | 1 | 3227 | HOXC11 |
| 0.102735415 | 0.137856573 | 0.324 | 1 | 160851 | DGKH |
| 0.102727637 | 0.137886554 | 0.33 | 1 | 389857 | CENPVL1 |
| 0.102693945 | 0.138016447 | 0.328 | 1 | 127665 | ZNF648 |
| 0.102685526 | 0.138048872 | 0.313 | 1 | 6414 | SEPP1 |
| 0.102677099 | 0.138081431 | 0.292 | 1 | 348825 | TPRXL |
| 0.102662846 | 0.138136417 | 0.356 | 1 | 22888 | UBOX5 |
| 0.102623329 | 0.138288975 | 0.348 | 1 | 200765 | TIGD1 |
| 0.10259676 | 0.138391614 | 0.296 | 1 | 4710 | NDUFB4 |
| 0.102583803 | 0.138441697 | 0.339 | 1 | 55859 | BEX1 |
| 0.102574088 | 0.138479248 | 0.35 | 1 | 401720 | FIGNL2 |
| 0.1025391 | 0.13861458 | 0.317 | 1 | 389827 | TMEM8C |
| 0.102530032 | 0.138649642 | 0.346 | 1 | 54733 | SLC35F2 |
| 0.10245876 | 0.138925686 | 0.298 | 1 | 3675 | ITGA3 |
| 0.10242442 | 0.139058828 | 0.329 | 1 | 29966 | STRN3 |
| 0.102399155 | 0.139156878 | 0.344 | 1 | 400765 | MIR2682 |
| 0.102351859 | 0.13934052 | 0.347 | 1 | 10568 | SLC34A2 |
| 0.102325298 | 0.139443755 | 0.34 | 1 | 2643 | GCH1 |
| 0.10227865 | 0.139625132 | 0.323 | 1 | 55512 | SMPD3 |
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| 0.102215156 | 0.139872357 | 0.305 | 1 | 122616 | C14orf79 |
| 0.102168508 | 0.140054196 | 0.312 | 1 | 5451 | POU2F1 |
| 0.102147125 | 0.140137613 | 0.28 | 1 | 201595 | STT3B |
| 0.102107599 | 0.14029187 | 0.314 | 1 | 112616 | CMTM7 |
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| 0.069430739 | < 0.001 | 654254 | ZNF732 |
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| 0.069230124 | < 0.001 | 53838 | C11orf24 |
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| 0.069048405 | < 0.001 | 4294 | MAP3K10 |
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| 0.06900923 | < 0.001 | 10107 | TRIM10 |
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| 0.068833619 | < 0.001 | 5154 | PDGFA |
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| 0.101812162 | 0.141449213 | 0.308 | 1 | 25934 | NIPSNAP3A |
| 0.101782359 | 0.141566351 | 0.337 | 1 | 653857 | RP5-820A21.1 |
| 0.101770051 | 0.141614765 | 0.324 | 1 | 10239 | AP3S2 |
| 0.101762272 | 0.141645372 | 0.35 | 1 | 54872 | PIGG |
| 0.101761624 | 0.14164789 | 0.357 | 1 | 91179 | SCARF2 |
| 0.101648241 | 0.142094478 | 0.323 | 1 | 7060 | THBS4 |
| 0.101646952 | 0.14209953 | 0.342 | 1 | 1508 | CTSB |
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| 0.101525143 | 0.142580479 | 0.323 | 1 | 645676 | RP11-29H23.1 |
| 0.101443507 | 0.142903522 | 0.323 | 1 | 56917 | MEIS3P2 |
| 0.101438329 | 0.142924011 | 0.344 | 1 | 4013 | VWA5A |
| 0.101428606 | 0.14296256 | 0.332 | 1 | 7416 | VDAC1 |
| 0.10141889 | 0.143001035 | 0.313 | 1 | 64151 | NCAPG |
| 0.101415001 | 0.143016472 | 0.328 | 1 | 129684 | CNTNAP5 |
| 0.101413704 | 0.143021613 | 0.337 | 1 | 10125 | RASGRP1 |
| 0.101383254 | 0.143142298 | 0.336 | 1 | 79812 | MMRN2 |
| 0.101343088 | 0.143301651 | 0.322 | 1 | 200014 | CC2D1B |
| 0.101334013 | 0.143337652 | 0.34 | 1 | 10750 | GRAP |
| 0.101317167 | 0.143404558 | 0.352 | 1 | 29980 | DONSON |
| 0.101271816 | 0.143584743 | 0.34 | 1 | 83444 | INO80B |
| 0.101258211 | 0.143638805 | 0.349 | 1 | 175 | AGA |
| 0.101256914 | 0.14364396 | 0.343 | 1 | 1041 | CDSN |
| 0.101170748 | 0.143986836 | 0.308 | 1 | 6349 | CCL3L1 |
| 0.101161674 | 0.144023031 | 0.348 | 1 | 55148 | UBR7 |
| 0.101106606 | 0.14424251 | 0.352 | 1 | 6094 | ROM1 |
| 0.101087816 | 0.144317508 | 0.348 | 1 | 3861 | KRT14 |
| 0.101068377 | 0.144395068 | 0.338 | 1 | 4152 | MBD1 |
| 0.101056717 | 0.14444162 | 0.31 | 1 | 8557 | TCAP |
| 0.101053476 | 0.144454554 | 0.325 | 1 | 25886 | WDR51A |
| 0.100999057 | 0.144672021 | 0.326 | 1 | 388021 | TMEM179 |
| 0.100996464 | 0.144682333 | 0.348 | 1 | 11039 | SMA4 |
| 0.100882433 | 0.145138785 | 0.352 | 1 | 22826 | DNAJC8 |
| 0.10087207 | 0.1451803 | 0.337 | 1 | 170082 | TCEANC |
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| 0.100825422 | 0.145367399 | 0.35 | 1 | 7132 | TNFRSF1A |
| 0.100821532 | 0.145382971 | 0.317 | 1 | 92689 | FAM114A1 |
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| 0.100792378 | 0.145500019 | 0.313 | 1 | 201164 | PLD6 |
| 0.100758687 | 0.145635307 | 0.343 | 1 | 5690 | PSMB2 |
| 0.10075026 | 0.145669207 | 0.351 | 1 | 29034 | CPS1-IT1 |
| 0.100743137 | 0.145697817 | 0.329 | 1 | 149603 | RNF187 |
| 0.1007386 | 0.145716012 | 0.366 | 1 | 5045 | FURIN |
| 0.100679643 | 0.145953134 | 0.326 | 1 | 55273 | TMEM100 |
| 0.100637525 | 0.146122724 | 0.341 | 1 | 4097 | MAFG |
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| 0.100556545 | 0.146449193 | 0.335 | 1 | 10207 | INADL |
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| 0.100502118 | 0.146668926 | 0.342 | 1 | 25907 | TMEM158 |
| 0.100499526 | 0.146679416 | 0.346 | 1 | 405753 | DUOXA2 |
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| 0.100429557 | 0.146962255 | 0.316 | 1 | 6804 | STX1A |
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| 0.100392625 | 0.147111759 | 0.325 | 1 | 79908 | BTNL8 |
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| 0.100285724 | 0.14754504 | 0.318 | 1 | 58480 | RHOU |
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| 0.068048112 | < 0.001 | 120892 | LRRK2 |
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| 0.085075088 | 0.219550699 | 0.415 | 1 | 6545 | SLC7A4 |
| 0.084966242 | 0.220143303 | 0.416 | 1 | 145173 | B3GALTL |
| 0.084951989 | 0.220221028 | 0.412 | 1 | 51514 | DTL |
| 0.084876835 | 0.220630914 | 0.409 | 1 | 283212 | KLHL35 |
| 0.084871002 | 0.220662773 | 0.438 | 1 | 9016 | SLC25A14 |
| 0.084827594 | 0.220899761 | 0.404 | 1 | 408263 | C5orf40 |
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| 0.084725879 | 0.221455932 | 0.378 | 1 | 80164 | AC010336.2 |
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| 0.084706441 | 0.221562266 | 0.427 | 1 | 1009 | CDH11 |
| 0.084687002 | 0.22166872 | 0.384 | 1 | 57761 | TRIB3 |
| 0.084681168 | 0.221700698 | 0.397 | 1 | 124045 | C16orf55 |
| 0.084679872 | 0.221707761 | 0.406 | 1 | 4335 | MNT |
| 0.084627397 | 0.221995279 | 0.445 | 1 | 51684 | SUFU |
| 0.084616378 | 0.222055718 | 0.425 | 1 | 285097 | FLJ38379 |
| 0.084554181 | 0.222396925 | 0.434 | 1 | 51347 | TAOK3 |
| 0.084550947 | 0.222414687 | 0.419 | 1 | 119695 | OR52R1 |
| 0.084535398 | 0.222500041 | 0.409 | 1 | 5071 | PARK2 |
| 0.084503002 | 0.222677976 | 0.428 | 1 | 100128124 | HGC6.3 |
| 0.084440157 | 0.223023415 | 0.411 | 1 | 54897 | CASZ1 |
| 0.084398039 | 0.223255128 | 0.431 | 1 | 133482 | SLCO6A1 |
| 0.084325477 | 0.223654807 | 0.42 | 1 | 25818 | KLK5 |
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| 0.084212743 | 0.224276677 | 0.419 | 1 | 10901 | DHRS4 |
| 0.084189415 | 0.224405542 | 0.402 | 1 | 115106 | HAUS1 |
| 0.084179699 | 0.224459216 | 0.411 | 1 | 1463 | NCAN |
| 0.084173225 | 0.224494949 | 0.43 | 1 | 57544 | TXNDC16 |
| 0.084166095 | 0.224534363 | 0.413 | 1 | 10865 | ARID5A |
| 0.084146008 | 0.224645436 | 0.435 | 1 | 1325 | CORT |
| 0.084134348 | 0.224709868 | 0.443 | 1 | 51352 | WT1-AS |
| 0.0841337 | 0.224713489 | 0.432 | 1 | 399664 | MEX3D |
| 0.084130459 | 0.224731386 | 0.423 | 1 | 3822 | KLRC2 |
| 0.084127866 | 0.224745736 | 0.408 | 1 | 353133 | LCE1C |
| 0.084052712 | 0.225161627 | 0.445 | 1 | 732253 | RP11-535K1.1 |
| 0.084011897 | 0.225387663 | 0.455 | 1 | 79847 | TMEM180 |
| 0.08400736 | 0.225412831 | 0.44 | 1 | 2731 | GLDC |
| 0.083974965 | 0.22559239 | 0.409 | 1 | 140545 | RNF32 |
| 0.083963305 | 0.225657076 | 0.388 | 1 | 442117 | GALNTL6 |
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| 0.083906934 | 0.225969836 | 0.414 | 1 | 55220 | KLHDC8A |
| 0.083893329 | 0.226045355 | 0.462 | 1 | 123872 | LRRC50 |
| 0.083870009 | 0.226174891 | 0.427 | 1 | 64167 | ERAP2 |
| 0.083851866 | 0.226275682 | 0.432 | 1 | 55129 | ANO10 |
| 0.083833076 | 0.226380125 | 0.435 | 1 | 168090 | C6orf118 |
| 0.083756626 | 0.226805389 | 0.451 | 1 | 148523 | C1orf51 |
| 0.083727472 | 0.226967677 | 0.406 | 1 | 343990 | C2orf55 |
| 0.083687298 | 0.227191478 | 0.433 | 1 | 23766 | GABARAPL3 |
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| 0.083612792 | 0.227606907 | 0.455 | 1 | 444882 | IGFL4 |
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| 0.056041379 | < 0.001 | 53335 | BCL11A |
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| 0.055592705 | < 0.001 | 285498 | RNF212 |
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| 0.055387575 | < 0.001 | 29951 | PDZRN4 |
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| 0.083450168 | 0.22851561 | 0.411 | 1 | 114788 | CSMD3 |
| 0.083443694 | 0.22855188 | 0.402 | 1 | 140706 | C20orf160 |
| 0.0834262 | 0.22864978 | 0.405 | 1 | 91351 | DDX60L |
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| 0.083257094 | 0.229597777 | 0.393 | 1 | 3400 | ID4 |
| 0.083227292 | 0.229765162 | 0.453 | 1 | 23326 | USP22 |
| 0.083146952 | 0.230216742 | 0.455 | 1 | 79400 | NOX5 |
| 0.083134644 | 0.230286002 | 0.419 | 1 | 100128771 | EIF4BP3 |
| 0.08311262 | 0.230409905 | 0.447 | 1 | 5446 | PON3 |
| 0.083096422 | 0.2305011 | 0.403 | 1 | 2676 | GFRA3 |
| 0.083082817 | 0.230577737 | 0.429 | 1 | 6940 | ZNF354A |
| 0.083054952 | 0.230734661 | 0.423 | 1 | 26007 | DAK |
| 0.083049126 | 0.230767518 | 0.426 | 1 | 158787 | RIBC1 |
| 0.083033577 | 0.230855122 | 0.396 | 1 | 51639 | AC008073.1 |
| 0.083012842 | 0.230972022 | 0.42 | 1 | 151056 | PLB1 |
| 0.082996644 | 0.231063351 | 0.438 | 1 | 9970 | NR1I3 |
| 0.082938336 | 0.231392354 | 0.412 | 1 | 3081 | HGD |
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| 0.0829027 | 0.231593594 | 0.452 | 1 | 2819 | GPD1 |
| 0.08288002 | 0.231721714 | 0.44 | 1 | 100131733 | USP30-AS1 |
| 0.082851514 | 0.23188284 | 0.409 | 1 | 391123 | VSIG8 |
| 0.08284115 | 0.231941417 | 0.454 | 1 | 441150 | C6orf226 |
| 0.082839206 | 0.231952429 | 0.414 | 1 | 51062 | ATL1 |
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| 0.081623755 | 0.238897547 | 0.449 | 1 | 3725 | JUN |
| 0.081620514 | 0.238916278 | 0.436 | 1 | 4316 | MMP7 |
| 0.081617273 | 0.238935038 | 0.428 | 1 | 84225 | ZMYND15 |
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| 0.081292033 | 0.240818068 | 0.441 | 1 | 170393 | C10orf91 |
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| 0.081235014 | 0.241149291 | 0.462 | 1 | 7739 | ZNF185 |
| 0.081217527 | 0.241250962 | 0.441 | 1 | 79369 | B3GNT4 |
| 0.081188366 | 0.241420507 | 0.434 | 1 | 9002 | F2RL3 |
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| 0.081026398 | 0.242363781 | 0.413 | 1 | 27077 | B9D1 |
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| 0.080791213 | 0.243738025 | 0.436 | 1 | 9413 | C9orf61 |
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| 0.08070115 | 0.244265705 | 0.452 | 1 | 84815 | MGC12916 |
| 0.080683656 | 0.24436833 | 0.447 | 1 | 577 | BAI3 |
| 0.080675237 | 0.244417697 | 0.449 | 1 | 90668 | LRRC16B |
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| 0.080342866 | 0.246372879 | 0.424 | 1 | 51291 | GMIP |
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| 0.080235966 | 0.247004077 | 0.441 | 1 | 9077 | DIRAS3 |
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| 0.080075935 | 0.247951001 | 0.446 | 1 | 81872 | KRTAP2-3 |
| 0.080057144 | 0.248062313 | 0.443 | 1 | 7480 | WNT10B |
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| 0.078860484 | 0.25522542 | 0.46 | 1 | 7319 | UBE2A |
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| 0.046214733 | 1.14906E-43 | 5801 | PTPRR |
| 0.046214662 | 1.14906E-43 | 284266 | SIGLEC15 |
| 0.046208896 | 1.17709E-43 | 285527 | FRYL |
| 0.046194658 | 1.23314E-43 | 1616 | DAXX |
| 0.046187222 | 1.28919E-43 | 51015 | ISOC1 |
| 0.046178889 | 1.34525E-43 | 85440 | DOCK7 |
| 0.046175066 | 1.34525E-43 | 728215 | FAM155A |
| 0.046161659 | 1.42932E-43 | 2151 | F2RL2 |
| 0.046157699 | 1.45735E-43 | 5599 | MAPK8 |
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| 0.046088029 | 1.96182E-43 | 646405 | TPTE2P1 |
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| 0.046041418 | 2.35418E-43 | 90827 | ZNF479 |
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| 0.046000849 | 2.8026E-43 | 120114 | FAT3 |
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| 0.04595653 | 3.36312E-43 | 57495 | KIAA1239 |
| 0.045929857 | 3.75548E-43 | 4212 | MEIS2 |
| 0.045888245 | 4.48416E-43 | 339665 | SLC35E4 |
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| 0.045616917 | 1.37327E-42 | 80895 | ILKAP |
| 0.045605037 | 1.44053E-42 | 414328 | IDNK |
| 0.045597885 | 1.48538E-42 | 8760 | CDS2 |
| 0.045591492 | 1.52461E-42 | 64769 | MEAF6 |
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| 0.045576766 | 1.6199E-42 | 122481 | AK7 |
| 0.045548633 | 1.81889E-42 | 9985 | REC8 |
| 0.045543008 | 1.86092E-42 | 83448 | PUS7L |
| 0.045530364 | 1.96182E-42 | 255758 | TCTEX1D2 |
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| 0.045512721 | 2.10755E-42 | 5771 | PTPN2 |
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| 0.045388862 | 3.50885E-42 | 8330 | HIST1H2AK |
| 0.045351144 | 4.0974E-42 | 6508 | SLC4A3 |
| 0.045345519 | 4.19269E-42 | 90338 | ZNF160 |
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| 0.045339406 | 4.29918E-42 | 387486 | LINC00320 |
| 0.045321759 | 4.62428E-42 | 136895 | C7orf31 |
| 0.045284946 | 5.37538E-42 | 325 | APCS |
| 0.045209851 | 7.30917E-42 | 79009 | DDX50 |
| 0.045162059 | 8.88984E-42 | 1310 | COL19A1 |
| 0.045144554 | 9.54565E-42 | 124045 | C16orf55 |
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| 0.070433311 | 0.309702873 | 0.471 | 1 | 4761 | NEUROD2 |
| 0.070375651 | 0.310100079 | 0.491 | 1 | 23213 | SULF1 |
| 0.070356861 | 0.310229689 | 0.492 | 1 | 441454 | LOC441454 |
| 0.070348442 | 0.310287625 | 0.483 | 1 | 7869 | SEMA3B |
| 0.070345201 | 0.310310036 | 0.477 | 1 | 4172 | MCM3 |
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| 0.070152774 | 0.311638683 | 0.477 | 1 | 11005 | SPINK5 |
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| 0.070036151 | 0.31244576 | 0.51 | 1 | 26575 | RSG17 |
| 0.070009589 | 0.312629759 | 0.511 | 1 | 23654 | PLXNB2 |
| 0.069985613 | 0.312795877 | 0.508 | 1 | 22980 | TCF25 |
| 0.06996683 | 0.312926143 | 0.461 | 1 | 153572 | IRX2 |
| 0.069943503 | 0.31308791 | 0.527 | 1 | 9546 | APBA3 |
| 0.069935083 | 0.313146293 | 0.495 | 1 | 1826 | DSCAM |
| 0.069924064 | 0.313222736 | 0.496 | 1 | 7106 | TSPAN4 |
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| 0.069924064 | 0.313222736 | 0.475 | 1 | 79971 | GPR177 |
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| 0.069826886 | 0.313897401 | 0.505 | 1 | 656 | BMP8B |
| 0.069819108 | 0.313951373 | 0.493 | 1 | 55199 | FAM86C |
| 0.069813922 | 0.313987494 | 0.509 | 1 | 56978 | PRDM8 |
| 0.069786064 | 0.31418103 | 0.509 | 1 | 4880 | NPPC |
| 0.069711559 | 0.314699292 | 0.488 | 1 | 10189 | THOC4 |
| 0.069710262 | 0.314708292 | 0.53 | 1 | 84502 | JPH4 |
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| 0.069697954 | 0.314793944 | 0.502 | 1 | 83401 | ELOVL3 |
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| 0.069650009 | 0.31512779 | 0.495 | 1 | 114814 | GNRHR2 |
| 0.069506824 | 0.316126049 | 0.512 | 1 | 389137 | ARMC10P1 |
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| 0.069273584 | 0.317756712 | 0.522 | 1 | 131450 | CD200R1 |
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| 0.069151774 | 0.31861046 | 0.532 | 1 | 5367 | PMCH |
| 0.069132335 | 0.318746835 | 0.533 | 1 | 5241 | PGR |
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| 0.069098003 | 0.318987757 | 0.517 | 1 | 9166 | EBAG9 |
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| 0.069079861 | 0.319115132 | 0.517 | 1 | 55650 | PIGV |
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| 0.069037743 | 0.31941098 | 0.513 | 1 | 664701 | ZNF826P |
| 0.069016367 | 0.319561213 | 0.493 | 1 | 60494 | CCDC81 |
| 0.069004707 | 0.31964317 | 0.47 | 1 | 51071 | DERA |
| 0.069002114 | 0.319661409 | 0.516 | 1 | 28232 | SLCO3A1 |
| 0.068993039 | 0.319725186 | 0.488 | 1 | 10226 | M6PRBP1 |
| 0.068906225 | 0.320335954 | 0.531 | 1 | 65264 | UBE2Z |
| 0.068888731 | 0.320459157 | 0.51 | 1 | 23244 | PDS5A |
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| 0.044615578 | 8.1819E-41 | 254028 | LOC254028 |
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| 0.044557229 | 1.03536E-40 | 3137 | HLA-J |
| 0.044542432 | 1.09898E-40 | 4948 | OCA2 |
| 0.04451694 | 1.2179E-40 | 421 | ARVCF |
| 0.044509228 | 1.25629E-40 | 729096 | RP11-464F9.1 |
| 0.044508394 | 1.26055E-40 | 160777 | CCDC60 |
| 0.044508047 | 1.26229E-40 | 4148 | MATN3 |
| 0.044497628 | 1.31638E-40 | 131873 | AC128683.1 |
| 0.044495545 | 1.32748E-40 | 3068 | HDGF |
| 0.044489708 | 1.35904E-40 | 11075 | STMN2 |
| 0.044464909 | 1.50169E-40 | 55636 | CHD7 |
| 0.044446085 | 1.61979E-40 | 118429 | ANTXR2 |
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| 0.068757206 | 0.321386129 | 0.52 | 1 | 11247 | NXPH4 |
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| 0.068638645 | 0.322223246 | 0.508 | 1 | 6902 | TBCA |
| 0.068615317 | 0.322388113 | 0.533 | 1 | 1389 | CREBL2 |
| 0.068595231 | 0.32253015 | 0.541 | 1 | 10040 | TOM1L1 |
| 0.068586811 | 0.322589666 | 0.48 | 1 | 55783 | FTSJD1 |
| 0.06858357 | 0.322612584 | 0.534 | 1 | 10827 | FAM114A2 |
| 0.068549879 | 0.322850913 | 0.521 | 1 | 442421 | PTGER4P2 |
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| 0.068429373 | 0.323704273 | 0.539 | 1 | 8715 | NOL4 |
| 0.068422891 | 0.323750198 | 0.508 | 1 | 9382 | COG1 |
| 0.068418361 | 0.323782295 | 0.497 | 1 | 56097 | PCDHGC5 |
| 0.068374299 | 0.324094743 | 0.511 | 1 | 60685 | ZFAND3 |
| 0.068343848 | 0.324310809 | 0.51 | 1 | 388588 | RP1-286D6.2 |
| 0.068314694 | 0.324517697 | 0.521 | 1 | 646799 | ZAR1L |
| 0.068301737 | 0.324609727 | 0.509 | 1 | 5083 | PAX9 |
| 0.068276472 | 0.324789137 | 0.498 | 1 | 2175 | FANCA |
| 0.068272583 | 0.324816734 | 0.519 | 1 | 166793 | ZNF509 |
| 0.068266749 | 0.324858159 | 0.484 | 1 | 760 | CA2 |
| 0.068195485 | 0.325364679 | 0.52 | 1 | 8325 | FZD8 |
| 0.068181232 | 0.325466096 | 0.524 | 1 | 93377 | OPALIN |
| 0.068172805 | 0.325525999 | 0.51 | 1 | 4815 | NINJ2 |
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| 0.068095058 | 0.326079339 | 0.522 | 1 | 79957 | PAQR6 |
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| 0.068011478 | 0.326674879 | 0.499 | 1 | 5630 | PRPH |
| 0.067936324 | 0.327210963 | 0.493 | 1 | 4938 | OAS1 |
| 0.0679143 | 0.32736817 | 0.508 | 1 | 1371 | CPOX |
| 0.06789162 | 0.327530146 | 0.501 | 1 | 79073 | TMEM109 |
| 0.06788449 | 0.327581018 | 0.525 | 1 | 221409 | SPATS1 |
| 0.067878015 | 0.327627271 | 0.53 | 1 | 100288346 | AP000880.1 |
| 0.067861818 | 0.327742994 | 0.523 | 1 | 64326 | RFWD2 |
| 0.067814521 | 0.328081012 | 0.523 | 1 | 10038 | PARP2 |
| 0.067779534 | 0.328331202 | 0.533 | 1 | 26658 | OR7C2 |
| 0.067775644 | 0.328359038 | 0.474 | 1 | 55030 | FBXO34 |
| 0.067765929 | 0.328428537 | 0.546 | 1 | 347918 | EP400NL |
| 0.067737423 | 0.328632474 | 0.536 | 1 | 100287728 | LOC100287728 |
| 0.067724466 | 0.328725249 | 0.544 | 1 | 6358 | CCL14 |
| 0.067672633 | 0.329096437 | 0.53 | 1 | 83716 | CRISPLD2 |
| 0.067666799 | 0.32913819 | 0.526 | 1 | 54434 | SSH1 |
| 0.067649305 | 0.329263508 | 0.501 | 1 | 80005 | DOCK5 |
| 0.067641534 | 0.329319239 | 0.519 | 1 | 51284 | TLR7 |
| 0.067626633 | 0.32942605 | 0.509 | 1 | 55771 | PRR11 |
| 0.067578688 | 0.32976982 | 0.52 | 1 | 2222 | FDFT1 |
| 0.067578688 | 0.32976982 | 0.531 | 1 | 340508 | RP11-520B13.4 |
| 0.067574799 | 0.329797745 | 0.526 | 1 | 6448 | SGSH |
| 0.067553416 | 0.329951108 | 0.523 | 1 | 254958 | REXO1L1 |
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| 0.067511953 | 0.330248743 | 0.521 | 1 | 401551 | WDR38 |
| 0.067502238 | 0.330318481 | 0.511 | 1 | 7539 | ZFP37 |
| 0.06750159 | 0.33032313 | 0.491 | 1 | 58508 | MLL3 |
| 0.067482151 | 0.330462724 | 0.516 | 1 | 3482 | IGF2R |
| 0.06747891 | 0.330486059 | 0.558 | 1 | 56606 | SLC2A9 |
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| 0.067449756 | 0.33069548 | 0.511 | 1 | 645996 | NAP1L6 |
| 0.06744457 | 0.330732733 | 0.523 | 1 | 136541 | PRSS58 |
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| 0.067414768 | 0.330946952 | 0.529 | 1 | 580 | BARD1 |
| 0.067365527 | 0.331301063 | 0.519 | 1 | 389634 | RP11-90D4.2 |
| 0.067359701 | 0.331342995 | 0.517 | 1 | 143384 | C10orf46 |
| 0.067347385 | 0.331431627 | 0.517 | 1 | 389033 | AC079776.2 |
| 0.067337669 | 0.331501573 | 0.555 | 1 | 5836 | PYGL |
| 0.067312405 | 0.331683427 | 0.488 | 1 | 6641 | SNTB1 |
| 0.067311108 | 0.331692755 | 0.511 | 1 | 219983 | OR4D6 |
| 0.067311108 | 0.331692755 | 0.519 | 1 | 440163 | RNASE13 |
| 0.067309812 | 0.331702054 | 0.516 | 1 | 790955 | C11orf83 |
| 0.067245021 | 0.332168758 | 0.537 | 1 | 160428 | ALDH1L2 |
| 0.067233361 | 0.33225283 | 0.53 | 1 | 200420 | ALMS1P |
| 0.06718865 | 0.332575172 | 0.524 | 1 | 135138 | PACRG |
| 0.067171164 | 0.332701325 | 0.498 | 1 | 2352 | FOLR3 |
| 0.067155614 | 0.332813472 | 0.517 | 1 | 9317 | PTER |
| 0.067152373 | 0.332836837 | 0.551 | 1 | 145501 | ISM2 |
| 0.06714265 | 0.332906991 | 0.523 | 1 | 51367 | POP5 |
| 0.067136176 | 0.332953751 | 0.502 | 1 | 10658 | CUGBP1 |
| 0.067082398 | 0.333342016 | 0.521 | 1 | 22838 | RNF44 |
| 0.067057781 | 0.333519846 | 0.51 | 1 | 3099 | HK2 |
| 0.066998176 | 0.333950698 | 0.493 | 1 | 374387 | AC044839.2 |
| 0.066976145 | 0.334110051 | 0.509 | 1 | 729595 | HMGB3P22 |

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| 0.04394719 | 1.19141E-39 | 11329 | STK38 |
| 0.043937184 | 1.23978E-39 | 11069 | RAPGEF4 |
| 0.043930516 | 1.27312E-39 | 55471 | C2orf56 |
| 0.043917179 | 1.34243E-39 | 4613 | MYCN |
| 0.043880433 | 1.55341E-39 | 5715 | PSMD9 |
| 0.043839935 | 1.82435E-39 | 65266 | WNK4 |
| 0.043831669 | 1.88512E-39 | 3047 | HBG1 |
| 0.043788947 | 2.23311E-39 | 7022 | TFAP2C |
| 0.043782905 | 2.28726E-39 | 1749 | DLX5 |
| 0.043774359 | 2.36604E-39 | 89795 | NAV3 |
| 0.043713577 | 3.00973E-39 | 55835 | CENPJ |
| 0.043711495 | 3.03457E-39 | 79834 | AC107883.1 |
| 0.043706216 | 3.09867E-39 | 79842 | ZBTB3 |
| 0.043702532 | 3.1441E-39 | 55022 | PID1 |
| 0.043701977 | 3.15106E-39 | 148709 | RP11-480I12.7 |
| 0.043691419 | 3.28535E-39 | 83863 | TTTY5 |
| 0.043686625 | 3.34823E-39 | 4502 | MT2A |
| 0.043654673 | 3.79897E-39 | 6314 | ATXN7 |
| 0.043610699 | 4.51939E-39 | 379025 | RP11-349A22.5 |
| 0.043597363 | 4.76362E-39 | 3135 | HLA-G |
| 0.043588817 | 4.92694E-39 | 147372 | CCBE1 |
| 0.0435577 | 5.57034E-39 | 10432 | RBM14 |
| 0.043544907 | 6.7409E-39 | 57664 | PLEKHA4 |
| 0.043528732 | 6.24388E-39 | 221496 | LEMD2 |
| 0.043524425 | 6.3507E-39 | 29780 | PARVB |
| 0.043482468 | 7.49157E-39 | 57484 | RNF150 |
| 0.043473091 | 7.77316E-39 | 65250 | C5orf42 |
| 0.043462045 | 8.11833E-39 | 54487 | DGCR8 |
| 0.043450307 | 8.50199E-39 | 64375 | IKZF4 |
| 0.043430787 | 9.18025E-39 | 134466 | ZNF300P1 |
| 0.043418214 | 9.6452E-39 | 55034 | MOCOS |
| 0.043381188 | 1.11551E-38 | 8869 | ST3GAL5 |
| 0.043363754 | 1.19454E-38 | 5577 | PRKAR2B |
| 0.043356806 | 1.22754E-38 | 147923 | ZNF420 |
| 0.043352984 | 1.2461E-38 | 23324 | MAN2B2 |
| 0.043350693 | 1.25735E-38 | 100128385 | LINC00256B |
| 0.04331214 | 1.46261E-38 | 728411 | AC138951.4 |
| 0.043303248 | 1.51448E-38 | 9312 | KCNB2 |
| 0.043302692 | 1.51779E-38 | 1066 | CES1 |
| 0.043296997 | 1.55204E-38 | 84450 | ZNF512 |
| 0.043295886 | 1.55883E-38 | 345456 | PFN3 |
| 0.043289147 | 1.60051E-38 | 29855 | UBN1 |
| 0.043257542 | 1.81142E-38 | 116028 | C16orf75 |
| 0.043241564 | 1.92832E-38 | 3775 | KCNK1 |
| 0.0432317 | 2.00425E-38 | 134218 | DNAJC21 |
| 0.043213293 | 2.15385E-38 | 3638 | INSIG1 |
| 0.043211624 | 2.16803E-38 | 23316 | CUX2 |
| 0.043210097 | 2.18098E-38 | 359821 | MRPL42P5 |
| 0.043206275 | 2.21383E-38 | 9567 | GTPBP1 |
| 0.043170918 | 2.54196E-38 | 79876 | UBA5 |
| 0.043080751 | 3.61432E-38 | 10590 | SCGN |
| 0.043072626 | 3.73068E-38 | 378825 | LINC00162 |
| 0.043071374 | 3.74894E-38 | 53904 | MYO3A |
| 0.043061025 | 3.90319E-38 | 140545 | RNF32 |
| 0.043058664 | 3.93926E-38 | 120224 | TMEM45B |
| 0.043026708 | 4.4616E-38 | 83741 | TFAP2D |
| 0.043024484 | 4.50042E-38 | 128488 | WFDC12 |
| 0.043002672 | 4.89929E-38 | 728568 | C12orf73 |
| 0.042933211 | 6.41879E-38 | 129446 | XIRP2 |
| 0.04292411 | 6.64989E-38 | 3008 | HIST1H1E |
| 0.042841583 | 9.1609E-38 | 2900 | GRIK4 |
| 0.042826582 | 9.70958E-38 | 23275 | POFUT2 |
| 0.042823385 | 9.83066E-38 | 79175 | ZNF343 |
| 0.042813729 | 1.02056E-37 | 6780 | STAU1 |
| 0.042755239 | 1.28E-37 | 54927 | CHCHD3 |
| 0.042748224 | 1.31523E-37 | 10465 | PPIH |
| 0.042643055 | 1.97485E-37 | 124872 | B4GALNT2 |
| 0.042630065 | 2.07636E-37 | 55911 | AC138894.3 |
| 0.042612072 | 2.22563E-37 | 3563 | IL3RA |
| 0.042606167 | 2.27686E-37 | 1814 | DRD3 |
| 0.042602487 | 2.30945E-37 | 254439 | C11orf86 |
| 0.042601932 | 2.31437E-37 | 4154 | MBNL1 |
| 0.042594984 | 2.37725E-37 | 285598 | ARL10 |
| 0.04259422 | 2.38422E-37 | 333926 | PPM1J |
| 0.042581577 | 2.50332E-37 | 5542 | PRB1 |
| 0.042574205 | 3.81665E-37 | 23677 | SH3BP4 |
| 0.042541496 | 2.92141E-37 | 7576 | ZNF28 |
| 0.042524684 | 3.11671E-37 | 2006 | ELN |
| 0.042517532 | 3.20369E-37 | 27285 | TEKT2 |
| 0.042513989 | 3.24773E-37 | 7767 | ZNF224 |
| 0.042513363 | 3.25554E-37 | 54919 | HEATR2 |

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|---|---|---|---|---|---|
| 0.066972904 | 0.334133476 | 0.52 | 1 | 443 | ASPA |
| 0.066952817 | 0.334278792 | 0.494 | 1 | 54760 | PCSK4 |
| 0.066924959 | 0.334480405 | 0.532 | 1 | 51686 | OAZ3 |
| 0.066897102 | 0.334682077 | 0.537 | 1 | 348327 | ZNF530 |
| 0.066891916 | 0.334719628 | 0.543 | 1 | 1381 | CRABP1 |
| 0.066862114 | 0.334935486 | 0.487 | 1 | 57556 | SEMA6A |
| 0.066851102 | 0.335015297 | 0.521 | 1 | 145741 | FAM148A |
| 0.066849157 | 0.335029364 | 0.548 | 1 | 388403 | YPEL2 |
| 0.066792145 | 0.335442632 | 0.562 | 1 | 84364 | ARFGAP2 |
| 0.066744201 | 0.335790455 | 0.515 | 1 | 10056 | FARSB |
| 0.066730589 | 0.33588922 | 0.548 | 1 | 10947 | AP3M2 |
| 0.066676818 | 0.33627966 | 0.545 | 1 | 8720 | MBTPS1 |
| 0.066652842 | 0.336453825 | 0.521 | 1 | 340595 | ZCCHC16 |
| 0.066649608 | 0.336477339 | 0.535 | 1 | 100125288 | AC011511.1 |
| 0.066647664 | 0.336491406 | 0.501 | 1 | 6590 | SLPI |
| 0.066647664 | 0.336491406 | 0.506 | 1 | 27248 | C2orf30 |
| 0.066623688 | 0.33666566 | 0.519 | 1 | 22882 | ZHX2 |
| 0.06657315 | 0.337033123 | 0.518 | 1 | 4199 | ME1 |
| 0.066556953 | 0.337150991 | 0.525 | 1 | 339352 | LOC339352 |
| 0.066551775 | 0.337188631 | 0.521 | 1 | 55048 | VPS37C |
| 0.066529095 | 0.337353706 | 0.509 | 1 | 8760 | CDS2 |
| 0.066516139 | 0.337447971 | 0.544 | 1 | 401265 | KLHL31 |
| 0.06651549 | 0.33745271 | 0.521 | 1 | 84319 | C3orf26 |
| 0.06648504 | 0.337674409 | 0.522 | 1 | 29085 | PHPT1 |
| 0.066458479 | 0.337867945 | 0.524 | 1 | 63947 | DMRTC1B |
| 0.066448756 | 0.337938726 | 0.52 | 1 | 122060 | SLAIN1 |
| 0.066407941 | 0.338236183 | 0.521 | 1 | 56241 | SUSD2 |
| 0.066402107 | 0.338278711 | 0.522 | 1 | 9253 | NUMBL |
| 0.066395633 | 0.338325977 | 0.527 | 1 | 79628 | SH3TC2 |
| 0.066365831 | 0.338543296 | 0.523 | 1 | 3995 | FADS3 |
| 0.0663587 | 0.338595301 | 0.536 | 1 | 55612 | FERMT1 |
| 0.066297799 | 0.339039743 | 0.546 | 1 | 400553 | AC134312.1 |
| 0.066284195 | 0.339139104 | 0.521 | 1 | 284486 | THEM5 |
| 0.066238843 | 0.339470416 | 0.524 | 1 | 51186 | WBP5 |
| 0.066203207 | 0.339730889 | 0.572 | 1 | 65988 | ZNF747 |
| 0.066156559 | 0.340072006 | 0.541 | 1 | 9076 | CLDN1 |
| 0.066128701 | 0.340275824 | 0.524 | 1 | 440097 | DBX2 |
| 0.066107318 | 0.340432376 | 0.561 | 1 | 120526 | DNAJC24 |
| 0.066095658 | 0.3405177 | 0.562 | 1 | 79863 | RBFA |
| 0.066093713 | 0.340531945 | 0.497 | 1 | 434 | ASIP |
| 0.066089176 | 0.340565175 | 0.521 | 1 | 967 | CD63 |
| 0.066068441 | 0.340717018 | 0.514 | 1 | 83544 | DNAL1 |
| 0.066067792 | 0.340721786 | 0.551 | 1 | 23215 | BAT2D1 |
| 0.06604512 | 0.340887845 | 0.492 | 1 | 9414 | TJP2 |
| 0.066038638 | 0.34093532 | 0.515 | 1 | 119692 | OR51S1 |
| 0.06598033 | 0.341362774 | 0.521 | 1 | 90522 | YIF1B |
| 0.06592267 | 0.341785729 | 0.523 | 1 | 26015 | RPAP1 |
| 0.065885738 | 0.342056841 | 0.531 | 1 | 57670 | KIAA1549 |
| 0.065817058 | 0.342561394 | 0.523 | 1 | 152789 | JAKMIP1 |
| 0.065812528 | 0.342594653 | 0.517 | 1 | 26030 | PLEKHG3 |
| 0.065785311 | 0.342794746 | 0.539 | 1 | 58486 | ZBED5 |
| 0.065749682 | 0.343056768 | 0.511 | 1 | 83729 | INHBE |
| 0.065719225 | 0.343280882 | 0.513 | 1 | 2800 | GOLGA1 |
| 0.065679058 | 0.343576521 | 0.51 | 1 | 7267 | TTC3 |
| 0.06566675 | 0.343667209 | 0.553 | 1 | 353500 | BMP8A |
| 0.065630466 | 0.343934476 | 0.514 | 1 | 729583 | C6orf100 |
| 0.065624632 | 0.343977451 | 0.509 | 1 | 146429 | SLC22A31 |
| 0.065618806 | 0.344020367 | 0.504 | 1 | 81794 | ADAMTS10 |
| 0.065598071 | 0.344173193 | 0.545 | 1 | 163033 | ZNF579 |
| 0.065564379 | 0.344421595 | 0.525 | 1 | 10017 | BCL2L10 |
| 0.065546885 | 0.34455061 | 0.551 | 1 | 6173 | RPL36A |
| 0.065538466 | 0.344612718 | 0.535 | 1 | 286499 | FAM133A |
| 0.065522917 | 0.344727457 | 0.524 | 1 | 50944 | SHANK1 |
| 0.065517731 | 0.344765723 | 0.501 | 1 | 249 | ALPL |
| 0.065483391 | 0.345019192 | 0.54 | 1 | 23091 | ZC3H13 |
| 0.065480158 | 0.345043063 | 0.541 | 1 | 388335 | TMEM220 |
| 0.065477565 | 0.345062226 | 0.514 | 1 | 83857 | TMTC1 |
| 0.06546849 | 0.345129222 | 0.546 | 1 | 145226 | RDH12 |
| 0.065430917 | 0.345406771 | 0.559 | 1 | 51127 | TRIM17 |
| 0.06542249 | 0.345468998 | 0.533 | 1 | 64760 | FAM160B2 |
| 0.06539917 | 0.345641345 | 0.519 | 1 | 80789 | INTS5 |
| 0.065395929 | 0.345665306 | 0.564 | 1 | 55237 | C14orf115 |
| 0.065381028 | 0.345775485 | 0.504 | 1 | 130872 | AHSA2 |
| 0.065370016 | 0.345856875 | 0.534 | 1 | 55503 | TRPV6 |
| 0.065370016 | 0.345856875 | 0.539 | 1 | 57654 | KIAA1530 |
| 0.065344095 | 0.346048564 | 0.543 | 1 | 2560 | GABRB1 |
| 0.065296151 | 0.346403331 | 0.547 | 1 | 30844 | EHD4 |
| 0.065287732 | 0.346465647 | 0.497 | 1 | 5008 | OSM |
| 0.065285787 | 0.346480012 | 0.558 | 1 | 55128 | TRIM68 |
| 0.065255985 | 0.346700698 | 0.562 | 1 | 139728 | PNCK |
| 0.0652197 | 0.346969485 | 0.539 | 1 | 10209 | EIF1 |

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| 0.042490024 | 3.56138E-37 | 8310 | ACOX3 |
| 0.042456262 | 4.05506E-37 | 55250 | ELP2 |
| 0.042446122 | 4.21619E-37 | 389384 | C6orf222 |
| 0.042438064 | 4.34875E-37 | 5158 | PDE6B |
| 0.04242681 | 4.54087E-37 | 5087 | PBX1 |
| 0.042422224 | 4.62156E-37 | 6428 | SRSF3 |
| 0.042386658 | 5.29764E-37 | 144097 | C11orf84 |
| 0.042380683 | 5.4205E-37 | 389874 | ZCCHC13 |
| 0.042379018 | 5.4552E-37 | 8805 | TRIM24 |
| 0.042371724 | 5.60996E-37 | 653641 | GOLGA6C |
| 0.04235943 | 5.88084E-37 | 6457 | SH3GL3 |
| 0.042358596 | 5.89962E-37 | 57519 | STARD9 |
| 0.042351577 | 6.06057E-37 | 375612 | LHFPL3 |
| 0.042334907 | 6.46056E-37 | 80309 | SPHKAP |
| 0.042327754 | 6.64014E-37 | 440279 | UNC13C |
| 0.042323723 | 6.74342E-37 | 5217 | PFN2 |
| 0.042309761 | 7.11398E-37 | 9900 | SV2A |
| 0.042288296 | 7.72336E-37 | 83894 | TTC29 |
| 0.042261135 | 8.56933E-37 | 6854 | SYN2 |
| 0.042202663 | 1.57729E-36 | 375611 | SLC26A5 |
| 0.042197783 | 1.09179E-36 | 219527 | LRRC55 |
| 0.042146865 | 1.32605E-36 | 286128 | ZFP41 |
| 0.042117693 | 1.48213E-36 | 81576 | CCDC130 |
| 0.04206052 | 1.84288E-36 | 23434 | C3orf27 |
| 0.042029817 | 2.07133E-36 | 284485 | C1orf230 |
| 0.041966327 | 2.63689E-36 | 9671 | WSCD2 |
| 0.041930415 | 3.02218E-36 | 339184 | CCDC144NL |
| 0.041921869 | 3.12188E-36 | 129880 | BBS5 |
| 0.041912213 | 3.23837E-36 | 91368 | CDKN2AIPNL |
| 0.041911867 | 3.24262E-36 | 79816 | TLE6 |
| 0.041880816 | 3.64799E-36 | 10239 | AP3S2 |
| 0.041877411 | 3.69539E-36 | 23200 | ATP11B |
| 0.041856088 | 4.00643E-36 | 5457 | POU4F1 |
| 0.0418192 | 4.60721E-36 | 9044 | BTAF1 |
| 0.041788843 | 5.16819E-36 | 55857 | PLK1S1 |
| 0.041781172 | 7.75089E-36 | 283234 | CCDC88B |
| 0.041759599 | 5.77264E-36 | 643382 | C14orf176 |
| 0.04175828 | 5.80143E-36 | 10199 | MPHOSPH10 |
| 0.041735146 | 6.33162E-36 | 23614 | PPY2 |
| 0.041733481 | 6.37165E-36 | 645811 | CCDC154 |
| 0.041727852 | 6.50856E-36 | 154791 | C7orf55 |
| 0.04170125 | 7.1964E-36 | 54841 | BIVM |
| 0.041693956 | 7.3974E-36 | 51763 | INPP5K |
| 0.041684438 | 7.66803E-36 | 50805 | IRX4 |
| 0.041666448 | 8.20647E-36 | 112609 | MRAP2 |
| 0.041660819 | 8.38254E-36 | 8290 | HIST3H3 |
| 0.041643314 | 8.95476E-36 | 401335 | C7orf65 |
| 0.041641023 | 9.03226E-36 | 84645 | C22orf23 |
| 0.041637134 | 9.16571E-36 | 1874 | E2F4 |
| 0.041618656 | 9.82681E-36 | 643314 | KIAA0754 |
| 0.041617092 | 1.08898E-35 | 4692 | NDN |
| 0.041609347 | 1.01776E-35 | 85437 | ZCRB1 |
| 0.041600108 | 1.05379E-35 | 4584 | MUC3A |
| 0.041594204 | 1.07752E-35 | 55814 | BDP1 |
| 0.041582674 | 1.1253E-35 | 126017 | ZNF813 |
| 0.041582257 | 1.1271E-35 | 9168 | TMSB10 |
| 0.041522514 | 1.41114E-35 | 9265 | CYTH3 |
| 0.041513 | 1.46252E-35 | 3850 | KRT3 |
| 0.041505914 | 1.50199E-35 | 8608 | RDH16 |
| 0.041501954 | 1.52453E-35 | 147694 | ZNF548 |
| 0.041500218 | 1.53448E-35 | 29774 | POM121L9P |
| 0.04147125 | 1.71088E-35 | 9088 | PKMYT1 |
| 0.041447006 | 1.8739E-35 | 10660 | LBX1 |
| 0.041445687 | 1.8832E-35 | 84695 | LOXL3 |
| 0.04143339 | 1.97211E-35 | 5167 | ENPP1 |
| 0.041421097 | 2.06519E-35 | 401491 | RP11-125B21.2 |
| 0.041413523 | 2.1247E-35 | 153769 | SH3RF2 |
| 0.041411787 | 2.13853E-35 | 6256 | RXRA |
| 0.041394562 | 2.28122E-35 | 139596 | UPRT |
| 0.041370805 | 2.49361E-35 | 146225 | CMTM2 |
| 0.041359968 | 2.59686E-35 | 1968 | EIF2S3 |
| 0.041335031 | 2.85103E-35 | 684 | BST2 |
| 0.041286197 | 3.42244E-35 | 10664 | CTCF |
| 0.041269455 | 3.64339E-35 | 55190 | NUDT11 |
| 0.04126348 | 3.72571E-35 | 4832 | NME3 |
| 0.041263133 | 3.73056E-35 | 441168 | FAM26F |
| 0.041232221 | 4.18704E-35 | 64793 | CCDC21 |
| 0.041209366 | 4.55992E-35 | 25775 | C22orf24 |
| 0.041202072 | 4.68571E-35 | 340252 | ZNF680 |
| 0.041195367 | 6.94435E-35 | 4062 | LY6H |
| 0.041162133 | 5.43828E-35 | 58487 | CREBZF |

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| 0.065209985 | 0.347041458 | 0.532 | 1 | 120114 | FAT3 |
| 0.065137416 | 0.347579449 | 0.573 | 1 | 256472 | TMEM151A |
| 0.065132238 | 0.347617865 | 0.563 | 1 | 3503 | IGHG4 |
| 0.065110855 | 0.347776532 | 0.542 | 1 | 6633 | SNRPD2 |
| 0.06510891 | 0.347790956 | 0.529 | 1 | 729993 | AC092324.1 |
| 0.065105669 | 0.347815007 | 0.539 | 1 | 401428 | OR2A20P |
| 0.065086238 | 0.34795922 | 0.526 | 1 | 112597 | LINC00152 |
| 0.065072626 | 0.34806025 | 0.522 | 1 | 161142 | C14orf54 |
| 0.065033756 | 0.348348886 | 0.56 | 1 | 10522 | DEAF1 |
| 0.06500525 | 0.348560661 | 0.524 | 1 | 4111 | MAGEA12 |
| 0.064960547 | 0.348892927 | 0.508 | 1 | 3115 | HLA-DPB1 |
| 0.064959899 | 0.348897725 | 0.54 | 1 | 399948 | C11orf92 |
| 0.064945638 | 0.349003792 | 0.536 | 1 | 6392 | SDHD |
| 0.064935923 | 0.349076062 | 0.54 | 1 | 374887 | YJEFN3 |
| 0.06492167 | 0.349182069 | 0.554 | 1 | 389161 | C3orf16 |
| 0.064913251 | 0.349244684 | 0.525 | 1 | 27034 | ACAD8 |
| 0.064862713 | 0.349620819 | 0.545 | 1 | 957 | ENTPD5 |
| 0.064831614 | 0.349852413 | 0.553 | 1 | 1417 | CRYBB3 |
| 0.064831614 | 0.349852413 | 0.504 | 1 | 79762 | C1orf115 |
| 0.064760342 | 0.350383461 | 0.499 | 1 | 90139 | TSPAN18 |
| 0.064754516 | 0.350426912 | 0.538 | 1 | 4325 | MMP16 |
| 0.064732485 | 0.350591213 | 0.515 | 1 | 1474 | CST6 |
| 0.064670935 | 0.351050407 | 0.525 | 1 | 2669 | GEM |
| 0.064652793 | 0.351185858 | 0.548 | 1 | 3730 | KAL1 |
| 0.064651497 | 0.351195514 | 0.53 | 1 | 928 | CD9 |
| 0.064527102 | 0.352125019 | 0.539 | 1 | 81871 | KRTAP4-6 |
| 0.064498596 | 0.352338225 | 0.549 | 1 | 5636 | PRPSAP2 |
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| 0.038556434 | 6.6245E-31 | 93659 | CGB5 |
| 0.038553238 | 6.69891E-31 | 10565 | ARFGEF1 |
| 0.038527258 | 7.33504E-31 | 122830 | NAA30 |
| 0.038526841 | 7.34585E-31 | 162394 | SLFN5 |
| 0.038514338 | 7.67348E-31 | 55716 | LMBR1L |
| 0.03850989 | 7.79356E-31 | 283008 | FAM22E |
| 0.038477939 | 8.71238E-31 | 79918 | SETD6 |
| 0.038472451 | 8.88061E-31 | 53353 | LRP1B |
| 0.038455848 | 9.40971E-31 | 4300 | MLLT3 |

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|---|---|---|---|---|---|
| 0.061786506 | 0.372994214 | 0.603 | 1 | 23550 | PSD4 |
| 0.061785858 | 0.372999221 | 0.567 | 1 | 2266 | FGG |
| 0.06175087 | 0.373270422 | 0.574 | 1 | 3188 | HNRNPH2 |
| 0.061743744 | 0.373325735 | 0.549 | 1 | 23166 | STAB1 |
| 0.061724957 | 0.373471439 | 0.583 | 1 | 57007 | CXCR7 |
| 0.061713293 | 0.373561919 | 0.585 | 1 | 152485 | ZNF827 |
| 0.061689321 | 0.373747945 | 0.563 | 1 | 5966 | REL |
| 0.061636195 | 0.374160349 | 0.567 | 1 | 1824 | DSC2 |
| 0.06162842 | 0.374220729 | 0.527 | 1 | 169834 | ZNF883 |
| 0.061611574 | 0.374351591 | 0.539 | 1 | 132851 | SPATA4 |
| 0.06159991 | 0.37444219 | 0.556 | 1 | 389677 | RBM12B |
| 0.06158242 | 0.374578118 | 0.567 | 1 | 84298 | LLPH |
| 0.061573349 | 0.374648601 | 0.556 | 1 | 57452 | GALNTL1 |
| 0.061561037 | 0.374744296 | 0.539 | 1 | 92558 | CCDC64 |
| 0.061554559 | 0.374794692 | 0.557 | 1 | 3670 | ISL1 |
| 0.061535124 | 0.37494573 | 0.548 | 1 | 222183 | AC005077.3 |
| 0.061497543 | 0.375238031 | 0.536 | 1 | 342035 | GLDN |
| 0.061463855 | 0.375500172 | 0.554 | 1 | 8332 | HIST1H2AL |
| 0.061456729 | 0.375555664 | 0.586 | 1 | 5540 | PPYR1 |
| 0.061456081 | 0.375560731 | 0.558 | 1 | 642521 | C1DP3 |
| 0.061437938 | 0.375701934 | 0.546 | 1 | 389873 | SEPHS1P4 |
| 0.061432756 | 0.375742286 | 0.551 | 1 | 643332 | AL355922.1 |
| 0.06140101 | 0.375989497 | 0.563 | 1 | 91464 | ISX |
| 0.061362781 | 0.376287341 | 0.582 | 1 | 151011 | SEPTIN10 |
| 0.061350472 | 0.376383275 | 0.55 | 1 | 6636 | SNRPF |
| 0.061333627 | 0.376514584 | 0.564 | 1 | 3109 | HLA-DMB |
| 0.061292809 | 0.376832873 | 0.568 | 1 | 157638 | FAM84B |
| 0.06127467 | 0.376974344 | 0.554 | 1 | 4502 | MT2A |
| 0.061238386 | 0.377257526 | 0.545 | 1 | 127933 | UHMK1 |
| 0.061212469 | 0.377459824 | 0.547 | 1 | 391257 | SUMO1P1 |
| 0.061192386 | 0.377616614 | 0.583 | 1 | 9245 | GCNT3 |
| 0.061170358 | 0.377788693 | 0.564 | 1 | 116285 | ACSM1 |
| 0.061141204 | 0.378016502 | 0.575 | 1 | 84811 | BUD13 |
| 0.06108354 | 0.378467292 | 0.589 | 1 | 56033 | BARX1 |
| 0.061069287 | 0.378578752 | 0.565 | 1 | 2895 | GRID2 |
| 0.061049849 | 0.378730834 | 0.54 | 1 | 286183 | NKAIN3 |
| 0.060995426 | 0.379156768 | 0.574 | 1 | 6367 | CCL22 |
| 0.060994778 | 0.379161835 | 0.572 | 1 | 440712 | C1orf186 |
| 0.06097275 | 0.379334331 | 0.551 | 1 | 1994 | ELAVL1 |
| 0.060922213 | 0.379730225 | 0.571 | 1 | 3987 | LIMS1 |
| 0.060921565 | 0.379735291 | 0.547 | 1 | 27094 | KCNMB3 |
| 0.06088658 | 0.380009502 | 0.55 | 1 | 388849 | LOC388849 |
| 0.060869735 | 0.380141616 | 0.556 | 1 | 57415 | C3orf14 |
| 0.060860664 | 0.380212724 | 0.562 | 1 | 7431 | VIM |
| 0.060858071 | 0.380233049 | 0.535 | 1 | 5800 | PTPRO |
| 0.060858071 | 0.380233049 | 0.605 | 1 | 117581 | TWIST2 |
| 0.060847707 | 0.38031432 | 0.572 | 1 | 10457 | GPNMB |
| 0.060836043 | 0.380405843 | 0.586 | 1 | 84548 | TMEM185A |
| 0.060829565 | 0.380456656 | 0.571 | 1 | 8091 | HMGA2 |
| 0.060795225 | 0.380726129 | 0.574 | 1 | 100130449 | AC110619.2 |
| 0.060789395 | 0.380771875 | 0.564 | 1 | 84075 | FSCB |
| 0.060744692 | 0.381122887 | 0.566 | 1 | 2000 | ELF4 |
| 0.060724605 | 0.381280661 | 0.56 | 1 | 23426 | GRIP1 |
| 0.060687676 | 0.381570876 | 0.568 | 1 | 728568 | C12orf73 |
| 0.060683787 | 0.381601423 | 0.59 | 1 | 114336 | CGB2 |
| 0.06063455 | 0.381988525 | 0.562 | 1 | 147912 | SIX5 |
| 0.060623534 | 0.382075191 | 0.566 | 1 | 6447 | SCG5 |
| 0.060601506 | 0.382248461 | 0.527 | 1 | 318 | NUDT2 |
| 0.060585957 | 0.38237083 | 0.56 | 1 | 6704 | SPRR2E |
| 0.060584661 | 0.382381022 | 0.57 | 1 | 10210 | TOPORS |
| 0.060583364 | 0.382391244 | 0.574 | 1 | 200879 | LIPH |
| 0.060572997 | 0.382472813 | 0.54 | 1 | 57205 | ATP10D |
| 0.060559392 | 0.382579952 | 0.572 | 1 | 84826 | SFT2D3 |
| 0.060539957 | 0.382732928 | 0.569 | 1 | 4116 | MAGOH |
| 0.060538013 | 0.382748246 | 0.569 | 1 | 497661 | C18orf32 |
| 0.060532831 | 0.382789075 | 0.544 | 1 | 148014 | TTC9B |
| 0.060531534 | 0.382799268 | 0.554 | 1 | 441032 | EEF1A1P9 |
| 0.060507562 | 0.382988065 | 0.571 | 1 | 6495 | SIX1 |
| 0.060499787 | 0.383049369 | 0.55 | 1 | 282808 | RAB40AL |
| 0.060450546 | 0.383437335 | 0.561 | 1 | 100506243 | RP11-141M3.1 |
| 0.060442124 | 0.383503735 | 0.538 | 1 | 390429 | OR4N2 |
| 0.060402602 | 0.383815408 | 0.571 | 1 | 730144 | LOC730144 |
| 0.060396124 | 0.383866519 | 0.536 | 1 | 349136 | WDR86 |
| 0.060363729 | 0.384122133 | 0.577 | 1 | 89886 | SLAMF9 |
| 0.060354657 | 0.384193689 | 0.572 | 1 | 90488 | C12orf23 |
| 0.060342997 | 0.384285748 | 0.566 | 1 | 55225 | RAVER2 |
| 0.060342349 | 0.384290844 | 0.588 | 1 | 26102 | DKFZP434A062 |
| 0.060313839 | 0.384515911 | 0.536 | 1 | 126353 | C19orf21 |
| 0.060302828 | 0.384602875 | 0.57 | 1 | 8839 | WISP2 |
| 0.060297642 | 0.384643823 | 0.583 | 1 | 404550 | C16orf74 |
| 0.060248405 | 0.385032803 | 0.58 | 1 | 441308 | OR4F21 |

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| 0.038444873 | 9.77645E-31 | 364 | AQP7 |
| 0.03844374 | 9.93295E-31 | 7345 | UCHL1 |
| 0.038419519 | 1.0679E-30 | 90668 | LRRC16B |
| 0.038412642 | 1.09377E-30 | 730232 | EEF1A1P32 |
| 0.038370684 | 1.26566E-30 | 79178 | THTPA |
| 0.038368601 | 1.27487E-30 | 4001 | LMNB1 |
| 0.038343452 | 1.39132E-30 | 390598 | SKOR1 |
| 0.038327686 | 1.46964E-30 | 79144 | PPDPF |
| 0.038320877 | 1.5048E-30 | 284252 | KCTD1 |
| 0.03831942 | 1.51246E-30 | 91351 | DDX60L |
| 0.038305666 | 1.58642E-30 | 161247 | FITM1 |
| 0.038305596 | 1.5868E-30 | 643446 | RNPS1P1 |
| 0.038272668 | 1.77886E-30 | 56267 | CCBL2 |
| 0.038231336 | 2.05289E-30 | 631 | BFSP1 |
| 0.038220432 | 2.1319E-30 | 81442 | OR6N2 |
| 0.03821015 | 2.20919E-30 | 2864 | FFAR1 |
| 0.038208831 | 2.21928E-30 | 2768 | GNA12 |
| 0.038163677 | 2.59467E-30 | 9048 | ARTN |
| 0.038124986 | 2.96592E-30 | 9794 | MAML1 |
| 0.038120888 | 3.0082E-30 | 51380 | CSAD |
| 0.038112134 | 3.10058E-30 | 22881 | ANKRD6 |
| 0.038101785 | 3.21344E-30 | 441308 | OR4F21 |
| 0.038063161 | 3.6716E-30 | 84684 | INSM2 |
| 0.038040377 | 3.97174E-30 | 65997 | RASL11B |
| 0.038039684 | 3.98122E-30 | 81847 | RNF146 |
| 0.038017873 | 4.29201E-30 | 9563 | H6PD |
| 0.038017873 | 4.29201E-30 | 387680 | FAM21A |
| 0.037982929 | 4.84091E-30 | 83955 | NACAP1 |
| 0.037978277 | 4.91906E-30 | 9874 | TLK1 |
| 0.037974942 | 4.97583E-30 | 4248 | MGAT3 |
| 0.037951533 | 5.3932E-30 | 387914 | TMEM46 |
| 0.03791409 | 6.13403E-30 | 27341 | RRP7A |
| 0.037901379 | 6.4078E-30 | 5793 | PTPRG |
| 0.037897699 | 6.48931E-30 | 6588 | SLN |
| 0.03789353 | 6.58295E-30 | 57061 | HYMAI |
| 0.037889987 | 6.66349E-30 | 79544 | OR4K1 |
| 0.037865117 | 7.25739E-30 | 2117 | ETV3 |
| 0.037842888 | 7.83246E-30 | 10179 | AP002373.1 |
| 0.037759185 | 1.04338E-29 | 23440 | OTP |
| 0.037752029 | 1.06925E-29 | 125962 | OR7G1 |
| 0.037747651 | 1.08537E-29 | 55794 | DDX28 |
| 0.037687842 | 1.33162E-29 | 133482 | SLCO6A1 |
| 0.037667837 | 1.42577E-29 | 79057 | PRRG3 |
| 0.037666865 | 1.43052E-29 | 9063 | PIAS2 |
| 0.037653737 | 1.49607E-29 | 401720 | FIGNL2 |
| 0.037648179 | 1.52472E-29 | 2812 | GP1BB |
| 0.037630256 | 1.62085E-29 | 57180 | ACTR3B |
| 0.037599135 | 1.80229E-29 | 26262 | TSPAN17 |
| 0.037571628 | 1.97933E-29 | 116984 | ARAP2 |
| 0.037565514 | 2.02098E-29 | 521 | ATP5I |
| 0.037508484 | 2.45376E-29 | 10272 | FSTL3 |
| 0.037501607 | 2.51181E-29 | 113 | ADCY7 |
| 0.03748709 | 2.63881E-29 | 54872 | PIGG |
| 0.037470281 | 2.79388E-29 | 2996 | GYPE |
| 0.037443951 | 3.05516E-29 | 10146 | G3BP1 |
| 0.037426308 | 3.24369E-29 | 55338 | FLJ11292 |
| 0.037416168 | 3.35714E-29 | 55212 | BBS7 |
| 0.037382267 | 3.76603E-29 | 23062 | GGA2 |
| 0.037363511 | 4.01312E-29 | 340371 | NRBP2 |
| 0.03732343 | 4.59627E-29 | 59067 | IL21 |
| 0.037312385 | 4.77124E-29 | 100288797 | RP5-860F19.1 |
| 0.037312109 | 4.77567E-29 | 1444 | CSHL1 |
| 0.03730537 | 4.88578E-29 | 23179 | RGL1 |
| 0.037298214 | 5.00547E-29 | 256643 | CXorf23 |
| 0.037293214 | 5.09076E-29 | 7533 | YWHAH |
| 0.037268482 | 5.53455E-29 | 7027 | TFDP1 |
| 0.037198253 | 7.01494E-29 | 341359 | SYT10 |
| 0.037193391 | 7.13086E-29 | 6678 | SPARC |
| 0.037188113 | 7.25891E-29 | 23313 | C22orf9 |
| 0.03718714 | 7.2827E-29 | 65217 | PCDH15 |
| 0.037130874 | 8.80262E-29 | 4014 | LOR |
| 0.037124276 | 9.00021E-29 | 8431 | NR0B2 |
| 0.037111353 | 9.40023E-29 | 127579 | DCST2 |
| 0.0370951 | 9.92842E-29 | 51339 | DACT1 |
| 0.037090585 | 1.00802E-28 | 283303 | C11ORF36 |
| 0.037080999 | 1.04104E-28 | 152138 | PYDC2 |
| 0.037071481 | 1.0749E-28 | 283578 | TMED8 |
| 0.037069675 | 1.08144E-28 | 93655 | ST7-OT3 |
| 0.037056547 | 1.1302E-28 | 65123 | INTS3 |
| 0.036968466 | 1.51885E-28 | 7852 | CXCR4 |
| 0.036949571 | 1.61811E-28 | 10256 | CNKSR1 |

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|---|---|---|---|---|---|
| 0.06024063 | 0.385094255 | 0.572 | 1 | 5638 | PRRG1 |
| 0.060226373 | 0.385206938 | 0.59 | 1 | 92304 | SCGB3A1 |
| 0.060218599 | 0.38526842 | 0.577 | 1 | 5591 | PRKDC |
| 0.060205642 | 0.385370851 | 0.579 | 1 | 84290 | CAPNS2 |
| 0.060185555 | 0.385529727 | 0.597 | 1 | 7327 | UBE2G2 |
| 0.060149923 | 0.385811597 | 0.558 | 1 | 84466 | MEGF10 |
| 0.060143445 | 0.385862857 | 0.563 | 1 | 4856 | NOV |
| 0.060068935 | 0.386452705 | 0.567 | 1 | 50624 | CUZD1 |
| 0.060046259 | 0.386632353 | 0.547 | 1 | 8578 | SCARF1 |
| 0.060045611 | 0.386637449 | 0.565 | 1 | 3796 | KIF2A |
| 0.060045611 | 0.386637449 | 0.594 | 1 | 9859 | CEP170 |
| 0.060025528 | 0.386796653 | 0.575 | 1 | 9421 | HAND1 |
| 0.059975639 | 0.3871921 | 0.578 | 1 | 9779 | TBC1D5 |
| 0.059962034 | 0.387299985 | 0.595 | 1 | 7143 | TNR |
| 0.059919272 | 0.387639254 | 0.587 | 1 | 10559 | SLC35A1 |
| 0.05991409 | 0.387680352 | 0.538 | 1 | 6888 | TALDO1 |
| 0.05990437 | 0.38775748 | 0.596 | 1 | 93659 | CGB5 |
| 0.05988558 | 0.387906641 | 0.575 | 1 | 54149 | C21orf91 |
| 0.059864201 | 0.388076395 | 0.593 | 1 | 8111 | GPR68 |
| 0.059834398 | 0.388313085 | 0.573 | 1 | 10161 | LPAR6 |
| 0.059800707 | 0.388580769 | 0.584 | 1 | 284433 | OR10H5 |
| 0.059789695 | 0.388668299 | 0.557 | 1 | 100505929 | C21orf37 |
| 0.059739806 | 0.389064938 | 0.519 | 1 | 79905 | TMC7 |
| 0.05972879 | 0.389152557 | 0.576 | 1 | 4772 | NFATC1 |
| 0.059709355 | 0.389307141 | 0.593 | 1 | 9334 | B4GALT5 |
| 0.059686679 | 0.389487535 | 0.62 | 1 | 386674 | KRTAP10-6 |
| 0.059664648 | 0.389662921 | 0.563 | 1 | 26002 | MOXD1 |
| 0.059664648 | 0.389662921 | 0.549 | 1 | 55322 | C5orf22 |
| 0.059650395 | 0.389776349 | 0.552 | 1 | 8001 | GLRA3 |
| 0.059583016 | 0.390313059 | 0.585 | 1 | 5639 | PRRG2 |
| 0.059572 | 0.390400827 | 0.556 | 1 | 9570 | GOSR2 |
| 0.059451491 | 0.391361892 | 0.578 | 1 | 7755 | ZNF205 |
| 0.059415858 | 0.391646326 | 0.572 | 1 | 91748 | C14orf43 |
| 0.059373096 | 0.39198789 | 0.575 | 1 | 91661 | ZNF765 |
| 0.059370507 | 0.392008573 | 0.551 | 1 | 435 | ASL |
| 0.059355605 | 0.392127633 | 0.572 | 1 | 253430 | IPMK |
| 0.059270728 | 0.392806202 | 0.582 | 1 | 55466 | DNAJA4 |
| 0.059257772 | 0.392909825 | 0.547 | 1 | 55602 | CDKN2AIP |
| 0.059242222 | 0.39303425 | 0.581 | 1 | 55701 | AL161668.2 |
| 0.059140503 | 0.393848658 | 0.565 | 1 | 10089 | KCNK7 |
| 0.059087373 | 0.394274503 | 0.576 | 1 | 11226 | GALNT6 |
| 0.059085432 | 0.39429003 | 0.561 | 1 | 5316 | PKNOX1 |
| 0.059083488 | 0.394305617 | 0.563 | 1 | 9495 | AKAP5 |
| 0.059062757 | 0.394471824 | 0.547 | 1 | 94120 | SYTL3 |
| 0.059043318 | 0.39462778 | 0.571 | 1 | 80169 | CTC1 |
| 0.05901546 | 0.394851267 | 0.586 | 1 | 127703 | C1orf216 |
| 0.058927994 | 0.39555347 | 0.554 | 1 | 118426 | LOH12CR1 |
| 0.058882639 | 0.395917833 | 0.56 | 1 | 29789 | OLA1 |
| 0.058880698 | 0.395933449 | 0.557 | 1 | 57822 | GRHL3 |
| 0.058835991 | 0.396292865 | 0.605 | 1 | 80774 | LIMD2 |
| 0.058823034 | 0.396397054 | 0.567 | 1 | 51759 | C9orf78 |
| 0.058810726 | 0.396496058 | 0.556 | 1 | 80833 | APOL3 |
| 0.05879388 | 0.396631569 | 0.565 | 1 | 6580 | SLC22A1 |
| 0.058791287 | 0.39665246 | 0.552 | 1 | 3049 | HBQ1 |
| 0.058764074 | 0.396871418 | 0.603 | 1 | 59352 | LGR6 |
| 0.058703821 | 0.39735651 | 0.588 | 1 | 84648 | LCE3D |
| 0.05868892 | 0.397476554 | 0.576 | 1 | 440603 | BCL2L15 |
| 0.058669481 | 0.397633165 | 0.569 | 1 | 58526 | MID1IP1 |
| 0.058631904 | 0.397936076 | 0.522 | 1 | 146325 | C16orf11 |
| 0.058622833 | 0.398009181 | 0.588 | 1 | 26716 | OR2H1 |
| 0.058604047 | 0.398160666 | 0.573 | 1 | 51668 | HSPB11 |
| 0.058597565 | 0.39821291 | 0.551 | 1 | 23385 | NCSTN |
| 0.05853796 | 0.39869383 | 0.579 | 1 | 26952 | SMR3A |
| 0.058535367 | 0.398714721 | 0.591 | 1 | 84935 | C13orf33 |
| 0.058525652 | 0.398793101 | 0.574 | 1 | 284058 | KIAA1267 |
| 0.058499735 | 0.399002343 | 0.559 | 1 | 117584 | RFFL |
| 0.058458917 | 0.399332047 | 0.574 | 1 | 1050 | CEBPA |
| 0.058452439 | 0.39938432 | 0.544 | 1 | 57587 | KIAA1430 |
| 0.058432352 | 0.399546653 | 0.565 | 1 | 128 | ADH5 |
| 0.05840838 | 0.399740398 | 0.604 | 1 | 9381 | OTOF |
| 0.058401901 | 0.39979279 | 0.563 | 1 | 100144596 | LINC00029 |
| 0.05839283 | 0.399866104 | 0.543 | 1 | 79734 | KCTD17 |
| 0.058384407 | 0.399934173 | 0.584 | 1 | 10493 | VAT1 |
| 0.058372747 | 0.400028497 | 0.596 | 1 | 20 | ABCA2 |
| 0.058366917 | 0.400075614 | 0.598 | 1 | 343450 | KCNT2 |
| 0.058363676 | 0.400101811 | 0.592 | 1 | 345757 | FAM174A |
| 0.05835655 | 0.400159448 | 0.579 | 1 | 375607 | C7orf52 |
| 0.058355901 | 0.400164723 | 0.594 | 1 | 63897 | HEATR6 |
| 0.058351368 | 0.40020138 | 0.561 | 1 | 2880 | GPX5 |
| 0.05830472 | 0.400578797 | 0.565 | 1 | 51704 | GPRC5B |
| 0.058201704 | 0.401413083 | 0.585 | 1 | 8284 | KDM5D |

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| 0.036901779 | 1.89888E-28 | 5515 | PPP2CA |
| 0.036888789 | 1.98317E-28 | 57732 | ZFYVE28 |
| 0.036887191 | 1.99381E-28 | 57549 | IGSF9 |
| 0.036853917 | 2.2284E-28 | 23630 | KCNE1L |
| 0.036838911 | 2.34291E-28 | 5976 | UPF1 |
| 0.036833342 | 2.42145E-28 | 871 | SERPINH1 |
| 0.036832523 | 2.39344E-28 | 10083 | USH1C |
| 0.036815226 | 2.53574E-28 | 23406 | COTL1 |
| 0.03679911 | 2.67585E-28 | 50944 | SHANK1 |
| 0.036784731 | 2.80732E-28 | 57491 | AHRR |
| 0.036771949 | 2.92956E-28 | 286514 | MAGEB18 |
| 0.0367641 | 3.00724E-28 | 90271 | LINC00263 |
| 0.036746453 | 3.18935E-28 | 136541 | PRSS58 |
| 0.036680326 | 3.97465E-28 | 28970 | C11orf54 |
| 0.036677755 | 4.00873E-28 | 123591 | C15orf27 |
| 0.036656566 | 4.30136E-28 | 8292 | COLQ |
| 0.036651496 | 4.37443E-28 | 145814 | AC069029.1 |
| 0.036601342 | 5.16724E-28 | 23369 | PUM2 |
| 0.036575086 | 5.63748E-28 | 83901 | KRTAP9-8 |
| 0.036561333 | 5.90056E-28 | 55283 | MCOLN3 |
| 0.036551293 | 8.07413E-28 | 5328 | PLAU |
| 0.036539659 | 6.33989E-28 | 51005 | AMDHD2 |
| 0.036516525 | 6.84474E-28 | 343 | AQP8 |
| 0.036512915 | 6.92713E-28 | 1381 | CRABP1 |
| 0.036486588 | 7.5577E-28 | 27434 | POLM |
| 0.036479294 | 7.74229E-28 | 85291 | KRTAP4-2 |
| 0.036476307 | 7.81917E-28 | 79854 | LINC00115 |
| 0.036474917 | 7.85524E-28 | 387882 | C12ORF75 |
| 0.036431152 | 9.07796E-28 | 440193 | CCDC88C |
| 0.036428723 | 9.15099E-28 | 5318 | PKP2 |
| 0.036407951 | 9.80077E-28 | 33 | ACADL |
| 0.036353216 | 1.17402E-27 | 199221 | DZIP1L |
| 0.036322787 | 1.29784E-27 | 100288165 | HMGN2P15 |
| 0.036320079 | 1.30947E-27 | 25800 | SLC39A6 |
| 0.036287293 | 1.45872E-27 | 3655 | ITGA6 |
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| 0.036228247 | 1.77128E-27 | 54581 | SCAND2 |
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| 0.036204003 | 1.91808E-27 | 55568 | GALNT10 |
| 0.036183164 | 2.05385E-27 | 4005 | LMO2 |
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| 0.036132038 | 2.42871E-27 | 56829 | ZC3HAV1 |
| 0.036113489 | 2.58084E-27 | 9084 | VCY1B |
| 0.036104113 | 2.6613E-27 | 64222 | TOR3A |
| 0.036087234 | 2.8125E-27 | 10204 | NUTF2 |
| 0.036081605 | 2.86476E-27 | 387990 | TOMM20L |
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| 0.03600068 | 3.73221E-27 | 51163 | DBR1 |
| 0.035992622 | 3.83169E-27 | 5395 | PMS2 |
| 0.035990607 | 3.85697E-27 | 7696 | ZNF137P |
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| 0.058155701 | 0.40178597 | 0.584 | 1 | 259282 | BOD1L |
| 0.058129787 | 0.401996076 | 0.581 | 1 | 6868 | ADAM17 |
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| 0.0580948 | 0.402279884 | 0.582 | 1 | 345456 | PFN3 |
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| 0.057971053 | 0.403284729 | 0.631 | 1 | 8396 | PIP5K2B |
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| 0.057862207 | 0.404169738 | 0.603 | 1 | 140700 | SAMD10 |
| 0.057859614 | 0.404190838 | 0.56 | 1 | 7329 | UBE2I |
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| 0.057662655 | 0.405795306 | 0.586 | 1 | 259307 | IL4I1 |
| 0.057610173 | 0.406223506 | 0.576 | 1 | 1394 | CRHR1 |
| 0.057542145 | 0.406778902 | 0.566 | 1 | 29797 | POM121L8P |
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| 0.05751558 | 0.406995863 | 0.586 | 1 | 1762 | DMWD |
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| 0.057374988 | 0.408145517 | 0.57 | 1 | 266727 | MDGA1 |
| 0.057360735 | 0.408262134 | 0.587 | 1 | 55568 | GALNT10 |
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| 0.057345834 | 0.408384144 | 0.58 | 1 | 125972 | CALR3 |
| 0.057332877 | 0.408490181 | 0.579 | 1 | 1810 | DR1 |
| 0.057305664 | 0.408713073 | 0.597 | 1 | 5629 | PROX1 |
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| 0.05692859 | 0.411808342 | 0.585 | 1 | 400668 | PRSSL1 |
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| 0.056775685 | 0.41306746 | 0.581 | 1 | 23646 | PLD3 |
| 0.056747179 | 0.413302422 | 0.585 | 1 | 4992 | OR1F1 |
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| 0.056629263 | 0.414275289 | 0.577 | 1 | 54466 | SPIN2A |
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| 0.056293651 | 0.417051494 | 0.593 | 1 | 7727 | ZNF174 |
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| 0.035371326 | 2.86191E-26 | 7739 | ZNF185 |
| 0.035344027 | 3.12377E-26 | 728643 | RP11-314P12.3 |
| 0.035305962 | 3.52905E-26 | 5192 | PEX10 |
| 0.035295263 | 3.65204E-26 | 51477 | ISYNA1 |
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| 0.035217602 | 4.68178E-26 | 92170 | MTG1 |
| 0.035209198 | 4.8092E-26 | 10912 | GADD45G |
| 0.035145566 | 5.89201E-26 | 55094 | GPATCH1 |
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| 0.035007678 | 9.13766E-26 | 390010 | NKX1-2 |
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| 0.034894798 | 1.30704E-25 | 57538 | ALPK3 |
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| 0.056252185 | 0.417395294 | 0.57 | 1 | 663 | BNIP2 |
| 0.056247003 | 0.417438239 | 0.602 | 1 | 11015 | KDELR3 |
| 0.056233399 | 0.41755113 | 0.594 | 1 | 1397 | CRIP2 |
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| 0.056205537 | 0.417782247 | 0.601 | 1 | 647219 | ASCL5 |
| 0.056174438 | 0.418040276 | 0.585 | 1 | 6793 | STK10 |
| 0.056171201 | 0.418067127 | 0.552 | 1 | 57648 | KIAA1522 |
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| 0.055721562 | 0.421808988 | 0.598 | 1 | 11178 | LZTS1 |
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| 0.055614009 | 0.422706902 | 0.6 | 1 | 4916 | NTRK3 |
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| 0.034112416 | 1.51422E-24 | 11252 | PACSIN2 |
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| 0.033991337 | 2.20146E-24 | 2634 | GBP2 |
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| 0.033298772 | 1.82562E-23 | 729171 | ANKRD20A8P |
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| 0.033015426 | 4.28463E-23 | 57567 | ZNF319 |
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| 0.054171149 | 0.434859782 | 0.588 | 1 | 5336 | PLCG2 |
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| 0.054078501 | 0.435646951 | 0.623 | 1 | 1968 | EIF2S3 |
| 0.054062303 | 0.435784638 | 0.592 | 1 | 6992 | PPP1R11 |
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| 0.053935315 | 0.436865032 | 0.607 | 1 | 2125 | EVPL |
| 0.05393013 | 0.436909199 | 0.617 | 1 | 9700 | ESPL1 |
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| 0.053851087 | 0.437582493 | 0.646 | 1 | 353355 | ZNF233 |
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| 0.053707257 | 0.438809186 | 0.589 | 1 | 23586 | DDX58 |
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| 0.053318519 | 0.44213447 | 0.633 | 1 | 6473 | SHOX |
| 0.053273812 | 0.442517817 | 0.655 | 1 | 121364 | OR10A7 |
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| 0.053227812 | 0.44291243 | 0.602 | 1 | 51090 | PLLP |
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| 0.032615863 | 1.4096E-22 | 220070 | SHANK2-AS3 |
| 0.032615792 | 1.40989E-22 | 150353 | DNAJB7 |
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| 0.032519445 | 1.87486E-22 | 56136 | PCDHA13 |
| 0.032505691 | 1.95257E-22 | 5279 | PIGC |
| 0.032487005 | 2.06332E-22 | 27290 | SPINK4 |
| 0.032475267 | 2.13603E-22 | 4804 | NGFR |
| 0.032471169 | 2.16199E-22 | 29761 | USP25 |
| 0.032467764 | 2.18383E-22 | 2635 | GBP3 |
| 0.032466654 | 2.19101E-22 | 103910 | MYL12B |
| 0.032464221 | 2.20678E-22 | 9421 | HAND1 |
| 0.03244463 | 2.33798E-22 | 390424 | ATP5G1P5 |
| 0.032388922 | 2.75479E-22 | 23527 | ACAP2 |
| 0.032384824 | 2.78819E-22 | 146845 | WDR16 |
| 0.032359261 | 3.00588E-22 | 10733 | PLK4 |
| 0.032354604 | 3.04732E-22 | 9101 | USP8 |
| 0.032343909 | 3.1446E-22 | 4285 | MIPEP |
| 0.032315634 | 3.41688E-22 | 3009 | HIST1H1B |
| 0.032307092 | 3.50367E-22 | 386681 | KRTAP10-8 |
| 0.032283474 | 3.75504E-22 | 729305 | RP11-469N6.1 |
| 0.032260828 | 4.01287E-22 | 3263 | HPX |
| 0.03226034 | 4.01859E-22 | 8227 | SFRS17A |
| 0.032254923 | 4.08285E-22 | 54956 | PARP16 |
| 0.032228805 | 4.40751E-22 | 25999 | CLIP3 |
| 0.032208174 | 4.68184E-22 | 81557 | MAGED4B |
| 0.032206226 | 4.70866E-22 | 2199 | FBLN2 |
| 0.032189209 | 4.94893E-22 | 100288713 | PMS2P10 |
| 0.032126065 | 5.9516E-22 | 57687 | VAT1L |
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| 0.032105297 | 6.32346E-22 | 387849 | REP15 |
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| 0.031995192 | 8.71373E-22 | 10564 | ARFGEF2 |
| 0.031982344 | 9.04531E-22 | 51720 | UIMC1 |
| 0.031966086 | 9.48283E-22 | 92999 | ZBTB47 |
| 0.031958517 | 9.69358E-22 | 9162 | DGKI |
| 0.031956084 | 9.76232E-22 | 55501 | CHST12 |
| 0.031950459 | 9.92302E-22 | 4242 | MFNG |
| 0.031935733 | 1.03564E-21 | 4774 | NFIA |
| 0.031934828 | 1.03836E-21 | 23522 | MYST4 |
| 0.031928021 | 1.05907E-21 | 7571 | ZNF23 |
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| 0.031880021 | 1.21721E-21 | 8343 | HIST1H2BF |
| 0.031855501 | 1.30676E-21 | 27022 | FOXD3 |
| 0.031837229 | 1.37773E-21 | 148170 | CDC42EP5 |
| 0.031831603 | 1.40032E-21 | 9775 | EIF4A3 |
| 0.03183056 | 1.40456E-21 | 85301 | COL27A1 |
| 0.031828616 | 1.41248E-21 | 57683 | ZDBF2 |
| 0.031809513 | 1.49271E-21 | 389762 | FAM75D3 |
| 0.031805623 | 1.50957E-21 | 5076 | PAX2 |
| 0.031723376 | 1.9141E-21 | 90527 | DUOXA1 |
| 0.031698368 | 2.05713E-21 | 83899 | KRTAP9-2 |
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| 0.0316801 | 2.16827E-21 | 55907 | CMAS |
| 0.031645715 | 2.39377E-21 | 6625 | SNRNP70 |
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| 0.031592228 | 2.79149E-21 | 10225 | CD96 |
| 0.031585839 | 2.84315E-21 | 9319 | TRIP13 |
| 0.03157625 | 2.92249E-21 | 100133234 | SBF1P1 |
| 0.031569652 | 2.97834E-21 | 23174 | ZCCHC14 |
| 0.031563677 | 3.02986E-21 | 643253 | CCT6P1 |
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| 0.052881189 | 0.445892394 | 0.623 | 1 | 4099 | MAG |
| 0.052872766 | 0.445964962 | 0.595 | 1 | 3851 | KRT4 |
| 0.052869529 | 0.445992857 | 0.6 | 1 | 10716 | TBR1 |
| 0.052846849 | 0.446188271 | 0.6 | 1 | 23231 | AC092436.3 |
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| 0.052806035 | 0.446540028 | 0.611 | 1 | 2124 | EVI2B |
| 0.052764568 | 0.446897566 | 0.598 | 1 | 80020 | FOXRED2 |
| 0.052750316 | 0.447020501 | 0.642 | 1 | 56924 | PAK6 |
| 0.052710146 | 0.447367102 | 0.607 | 1 | 131118 | DNAJC19 |
| 0.052684877 | 0.447585195 | 0.634 | 1 | 11026 | LILRA3 |
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| 0.052647948 | 0.447903991 | 0.613 | 1 | 3094 | HINT1 |
| 0.052641466 | 0.447959989 | 0.654 | 1 | 65989 | DLK2 |
| 0.052635636 | 0.448010355 | 0.612 | 1 | 23318 | ZCCHC11 |
| 0.052631103 | 0.448049515 | 0.622 | 1 | 84992 | PIGY |
| 0.052606482 | 0.448262185 | 0.644 | 1 | 125875 | CLDND2 |
| 0.052605186 | 0.448273391 | 0.627 | 1 | 56171 | DNAH7 |
| 0.052568905 | 0.448586911 | 0.628 | 1 | 6929 | TCF3 |
| 0.052554648 | 0.448710144 | 0.607 | 1 | 11320 | MGAT4A |
| 0.05249051 | 0.449264735 | 0.605 | 1 | 10841 | FTCD |
| 0.052450988 | 0.449606687 | 0.613 | 1 | 5021 | OXTR |
| 0.052422479 | 0.44985342 | 0.599 | 1 | 10162 | U47924.1 |
| 0.052381013 | 0.450212479 | 0.629 | 1 | 114899 | C1QTNF3 |
| 0.052375183 | 0.450262964 | 0.616 | 1 | 4487 | MSX1 |
| 0.052371945 | 0.450291008 | 0.625 | 1 | 283 | ANG |
| 0.052343436 | 0.45053798 | 0.609 | 1 | 1800 | DPEP1 |
| 0.052342139 | 0.450549215 | 0.624 | 1 | 65243 | ZNF643 |
| 0.052329183 | 0.45066151 | 0.63 | 1 | 126370 | OR1I1 |
| 0.052316874 | 0.450768173 | 0.642 | 1 | 26532 | OR10H3 |
| 0.052313633 | 0.450796247 | 0.634 | 1 | 7450 | VWF |
| 0.052298084 | 0.450931042 | 0.609 | 1 | 442194 | OR10C1 |
| 0.052272167 | 0.451155722 | 0.619 | 1 | 55184 | C20orf12 |
| 0.052248843 | 0.451357931 | 0.597 | 1 | 5074 | PAWR |
| 0.052227464 | 0.451543421 | 0.616 | 1 | 387712 | C10orf134 |
| 0.052226167 | 0.451554686 | 0.601 | 1 | 140258 | KRTAP13-1 |
| 0.052197661 | 0.451802015 | 0.616 | 1 | 6536 | SLC6A9 |
| 0.052157491 | 0.452150643 | 0.604 | 1 | 114781 | BTBD9 |
| 0.052145828 | 0.452251941 | 0.614 | 1 | 195827 | AAED1 |
| 0.052119266 | 0.452482581 | 0.646 | 1 | 2172 | FABP6 |
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| 0.051676106 | 0.456340611 | 0.616 | 1 | 23533 | PIK3R5 |
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| 0.051562075 | 0.457336307 | 0.612 | 1 | 590 | BCHE |
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| 0.051543932 | 0.457494825 | 0.637 | 1 | 6445 | SGCG |
| 0.051539399 | 0.457534432 | 0.625 | 1 | 182 | JAG1 |
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| 0.051475257 | 0.458095163 | 0.607 | 1 | 9863 | MAGI2 |
| 0.051472664 | 0.458117843 | 0.654 | 1 | 100128588 | LOC100128588 |
| 0.051453229 | 0.458287805 | 0.617 | 1 | 5920 | RARRES3 |
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| 0.031490602 | 3.73563E-21 | 9860 | LRIG2 |
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| 0.031423636 | 4.52393E-21 | 8727 | CTNNAL1 |
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| 0.0313996 | 4.8453E-21 | 78990 | OTUB2 |
| 0.031362299 | 5.38924E-21 | 3551 | IKBKB |
| 0.031355213 | 5.49924E-21 | 347240 | KIF24 |
| 0.031354103 | 5.51667E-21 | 4924 | NUCB1 |
| 0.031346668 | 5.63476E-21 | 10735 | STAG2 |
| 0.03132958 | 5.91583E-21 | 23271 | CAMSAP1L1 |
| 0.031314019 | 6.18381E-21 | 8034 | SLC25A16 |
| 0.031311449 | 6.22922E-21 | 83606 | C22orf13 |
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| 0.03127642 | 7.50074E-21 | 51155 | HN1 |
| 0.031263866 | 7.13199E-21 | 5446 | PON3 |
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| 0.031168144 | 9.35792E-21 | 401131 | LOC401131 |
| 0.031160573 | 9.56083E-21 | 26025 | PCDHGA12 |
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| 0.030983368 | 1.57724E-20 | 2765 | GML |
| 0.030950649 | 1.72942E-20 | 85019 | C18orf45 |
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| 0.030856663 | 2.25215E-20 | 137075 | CLDN23 |
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| 0.030795993 | 3.28306E-20 | 112597 | LINC00152 |
| 0.03076108 | 2.94369E-20 | 119392 | C10orf78 |
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| 0.03069349 | 3.55558E-20 | 11171 | STRAP |
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| 0.030673554 | 3.75895E-20 | 266727 | MDGA1 |
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| 0.030647088 | 4.04689E-20 | 5681 | PSKH1 |
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| 0.03061166 | 4.46656E-20 | 665 | BNIP3L |
| 0.030597698 | 4.64357E-20 | 4803 | NGF |
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| 0.030501837 | 6.06066E-20 | 5142 | PDE4B |
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| 0.030481553 | 6.41138E-20 | 2668 | GDNF |
| 0.030432789 | 7.33866E-20 | 140460 | ASB7 |
| 0.030428413 | 7.4281E-20 | 23266 | LPHN2 |
| 0.03041313 | 7.74891E-20 | 442590 | SPDYE5 |
| 0.030392637 | 8.20072E-20 | 64598 | MOSPD3 |
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| 0.051352806 | 0.459166735 | 0.609 | 1 | 50511 | SYCP3 |
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| 0.051345676 | 0.459229171 | 0.617 | 1 | 6782 | HSPA13 |
| 0.051336609 | 0.459308565 | 0.648 | 1 | 9767 | PHF16 |
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| 0.051289961 | 0.459717214 | 0.636 | 1 | 66005 | CHID1 |
| 0.051282182 | 0.459785342 | 0.627 | 1 | 440101 | RP11-834C11.3 |
| 0.051259506 | 0.459984124 | 0.609 | 1 | 144811 | C13orf31 |
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| 0.051195364 | 0.460546553 | 0.624 | 1 | 825 | CAPN3 |
| 0.051167507 | 0.460790843 | 0.634 | 1 | 414 | ARSD |
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| 0.051098183 | 0.461399317 | 0.64 | 1 | 3763 | KCNJ6 |
| 0.05107097 | 0.461638302 | 0.635 | 1 | 3439 | IFNA1 |
| 0.051067084 | 0.461672455 | 0.634 | 1 | 91523 | FAM113B |
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| 0.050888911 | 0.463238806 | 0.653 | 1 | 196051 | PPAPDC1A |
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| 0.050788488 | 0.464122921 | 0.659 | 1 | 3891 | KRT85 |
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| 0.05067122 | 0.465156555 | 0.633 | 1 | 150135 | LINC00479 |
| 0.050656967 | 0.465282261 | 0.624 | 1 | 57097 | PARP11 |
| 0.050636232 | 0.465465188 | 0.646 | 1 | 374654 | KIF7 |
| 0.05063105 | 0.465510905 | 0.622 | 1 | 80144 | FRAS1 |
| 0.050622627 | 0.465585232 | 0.619 | 1 | 3149 | HMGB3 |
| 0.050605781 | 0.465733886 | 0.638 | 1 | 26261 | FBXO24 |
| 0.050603189 | 0.465756804 | 0.63 | 1 | 10270 | AKAP8 |
| 0.050596062 | 0.465819687 | 0.64 | 1 | 25789 | TMEM59L |
| 0.050585698 | 0.46591115 | 0.632 | 1 | 7979 | SHFM1 |
| 0.050553951 | 0.466191441 | 0.646 | 1 | 800 | CALD1 |
| 0.05054488 | 0.466271549 | 0.635 | 1 | 114784 | CSMD2 |
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| 0.050489809 | 0.466758013 | 0.612 | 1 | 92482 | BBIP1 |
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| 0.050477497 | 0.466866821 | 0.581 | 1 | 55210 | ATAD3A |
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| 0.050445102 | 0.467153162 | 0.649 | 1 | 25854 | FAM149A |
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| 0.050431497 | 0.467273444 | 0.613 | 1 | 3431 | SP110 |
| 0.050406877 | 0.46749115 | 0.598 | 1 | 2299 | FOXI1 |
| 0.050397806 | 0.467571408 | 0.642 | 1 | 346288 | SEPTIN14 |
| 0.050367355 | 0.467840761 | 0.648 | 1 | 54957 | TXNL4B |
| 0.050366707 | 0.467846513 | 0.64 | 1 | 54899 | PXK |
| 0.050359581 | 0.467909575 | 0.637 | 1 | 5801 | PTPRR |
| 0.050358284 | 0.467921048 | 0.651 | 1 | 376940 | ZC3H6 |
| 0.050330427 | 0.468167543 | 0.606 | 1 | 23109 | DDN |
| 0.050327186 | 0.468196243 | 0.635 | 1 | 387882 | C12ORF75 |
| 0.050321355 | 0.468247831 | 0.647 | 1 | 8906 | AP1G2 |
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| 0.050202791 | 0.469298005 | 0.634 | 1 | 57642 | COL20A1 |
| 0.05019113 | 0.46940136 | 0.629 | 1 | 114796 | AC093734.11 |
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| 0.029746961 | 4.79697E-19 | 163131 | ZNF780B |
| 0.029738417 | 4.90916E-19 | 79567 | FAM65A |
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| 0.029724803 | 5.09337E-19 | 7380 | UPK3A |
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| 0.029688472 | 5.61902E-19 | 55761 | TTC17 |
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| 0.029114483 | 2.61081E-18 | 222865 | TMEM130 |
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| 0.029086072 | 2.81492E-18 | 284802 | FRG1B |
| 0.029078154 | 2.87455E-18 | 58486 | ZBED5 |
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| 0.029022373 | 3.33151E-18 | 8924 | HERC2 |
| 0.028985994 | 4.40608E-18 | 2823 | GPM6A |
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| 0.028879507 | 5.82523E-18 | 56624 | ASAH2 |
| 0.028876914 | 4.8884E-18 | 84548 | TMEM185A |
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| 0.050109494 | 0.470125288 | 0.641 | 1 | 4118 | MAL |
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| 0.050057016 | 0.470590979 | 0.613 | 1 | 91133 | L3MBTL4 |
| 0.050049886 | 0.470654249 | 0.613 | 1 | 197259 | MLKL |
| 0.050016198 | 0.470953315 | 0.661 | 1 | 2356 | FPGS |
| 0.04999676 | 0.47112599 | 0.628 | 1 | 2863 | GPR39 |
| 0.04999676 | 0.47112599 | 0.638 | 1 | 84253 | GARNL3 |
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| 0.046101615 | 0.506407678 | 0.673 | 1 | 51176 | LEF1 |
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| 0.046058208 | 0.50680846 | 0.659 | 1 | 2395 | FXN |
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| 0.04598305 | 0.507502854 | 0.639 | 1 | 391475 | DYTN |
| 0.045976572 | 0.507562697 | 0.651 | 1 | 100190939 | XXyac-R12DG2.1 |
| 0.045962319 | 0.507694423 | 0.677 | 1 | 133923 | ZNF474 |
| 0.045949362 | 0.507814229 | 0.68 | 1 | 29100 | TMEM208 |
| 0.045878094 | 0.508473337 | 0.686 | 1 | 284217 | LAMA1 |
| 0.045858655 | 0.508653164 | 0.681 | 1 | 440905 | AC018865.8 |
| 0.045847639 | 0.508755088 | 0.664 | 1 | 4318 | MMP9 |
| 0.045830797 | 0.508910954 | 0.679 | 1 | 339803 | AC016747.3 |
| 0.045828853 | 0.508928955 | 0.653 | 1 | 7473 | WNT3 |
| 0.045816541 | 0.509042919 | 0.662 | 1 | 1780 | DYNC1I1 |
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| 0.045697976 | 0.510141015 | 0.672 | 1 | 1400 | CRMP1 |
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| 0.045171887 | 0.515028358 | 0.655 | 1 | 2224 | FDPS |
| 0.04517059 | 0.515040398 | 0.695 | 1 | 23048 | FNBP1 |
| 0.045156986 | 0.515167177 | 0.686 | 1 | 27292 | DIMT1 |
| 0.045147914 | 0.515251637 | 0.669 | 1 | 23524 | SRRM2 |
| 0.045146618 | 0.515263677 | 0.643 | 1 | 23076 | RRP1B |
| 0.045084421 | 0.515843272 | 0.657 | 1 | 283460 | HNF1A-AS1 |
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| 0.04505397 | 0.51612711 | 0.68 | 1 | 728586 | AC068658.1 |
| 0.045041014 | 0.516247928 | 0.66 | 1 | 445329 | SULT1A4 |
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| 0.025952302 | 7.31156E-15 | 112616 | CMTM7 |
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| 0.025592126 | 1.7069E-14 | 79012 | CAMKV |
| 0.025560867 | 1.83623E-14 | 131096 | KCNH8 |
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| 0.025451668 | 2.36833E-14 | 9913 | SUPT7L |
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| 0.02503849 | 6.14388E-14 | 5932 | RBBP8 |
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| 0.025023904 | 6.35236E-14 | 90993 | CREB3L1 |
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| 0.044843405 | 0.518092096 | 0.664 | 1 | 8326 | FZD9 |
| 0.044831742 | 0.518201053 | 0.664 | 1 | 222611 | GPR111 |
| 0.044779263 | 0.51869148 | 0.691 | 1 | 3833 | KIFC1 |
| 0.044777319 | 0.5187096 | 0.67 | 1 | 644903 | FLJ38668 |
| 0.044771489 | 0.518764079 | 0.646 | 1 | 7318 | UBA7 |
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| 0.044326384 | 0.522933304 | 0.657 | 1 | 80705 | TSGA10 |
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| 0.044163115 | 0.524466813 | 0.693 | 1 | 55851 | PSENEN |
| 0.044162467 | 0.524472892 | 0.691 | 1 | 965 | CD58 |
| 0.044154692 | 0.524546027 | 0.716 | 1 | 57048 | PLSCR3 |
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| 0.044125535 | 0.524820149 | 0.678 | 1 | 2925 | GRPR |
| 0.044082128 | 0.525228381 | 0.693 | 1 | 10610 | ST6GALNAC2 |
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| 0.018040733 | 6.40607E-08 | 84248 | FYTTD1 |
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| 0.035428841 | 0.609695256 | 0.747 | 1 | 60436 | TGIF2 |
| 0.035423659 | 0.609747589 | 0.745 | 1 | 440419 | TBC1D3P5 |
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| 0.035242897 | 0.611574292 | 0.735 | 1 | 10660 | LBX1 |
| 0.035240952 | 0.611593962 | 0.722 | 1 | 84667 | HES7 |
| 0.035217628 | 0.611829877 | 0.716 | 1 | 12 | SERPINA3 |
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| 0.035214387 | 0.6118626 | 0.742 | 1 | 256006 | ANKRD31 |
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| 0.035194952 | 0.612059236 | 0.743 | 1 | 25874 | BRP44 |
| 0.035181347 | 0.612196803 | 0.731 | 1 | 196446 | C12orf28 |
| 0.035171628 | 0.612295151 | 0.728 | 1 | 191585 | PLAC4 |
| 0.035146359 | 0.612550855 | 0.755 | 1 | 4638 | MYLK |
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| 0.03511202 | 0.61289835 | 0.751 | 1 | 5525 | PPP2R5A |
| 0.035091937 | 0.613101661 | 0.771 | 1 | 9973 | CCS |
| 0.035073794 | 0.613285363 | 0.717 | 1 | 84910 | TMEM87B |
| 0.035070557 | 0.613318145 | 0.744 | 1 | 126321 | C19orf28 |
| 0.035062134 | 0.61340344 | 0.737 | 1 | 79742 | CXorf36 |
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| 0.035038162 | 0.61364615 | 0.749 | 1 | 341880 | SLC35F4 |
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| 0.03499864 | 0.614046514 | 0.734 | 1 | 57600 | FNIP2 |
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| 0.034854807 | 0.615504324 | 0.729 | 1 | 353116 | RILPL1 |
| 0.03482889 | 0.615767181 | 0.744 | 1 | 91445 | RNF185 |
| 0.034809455 | 0.615964293 | 0.737 | 1 | 4337 | MOCS1 |
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| 0.034168687 | 0.6224792 | 0.725 | 1 | 492307 | C8orf22 |
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| 0.034091588 | 0.623265147 | 0.766 | 1 | 246176 | GAS2L2 |
| 0.034087699 | 0.623304784 | 0.722 | 1 | 157313 | CDCA2 |
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| 0.034068909 | 0.623496354 | 0.764 | 1 | 23504 | RIMBP2 |
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| 0.034024205 | 0.623952329 | 0.758 | 1 | 2949 | GSTM5 |
| 0.034015782 | 0.624038219 | 0.776 | 1 | 9340 | GLP2R |
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| 0.017576985 | 1.37869E-07 | 266697 | POM121L4P |
| 0.017573236 | 1.38715E-07 | 238 | ALK |
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| 0.017506132 | 1.54741E-07 | 25927 | CNRIP1 |
| 0.017496267 | 1.57243E-07 | 7273 | TTN |
| 0.017478831 | 1.61762E-07 | 144983 | RP11-78J21.3 |
| 0.017478762 | 1.6178E-07 | 5570 | PKIB |
| 0.017468343 | 1.6454E-07 | 493754 | LOC493754 |
| 0.017466329 | 1.65078E-07 | 3075 | CFH |
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| 0.017454449 | 1.68292E-07 | 27332 | ZNF638 |
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| 0.017449239 | 1.69718E-07 | 733 | C8G |
| 0.017433263 | 1.74171E-07 | 50840 | TAS2R14 |
| 0.017432014 | 1.74524E-07 | 3875 | KRT18P19 |
| 0.017382206 | 1.89168E-07 | 84932 | RAB2B |
| 0.017375816 | 1.91131E-07 | 9823 | ARMCX2 |
| 0.017358102 | 1.96675E-07 | 23431 | AP4E1 |
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| 0.017323926 | 2.07814E-07 | 10881 | ACTL7A |
| 0.017308088 | 2.1318E-07 | 254879 | OR2T6 |
| 0.017303156 | 2.14879E-07 | 8387 | OR1E1 |
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| 0.017285928 | 2.20914E-07 | 170679 | PSORS1C1 |
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| 0.017251473 | 2.33481E-07 | 64794 | DDX31 |
| 0.017229106 | 2.42005E-07 | 11273 | ATXN2L |
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| 0.017226465 | 2.43031E-07 | 2676 | GFRA3 |
| 0.017222645 | 2.44522E-07 | 81846 | SBF2 |
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| 0.017096011 | 2.99296E-07 | 400793 | C1orf226 |
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| 0.016804537 | 4.74075E-07 | 126231 | ZNF573 |
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| 0.033961359 | 0.624593496 | 0.736 | 1 | 284018 | C17orf58 |
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| 0.033930909 | 0.624904335 | 0.767 | 1 | 4092 | SMAD7 |
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| 0.033807162 | 0.626168013 | 0.752 | 1 | 347733 | TUBB2B |
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| 0.033711921 | 0.627141356 | 0.75 | 1 | 157922 | CAMSAP1 |
| 0.033682115 | 0.627446055 | 0.769 | 1 | 58484 | NLRC4 |
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| 0.033674341 | 0.627525568 | 0.727 | 1 | 9744 | ACAP1 |
| 0.033625104 | 0.628029168 | 0.751 | 1 | 51754 | TMEM8B |
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| 0.033584286 | 0.628446758 | 0.743 | 1 | 3381 | IBSP |
| 0.033580396 | 0.628486574 | 0.76 | 1 | 1911 | PHC1 |
| 0.03355189 | 0.628778279 | 0.711 | 1 | 440823 | MIAT |
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| 0.033534396 | 0.628957331 | 0.732 | 1 | 7200 | TRH |
| 0.033474792 | 0.629567564 | 0.724 | 1 | 2189 | FANCG |
| 0.033399634 | 0.630337358 | 0.749 | 1 | 439953 | LOC439953 |
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| 0.033237014 | 0.63200438 | 0.755 | 1 | 63946 | DMRTC2 |
| 0.033225998 | 0.632117391 | 0.742 | 1 | 706 | TSPO |
| 0.03322535 | 0.632124007 | 0.748 | 1 | 920 | CD4 |
| 0.033192955 | 0.632456303 | 0.759 | 1 | 962 | CD48 |
| 0.033178054 | 0.632609189 | 0.76 | 1 | 100131187 | RP11-544M22.1 |
| 0.033164449 | 0.632748842 | 0.766 | 1 | 115677 | NOSTRIN |
| 0.033155378 | 0.632841885 | 0.749 | 1 | 112476 | PRRT2 |
| 0.033128813 | 0.633114576 | 0.745 | 1 | 100129917 | RP11-440L14.1 |
| 0.033121686 | 0.633187711 | 0.761 | 1 | 57143 | ADCK1 |
| 0.033099659 | 0.633413851 | 0.761 | 1 | 2245 | FGD1 |
| 0.033095125 | 0.633460343 | 0.757 | 1 | 56301 | SLC7A10 |
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| 0.032952588 | 0.634924471 | 0.751 | 1 | 23151 | GRAMD4 |
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| 0.016436163 | 8.38881E-07 | 4345 | CD200 |
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| 0.016355654 | 9.48827E-07 | 114818 | KLHL29 |
| 0.016351625 | 9.54679E-07 | 163882 | C1orf71 |
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| 0.016333077 | 9.8207E-07 | 375196 | LOC375196 |
| 0.016329674 | 9.87177E-07 | 151742 | PPM1L |
| 0.016309252 | 1.01837E-06 | 146227 | AC132186.2 |
| 0.016302167 | 1.02941E-06 | 57573 | ZNF471 |
| 0.016299596 | 1.03344E-06 | 3672 | ITGA1 |
| 0.016298344 | 1.03541E-06 | 54541 | DDIT4 |
| 0.016293552 | 1.04299E-06 | 26019 | UPF2 |
| 0.016251178 | 1.11233E-06 | 51582 | AZIN1 |
| 0.016244579 | 1.12352E-06 | 55437 | STRADB |
| 0.01623402 | 1.14165E-06 | 64755 | C16orf58 |
| 0.016230548 | 1.14767E-06 | 56957 | OTUD7B |
| 0.01620825 | 1.18709E-06 | 7251 | TSG101 |
| 0.016205331 | 1.19235E-06 | 4992 | OR1F1 |
| 0.016198454 | 1.20481E-06 | 978 | CDA |
| 0.016174003 | 1.25018E-06 | 23126 | POGZ |
| 0.01611864 | 1.35904E-06 | 51118 | UTP11L |
| 0.016116625 | 1.36317E-06 | 492 | ATP2B3 |
| 0.016104469 | 1.38833E-06 | 114131 | UCN3 |
| 0.016103635 | 1.39008E-06 | 9667 | SAFB2 |
| 0.01609377 | 1.41086E-06 | 2901 | GRIK5 |
| 0.016077794 | 1.44514E-06 | 7750 | ZMYM2 |
| 0.016059525 | 1.48532E-06 | 80174 | DBF4B |
| 0.01601083 | 1.59775E-06 | 5335 | PLCG1 |
| 0.016007911 | 1.60475E-06 | 64175 | LEPRE1 |
| 0.015992213 | 1.64287E-06 | 55284 | UBE2W |
| 0.015990963 | 1.64593E-06 | 129563 | DIS3L2 |
| 0.015983669 | 1.66397E-06 | 84334 | APOPT1 |
| 0.015979014 | 1.67558E-06 | 414152 | C10orf105 |
| 0.015967276 | 1.70521E-06 | 160857 | CCDC122 |
| 0.015958037 | 1.72888E-06 | 64418 | TMEM168 |
| 0.015955744 | 1.7348E-06 | 64866 | CDCP1 |
| 0.015936989 | 1.78399E-06 | 120863 | DEPDC4 |
| 0.015926361 | 1.81246E-06 | 389857 | CENPVL1 |
| 0.015892601 | 1.9058E-06 | 9023 | CH25H |
| 0.015882527 | 1.93454E-06 | 7480 | WNT10B |
| 0.01587579 | 1.95398E-06 | 64747 | MFSD1 |
| 0.015861133 | 1.99695E-06 | 11262 | SP140 |
| 0.015854394 | 2.01701E-06 | 11040 | PIM2 |
| 0.015831402 | 2.08691E-06 | 8360 | HIST1H4D |
| 0.015820218 | 2.12175E-06 | 29100 | TMEM208 |
| 0.015819455 | 2.12415E-06 | 114827 | FHAD1 |
| 0.015776038 | 2.2649E-06 | 154754 | PRSS23P2 |
| 0.015773468 | 2.27351E-06 | 10640 | EXOC5 |
| 0.015766868 | 2.29576E-06 | 4635 | MYL4 |
| 0.015755754 | 2.33369E-06 | 4117 | MAK |
| 0.015722828 | 2.44966E-06 | 283171 | C11orf44 |
| 0.015715605 | 2.47582E-06 | 83759 | RBM4B |
| 0.015713381 | 2.48393E-06 | 9926 | LPGAT1 |
| 0.015695598 | 2.54971E-06 | 58503 | PROL1 |
| 0.015684206 | 2.59272E-06 | 1654 | DDX3X |

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| 0.032516554 | 0.639412045 | 0.749 | 1 | 51400 | PPME1 |
| 0.032495823 | 0.639625728 | 0.742 | 1 | 55223 | TRIM62 |
| 0.032486103 | 0.639725924 | 0.757 | 1 | 486 | FXYD2 |
| 0.032477032 | 0.639819443 | 0.779 | 1 | 114785 | MBD6 |
| 0.032465369 | 0.639939725 | 0.737 | 1 | 5697 | PYY |
| 0.032438159 | 0.640220284 | 0.774 | 1 | 9768 | KIAA0101 |
| 0.032397989 | 0.640634537 | 0.76 | 1 | 340485 | ACER2 |
| 0.032396045 | 0.640654624 | 0.777 | 1 | 57630 | SH3RF1 |
| 0.032349396 | 0.641135871 | 0.731 | 1 | 84216 | TMEM117 |
| 0.032346804 | 0.641162634 | 0.762 | 1 | 2624 | GATA2 |
| 0.032318298 | 0.641456783 | 0.78 | 1 | 114131 | UCN3 |
| 0.032307282 | 0.641570449 | 0.777 | 1 | 64772 | ENGASE |
| 0.032274891 | 0.641904831 | 0.748 | 1 | 157769 | FAM91A1 |
| 0.032230832 | 0.642359734 | 0.773 | 1 | 4983 | OPHN1 |
| 0.032196492 | 0.642714441 | 0.747 | 1 | 55293 | UEVLD |
| 0.032166041 | 0.643028975 | 0.749 | 1 | 2149 | F2R |
| 0.032152437 | 0.643169522 | 0.777 | 1 | 27201 | GPR78 |
| 0.032146607 | 0.643229783 | 0.769 | 1 | 7644 | ZNF91 |
| 0.032136887 | 0.643330157 | 0.757 | 1 | 138046 | RALYL |
| 0.032130409 | 0.643397152 | 0.766 | 1 | 92211 | PCDH21 |
| 0.032116804 | 0.6435377 | 0.761 | 1 | 181 | AGRP |
| 0.032112915 | 0.643577933 | 0.718 | 1 | 90523 | C6orf142 |
| 0.032099959 | 0.643711805 | 0.776 | 1 | 84336 | TMEM101 |
| 0.032092184 | 0.643792212 | 0.758 | 1 | 9452 | ITM2A |
| 0.032090239 | 0.643812239 | 0.745 | 1 | 4277 | MICB |
| 0.03208052 | 0.643912733 | 0.771 | 1 | 342933 | ZSCAN5B |
| 0.032073393 | 0.643986404 | 0.734 | 1 | 100132733 | ANKRD20A13P |
| 0.032046828 | 0.644261062 | 0.789 | 1 | 7337 | UBE3A |
| 0.032044239 | 0.644287825 | 0.76 | 1 | 149111 | CNIH3 |
| 0.032029986 | 0.644435167 | 0.752 | 1 | 23192 | ATG4B |
| 0.031985927 | 0.644890845 | 0.765 | 1 | 133686 | C5orf33 |
| 0.031962603 | 0.645132065 | 0.749 | 1 | 51626 | DYNC2LI1 |
| 0.031961955 | 0.6451388 | 0.76 | 1 | 284593 | FAM41C |
| 0.031950295 | 0.64525944 | 0.748 | 1 | 440738 | MAP1LC3C |
| 0.031947054 | 0.645292997 | 0.784 | 1 | 8530 | CST7 |
| 0.031931505 | 0.64545387 | 0.768 | 1 | 283635 | FAM177A1 |
| 0.031916603 | 0.645608008 | 0.768 | 1 | 55584 | CHRNA9 |
| 0.031915955 | 0.645614743 | 0.786 | 1 | 349334 | FOXD4L4 |
| 0.031914011 | 0.64563489 | 0.755 | 1 | 11011 | TLK2 |
| 0.03185311 | 0.646265209 | 0.758 | 1 | 219793 | C10orf27 |
| 0.03184922 | 0.646305501 | 0.765 | 1 | 131177 | FAM3D |
| 0.031827193 | 0.646533549 | 0.758 | 1 | 55258 | THNSL2 |
| 0.031823955 | 0.646567047 | 0.753 | 1 | 389337 | AC022100.1 |
| 0.031752039 | 0.647311866 | 0.785 | 1 | 374378 | GALNTL4 |
| 0.031724177 | 0.647600532 | 0.748 | 1 | 1638 | DCT |
| 0.031716403 | 0.647681117 | 0.77 | 1 | 729566 | ZBTB8OSP1 |
| 0.031685952 | 0.647996664 | 0.777 | 1 | 51275 | C12ORF47 |
| 0.031670403 | 0.648157835 | 0.777 | 1 | 5727 | PTCH1 |
| 0.031645134 | 0.648419738 | 0.792 | 1 | 11034 | DSTN |
| 0.031537585 | 0.649535 | 0.765 | 1 | 5532 | PPP3CB |
| 0.031517498 | 0.649743438 | 0.766 | 1 | 59271 | C21orf63 |
| 0.031492881 | 0.649998844 | 0.783 | 1 | 8603 | C4orf8 |
| 0.031473443 | 0.650200546 | 0.789 | 1 | 57553 | MICAL3 |
| 0.031441696 | 0.65053004 | 0.765 | 1 | 135398 | C6ORF141 |
| 0.031419668 | 0.650758743 | 0.761 | 1 | 10026 | PIGK |
| 0.031403471 | 0.650926888 | 0.757 | 1 | 83959 | SLC4A11 |
| 0.03140023 | 0.650960565 | 0.796 | 1 | 29086 | C19orf62 |
| 0.031375609 | 0.651216209 | 0.747 | 1 | 6520 | SLC3A2 |
| 0.031358119 | 0.651397824 | 0.776 | 1 | 222537 | HS3ST5 |
| 0.031349048 | 0.651492059 | 0.754 | 1 | 10015 | PDCD6IP |
| 0.031260934 | 0.652407467 | 0.772 | 1 | 50488 | MINK1 |
| 0.031258989 | 0.652427733 | 0.774 | 1 | 51157 | ZNF580 |
| 0.031257693 | 0.652441204 | 0.761 | 1 | 7048 | TGFBR2 |
| 0.031247975 | 0.652542174 | 0.755 | 1 | 8942 | KYNU |
| 0.031182539 | 0.653222442 | 0.757 | 1 | 23070 | FTSJD2 |
| 0.031179946 | 0.653249383 | 0.744 | 1 | 3065 | HDAC1 |
| 0.031141721 | 0.653646886 | 0.767 | 1 | 79148 | MMP28 |
| 0.031113213 | 0.653943419 | 0.752 | 1 | 4060 | LUM |
| 0.031103496 | 0.654044509 | 0.767 | 1 | 266 | AMELY |
| 0.031058142 | 0.654516339 | 0.727 | 1 | 79877 | DCAKD |
| 0.031043241 | 0.654671431 | 0.76 | 1 | 837 | CASP4 |
| 0.031027043 | 0.654839993 | 0.774 | 1 | 100129566 | LOC100129566 |
| 0.031002423 | 0.655096292 | 0.79 | 1 | 79709 | GLT25D1 |
| 0.030995296 | 0.6551705 | 0.758 | 1 | 10325 | RRAGB |
| 0.030946055 | 0.65568316 | 0.771 | 1 | 92960 | PEX11G |
| 0.030925972 | 0.655892313 | 0.775 | 1 | 5588 | PRKCQ |
| 0.030852759 | 0.656654954 | 0.797 | 1 | 27255 | CNTN6 |
| 0.030815829 | 0.657039821 | 0.751 | 1 | 81932 | HDHD3 |
| 0.030748447 | 0.657742202 | 0.754 | 1 | 5092 | PCBD1 |
| 0.030739378 | 0.657836795 | 0.77 | 1 | 92949 | ADAMTSL1 |
| 0.030715406 | 0.658086777 | 0.773 | 1 | 23043 | TNIK |

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| 0.015682122 | 2.60066E-06 | 51149 | C5orf45 |
| 0.015655309 | 2.70498E-06 | 85442 | KNDC1 |
| 0.015643014 | 2.75414E-06 | 29068 | ZBTB44 |
| 0.015640484 | 2.76612E-06 | 25759 | SHC2 |
| 0.015589664 | 2.97757E-06 | 10402 | ST3GAL6 |
| 0.015574104 | 3.04595E-06 | 3700 | ITIH4 |
| 0.015552986 | 3.14117E-06 | 91801 | ALKBH8 |
| 0.015547429 | 3.16669E-06 | 79812 | MMRN2 |
| 0.015539789 | 3.20212E-06 | 316 | AOX1 |
| 0.015476019 | 3.51292E-06 | 84515 | MCM8 |
| 0.015466086 | 3.56388E-06 | 23013 | SPEN |
| 0.015451012 | 3.64254E-06 | 80194 | TMEM134 |
| 0.015429408 | 3.75821E-06 | 55897 | MESP1 |
| 0.015403637 | 3.90077E-06 | 3234 | HOXD8 |
| 0.015370711 | 4.09048E-06 | 54900 | LAX1 |
| 0.015364736 | 4.12585E-06 | 9743 | AP000751.3 |
| 0.015360569 | 4.15068E-06 | 84792 | C7orf70 |
| 0.015359527 | 4.15692E-06 | 2035 | EPB41 |
| 0.015294716 | 4.56269E-06 | 466 | ATF1 |
| 0.015273599 | 4.70291E-06 | 2648 | KAT2A |
| 0.015260748 | 4.79026E-06 | 834 | CASP1 |
| 0.015259213 | 5.05844E-06 | 1847 | DUSP |
| 0.015258525 | 4.80552E-06 | 127002 | ATXN7L2 |
| 0.015240881 | 4.92835E-06 | 202500 | TCTE1 |
| 0.015234907 | 4.97061E-06 | 651250 | LRRC37A16P |
| 0.015222264 | 5.06119E-06 | 10847 | SRCAP |
| 0.015218513 | 5.08838E-06 | 57552 | AADACL1 |
| 0.01520587 | 5.18102E-06 | 1945 | EFNA4 |
| 0.015195173 | 5.26067E-06 | 387273 | KRTAP5-10 |
| 0.015193228 | 5.27528E-06 | 54165 | DCUN1D1 |
| 0.015180099 | 5.3749E-06 | 773 | CACNA1A |
| 0.01517996 | 5.37596E-06 | 92255 | LMBRD2 |
| 0.015170165 | 5.45147E-06 | 6788 | AP003355.2 |
| 0.015143769 | 5.66003E-06 | 26823 | RNU12-2P |
| 0.015126402 | 5.8014E-06 | 92715 | WDR85 |
| 0.015118761 | 5.86466E-06 | 286183 | NKAIN3 |
| 0.015110912 | 5.93034E-06 | 79188 | TMEM43 |
| 0.015101812 | 6.00737E-06 | 140947 | C5ORF20 |
| 0.015076805 | 6.22396E-06 | 392352 | LOC392352 |
| 0.01507215 | 6.26511E-06 | 203427 | SLC25A43 |
| 0.015018315 | 6.76019E-06 | 22934 | RPIA |
| 0.01496969 | 7.23933E-06 | 55790 | CSGALNACT1 |
| 0.014962048 | 7.31752E-06 | 84634 | KISS1R |
| 0.014935374 | 7.59683E-06 | 64855 | FAM129B |
| 0.014933846 | 7.61314E-06 | 3017 | HIST1H2BD |
| 0.014894737 | 8.04204E-06 | 9851 | KIAA0753 |
| 0.014888694 | 8.11036E-06 | 285313 | IGSF10 |
| 0.014847917 | 8.58592E-06 | 376693 | RPS10P7 |
| 0.014829023 | 8.81524E-06 | 401428 | OR2A20P |
| 0.014817908 | 8.95281E-06 | 196441 | ZFC3H1 |
| 0.014815755 | 8.97971E-06 | 254910 | LCE5A |
| 0.014801098 | 9.16484E-06 | 79036 | C19orf50 |
| 0.014792763 | 9.27174E-06 | 2301 | FOXE3 |
| 0.014792763 | 9.27174E-06 | 81470 | OR2G2 |
| 0.014775466 | 9.49737E-06 | 80727 | TTYH3 |
| 0.014773868 | 9.5185E-06 | 3242 | HPD |
| 0.014773312 | 9.52585E-06 | 80207 | OPA3 |
| 0.014772617 | 9.53505E-06 | 4128 | MAOA |
| 0.014764491 | 9.64328E-06 | 374286 | CDRT1 |
| 0.014755182 | 9.76867E-06 | 83892 | KCTD10 |
| 0.014749 | 9.85283E-06 | 10979 | PLEKHC1 |
| 0.014719616 | 1.02623E-05 | 3195 | TLX1 |
| 0.014715795 | 1.03168E-05 | 58504 | ARHGAP22 |
| 0.014712472 | 1.04932E-05 | 65055 | REEP1 |
| 0.014705584 | 1.04636E-05 | 5327 | PLAT |
| 0.014702667 | 1.05059E-05 | 2232 | FDXR |
| 0.014685092 | 1.07643E-05 | 5116 | PCNT |
| 0.014684328 | 1.07756E-05 | 2976 | GTF3C2 |
| 0.01467495 | 1.09161E-05 | 55599 | RNPC3 |
| 0.014636328 | 1.15133E-05 | 730092 | RRN3P1 |
| 0.014635772 | 1.15221E-05 | 5481 | PPID |
| 0.014634036 | 1.15497E-05 | 4282 | MIF |
| 0.014570683 | 1.26005E-05 | 83896 | KRTAP3-1 |
| 0.014533867 | 1.32525E-05 | 84666 | RETNLB |
| 0.014519835 | 1.35093E-05 | 344167 | FOXI3 |
| 0.014514834 | 1.3602E-05 | 27134 | TJP3 |
| 0.014472043 | 1.44202E-05 | 728 | C5AR1 |
| 0.014469611 | 1.44681E-05 | 5537 | PPP6C |
| 0.014443354 | 1.49949E-05 | 7766 | ZNF223 |
| 0.014392644 | 1.60643E-05 | 54517 | PUS7 |
| 0.014384448 | 1.62439E-05 | 9960 | USP3 |

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| 0.030707631 | 0.658167839 | 0.738 | 1 | 23678 | SGK3 |
| 0.030694673 | 0.658303022 | 0.782 | 1 | 7574 | ZNF26 |
| 0.030685602 | 0.658397615 | 0.761 | 1 | 23334 | KIAA0467 |
| 0.030668758 | 0.65857327 | 0.79 | 1 | 51561 | IL23A |
| 0.03066811 | 0.658580065 | 0.781 | 1 | 94241 | TP53INP1 |
| 0.030664222 | 0.658620596 | 0.757 | 1 | 402573 | C7orf61 |
| 0.030620813 | 0.659073532 | 0.761 | 1 | 54620 | FBXL19 |
| 0.030620165 | 0.659080267 | 0.775 | 1 | 9541 | CIR1 |
| 0.030570278 | 0.659600914 | 0.785 | 1 | 3838 | KPNA2 |
| 0.030545658 | 0.659857988 | 0.771 | 1 | 11142 | PKIG |
| 0.030526869 | 0.660054088 | 0.767 | 1 | 283933 | ZNF843 |
| 0.030498361 | 0.660351813 | 0.767 | 1 | 150962 | PUS10 |
| 0.030462727 | 0.660723925 | 0.749 | 1 | 1051 | CEBPB |
| 0.03045884 | 0.660764575 | 0.772 | 1 | 3300 | DNAJB2 |
| 0.030438755 | 0.660974383 | 0.773 | 1 | 23349 | KIAA1045 |
| 0.030425148 | 0.66111654 | 0.752 | 1 | 10057 | ABCC5 |
| 0.03040312 | 0.661346674 | 0.776 | 1 | 57502 | NLGN4X |
| 0.030381739 | 0.661570132 | 0.768 | 1 | 54033 | RBM11 |
| 0.030363599 | 0.661759675 | 0.755 | 1 | 23049 | SMG1 |
| 0.030361008 | 0.661786735 | 0.783 | 1 | 1008 | CDH10 |
| 0.030359063 | 0.66180712 | 0.785 | 1 | 23595 | ORC3L |
| 0.030358415 | 0.661813915 | 0.744 | 1 | 347689 | SOX2-OT |
| 0.030335739 | 0.662050903 | 0.774 | 1 | 26275 | HIBCH |
| 0.030305937 | 0.662362456 | 0.773 | 1 | 23657 | SLC7A11 |
| 0.030288443 | 0.662545383 | 0.774 | 1 | 29127 | RACGAP1P |
| 0.030276133 | 0.662674129 | 0.765 | 1 | 54941 | RNF125 |
| 0.030266415 | 0.662775755 | 0.741 | 1 | 56245 | C21orf62 |
| 0.03024957 | 0.662951946 | 0.782 | 1 | 3982 | LIM2 |
| 0.030246977 | 0.662979066 | 0.76 | 1 | 285195 | SLC9A9 |
| 0.030208752 | 0.663378894 | 0.78 | 1 | 7336 | UBE2V2 |
| 0.030200977 | 0.663460255 | 0.779 | 1 | 984 | CDC2L1 |
| 0.030169878 | 0.663785636 | 0.776 | 1 | 8013 | NR4A3 |
| 0.030158864 | 0.663900912 | 0.759 | 1 | 54758 | KLHDC4 |
| 0.030155625 | 0.663934827 | 0.779 | 1 | 27018 | NGFRAP1 |
| 0.03013554 | 0.664144993 | 0.779 | 1 | 359 | AQP2 |
| 0.030118046 | 0.664328098 | 0.781 | 1 | 4200 | ME2 |
| 0.030112863 | 0.664382398 | 0.787 | 1 | 5342 | PLGLB2 |
| 0.030110272 | 0.664409518 | 0.778 | 1 | 84458 | LCOR |
| 0.030097313 | 0.664545119 | 0.779 | 1 | 3835 | KIF22 |
| 0.030036412 | 0.665182889 | 0.774 | 1 | 83416 | FCRL5 |
| 0.030031228 | 0.665237188 | 0.767 | 1 | 7277 | TUBA4A |
| 0.029985229 | 0.665718973 | 0.782 | 1 | 441394 | SUGT1P1 |
| 0.029960608 | 0.665976942 | 0.781 | 1 | 85444 | LRRCC1 |
| 0.02995996 | 0.665983796 | 0.746 | 1 | 4594 | MUT |
| 0.02995996 | 0.665983796 | 0.789 | 1 | 9415 | FADS2 |
| 0.029940523 | 0.666187406 | 0.789 | 1 | 5250 | SLC25A3 |
| 0.029913312 | 0.666472614 | 0.777 | 1 | 100129583 | FAM47E |
| 0.029910073 | 0.666506588 | 0.795 | 1 | 8302 | KLRC4 |
| 0.02987962 | 0.666825771 | 0.75 | 1 | 399900 | LOC399900 |
| 0.029839452 | 0.667246938 | 0.773 | 1 | 84852 | C1orf203 |
| 0.029810945 | 0.667545855 | 0.786 | 1 | 170960 | ZNF721 |
| 0.029780494 | 0.667865217 | 0.762 | 1 | 7566 | ZNF18 |
| 0.029735141 | 0.668341041 | 0.794 | 1 | 55384 | MEG3 |
| 0.029709226 | 0.668613017 | 0.781 | 1 | 79143 | LENG4 |
| 0.029663224 | 0.669095814 | 0.78 | 1 | 3884 | KRT33B |
| 0.029650914 | 0.669225037 | 0.768 | 1 | 933 | CD22 |
| 0.029645732 | 0.669279456 | 0.778 | 1 | 151306 | GPBAR1 |
| 0.029632125 | 0.669422269 | 0.795 | 1 | 642273 | FAM110C |
| 0.029617224 | 0.669578731 | 0.77 | 1 | 203427 | SLC25A43 |
| 0.029605562 | 0.669701219 | 0.769 | 1 | 23108 | GARNL4 |
| 0.029601026 | 0.669748843 | 0.783 | 1 | 57539 | WDR35 |
| 0.029591307 | 0.669850886 | 0.761 | 1 | 162394 | SLFN5 |
| 0.02955373 | 0.670245528 | 0.8 | 1 | 200172 | SLFNL1 |
| 0.029548546 | 0.670300007 | 0.785 | 1 | 2916 | GRM6 |
| 0.029528461 | 0.670511007 | 0.775 | 1 | 7100 | TLR5 |
| 0.029525222 | 0.670545042 | 0.76 | 1 | 10972 | TMED10 |
| 0.02950773 | 0.670728803 | 0.761 | 1 | 54762 | GRAMD1C |
| 0.029505137 | 0.670756042 | 0.778 | 1 | 392309 | OR13J1 |
| 0.029464321 | 0.671184957 | 0.783 | 1 | 23353 | UNC84A |
| 0.029437756 | 0.671464205 | 0.781 | 1 | 839 | CASP6 |
| 0.029435165 | 0.671491444 | 0.794 | 1 | 4499 | MT1M |
| 0.029400179 | 0.671859264 | 0.777 | 1 | 26579 | MYEOV |
| 0.029393053 | 0.671934187 | 0.783 | 1 | 90987 | ZNF251 |
| 0.02938463 | 0.67202276 | 0.795 | 1 | 55291 | SAPS3 |
| 0.029373616 | 0.672138512 | 0.781 | 1 | 9132 | KCNQ4 |
| 0.02937232 | 0.672152162 | 0.757 | 1 | 1362 | CPD |
| 0.029357418 | 0.672308922 | 0.758 | 1 | 10165 | SLC25A13 |
| 0.029315304 | 0.672751844 | 0.803 | 1 | 7032 | TFF2 |
| 0.029306881 | 0.672840416 | 0.779 | 1 | 6441 | SFTPD |
| 0.029280966 | 0.673113108 | 0.765 | 1 | 2042 | EPHA3 |
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| 0.014377918 | 1.63882E-05 | 162540 | AC217771.1 |
| 0.014377293 | 1.64021E-05 | 81786 | TRIM7 |
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| 0.014325194 | 1.75999E-05 | 3831 | C14orf153 |
| 0.014302409 | 1.81496E-05 | 183 | AGT |
| 0.014297478 | 1.82707E-05 | 6566 | SLC16A1 |
| 0.014279538 | 1.87217E-05 | 116983 | ACAP3 |
| 0.014270594 | 1.89444E-05 | 132014 | IL17RE |
| 0.01426726 | 1.90296E-05 | 10985 | GCN1L1 |
| 0.014254201 | 1.93668E-05 | 26160 | IFT172 |
| 0.014252882 | 1.94012E-05 | 140739 | UBE2F |
| 0.014243434 | 1.96491E-05 | 9487 | PIGL |
| 0.014238849 | 1.97705E-05 | 4327 | MMP19 |
| 0.014224192 | 2.01634E-05 | 149047 | RP11-183M13.1 |
| 0.014208285 | 2.05982E-05 | 29927 | SEC61A1 |
| 0.014168899 | 2.17136E-05 | 9877 | ZC3H11A |
| 0.014157089 | 2.2059E-05 | 220832 | FABP5P3 |
| 0.014131595 | 2.28228E-05 | 57504 | MTA3 |
| 0.014107144 | 2.35789E-05 | 23204 | ARL6IP1 |
| 0.014098113 | 2.38641E-05 | 729992 | ST13P1 |
| 0.014053378 | 2.53261E-05 | 121364 | OR10A7 |
| 0.014052475 | 2.53565E-05 | 10232 | MSLN |
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| 0.014048237 | 2.54994E-05 | 51117 | COQ4 |
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| 0.014008226 | 2.68878E-05 | 2837 | UTS2R |
| 0.013998154 | 2.72484E-05 | 11021 | RAB35 |
| 0.013974744 | 2.81046E-05 | 23478 | SEC11B |
| 0.013966477 | 2.8413E-05 | 10600 | USP16 |
| 0.013958002 | 2.87325E-05 | 4105 | MAGEA6 |
| 0.013950987 | 2.89995E-05 | 9033 | PKD2L1 |
| 0.013949667 | 2.905E-05 | 8939 | FUBP3 |
| 0.013941262 | 2.93736E-05 | 10922 | FASTK |
| 0.013940983 | 2.93844E-05 | 9790 | BMS1 |
| 0.013940776 | 2.93924E-05 | 9443 | MED7 |
| 0.013935079 | 2.96138E-05 | 144717 | FAM109A |
| 0.013912642 | 3.05013E-05 | 55663 | ZNF446 |
| 0.013910836 | 3.05738E-05 | 157869 | C8orf84 |
| 0.013903334 | 3.08769E-05 | 6793 | STK10 |
| 0.013893609 | 3.1274E-05 | 84321 | THOC3 |
| 0.013888191 | 3.14973E-05 | 56917 | MEIS3P2 |
| 0.013798719 | 3.54114E-05 | 1281 | COL3A1 |
| 0.01376357 | 3.7072E-05 | 9869 | SETDB1 |
| 0.013759819 | 3.72536E-05 | 55893 | ZNF395 |
| 0.013751806 | 3.85013E-05 | 2335 | FN1 |
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| 0.013730783 | 3.86875E-05 | 9609 | RAB36 |
| 0.01370258 | 4.01303E-05 | 1141 | CHRNB2 |
| 0.013698482 | 4.03442E-05 | 79981 | FRMD1 |
| 0.013695008 | 4.05262E-05 | 389493 | RP4-725G10.1 |
| 0.013685769 | 4.10145E-05 | 441272 | SPDYE3 |
| 0.013658262 | 4.25012E-05 | 85016 | C11orf70 |
| 0.013607691 | 4.53687E-05 | 337985 | KRTAP20-3 |
| 0.013604843 | 4.55356E-05 | 23598 | PATZ1 |
| 0.013578515 | 4.71056E-05 | 84294 | UTP23 |
| 0.013569208 | 4.76729E-05 | 55260 | TMEM143 |
| 0.013465913 | 5.44185E-05 | 10006 | ABI1 |
| 0.01345466 | 5.52057E-05 | 84838 | ZNF496 |
| 0.013434723 | 5.66269E-05 | 51389 | RWDD1 |
| 0.013417288 | 5.78983E-05 | 83604 | TMEM47 |
| 0.013409855 | 5.84483E-05 | 1742 | DLG4 |
| 0.013407284 | 5.86398E-05 | 563 | AZGP1 |
| 0.013396031 | 5.94846E-05 | 7205 | TRIP6 |
| 0.013378943 | 6.07898E-05 | 7554 | ZNF8 |
| 0.013370191 | 6.14687E-05 | 114900 | C1QTNF4 |
| 0.013338862 | 6.39582E-05 | 9759 | HDAC4 |
| 0.013294473 | 6.76492E-05 | 100130691 | AC074286.1 |
| 0.013260644 | 7.05967E-05 | 118987 | PDZD8 |
| 0.01325606 | 7.10053E-05 | 11080 | DNAJB4 |
| 0.013190137 | 7.71344E-05 | 29888 | STRN4 |
| 0.013129147 | 8.32478E-05 | 127731 | VWA5B1 |
| 0.013121089 | 8.40889E-05 | 391104 | VHLL |
| 0.013107821 | 8.54914E-05 | 28232 | SLCO3A1 |
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| 0.029266713 | 0.673263073 | 0.785 | 1 | 3249 | HPN |
| 0.029228486 | 0.673665345 | 0.784 | 1 | 255809 | C19orf38 |
| 0.029220711 | 0.673747182 | 0.771 | 1 | 339201 | C17orf65 |
| 0.029220711 | 0.673747182 | 0.781 | 1 | 374875 | HSD11B1L |
| 0.029220063 | 0.673754036 | 0.796 | 1 | 9616 | RNF7 |
| 0.029206458 | 0.673897207 | 0.791 | 1 | 9804 | TOMM20 |
| 0.029190909 | 0.674060881 | 0.779 | 1 | 387978 | C14orf23 |
| 0.029126119 | 0.674743116 | 0.776 | 1 | 284611 | FAM102B |
| 0.029108627 | 0.674927354 | 0.786 | 1 | 147166 | TRIM16L |
| 0.029102147 | 0.674995601 | 0.78 | 1 | 8626 | TP63 |
| 0.029086597 | 0.675159335 | 0.765 | 1 | 343472 | BARHL2 |
| 0.029071696 | 0.675316393 | 0.791 | 1 | 375612 | LHFPL3 |
| 0.029065218 | 0.675384581 | 0.77 | 1 | 10863 | ADAM28 |
| 0.029058738 | 0.675452828 | 0.78 | 1 | 1622 | DBI |
| 0.029058738 | 0.675452828 | 0.785 | 1 | 254263 | CNIH2 |
| 0.029023103 | 0.675828338 | 0.79 | 1 | 92737 | DNER |
| 0.029008202 | 0.675985336 | 0.786 | 1 | 60672 | MIIP |
| 0.029007554 | 0.675992191 | 0.786 | 1 | 79915 | ATAD5 |
| 0.029004315 | 0.676026344 | 0.755 | 1 | 64779 | MTHFSD |
| 0.028984878 | 0.676231205 | 0.814 | 1 | 10866 | HCP5 |
| 0.028984878 | 0.676231205 | 0.784 | 1 | 117157 | SH2D1B |
| 0.028967384 | 0.676415563 | 0.778 | 1 | 55937 | APOM |
| 0.028955076 | 0.676545382 | 0.788 | 1 | 140686 | WFDC3 |
| 0.028936934 | 0.676736593 | 0.788 | 1 | 84666 | RETNLB |
| 0.028921384 | 0.676900566 | 0.797 | 1 | 79680 | C22orf29 |
| 0.028892228 | 0.677208006 | 0.763 | 1 | 10329 | TMEM5 |
| 0.028883159 | 0.677303672 | 0.773 | 1 | 11318 | GPR182 |
| 0.028857242 | 0.677577019 | 0.773 | 1 | 7818 | DAP3 |
| 0.028856594 | 0.677583873 | 0.78 | 1 | 8521 | GCM1 |
| 0.0288553 | 0.677597523 | 0.769 | 1 | 4017 | LOXL2 |
| 0.028847525 | 0.677679539 | 0.792 | 1 | 285093 | CXXC11 |
| 0.028844932 | 0.677706897 | 0.787 | 1 | 85360 | SYDE1 |
| 0.028821608 | 0.677952945 | 0.785 | 1 | 7014 | TERF2 |
| 0.028808003 | 0.678096473 | 0.801 | 1 | 442517 | LOC442517 |
| 0.02880282 | 0.67815119 | 0.81 | 1 | 1668 | DEFA3 |
| 0.028771721 | 0.678479373 | 0.78 | 1 | 54112 | GPR88 |
| 0.028759411 | 0.678609252 | 0.765 | 1 | 59339 | PLEKHA2 |
| 0.028755523 | 0.67865032 | 0.788 | 1 | 3881 | KRT31 |
| 0.028723776 | 0.678985417 | 0.8 | 1 | 100288165 | HMGN2P15 |
| 0.028712763 | 0.679101706 | 0.782 | 1 | 65985 | AACS |
| 0.028710818 | 0.67912221 | 0.798 | 1 | 2619 | GAS1 |
| 0.028699156 | 0.679245412 | 0.814 | 1 | 57459 | GATAD2B |
| 0.028693974 | 0.67930007 | 0.778 | 1 | 642696 | AC007601.1 |
| 0.02867648 | 0.679484785 | 0.794 | 1 | 60 | ACTB |
| 0.028669354 | 0.679560065 | 0.778 | 1 | 6406 | SEMG1 |
| 0.028659634 | 0.679662704 | 0.785 | 1 | 266675 | BEST4 |
| 0.028647324 | 0.679792643 | 0.778 | 1 | 1439 | CSF2RB |
| 0.028621409 | 0.680066407 | 0.772 | 1 | 79411 | GLB1L |
| 0.02859614 | 0.680333376 | 0.787 | 1 | 84324 | SARNP |
| 0.028574113 | 0.680566072 | 0.774 | 1 | 2904 | GRIN2B |
| 0.028557267 | 0.680744112 | 0.773 | 1 | 23065 | KIAA0090 |
| 0.02855338 | 0.680785179 | 0.807 | 1 | 115509 | ZNF689 |
| 0.028540421 | 0.680922091 | 0.79 | 1 | 8773 | SNAP23 |
| 0.028539127 | 0.6809358 | 0.774 | 1 | 5691 | PSMB3 |
| 0.028533943 | 0.680990577 | 0.797 | 1 | 282973 | JAKMIP3 |
| 0.028523577 | 0.68110013 | 0.793 | 1 | 79649 | MAP7D3 |
| 0.028518394 | 0.681154907 | 0.773 | 1 | 643905 | PRR21 |
| 0.028511915 | 0.681223333 | 0.793 | 1 | 80341 | BPIL1 |
| 0.028504787 | 0.681298733 | 0.775 | 1 | 10148 | EBI3 |
| 0.028490534 | 0.681449413 | 0.783 | 1 | 2673 | GFPT1 |
| 0.028471746 | 0.681648016 | 0.787 | 1 | 255738 | PCSK9 |
| 0.028440647 | 0.681976855 | 0.768 | 1 | 25956 | SEC31B |
| 0.028434167 | 0.682045341 | 0.802 | 1 | 64761 | PARP12 |
| 0.028377153 | 0.682648361 | 0.794 | 1 | 51203 | NUSAP1 |
| 0.028364195 | 0.682785451 | 0.78 | 1 | 114792 | KLHL32 |
| 0.028332448 | 0.683121324 | 0.791 | 1 | 283130 | SLC25A45 |
| 0.028314956 | 0.683306456 | 0.801 | 1 | 150590 | C2orf15 |
| 0.02829811 | 0.683484674 | 0.787 | 1 | 5570 | PKIB |
| 0.028264418 | 0.683841288 | 0.815 | 1 | 762 | CA4 |
| 0.028255349 | 0.683937311 | 0.762 | 1 | 694 | BTG1 |
| 0.028233968 | 0.68416363 | 0.782 | 1 | 79608 | RIC3 |
| 0.028222306 | 0.684287131 | 0.801 | 1 | 50515 | CHST11 |
| 0.028160756 | 0.684938908 | 0.807 | 1 | 11235 | PDCD10 |
| 0.02814715 | 0.685083032 | 0.797 | 1 | 65266 | WNK4 |
| 0.028141966 | 0.685137928 | 0.787 | 1 | 915 | CD3D |
| 0.028114107 | 0.68543309 | 0.771 | 1 | 85478 | CCDC65 |
| 0.028097263 | 0.685611546 | 0.779 | 1 | 389541 | C7orf59 |
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| 0.028090782 | 0.685680211 | 0.804 | 1 | 55734 | ZFP64 |
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| 0.012863374 | 0.000115638 | 7441 | VPREB1 |
| 0.012858789 | 0.00011629 | 10209 | EIF1 |
| 0.012845522 | 0.000118194 | 7032 | TFF2 |
| 0.012841077 | 0.000118839 | 404217 | CTXN1 |
| 0.012822321 | 0.000121595 | 374864 | C18orf34 |
| 0.01281461 | 0.000122745 | 2304 | FOXE1 |
| 0.012810095 | 0.000123424 | 11269 | DDX19B |
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| 0.012790297 | 0.000126441 | 354 | KLK3 |
| 0.012786561 | 0.000131857 | 1961 | EGR4 |
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| 0.012767374 | 0.000130021 | 7371 | UCK2 |
| 0.012762511 | 0.000130793 | 2060 | EPS15 |
| 0.012738199 | 0.000134716 | 100874392 | ANKRD20A12P |
| 0.012734934 | 0.000135251 | 259234 | DSCR10 |
| 0.012707425 | 0.00013984 | 165829 | GPR156 |
| 0.012704508 | 0.000140335 | 8560 | DEGS1 |
| 0.012677625 | 0.000144977 | 23595 | ORC3L |
| 0.012655952 | 0.000148825 | 57708 | MIER1 |
| 0.012652548 | 0.000149437 | 56112 | PCDHGA3 |
| 0.012650047 | 0.000149889 | 11231 | SEC63 |
| 0.012647547 | 0.000150342 | 10522 | DEAF1 |
| 0.012621914 | 0.000155061 | 26051 | PPP1R16B |
| 0.01260823 | 0.000157637 | 201299 | RDM1 |
| 0.012594615 | 0.00016024 | 2170 | FABP3 |
| 0.012584682 | 0.000162165 | 170082 | TCEANC |
| 0.012576901 | 0.000163687 | 6710 | SPTB |
| 0.012563911 | 0.000166259 | 23118 | MAP3K7IP2 |
| 0.012561619 | 0.000166717 | 6505 | SLC1A1 |
| 0.012544739 | 0.000170124 | 84899 | TMTC4 |
| 0.012521052 | 0.000175017 | 8832 | CD84 |
| 0.012518968 | 0.000175454 | 79750 | ZNF385D |
| 0.012506672 | 0.000178052 | 285622 | NBPF22P |
| 0.012499517 | 0.00017958 | 123720 | WHAMM |
| 0.012486735 | 0.000182341 | 55585 | UBE2Q1 |
| 0.012480137 | 0.000183782 | 10328 | COX4NB |
| 0.01246409 | 0.00018733 | 440352 | SNX29P2 |
| 0.012463326 | 0.000187501 | 54508 | FLJ11235 |
| 0.012459923 | 0.000188262 | 23367 | LARP1 |
| 0.012453323 | 0.000189747 | 220064 | ORAOV1 |
| 0.012445334 | 0.00019156 | 550631 | CCDC157 |
| 0.01244207 | 0.000192305 | 3594 | IL12RB1 |
| 0.012425398 | 0.000196153 | 58516 | FAM60A |
| 0.012421925 | 0.000196964 | 84128 | WDR75 |
| 0.012415743 | 0.000198415 | 6123 | RPL3L |
| 0.012408101 | 0.000200223 | 3861 | KRT14 |
| 0.012380385 | 0.000206909 | 79810 | PTCD2 |
| 0.012351279 | 0.000214156 | 159013 | CXorf38 |
| 0.012347319 | 0.00021516 | 440712 | C1orf186 |
| 0.012345722 | 0.000215566 | 7293 | TNFRSF4 |
| 0.01234475 | 0.000215814 | 65110 | UPF3A |
| 0.012297999 | 0.000228043 | 7329 | UBE2I |
| 0.012272784 | 0.000234907 | 1915 | EEF1A1 |
| 0.012269867 | 0.000235713 | 22899 | ARHGEF15 |
| 0.012266184 | 0.000236735 | 645332 | AP003716.1 |
| 0.012261183 | 0.000238129 | 80852 | GRIP2 |
| 0.012258739 | 0.000247142 | 126567 | FAM148C |
| 0.012236523 | 0.000245116 | 219858 | OR8B12 |
| 0.012235411 | 0.000245436 | 6996 | TDG |
| 0.012229091 | 0.00024726 | 83656 | C8orf12 |
| 0.012226798 | 0.000247925 | 116512 | MRGPRD |
| 0.012192482 | 0.000258077 | 57693 | ZNF317 |
| 0.012176367 | 0.000262978 | 79895 | ATP8B4 |
| 0.012157958 | 0.000268683 | 92797 | HELB |
| 0.012155319 | 0.00026951 | 23366 | KIAA0895 |
| 0.012140105 | 0.000274326 | 51538 | ZCCHC17 |
| 0.012092661 | 0.000289868 | 79958 | DENND1C |
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| 0.012072447 | 0.000296738 | 23024 | PDZRN3 |
| 0.012055845 | 0.000302493 | 10656 | KHDRBS3 |
| 0.012043202 | 0.000306946 | 57561 | ARRDC3 |
| 0.012032088 | 0.000310911 | 3212 | HOXB2 |
| 0.012010623 | 0.000318705 | 2317 | FLNB |
| 0.011957274 | 0.000338876 | 26959 | HBP1 |
| 0.01195394 | 0.000340176 | 11158 | RABL2B |
| 0.011942062 | 0.000344843 | 353141 | LCE2D |
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| 0.028044134 | 0.686174512 | 0.793 | 1 | 255031 | FLJ35390 |
| 0.028040247 | 0.686215758 | 0.802 | 1 | 3685 | ITGAV |
| 0.028009797 | 0.686538517 | 0.804 | 1 | 337879 | KRTAP8-1 |
| 0.027999429 | 0.686648428 | 0.789 | 1 | 9373 | PLAA |
| 0.027998783 | 0.686655283 | 0.772 | 1 | 6924 | TCEB3 |
| 0.027973514 | 0.686923206 | 0.796 | 1 | 10848 | PPP1R13L |
| 0.027958613 | 0.687081158 | 0.815 | 1 | 2046 | EPHA8 |
| 0.027952781 | 0.687143028 | 0.818 | 1 | 196374 | KRT78 |
| 0.02795019 | 0.687170506 | 0.798 | 1 | 51715 | RAB23 |
| 0.027924273 | 0.687445402 | 0.775 | 1 | 166752 | FREM3 |
| 0.027908724 | 0.687610269 | 0.795 | 1 | 129868 | TRIM43 |
| 0.027905485 | 0.68764466 | 0.806 | 1 | 392196 | RP11-1236K1.8 |
| 0.027876977 | 0.687947035 | 0.79 | 1 | 338596 | ST8SIA6 |
| 0.027856894 | 0.688160121 | 0.793 | 1 | 2537 | IFI6 |
| 0.027855597 | 0.68817389 | 0.795 | 1 | 9028 | RHBDL1 |
| 0.027784329 | 0.688930213 | 0.787 | 1 | 222826 | C6orf146 |
| 0.027701398 | 0.689810693 | 0.796 | 1 | 3845 | KRAS |
| 0.027686497 | 0.689968944 | 0.8 | 1 | 389692 | MAFA |
| 0.027655398 | 0.690299273 | 0.787 | 1 | 3856 | KRT8P9 |
| 0.027655398 | 0.690299273 | 0.801 | 1 | 79172 | CENPO |
| 0.027650863 | 0.690347433 | 0.794 | 1 | 139562 | OTUD6A |
| 0.027641792 | 0.690443814 | 0.762 | 1 | 54843 | SYTL2 |
| 0.02763013 | 0.690567732 | 0.81 | 1 | 645453 | RLIMP3 |
| 0.027608749 | 0.690794885 | 0.805 | 1 | 55811 | ADCY10 |
| 0.027606806 | 0.690815508 | 0.795 | 1 | 51458 | RHCG |
| 0.027597087 | 0.690918803 | 0.808 | 1 | 23404 | EXOSC2 |
| 0.027595144 | 0.690939426 | 0.782 | 1 | 84445 | LZTS2 |
| 0.027578298 | 0.691118479 | 0.779 | 1 | 51058 | ZNF691 |
| 0.0275621 | 0.691290557 | 0.794 | 1 | 6204 | RPS10 |
| 0.027529705 | 0.691634953 | 0.782 | 1 | 284185 | LINC00482 |
| 0.027518043 | 0.691758871 | 0.8 | 1 | 5162 | PDHB |
| 0.027510269 | 0.691841543 | 0.793 | 1 | 8287 | USP9Y |
| 0.027502494 | 0.691924214 | 0.806 | 1 | 7044 | LEFTY2 |
| 0.027483057 | 0.692130804 | 0.78 | 1 | 8729 | GBF1 |
| 0.027473986 | 0.692227304 | 0.798 | 1 | 1815 | DRD4 |
| 0.027466211 | 0.692309976 | 0.801 | 1 | 1605 | DAG1 |
| 0.027439 | 0.692599356 | 0.796 | 1 | 3883 | KRT33A |
| 0.027434465 | 0.692647576 | 0.811 | 1 | 338323 | NLRP14 |
| 0.027425395 | 0.692744076 | 0.782 | 1 | 9866 | TRIM66 |
| 0.027416324 | 0.692840576 | 0.808 | 1 | 27156 | RTDR1 |
| 0.027377451 | 0.693254054 | 0.821 | 1 | 6286 | S100P |
| 0.027338577 | 0.69366771 | 0.788 | 1 | 9209 | LRRFIP2 |
| 0.02731007 | 0.693971097 | 0.814 | 1 | 8738 | CRADD |
| 0.027305534 | 0.694019377 | 0.791 | 1 | 6901 | TAZ |
| 0.027295817 | 0.694122791 | 0.804 | 1 | 285527 | FRYL |
| 0.027287394 | 0.694212496 | 0.807 | 1 | 494514 | C18orf56 |
| 0.027276378 | 0.694329739 | 0.787 | 1 | 5954 | RCN1 |
| 0.027275732 | 0.694336593 | 0.775 | 1 | 57584 | ARHGAP21 |
| 0.027258886 | 0.694515944 | 0.799 | 1 | 11079 | RER1 |
| 0.027228436 | 0.694840133 | 0.793 | 1 | 55577 | NAGK |
| 0.027170772 | 0.69545424 | 0.78 | 1 | 254427 | C10orf47 |
| 0.027094968 | 0.696261883 | 0.806 | 1 | 170575 | GIMAP1 |
| 0.027081363 | 0.696406901 | 0.795 | 1 | 401562 | LCNL1 |
| 0.027073588 | 0.696489692 | 0.798 | 1 | 152926 | PPM1K |
| 0.027067756 | 0.696551859 | 0.795 | 1 | 10082 | GPC6 |
| 0.027065814 | 0.696572602 | 0.805 | 1 | 83550 | GPR101 |
| 0.027065165 | 0.696579516 | 0.809 | 1 | 114898 | C1QTNF2 |
| 0.026988065 | 0.697401404 | 0.776 | 1 | 90956 | ADCK2 |
| 0.026971869 | 0.697574079 | 0.792 | 1 | 8857 | FCGBP |
| 0.026923925 | 0.698085368 | 0.792 | 1 | 85014 | TMEM141 |
| 0.026923276 | 0.698092282 | 0.802 | 1 | 29070 | CCDC113 |
| 0.026911614 | 0.698216677 | 0.802 | 1 | 22994 | AZI1 |
| 0.026907727 | 0.698258162 | 0.79 | 1 | 6430 | SFRS5 |
| 0.026898656 | 0.698354959 | 0.796 | 1 | 5337 | PLD1 |
| 0.026896065 | 0.698382556 | 0.776 | 1 | 386682 | KRTAP10-3 |
| 0.026895417 | 0.698389471 | 0.783 | 1 | 7411 | VBP1 |
| 0.026864966 | 0.698714316 | 0.82 | 1 | 4248 | MGAT3 |
| 0.026864318 | 0.69872129 | 0.792 | 1 | 79603 | LASS4 |
| 0.026860431 | 0.698762715 | 0.806 | 1 | 10128 | LRPPRC |
| 0.026856543 | 0.6988042 | 0.813 | 1 | 51659 | GINS2 |
| 0.026853304 | 0.69883877 | 0.806 | 1 | 22821 | RASA3 |
| 0.026835162 | 0.699032366 | 0.811 | 1 | 8703 | B4GALT3 |
| 0.026831275 | 0.699073911 | 0.787 | 1 | 5879 | RAC1 |
| 0.02676519 | 0.699779212 | 0.802 | 1 | 115426 | UHRF2 |
| 0.026735386 | 0.700097442 | 0.803 | 1 | 219957 | OR9Q2 |
| 0.026732147 | 0.700132012 | 0.786 | 1 | 401115 | C4orf48 |
| 0.026723078 | 0.70022887 | 0.795 | 1 | 57763 | ANKRA2 |
| 0.026708174 | 0.700388014 | 0.823 | 1 | 81669 | CCNL2 |
| 0.026687443 | 0.700609446 | 0.766 | 1 | 645715 | EEF1A1P24 |
| 0.026674485 | 0.700747788 | 0.797 | 1 | 89885 | FATE1 |
| 0.026667358 | 0.700823963 | 0.811 | 1 | 1730 | DIAPH2 |

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| 0.011922958 | 0.000352474 | 64326 | RFWD2 |
| 0.01191629 | 0.000355177 | 10666 | CD226 |
| 0.011907051 | 0.00035895 | 6429 | SFRS4 |
| 0.011894061 | 0.000364321 | 245936 | DEFB123 |
| 0.011882391 | 0.000369209 | 2191 | FAP |
| 0.011879751 | 0.000370323 | 29063 | ZCCHC4 |
| 0.011871624 | 0.000373774 | 124751 | KRBA2 |
| 0.011868776 | 0.00037499 | 347744 | C6orf52 |
| 0.01186176 | 0.000378003 | 140688 | C20orf112 |
| 0.011860648 | 0.000378482 | 23326 | USP22 |
| 0.01185002 | 0.000383093 | 2622 | GAS8 |
| 0.01184877 | 0.000383638 | 115024 | NT5C3L |
| 0.011843421 | 0.000385982 | 84919 | PPP1R15B |
| 0.011842657 | 0.000386318 | 1192 | CLIC1 |
| 0.011838489 | 0.000388155 | 147081 | AC126544.1 |
| 0.011836752 | 0.000388923 | 116986 | AGAP2 |
| 0.011835155 | 0.00038963 | 221914 | GPC2 |
| 0.011834738 | 0.000389815 | 1268 | CNR1 |
| 0.011812232 | 0.000399916 | 121130 | OR10P1 |
| 0.011804451 | 0.000403464 | 1293 | COL6A3 |
| 0.011716614 | 0.000459972 | 3912 | LAMB1 |
| 0.01171241 | 0.000447735 | 647979 | LOC647979 |
| 0.011681915 | 0.000463376 | 23403 | FBXO46 |
| 0.011662187 | 0.000473765 | 767846 | PFN1P2 |
| 0.011655726 | 0.000477214 | 916 | CD3E |
| 0.011604114 | 0.000505619 | 340527 | NHSL2 |
| 0.011577927 | 0.000520627 | 220074 | AP000812.2 |
| 0.011546945 | 0.000538919 | 4325 | MMP16 |
| 0.011532566 | 0.000547611 | 27099 | SND1-IT1 |
| 0.011530065 | 0.000549135 | 9949 | AMMECR1 |
| 0.011519507 | 0.000555617 | 23426 | GRIP1 |
| 0.011511726 | 0.000560439 | 219348 | PLAC9 |
| 0.011507489 | 0.000563081 | 100293090 | MTND4P12 |
| 0.011504988 | 0.000564646 | 55876 | GSDMB |
| 0.011496722 | 0.000569847 | 3690 | ITGB3 |
| 0.011484288 | 0.000577756 | 54407 | SLC38A2 |
| 0.011483454 | 0.00057829 | 5791 | PTPRE |
| 0.01147755 | 0.000582084 | 6815 | STYX |
| 0.011470306 | 0.000604921 | 2905 | GRIN2C |
| 0.011466713 | 0.000589109 | 440275 | EIF2AK4 |
| 0.011449416 | 0.000600484 | 55785 | FGD6 |
| 0.011427604 | 0.000615121 | 3105 | HLA-A |
| 0.01141246 | 0.000625477 | 5366 | PMAIP1 |
| 0.011408918 | 0.000627922 | 219623 | TMEM26 |
| 0.011393774 | 0.000638479 | 503693 | LOH12CR2 |
| 0.011391065 | 0.000640385 | 11275 | KLHL2 |
| 0.011383841 | 0.000645493 | 100132724 | DCAF13P3 |
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| 0.011358764 | 0.000663519 | 51373 | MRPS17 |
| 0.011339523 | 0.000677667 | 51503 | CWC15 |
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| 0.011314306 | 0.000696633 | 147138 | TMC8 |
| 0.011302776 | 0.000705469 | 54847 | SIDT1 |
| 0.011300205 | 0.000707454 | 6275 | S100A4 |
| 0.011256304 | 0.000742147 | 440955 | TMEM89 |
| 0.011216222 | 0.000775195 | 285033 | LOC285033 |
| 0.011210804 | 0.000779767 | 10642 | IGF2BP1 |
| 0.011178017 | 0.000807964 | 347741 | OTOP3 |
| 0.011155858 | 0.000827554 | 55630 | AF205589.2 |
| 0.011151064 | 0.000831849 | 29931 | LINC00312 |
| 0.01114905 | 0.00083366 | 8022 | LHX3 |
| 0.011145507 | 0.000836855 | 26974 | ZNF285 |
| 0.011118972 | 0.000861143 | 7410 | VAV2 |
| 0.011110358 | 0.000869167 | 145501 | ISM2 |
| 0.011070693 | 0.000907018 | 4800 | NFYA |
| 0.011062774 | 0.000914756 | 60468 | BACH2 |
| 0.011061524 | 0.000915983 | 57657 | HCN3 |
| 0.011032974 | 0.000944424 | 8618 | CADPS |
| 0.011003034 | 0.000975126 | 221035 | REEP3 |
| 0.011001228 | 0.000977009 | 11041 | AP001107.1 |
| 0.0109881 | 0.000990785 | 159195 | USP54 |
| 0.010978722 | 0.001000737 | 729993 | AC092324.1 |
| 0.010976013 | 0.001003627 | 51367 | POP5 |
| 0.010973304 | 0.001006527 | 100418883 | LOC100418883 |
| 0.010953993 | 0.001027422 | 1266 | CNN3 |
| 0.010953853 | 0.001027575 | 11082 | ESM1 |
| 0.010952742 | 0.001028788 | 125488 | TTC39C |
| 0.010938988 | 0.001043934 | 79774 | GRTP1 |
| 0.01090363 | 0.001083818 | 55249 | YY1AP1 |
| 0.01090238 | 0.001085255 | 57587 | KIAA1430 |

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|---|---|---|---|---|---|
| 0.026648568 | 0.701024652 | 0.808 | 1 | 2350 | FOLR2 |
| 0.026638851 | 0.701128483 | 0.8 | 1 | 4522 | MTHFD1 |
| 0.026637554 | 0.701142311 | 0.795 | 1 | 90952 | ESAM |
| 0.026622653 | 0.701301515 | 0.794 | 1 | 3111 | HLA-DOA |
| 0.026577299 | 0.701786101 | 0.807 | 1 | 9114 | ATP6V0D1 |
| 0.026564343 | 0.701924562 | 0.804 | 1 | 51105 | PHF20L1 |
| 0.026520286 | 0.702395499 | 0.795 | 1 | 847 | CAT |
| 0.026506033 | 0.702547908 | 0.788 | 1 | 64072 | CDH23 |
| 0.026458735 | 0.703053594 | 0.789 | 1 | 644578 | LARP1BP1 |
| 0.026447721 | 0.703171372 | 0.788 | 1 | 3043 | HBB |
| 0.026412087 | 0.703552485 | 0.806 | 1 | 409 | ARRB2 |
| 0.026408199 | 0.703594089 | 0.786 | 1 | 10481 | HOXB13 |
| 0.026408199 | 0.703594089 | 0.788 | 1 | 84221 | C21orf56 |
| 0.026366735 | 0.704037666 | 0.807 | 1 | 25923 | ATL3 |
| 0.02635248 | 0.704190195 | 0.781 | 1 | 5549 | PRELP |
| 0.026351834 | 0.704197109 | 0.803 | 1 | 5201 | PFDN1 |
| 0.026344705 | 0.704273343 | 0.82 | 1 | 25961 | NUDT13 |
| 0.026329804 | 0.704432786 | 0.797 | 1 | 51054 | PLEKHA9 |
| 0.026292874 | 0.704828024 | 0.781 | 1 | 7045 | TGFBI |
| 0.026256593 | 0.705216408 | 0.789 | 1 | 8445 | DYRK2 |
| 0.026210591 | 0.705708921 | 0.784 | 1 | 100506084 | AC005829.1 |
| 0.026200874 | 0.705812991 | 0.797 | 1 | 2835 | GPR12 |
| 0.026191154 | 0.70591706 | 0.796 | 1 | 400410 | ST20 |
| 0.026182732 | 0.706007302 | 0.808 | 1 | 164395 | TTLL9 |
| 0.026163295 | 0.706215441 | 0.807 | 1 | 113878 | DTX2 |
| 0.026147746 | 0.706381977 | 0.798 | 1 | 80183 | C13orf18 |
| 0.026132196 | 0.706548572 | 0.815 | 1 | 7252 | TSHB |
| 0.026130253 | 0.706569374 | 0.802 | 1 | 63940 | GPSM3 |
| 0.026103688 | 0.706853986 | 0.808 | 1 | 8277 | TKTL1 |
| 0.026040843 | 0.707527459 | 0.804 | 1 | 2357 | FPR1 |
| 0.02602659 | 0.707680225 | 0.796 | 1 | 57530 | CGN |
| 0.026025942 | 0.70768714 | 0.795 | 1 | 57139 | RGL3 |
| 0.026023351 | 0.707714915 | 0.807 | 1 | 201475 | RAB12 |
| 0.026008448 | 0.707874656 | 0.801 | 1 | 56124 | PCDHB12 |
| 0.025983829 | 0.708138585 | 0.806 | 1 | 201305 | SPNS3 |
| 0.025978645 | 0.708194137 | 0.798 | 1 | 60678 | EEFSEC |
| 0.02593394 | 0.708673537 | 0.798 | 1 | 79856 | SNX22 |
| 0.025924223 | 0.708777726 | 0.799 | 1 | 26054 | SENP6 |
| 0.025901547 | 0.709020913 | 0.808 | 1 | 64427 | TTC31 |
| 0.025884701 | 0.709201634 | 0.788 | 1 | 64581 | CLEC7A |
| 0.025859432 | 0.709472716 | 0.809 | 1 | 22897 | CEP164 |
| 0.025851658 | 0.709556103 | 0.812 | 1 | 6415 | SEPW1 |
| 0.025842587 | 0.709653437 | 0.833 | 1 | 11250 | GPR45 |
| 0.025839996 | 0.709681213 | 0.801 | 1 | 2717 | GLA |
| 0.02581732 | 0.709924519 | 0.82 | 1 | 162632 | AC022596.6 |
| 0.025804361 | 0.710063636 | 0.792 | 1 | 10588 | MTHFS |
| 0.025797235 | 0.710140049 | 0.806 | 1 | 129080 | EMID1 |
| 0.025792699 | 0.710188746 | 0.808 | 1 | 124935 | SLC43A2 |
| 0.025770023 | 0.710432112 | 0.818 | 1 | 23135 | KDM6B |
| 0.02576484 | 0.710487783 | 0.795 | 1 | 284114 | TMEM102 |
| 0.025738925 | 0.710765958 | 0.803 | 1 | 146852 | ODF4 |
| 0.025691628 | 0.71127373 | 0.797 | 1 | 115827 | RAB3C |
| 0.025678022 | 0.71141988 | 0.819 | 1 | 114659 | LRRC37B |
| 0.025667656 | 0.711531162 | 0.803 | 1 | 54847 | SIDT1 |
| 0.025615176 | 0.712094784 | 0.81 | 1 | 286140 | RNF5P1 |
| 0.025569176 | 0.712589025 | 0.818 | 1 | 114625 | ERMAP |
| 0.025567232 | 0.712609887 | 0.809 | 1 | 54617 | INO80 |
| 0.025531597 | 0.712992847 | 0.794 | 1 | 79966 | SCD5 |
| 0.02552188 | 0.713097274 | 0.807 | 1 | 574407 | C1orf145 |
| 0.025514752 | 0.713173866 | 0.799 | 1 | 8353 | HIST1H3E |
| 0.02549726 | 0.713361919 | 0.798 | 1 | 23645 | PPP1R15A |
| 0.025446724 | 0.713905156 | 0.815 | 1 | 10904 | BLCAP |
| 0.025439598 | 0.713981807 | 0.804 | 1 | 670 | BPHL |
| 0.025437653 | 0.714002669 | 0.827 | 1 | 23556 | PIGN |
| 0.025437005 | 0.714009643 | 0.812 | 1 | 349565 | NMNAT3 |
| 0.025411738 | 0.714281321 | 0.816 | 1 | 9088 | PKMYT1 |
| 0.025376104 | 0.714664578 | 0.822 | 1 | 3823 | KLRC3 |
| 0.025350835 | 0.714936376 | 0.81 | 1 | 442075 | AC034193.5 |
| 0.025329454 | 0.71516639 | 0.802 | 1 | 135935 | NOBOX |
| 0.025297061 | 0.715514958 | 0.826 | 1 | 3714 | JAG2 |
| 0.02529382 | 0.715549767 | 0.816 | 1 | 9542 | NRG2 |
| 0.025288638 | 0.715605557 | 0.812 | 1 | 10328 | COX4NB |
| 0.025282806 | 0.715668261 | 0.806 | 1 | 11000 | SLC27A3 |
| 0.025247172 | 0.716051817 | 0.808 | 1 | 1595 | CYP51A1 |
| 0.025238102 | 0.71614939 | 0.791 | 1 | 354 | KLK3 |
| 0.025227087 | 0.716267943 | 0.805 | 1 | 90410 | IFT20 |
| 0.025218664 | 0.716358662 | 0.817 | 1 | 11282 | MGAT4B |
| 0.02518951 | 0.71667248 | 0.807 | 1 | 5910 | RAP1GDS1 |
| 0.025184974 | 0.716721296 | 0.799 | 1 | 124912 | SPACA3 |
| 0.025184326 | 0.71672827 | 0.803 | 1 | 150160 | CESK1 |
| 0.025148692 | 0.717112005 | 0.807 | 1 | 6014 | RIT2 |

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| 0.010873344 | 0.001119097 | 23517 | SKIV2L2 |
| 0.01087244 | 0.001120165 | 137868 | SGCZ |
| 0.010866744 | 0.001126925 | 266655 | LINC00094 |
| 0.010841043 | 0.001157891 | 56936 | C14orf162 |
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| 0.010791586 | 0.001223016 | 57730 | ANKRD36B |
| 0.010769146 | 0.001248742 | 6885 | MAP3K7 |
| 0.010740457 | 0.001286798 | 22797 | TFEC |
| 0.010737539 | 0.00129073 | 283209 | PGM2L1 |
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| 0.010725244 | 0.001307412 | 11338 | U2AF2 |
| 0.010714824 | 0.001321704 | 403239 | OR2T27 |
| 0.010710379 | 0.001327845 | 283663 | AC016525.1 |
| 0.01067516 | 0.00137744 | 8912 | CACNA1H |
| 0.010665643 | 0.001391132 | 114548 | NLRP3 |
| 0.010662726 | 0.001395353 | 219983 | OR4D6 |
| 0.010657724 | 0.001402621 | 54058 | C21orf58 |
| 0.010652028 | 0.001410938 | 2631 | GBAS |
| 0.01063362 | 0.00143813 | 6161 | RPL32 |
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| 0.010611739 | 0.001471082 | 64849 | SLC13A3 |
| 0.010602847 | 0.00148467 | 54870 | QRICH1 |
| 0.010599582 | 0.001489686 | 223 | ALDH9A1 |
| 0.010589858 | 0.001504725 | 57120 | GOPC |
| 0.010579229 | 0.001521323 | 10514 | MYBBP1A |
| 0.010537689 | 0.001587822 | 6876 | TAGLN |
| 0.010535883 | 0.001590773 | 115426 | UHRF2 |
| 0.010535238 | 0.001632949 | 57168 | ASPHD2 |
| 0.010528659 | 0.001602627 | 81888 | HYI |
| 0.010522476 | 0.001612835 | 55200 | PLEKHG6 |
| 0.010502331 | 0.00164652 | 126868 | C1orf161 |
| 0.010494759 | 0.001659347 | 3676 | ITGA4 |
| 0.010483298 | 0.001678937 | 348 | APOE |
| 0.010452247 | 0.001733087 | 23078 | KIAA0564 |
| 0.010450024 | 0.001737026 | 81553 | FAM49A |
| 0.010447315 | 0.001741836 | 9601 | PDIA4 |
| 0.010438562 | 0.001757459 | 2357 | FPR1 |
| 0.010427587 | 0.001777231 | 55705 | IPO9 |
| 0.010421682 | 0.001787954 | 93979 | CPA5 |
| 0.010385005 | 0.001855898 | 56946 | C11orf30 |
| 0.010376669 | 0.001871666 | 122183 | PRR20 |
| 0.010361735 | 0.001900228 | 55906 | ZC4H2 |
| 0.010353121 | 0.001916881 | 90634 | N4BP2L1 |
| 0.010325751 | 0.001970693 | 729830 | FAM160A1 |
| 0.010314012 | 0.001994195 | 10274 | STAG1 |
| 0.010293173 | 0.002036551 | 340542 | BEX5 |
| 0.010292755 | 0.002037406 | 2627 | GATA6 |
| 0.010292061 | 0.002038834 | 23533 | PIK3R5 |
| 0.010286712 | 0.00204985 | 51727 | CMPK1 |
| 0.010278793 | 0.002066259 | 10742 | RAI2 |
| 0.01026226 | 0.002100903 | 60685 | ZFAND3 |
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| 0.010252605 | 0.00212138 | 4862 | NPAS2 |
| 0.010214261 | 0.00220453 | 140767 | NRSN1 |
| 0.010208425 | 0.002217443 | 55312 | RFK |
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| 0.010173485 | 0.002296217 | 6801 | STRN |
| 0.010161258 | 0.002324384 | 9423 | NTN1 |
| 0.010151256 | 0.002347661 | 83594 | NUDT12 |
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| 0.010146671 | 0.0023584 | 441531 | PGAM4 |
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| 0.010140141 | 0.002373776 | 727957 | HEATR7A |
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| 0.010134306 | 0.002387591 | 375346 | TMEM110 |
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| 0.010050393 | 0.002594597 | 148930 | KNCN |
| 0.010049003 | 0.002598162 | 28969 | BZW2 |
| 0.010032818 | 0.002639982 | 23067 | SETD1B |
| 0.010027896 | 0.002656764 | 23075 | SWAP70 |
| 0.010025593 | 0.002658847 | 200523 | C2orf51 |
| 0.010018717 | 0.002676918 | 9060 | PAPSS2 |
| 0.009974884 | 0.002794764 | 56113 | PCDHGA2 |
| 0.009968493 | 0.00281234 | 3773 | KCNJ16 |
| 0.009963006 | 0.002827505 | 5140 | PDE3B |
| 0.009951058 | 0.002860796 | 8971 | H1FX |
| 0.009941194 | 0.002888541 | 7013 | TERF1 |

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| 0.025107227 | 0.717558563 | 0.815 | 1 | 4105 | MAGEA6 |
| 0.025064465 | 0.718019187 | 0.798 | 1 | 775 | CACNA1C |
| 0.025064465 | 0.718019187 | 0.823 | 1 | 8453 | CUL2 |
| 0.025035311 | 0.718333304 | 0.803 | 1 | 100131482 | LOC100131482 |
| 0.025027536 | 0.718417048 | 0.808 | 1 | 83608 | C18orf21 |
| 0.024987366 | 0.718849957 | 0.811 | 1 | 10025 | MED16 |
| 0.024982831 | 0.718898773 | 0.803 | 1 | 23098 | SARM1 |
| 0.024967281 | 0.719066441 | 0.798 | 1 | 57393 | TMEM27 |
| 0.024946548 | 0.719289899 | 0.798 | 1 | 83594 | NUDT12 |
| 0.024934886 | 0.719415605 | 0.829 | 1 | 10298 | PAK4 |
| 0.024932943 | 0.719436526 | 0.79 | 1 | 643641 | ZNF862 |
| 0.024914155 | 0.719639122 | 0.806 | 1 | 4734 | NEDD4 |
| 0.024901196 | 0.719778836 | 0.807 | 1 | 196385 | DNAH10 |
| 0.024896661 | 0.719827712 | 0.799 | 1 | 10969 | EBNA1BP2 |
| 0.024880463 | 0.720002353 | 0.827 | 1 | 55331 | ACER3 |
| 0.024870746 | 0.720107198 | 0.817 | 1 | 8334 | HIST1H2AC |
| 0.024831871 | 0.720526457 | 0.83 | 1 | 55689 | YEATS2 |
| 0.024789758 | 0.720980704 | 0.803 | 1 | 81629 | TSSK3 |
| 0.024747645 | 0.72143507 | 0.825 | 1 | 256281 | NUDT14 |
| 0.024695814 | 0.72199446 | 0.793 | 1 | 79639 | TMEM53 |
| 0.024693221 | 0.722022414 | 0.837 | 1 | 431707 | LHX8 |
| 0.024692575 | 0.722029388 | 0.801 | 1 | 9889 | ZBED4 |
| 0.024670545 | 0.72226721 | 0.818 | 1 | 3232 | HOXD3 |
| 0.024664067 | 0.722337127 | 0.831 | 1 | 5005 | ORM2 |
| 0.024635559 | 0.722644925 | 0.816 | 1 | 124274 | GPR139 |
| 0.024625842 | 0.722749829 | 0.8 | 1 | 653464 | SRGAP2C |
| 0.024614826 | 0.722868741 | 0.799 | 1 | 2487 | FRZB |
| 0.024577249 | 0.723274529 | 0.793 | 1 | 246705 | LINC00314 |
| 0.024569474 | 0.723358512 | 0.813 | 1 | 147968 | CAPN12 |
| 0.02454615 | 0.723610401 | 0.775 | 1 | 54932 | EXD3 |
| 0.02452153 | 0.723876417 | 0.817 | 1 | 5860 | QDPR |
| 0.024482656 | 0.724296391 | 0.821 | 1 | 11104 | KATNA1 |
| 0.024450261 | 0.724646449 | 0.804 | 1 | 10255 | HCG9 |
| 0.024430824 | 0.724856496 | 0.823 | 1 | 2329 | FMO4 |
| 0.024409443 | 0.725087583 | 0.821 | 1 | 84735 | CNDP1 |
| 0.024334287 | 0.725900114 | 0.81 | 1 | 10512 | SEMA3C |
| 0.024332345 | 0.725921154 | 0.809 | 1 | 29924 | EPN1 |
| 0.024326513 | 0.725984216 | 0.83 | 1 | 129831 | RBM45 |
| 0.024316795 | 0.726089299 | 0.806 | 1 | 25976 | TIPARP |
| 0.02431226 | 0.726138353 | 0.795 | 1 | 9855 | FARP2 |
| 0.02430254 | 0.726243436 | 0.828 | 1 | 84734 | FAM167B |
| 0.024299949 | 0.726271451 | 0.839 | 1 | 8907 | AP1M1 |
| 0.024299949 | 0.726271451 | 0.848 | 1 | 64130 | LIN7B |
| 0.024278568 | 0.726502717 | 0.823 | 1 | 54386 | TERF2IP |
| 0.024255244 | 0.726755023 | 0.84 | 1 | 440017 | DUX4L15 |
| 0.02425395 | 0.72676897 | 0.831 | 1 | 85459 | KIAA1731 |
| 0.024243582 | 0.726881146 | 0.817 | 1 | 255967 | PAN3 |
| 0.024225442 | 0.727077425 | 0.829 | 1 | 5026 | P2RX5 |
| 0.024196934 | 0.727385879 | 0.804 | 1 | 125893 | ZNF816A |
| 0.024196286 | 0.727392852 | 0.813 | 1 | 388722 | C1orf53 |
| 0.024182033 | 0.727547109 | 0.787 | 1 | 8193 | DPF1 |
| 0.024152229 | 0.72786963 | 0.823 | 1 | 9584 | RBM39 |
| 0.024120482 | 0.72821331 | 0.821 | 1 | 51296 | SLC15A3 |
| 0.024108173 | 0.728346527 | 0.835 | 1 | 6615 | SNAI1 |
| 0.024060229 | 0.728865623 | 0.833 | 1 | 10556 | RPP30 |
| 0.024032369 | 0.729167283 | 0.828 | 1 | 6611 | SMS |
| 0.024020707 | 0.729293585 | 0.84 | 1 | 124783 | C17orf46 |
| 0.023986368 | 0.729665458 | 0.833 | 1 | 55027 | HEATR3 |
| 0.023984425 | 0.729686558 | 0.839 | 1 | 219482 | OR5M3 |
| 0.023943607 | 0.730128765 | 0.842 | 1 | 5430 | POLR2A |
| 0.023933889 | 0.730234027 | 0.813 | 1 | 795 | S100G |
| 0.023931945 | 0.730255067 | 0.821 | 1 | 4340 | MOG |
| 0.023908621 | 0.730507851 | 0.851 | 1 | 50617 | ATP6V0A4 |
| 0.023907972 | 0.730514824 | 0.808 | 1 | 2737 | GLI3 |
| 0.02389955 | 0.730606139 | 0.831 | 1 | 257364 | SNX33 |
| 0.023897607 | 0.730627179 | 0.809 | 1 | 3344 | FOXN2 |
| 0.023888536 | 0.730725467 | 0.819 | 1 | 340543 | TCEAL5 |
| 0.023851607 | 0.731125712 | 0.842 | 1 | 59286 | UBL5 |
| 0.023826338 | 0.731399596 | 0.824 | 1 | 389075 | RESP18 |
| 0.023823099 | 0.731434762 | 0.828 | 1 | 729171 | ANKRD20A8P |
| 0.023805605 | 0.731624365 | 0.826 | 1 | 4796 | NFKBIL2 |
| 0.023783578 | 0.731863201 | 0.832 | 1 | 200726 | LOC200726 |
| 0.023764141 | 0.732073963 | 0.802 | 1 | 728175 | AC103540.1 |
| 0.023755718 | 0.732165337 | 0.82 | 1 | 58476 | TP53INP2 |
| 0.023719436 | 0.732558787 | 0.844 | 1 | 57650 | KIAA1524 |
| 0.023704534 | 0.732720435 | 0.837 | 1 | 731789 | RP13-16H11.1 |
| 0.023674082 | 0.733050764 | 0.833 | 1 | 51693 | TRAPPC2L |
| 0.023663068 | 0.733170271 | 0.808 | 1 | 728533 | LOC728533 |
| 0.02366242 | 0.733177304 | 0.809 | 1 | 4689 | NCF4 |
| 0.023657886 | 0.733226478 | 0.808 | 1 | 26576 | SRPK3 |
| 0.023646871 | 0.733345985 | 0.821 | 1 | 4363 | ABCC1 |

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| 0.009940152 | 0.002891487 | 122042 | RXFP2 |
| 0.009930705 | 0.00291832 | 3699 | ITIH3 |
| 0.009915561 | 0.002961807 | 8676 | STX11 |
| 0.009912505 | 0.002970655 | 22903 | BTBD3 |
| 0.009897986 | 0.003013014 | 25873 | RPL36 |
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| 0.00988069 | 0.0030642 | 7325 | UBE2E2 |
| 0.009865963 | 0.003108406 | 9772 | KIAA0195 |
| 0.00985207 | 0.003150638 | 9275 | BCL7B |
| 0.009845888 | 0.0031696 | 27247 | NFU1 |
| 0.009831231 | 0.003214969 | 126133 | ALDH16A1 |
| 0.009823937 | 0.003237768 | 346653 | FAM71F2 |
| 0.009777326 | 0.003386965 | 64795 | RMND5A |
| 0.009773227 | 0.003400379 | 54532 | USP53 |
| 0.009754889 | 0.003460991 | 54799 | MBTD1 |
| 0.009743427 | 0.003499375 | 3976 | LIF |
| 0.009741344 | 0.003506397 | 5137 | PDE1C |
| 0.009733702 | 0.003532245 | 8074 | FGF23 |
| 0.009728562 | 0.003549731 | 9320 | TRIP12 |
| 0.009720365 | 0.003577781 | 5156 | PDGFRA |
| 0.00970015 | 0.003647815 | 6512 | SLC1A7 |
| 0.009688967 | 0.003687096 | 353145 | LCE3E |
| 0.009688133 | 0.003690036 | 8771 | TNFRSF6B |
| 0.009685979 | 0.003697652 | 51091 | SEPSECS |
| 0.009609915 | 0.003975887 | 79081 | C11orf48 |
| 0.009605886 | 0.003991142 | 286002 | AC078937.4 |
| 0.009578239 | 0.004097262 | 150244 | ZDHHC8P1 |
| 0.009544827 | 0.004228921 | 23568 | ARL2BP |
| 0.009539895 | 0.004248684 | 10984 | KCNQ1OT1 |
| 0.009535588 | 0.004265999 | 402176 | RPL21P44 |
| 0.009514888 | 0.004350147 | 1912 | PHC2 |
| 0.009489464 | 0.004455555 | 27077 | B9D1 |
| 0.00945883 | 0.004585629 | 449520 | GGNBP1 |
| 0.009452994 | 0.004610798 | 1896 | EDA |
| 0.009389434 | 0.004893111 | 6608 | SMO |
| 0.009381306 | 0.004930313 | 1019 | CDK4 |
| 0.00936922 | 0.004986119 | 5580 | PRKCD |
| 0.009364357 | 0.005008725 | 81872 | KRTAP2-3 |
| 0.009346366 | 0.005093185 | 100130449 | AC110619.2 |
| 0.009336849 | 0.005138388 | 144453 | BEST3 |
| 0.009295031 | 0.005341316 | 3643 | INSR |
| 0.009293851 | 0.005347156 | 84280 | BTBD10 |
| 0.009283361 | 0.005399231 | 22973 | LAMB2P1 |
| 0.009281971 | 0.005406168 | 2261 | FGFR3 |
| 0.009279471 | 0.005418661 | 84807 | NFKBID |
| 0.009264119 | 0.005495955 | 441212 | RP9P |
| 0.009213202 | 0.005759484 | 79977 | GRHL2 |
| 0.009185624 | 0.005906921 | 9001 | HAP1 |
| 0.009137971 | 0.006169732 | 2551 | GABPA |
| 0.00906288 | 0.006605266 | 116179 | TGM7 |
| 0.009038497 | 0.006752525 | 8938 | BAIAP3 |
| 0.009023771 | 0.00684289 | 5644 | PRSS1 |
| 0.009020575 | 0.006862641 | 85477 | SCIN |
| 0.008993067 | 0.007034792 | 54910 | SEMA4C |
| 0.008968824 | 0.007189719 | 129852 | C2orf73 |
| 0.008963892 | 0.007221601 | 440503 | AC011498.2 |
| 0.008933536 | 0.007420691 | 5528 | PPP2R5D |
| 0.008904708 | 0.007614309 | 6168 | RPL37A |
| 0.008888592 | 0.00772449 | 347442 | DCAF8L2 |
| 0.008883035 | 0.007762823 | 85013 | TMEM128 |
| 0.008875532 | 0.007814844 | 151449 | GDF7 |
| 0.008864696 | 0.007890519 | 930 | CD19 |
| 0.008864696 | 0.007890519 | 9919 | SEC16A |
| 0.008856916 | 0.007945261 | 53828 | FXYD4 |
| 0.008840383 | 0.008062718 | 1390 | CREM |
| 0.008785714 | 0.008462254 | 51379 | CRLF3 |
| 0.00877974 | 0.008506969 | 731157 | LOC731157 |
| 0.008779115 | 0.008511662 | 7507 | XPA |
| 0.008763138 | 0.008632354 | 150465 | TTL |
| 0.008761471 | 0.008645031 | 346528 | OR2A1 |
| 0.008760915 | 0.008649261 | 148109 | FAM187B |
| 0.008759595 | 0.008659315 | 55609 | ZNF280C |
| 0.00874216 | 0.008793131 | 5338 | PLD2 |
| 0.008736324 | 0.008838339 | 6010 | RHO |
| 0.008691659 | 0.009191228 | 283349 | RASSF3 |
| 0.008678322 | 0.00929901 | 2810 | SFN |
| 0.008666095 | 0.00939881 | 57666 | FBRSL1 |
| 0.00857989 | 0.010129981 | 401913 | LOC401913 |
| 0.008571068 | 0.010207599 | 57048 | PLSCR3 |
| 0.008559884 | 0.010306749 | 83695 | C12orf32 |
| 0.008508272 | 0.010775508 | 2896 | GRN |

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| 0.023609942 | 0.733746707 | 0.814 | 1 | 81563 | C1orf21 |
| 0.023596335 | 0.733894348 | 0.826 | 1 | 90338 | ZNF160 |
| 0.023534786 | 0.734562397 | 0.805 | 1 | 85439 | STON2 |
| 0.023523772 | 0.734682024 | 0.828 | 1 | 10093 | ARPC4 |
| 0.02345963 | 0.735378504 | 0.821 | 1 | 114818 | KLHL29 |
| 0.023395488 | 0.736075163 | 0.841 | 1 | 988 | CDC5L |
| 0.023387065 | 0.736166656 | 0.819 | 1 | 57519 | STARD9 |
| 0.02338253 | 0.736215949 | 0.834 | 1 | 339501 | MPN2 |
| 0.023362445 | 0.736434162 | 0.832 | 1 | 84268 | RPAIN |
| 0.023351431 | 0.736553788 | 0.831 | 1 | 84869 | CBR4 |
| 0.023330698 | 0.736779094 | 0.821 | 1 | 8832 | CD84 |
| 0.023314502 | 0.736955106 | 0.826 | 1 | 252839 | TMEM9 |
| 0.023302838 | 0.737081826 | 0.837 | 1 | 114132 | SIGLEC11 |
| 0.023273684 | 0.737398744 | 0.84 | 1 | 83551 | TAAR8 |
| 0.023271093 | 0.737426877 | 0.835 | 1 | 392490 | FLJ44635 |
| 0.023228331 | 0.737891734 | 0.811 | 1 | 64376 | IKZF5 |
| 0.023199176 | 0.738208711 | 0.853 | 1 | 54968 | TMEM70 |
| 0.02318557 | 0.738356709 | 0.802 | 1 | 388581 | FAM132A |
| 0.02317002 | 0.738525808 | 0.825 | 1 | 51573 | GDE1 |
| 0.023149287 | 0.738751292 | 0.829 | 1 | 642909 | LOC642909 |
| 0.023136977 | 0.738885164 | 0.836 | 1 | 646019 | CBY3 |
| 0.023121428 | 0.739054322 | 0.829 | 1 | 56 | ACRV1 |
| 0.023112359 | 0.739152968 | 0.83 | 1 | 10008 | KCNE3 |
| 0.023054695 | 0.739780307 | 0.826 | 1 | 4494 | MT1F |
| 0.023030723 | 0.740041137 | 0.845 | 1 | 138428 | PTRH1 |
| 0.023023596 | 0.740118682 | 0.831 | 1 | 84675 | TRIM55 |
| 0.023015173 | 0.740210414 | 0.812 | 1 | 9547 | CXCL14 |
| 0.022992497 | 0.740457177 | 0.809 | 1 | 8338 | HIST2H2AC |
| 0.02298861 | 0.740499496 | 0.843 | 1 | 84277 | DNAJC30 |
| 0.022965934 | 0.740746319 | 0.832 | 1 | 27147 | DENND2A |
| 0.02296075 | 0.740802705 | 0.839 | 1 | 6688 | SPI1 |
| 0.022940665 | 0.741021395 | 0.822 | 1 | 57016 | AKR1B10 |
| 0.022864861 | 0.7418468 | 0.814 | 1 | 25766 | PRPF40B |
| 0.022861622 | 0.741882086 | 0.843 | 1 | 3190 | HNRNPK |
| 0.022854496 | 0.741959691 | 0.822 | 1 | 3684 | ITGAM |
| 0.02280979 | 0.742446661 | 0.834 | 1 | 56851 | C15orf24 |
| 0.022792298 | 0.742637217 | 0.818 | 1 | 84867 | PTPN5 |
| 0.022781931 | 0.742750168 | 0.811 | 1 | 54854 | FAM83E |
| 0.022761846 | 0.742968976 | 0.841 | 1 | 221150 | C13orf3 |
| 0.022729453 | 0.743321955 | 0.808 | 1 | 83481 | EPPK1 |
| 0.022708071 | 0.743555009 | 0.835 | 1 | 55860 | ACTR10 |
| 0.022692522 | 0.743724465 | 0.831 | 1 | 56252 | YLPM1 |
| 0.022682803 | 0.743830383 | 0.834 | 1 | 388536 | ZNF790 |
| 0.022674382 | 0.743922234 | 0.85 | 1 | 55924 | C1orf183 |
| 0.022669846 | 0.743971646 | 0.811 | 1 | 64919 | BCL11B |
| 0.022658184 | 0.744098783 | 0.83 | 1 | 3265 | HRAS |
| 0.022623844 | 0.744473159 | 0.844 | 1 | 117289 | TAGAP |
| 0.022611534 | 0.744607329 | 0.851 | 1 | 151827 | LRRC34 |
| 0.022608295 | 0.744642675 | 0.829 | 1 | 202051 | AC135457.3 |
| 0.022599226 | 0.744741559 | 0.833 | 1 | 4247 | MGAT2 |
| 0.022583028 | 0.744918227 | 0.857 | 1 | 130576 | LYPD6B |
| 0.022557111 | 0.745200872 | 0.834 | 1 | 8321 | FZD1 |
| 0.022550633 | 0.745271504 | 0.831 | 1 | 122553 | TRAPPC6B |
| 0.02254221 | 0.745363355 | 0.838 | 1 | 5610 | EIF2AK2 |
| 0.022538323 | 0.745405793 | 0.822 | 1 | 170591 | S100Z |
| 0.02252407 | 0.745561242 | 0.857 | 1 | 84905 | ZNF341 |
| 0.022522774 | 0.745575368 | 0.832 | 1 | 5108 | PCM1 |
| 0.022522774 | 0.745575368 | 0.818 | 1 | 24141 | C20orf103 |
| 0.022519534 | 0.745610714 | 0.832 | 1 | 4259 | MGST3 |
| 0.022516295 | 0.74564606 | 0.833 | 1 | 127795 | C1orf87 |
| 0.02247159 | 0.746133745 | 0.849 | 1 | 11253 | MAN1B1 |
| 0.022445673 | 0.746416569 | 0.846 | 1 | 10952 | SEC61B |
| 0.022441139 | 0.746466041 | 0.814 | 1 | 353323 | KRTAP12-2 |
| 0.022440491 | 0.746473134 | 0.837 | 1 | 83478 | ARHGAP24 |
| 0.02242559 | 0.746635735 | 0.832 | 1 | 7299 | TYR |
| 0.022420406 | 0.7466923 | 0.826 | 1 | 4101 | MAGEA2 |
| 0.022408744 | 0.746819556 | 0.838 | 1 | 8766 | RAB11A |
| 0.02239773 | 0.746939778 | 0.829 | 1 | 5909 | RAP1GAP |
| 0.022374406 | 0.74719435 | 0.833 | 1 | 50814 | NSDHL |
| 0.022354322 | 0.747413635 | 0.824 | 1 | 80216 | ALPK1 |
| 0.022353673 | 0.747420669 | 0.81 | 1 | 79777 | ACBD4 |
| 0.022312207 | 0.747873366 | 0.85 | 1 | 64319 | FBRS |
| 0.022275278 | 0.748276651 | 0.84 | 1 | 79646 | PANK3 |
| 0.022230573 | 0.748764932 | 0.837 | 1 | 56918 | C2orf83 |
| 0.022221502 | 0.748863995 | 0.837 | 1 | 344405 | NCRNA00117 |
| 0.022198826 | 0.749111712 | 0.828 | 1 | 727 | C5 |
| 0.02219753 | 0.749125898 | 0.835 | 1 | 151651 | EFHB |
| 0.022156714 | 0.7495718 | 0.829 | 1 | 7873 | ARMET |
| 0.022156065 | 0.749578893 | 0.83 | 1 | 4174 | MCM5 |
| 0.022154121 | 0.749600172 | 0.816 | 1 | 129607 | CMPK2 |
| 0.02212367 | 0.749932885 | 0.835 | 1 | 5900 | RALGDS |

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| 0.008501672 | 0.010836796 | 9436 | NCR2 |
| 0.008477082 | 0.011067894 | 10385 | BTN2A2 |
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| 0.008449643 | 0.011330909 | 112812 | FDX1L |
| 0.008447628 | 0.011350435 | 84449 | ZNF333 |
| 0.008340166 | 0.012436396 | 339044 | PKD1P1 |
| 0.008338013 | 0.012459066 | 55230 | USP40 |
| 0.008326343 | 0.01258256 | 80223 | RAB11FIP1 |
| 0.008322175 | 0.012626939 | 23099 | ZBTB43 |
| 0.008300224 | 0.012862904 | 5138 | PDE2A |
| 0.008293555 | 0.012935361 | 6939 | TCF15 |
| 0.008281468 | 0.013067615 | 84639 | IL1F10 |
| 0.008265422 | 0.013245024 | 10794 | ZNF460 |
| 0.008262019 | 0.013282922 | 391769 | H3.Y |
| 0.008257781 | 0.013330257 | 646019 | CBY3 |
| 0.008255767 | 0.013352801 | 9957 | HS3ST1 |
| 0.008255072 | 0.013360583 | 219793 | C10orf27 |
| 0.008252571 | 0.013388645 | 170850 | KCNG3 |
| 0.008242359 | 0.01350375 | 5582 | PRKCG |
| 0.00823201 | 0.0136213 | 716 | C1S |
| 0.008229854 | 0.013646428 | 25841 | ABTB2 |
| 0.008224994 | 0.013701488 | 3228 | HOXC12 |
| 0.008224021 | 0.013712645 | 3633 | INPP5B |
| 0.008219923 | 0.013759716 | 284402 | SCGBL |
| 0.008210684 | 0.013866363 | 124056 | NOXO1 |
| 0.008191858 | 0.014085917 | 284573 | C1orf157 |
| 0.008149138 | 0.014595587 | 54497 | HEATR5B |
| 0.008141913 | 0.014683355 | 125113 | KRT222 |
| 0.008140925 | 0.014932156 | 9452 | ITM2A |
| 0.008119893 | 0.014953788 | 55616 | ASAP3 |
| 0.008111279 | 0.015060751 | 256006 | ANKRD31 |
| 0.008090162 | 0.015325866 | 2678 | GGT1 |
| 0.008087522 | 0.015359279 | 342898 | SYCN |
| 0.008066961 | 0.015621854 | 6191 | RPS4X |
| 0.008062863 | 0.015674645 | 5077 | PAX3 |
| 0.008049664 | 0.015845779 | 4084 | MXD1 |
| 0.007982909 | 0.016736707 | 115825 | WDFY2 |
| 0.007976864 | 0.016819503 | 5717 | PSMD11 |
| 0.007963944 | 0.016997693 | 2691 | GHRH |
| 0.007952205 | 0.017161036 | 1572 | CYP2F1 |
| 0.007948385 | 0.01721449 | 6524 | SLC5A2 |
| 0.007931643 | 0.017450457 | 136319 | MTPN |
| 0.007904968 | 0.017832289 | 102 | ADAM10 |
| 0.007896703 | 0.017952068 | 5803 | PTPRZ1 |
| 0.007885518 | 0.018115291 | 11026 | LILRA3 |
| 0.007843075 | 0.018746572 | 5573 | PRKAR1A |
| 0.007824389 | 0.019030534 | 10845 | CLPX |
| 0.007781529 | 0.019696102 | 8718 | TNFRSF25 |
| 0.007763399 | 0.019983722 | 56000 | NXF3 |
| 0.007759023 | 0.020053679 | 54704 | PDP1 |
| 0.007757425 | 0.02007929 | 1457 | CSNK2A1 |
| 0.007741726 | 0.020332327 | 114792 | KLHL32 |
| 0.007731654 | 0.020496156 | 100507135 | AL139377.1 |
| 0.007718664 | 0.020709122 | 8125 | ANP32A |
| 0.007714635 | 0.020775557 | 389941 | C1QL1 |
| 0.007711717 | 0.020823793 | 79993 | ELOVL7 |
| 0.007709286 | 0.020864053 | 23530 | NNT |
| 0.007688446 | 0.021211995 | 51375 | SNX7 |
| 0.007666982 | 0.021575635 | 388555 | IGFL3 |
| 0.007661286 | 0.021673035 | 222166 | C7orf41 |
| 0.007660244 | 0.021690909 | 4618 | MYF6 |
| 0.007636 | 0.022110088 | 5281 | PIGF |
| 0.007628081 | 0.022248514 | 51225 | ABI3 |
| 0.007627873 | 0.022252169 | 10447 | FAM3C |
| 0.007625581 | 0.02229239 | 57402 | S100A14 |
| 0.007618217 | 0.022422019 | 64784 | CRTC3 |
| 0.007586542 | 0.022987127 | 64850 | AGXT2L1 |
| 0.00757112 | 0.023266699 | 553158 | ARHGAP8 |
| 0.007556741 | 0.023530038 | 284346 | ZNF575 |
| 0.007539236 | 0.023854105 | 159091 | FAM122C |
| 0.007527913 | 0.024065785 | 51604 | PIGT |
| 0.007523745 | 0.024144119 | 120227 | CYP2R1 |
| 0.007505267 | 0.024494024 | 641977 | SEPTIN7P2 |
| 0.007452127 | 0.025524942 | 131375 | LYZL4 |
| 0.00744268 | 0.025712108 | 388135 | C15orf59 |
| 0.007437539 | 0.02581444 | 6940 | ZNF354A |
| 0.007415658 | 0.02625397 | 91584 | PLXNA4 |
| 0.007392526 | 0.02672565 | 7138 | TNNT1 |
| 0.007388219 | 0.026814284 | 3577 | IL8RA |
| 0.007378494 | 0.02701534 | 9658 | ZNF516 |
| 0.007297845 | 0.028733376 | 6660 | SOX5 |

| | | | | | |
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| 0.022113305 | 0.750046134 | 0.815 | 1 | 81553 | FAM49A |
| 0.022104234 | 0.750145316 | 0.83 | 1 | 26128 | KIAA1279 |
| 0.022092571 | 0.750272751 | 0.813 | 1 | 80305 | TRABD |
| 0.022037501 | 0.750874758 | 0.808 | 1 | 79135 | APOO |
| 0.022035556 | 0.750896037 | 0.812 | 1 | 163933 | FAM43B |
| 0.022013528 | 0.751136839 | 0.855 | 1 | 1847 | DUSP |
| 0.021903386 | 0.75234139 | 0.856 | 1 | 7184 | HSP90B1 |
| 0.02188978 | 0.752490222 | 0.846 | 1 | 7571 | ZNF23 |
| 0.021884598 | 0.752546966 | 0.815 | 1 | 27348 | TOR1B |
| 0.021857385 | 0.752844691 | 0.835 | 1 | 84897 | TBRG1 |
| 0.021824991 | 0.75319916 | 0.824 | 1 | 54875 | CNTLN |
| 0.021813329 | 0.753326774 | 0.824 | 1 | 284565 | NBPF15 |
| 0.021790003 | 0.75358206 | 0.831 | 1 | 2894 | GRID1 |
| 0.021767328 | 0.753830254 | 0.852 | 1 | 22845 | DOLK |
| 0.021737525 | 0.75415647 | 0.832 | 1 | 337880 | KRTAP11-1 |
| 0.02173299 | 0.754206121 | 0.817 | 1 | 728045 | PPBPP1 |
| 0.02171744 | 0.754376352 | 0.832 | 1 | 57187 | THOC2 |
| 0.021708369 | 0.754475653 | 0.83 | 1 | 5664 | PSEN2 |
| 0.021701243 | 0.754553676 | 0.819 | 1 | 493829 | TRIM72 |
| 0.021688284 | 0.754695594 | 0.825 | 1 | 4643 | MYO1E |
| 0.021670792 | 0.754887104 | 0.827 | 1 | 50805 | IRX4 |
| 0.021667551 | 0.754922628 | 0.856 | 1 | 51599 | LSR |
| 0.021656537 | 0.755043209 | 0.823 | 1 | 23308 | ICOSLG |
| 0.021648115 | 0.755135477 | 0.831 | 1 | 7442 | TRPV1 |
| 0.021600818 | 0.755653501 | 0.839 | 1 | 11258 | DCTN3 |
| 0.021599524 | 0.755667686 | 0.837 | 1 | 23753 | SDF2L1 |
| 0.021587862 | 0.755795419 | 0.849 | 1 | 1536 | CYBB |
| 0.021570368 | 0.755987108 | 0.845 | 1 | 10313 | RTN3 |
| 0.021555467 | 0.756150365 | 0.821 | 1 | 51762 | RAB8B |
| 0.021551579 | 0.756192923 | 0.848 | 1 | 390151 | OR8H2 |
| 0.021491325 | 0.756853163 | 0.844 | 1 | 3643 | INSR |
| 0.021478366 | 0.756995201 | 0.832 | 1 | 23139 | MAST2 |
| 0.02145569 | 0.757243752 | 0.832 | 1 | 6549 | SLC9A2 |
| 0.021422647 | 0.75760597 | 0.847 | 1 | 5888 | RAD51 |
| 0.021420056 | 0.757634342 | 0.857 | 1 | 84705 | GTPBP3 |
| 0.021413578 | 0.75770539 | 0.859 | 1 | 79168 | LILRA6 |
| 0.02140969 | 0.757748008 | 0.831 | 1 | 27346 | TMEM97 |
| 0.021408394 | 0.757762194 | 0.831 | 1 | 1301 | COL11A1 |
| 0.021401916 | 0.757833242 | 0.833 | 1 | 25804 | LSM4 |
| 0.021392845 | 0.757932663 | 0.851 | 1 | 22841 | RAB11FIP2 |
| 0.021392196 | 0.757939756 | 0.85 | 1 | 8843 | HCAR3 |
| 0.021381831 | 0.758053482 | 0.845 | 1 | 5861 | RAB1A |
| 0.021379886 | 0.75807476 | 0.823 | 1 | 796 | CALCA |
| 0.021379238 | 0.758081913 | 0.844 | 1 | 135295 | RP11-63L7.1 |
| 0.021354619 | 0.758351862 | 0.851 | 1 | 28971 | C11orf67 |
| 0.021352027 | 0.758380294 | 0.834 | 1 | 644172 | LOC644172 |
| 0.021346197 | 0.75844419 | 0.847 | 1 | 284618 | RUSC1-AS1 |
| 0.021317689 | 0.758756876 | 0.855 | 1 | 390916 | NUDT19 |
| 0.021295013 | 0.759005547 | 0.822 | 1 | 441932 | OR2W5 |
| 0.021275576 | 0.759218752 | 0.851 | 1 | 100128398 | AC008969.2 |
| 0.021267153 | 0.759311199 | 0.851 | 1 | 149501 | KRT8P45 |
| 0.021262618 | 0.759360909 | 0.823 | 1 | 2892 | GRIA3 |
| 0.021255491 | 0.759439111 | 0.837 | 1 | 5794 | PTPRH |
| 0.0212218 | 0.759808719 | 0.837 | 1 | 149992 | ANKRD30BP2 |
| 0.021188758 | 0.760171294 | 0.85 | 1 | 727957 | HEATR7A |
| 0.021172561 | 0.760349095 | 0.829 | 1 | 9066 | SYT7 |
| 0.021169968 | 0.760377526 | 0.829 | 1 | 6160 | RPL31 |
| 0.021157011 | 0.760519743 | 0.843 | 1 | 56947 | MFF |
| 0.021145998 | 0.760640621 | 0.821 | 1 | 4808 | NHLH2 |
| 0.021127207 | 0.760846853 | 0.845 | 1 | 171389 | NLRP6 |
| 0.021122672 | 0.760896683 | 0.857 | 1 | 375759 | C9orf50 |
| 0.021107122 | 0.761067331 | 0.834 | 1 | 125111 | GJD3 |
| 0.021074729 | 0.761422992 | 0.844 | 1 | 114327 | EFHC1 |
| 0.021068897 | 0.761487007 | 0.835 | 1 | 401577 | CD99P1 |
| 0.021067601 | 0.761501253 | 0.837 | 1 | 64321 | SOX17 |
| 0.021062419 | 0.761558115 | 0.843 | 1 | 55295 | KLHL26 |
| 0.020970417 | 0.762568533 | 0.833 | 1 | 199990 | C1orf86 |
| 0.020938022 | 0.762924373 | 0.842 | 1 | 279 | AMY2A |
| 0.020888135 | 0.763472497 | 0.835 | 1 | 2642 | GCGR |
| 0.02086805 | 0.763693213 | 0.831 | 1 | 646658 | TMEM90A |
| 0.020854443 | 0.763842702 | 0.849 | 1 | 57520 | HECW2 |
| 0.020847965 | 0.763913929 | 0.835 | 1 | 923 | CD6 |
| 0.020835655 | 0.764049232 | 0.827 | 1 | 10962 | MLLT11 |
| 0.020803908 | 0.764398158 | 0.844 | 1 | 93107 | KCNG4 |
| 0.0207754 | 0.764711559 | 0.846 | 1 | 7263 | TST |
| 0.020738471 | 0.765117526 | 0.839 | 1 | 8924 | HERC2 |
| 0.020737175 | 0.765131772 | 0.849 | 1 | 414918 | FAM116B |
| 0.020720977 | 0.76530993 | 0.869 | 1 | 55803 | ADAP2 |
| 0.020719035 | 0.765331268 | 0.844 | 1 | 8911 | CACNA1I |
| 0.020681456 | 0.765744567 | 0.824 | 1 | 64856 | VWA1 |
| 0.02063092 | 0.76630038 | 0.859 | 1 | 393 | ARHGAP4 |

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| 0.007294442 | 0.028807899 | 400410 | ST20 |
| 0.00726089 | 0.029551551 | 5157 | PDGFRL |
| 0.007259292 | 0.029587366 | 347733 | TUBB2B |
| 0.007237063 | 0.030089615 | 378925 | RNF148 |
| 0.007236091 | 0.03011176 | 10381 | RP11-566K11.2 |
| 0.007235257 | 0.030130731 | 3945 | LDHB |
| 0.007234215 | 0.030154491 | 10202 | DHRS2 |
| 0.007230186 | 0.030246466 | 4089 | SMAD4 |
| 0.00721935 | 0.030495049 | 389873 | SEPHS1P4 |
| 0.007187535 | 0.031235078 | 84305 | WIBG |
| 0.007157179 | 0.031955462 | 56882 | CDC42SE1 |
| 0.00714412 | 0.032269735 | 347273 | MURC |
| 0.007127239 | 0.032679878 | 284076 | TTLL6 |
| 0.007115569 | 0.032966025 | 57089 | ENTPD7 |
| 0.00709605 | 0.033449452 | 84536 | C21orf67 |
| 0.007095008 | 0.033475425 | 51473 | DCDC2 |
| 0.007082157 | 0.033797208 | 84891 | ZSCAN10 |
| 0.007074724 | 0.033984523 | 10311 | DSCR3 |
| 0.007064929 | 0.034232724 | 84885 | ZDHHC12 |
| 0.007061804 | 0.034312245 | 56850 | GRIPAP1 |
| 0.007056524 | 0.034446921 | 5987 | TRIM27 |
| 0.0070402 | 0.034866236 | 57580 | PREX1 |
| 0.007036726 | 0.034956031 | 4696 | NDUFA3 |
| 0.007033254 | 0.035046007 | 5539 | PPY |
| 0.007023528 | 0.035298973 | 1586 | CYP17A1 |
| 0.007022833 | 0.035317097 | 124641 | OVCA2 |
| 0.007011164 | 0.035622876 | 84542 | KIAA1841 |
| 0.00694406 | 0.037425201 | 22889 | KIAA0907 |
| 0.006933641 | 0.037711885 | 7134 | TNNC1 |
| 0.006932321 | 0.037748352 | 55582 | KIF27 |
| 0.006897241 | 0.0387282 | 56731 | SLC2A4RG |
| 0.006888975 | 0.0389622 | 2138 | EYA1 |
| 0.006870566 | 0.039487634 | 7690 | ZNF131 |
| 0.006868344 | 0.039551474 | 11224 | RPL35 |
| 0.006865635 | 0.039629404 | 29919 | C18orf8 |
| 0.006853965 | 0.039966661 | 284349 | ZNF283 |
| 0.006851811 | 0.040029146 | 10599 | SLCO1B1 |
| 0.006800129 | 0.041554041 | 7358 | UGDH |
| 0.006775816 | 0.042288229 | 8661 | EIF3A |
| 0.006763938 | 0.042650934 | 163747 | C1orf177 |
| 0.006746294 | 0.043194503 | 113540 | CMTM1 |
| 0.006740876 | 0.043362614 | 6230 | RPS25 |
| 0.006710103 | 0.044327799 | 83874 | TBC1D10A |
| 0.006686832 | 0.045069672 | 5270 | SERPINE2 |
| 0.006686554 | 0.045078605 | 195827 | AAED1 |
| 0.006640082 | 0.046591755 | 22916 | NCBP2 |
| 0.006625147 | 0.047087017 | 84229 | CCDC135 |
| 0.006623549 | 0.047140256 | 6515 | SLC2A3 |
| 0.006612296 | 0.047516733 | 11336 | EXOC3 |
| 0.006563254 | 0.049187001 | 54221 | SNTG2 |
| 0.006553876 | 0.049511928 | 11024 | LILRA1 |
| 0.006535676 | 0.050147675 | 79937 | CNTNAP3 |
| 0.00650268 | 0.051317725 | 440934 | AC010980.2 |
| 0.006494414 | 0.051614434 | 728698 | EIF4A1P4 |
| 0.006476006 | 0.052280243 | 23087 | TRIM35 |
| 0.006467809 | 0.05257903 | 23411 | SIRT1 |
| 0.006457181 | 0.052968562 | 4356 | MPP3 |
| 0.006441551 | 0.053545799 | 54112 | GPR88 |
| 0.006415085 | 0.054535229 | 57685 | CACHD1 |
| 0.006400081 | 0.055102859 | 6156 | RPL30 |
| 0.006399108 | 0.055139836 | 64283 | AC093283.3 |
| 0.006372781 | 0.056148347 | 6095 | RORA |
| 0.006342286 | 0.057335667 | 10089 | KCNK7 |
| 0.006338396 | 0.057488624 | 399693 | MGC50722 |
| 0.006330755 | 0.057790048 | 55632 | G2E3 |
| 0.006302344 | 0.058922347 | 6868 | ADAM17 |
| 0.006290118 | 0.059415225 | 3796 | KIF2A |
| 0.00627171 | 0.060163796 | 11193 | WBP4 |
| 0.006231698 | 0.061817862 | 55214 | LEPREL1 |
| 0.006199951 | 0.063158385 | 139562 | OTUD6A |
| 0.006178071 | 0.064093642 | 66005 | CHID1 |
| 0.006174459 | 0.064249374 | 114825 | PWWP2A |
| 0.006117011 | 0.066768631 | 427 | ASAH1 |
| 0.006068386 | 0.068964042 | 84129 | ACAD11 |
| 0.006067761 | 0.068992637 | 65124 | ANKRD57 |
| 0.00605741 | 0.069467686 | 23493 | HEY2 |
| 0.006041433 | 0.070206262 | 7621 | ZNF70 |
| 0.006027957 | 0.070834197 | 122876 | GPHB5 |
| 0.006014689 | 0.071456939 | 23240 | KIAA0922 |
| 0.005986625 | 0.072788931 | 100129250 | C9ORF133 |
| 0.00597961 | 0.073125072 | 4620 | MYH2 |

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| 0.020630272 | 0.766307473 | 0.839 | 1 | 53826 | FXYD6 |
| 0.020616667 | 0.7664572 | 0.854 | 1 | 390637 | C15orf58 |
| 0.02061278 | 0.766499937 | 0.851 | 1 | 442862 | PRY |
| 0.020605003 | 0.766585529 | 0.844 | 1 | 220107 | DLEU7 |
| 0.020589454 | 0.766756535 | 0.848 | 1 | 1442 | CSH1 |
| 0.020577146 | 0.766892016 | 0.835 | 1 | 6016 | RIT1 |
| 0.020557061 | 0.76711297 | 0.84 | 1 | 5318 | PKP2 |
| 0.020533089 | 0.767376781 | 0.848 | 1 | 54622 | ARL15 |
| 0.020531144 | 0.767398179 | 0.829 | 1 | 4774 | NFIA |
| 0.020519482 | 0.767526507 | 0.856 | 1 | 100133920 | LOC100133920 |
| 0.020496158 | 0.767783225 | 0.847 | 1 | 8800 | PEX11A |
| 0.020471537 | 0.768054247 | 0.86 | 1 | 10229 | COQ7 |
| 0.020428129 | 0.768532157 | 0.846 | 1 | 10882 | AC015936.3 |
| 0.020412579 | 0.768703341 | 0.857 | 1 | 8692 | HYAL2 |
| 0.020411931 | 0.768710434 | 0.847 | 1 | 11092 | C9orf9 |
| 0.020389903 | 0.768953025 | 0.825 | 1 | 445577 | C9orf129 |
| 0.020354917 | 0.76933831 | 0.865 | 1 | 4338 | MOCS2 |
| 0.020351678 | 0.769373953 | 0.858 | 1 | 83872 | HMCN1 |
| 0.020348437 | 0.769409657 | 0.855 | 1 | 339398 | LINGO4 |
| 0.020330297 | 0.769609451 | 0.832 | 1 | 4128 | MAOA |
| 0.020299846 | 0.769944847 | 0.826 | 1 | 390940 | AC026369.2 |
| 0.020273281 | 0.770237505 | 0.84 | 1 | 6736 | SRY |
| 0.020262916 | 0.770351708 | 0.86 | 1 | 148213 | ZNF681 |
| 0.02024024 | 0.770601571 | 0.86 | 1 | 5252 | PHF1 |
| 0.020231169 | 0.770701528 | 0.856 | 1 | 64788 | LMF1 |
| 0.020192295 | 0.771129847 | 0.846 | 1 | 259232 | NALCN |
| 0.020187112 | 0.771187007 | 0.868 | 1 | 64847 | SPATA20 |
| 0.020171562 | 0.771358371 | 0.848 | 1 | 712 | C1QA |
| 0.020156661 | 0.771522641 | 0.87 | 1 | 3846 | KRTAP5-9 |
| 0.020149535 | 0.7716012 | 0.837 | 1 | 143689 | PIWIL4 |
| 0.020133337 | 0.771779716 | 0.855 | 1 | 641455 | AL589182.2 |
| 0.020127505 | 0.771844029 | 0.843 | 1 | 10771 | ZMYND11 |
| 0.020090576 | 0.772251129 | 0.837 | 1 | 51306 | FAM13B |
| 0.020078266 | 0.772386849 | 0.847 | 1 | 9040 | UBE2M |
| 0.020078266 | 0.772386849 | 0.864 | 1 | 26219 | OR1J4 |
| 0.02002449 | 0.772979856 | 0.845 | 1 | 83903 | GSG2 |
| 0.020018011 | 0.773051322 | 0.847 | 1 | 85019 | C18orf45 |
| 0.020012181 | 0.773115575 | 0.839 | 1 | 8362 | HIST1H4K |
| 0.019994039 | 0.773315668 | 0.845 | 1 | 22820 | COPG |
| 0.019987561 | 0.773387134 | 0.849 | 1 | 253635 | CCDC75 |
| 0.019986264 | 0.773401439 | 0.828 | 1 | 705 | BYSL |
| 0.019971363 | 0.773565829 | 0.836 | 1 | 7424 | VEGFC |
| 0.019964237 | 0.773644447 | 0.856 | 1 | 9865 | TRIL |
| 0.019946743 | 0.773837388 | 0.851 | 1 | 10170 | DHRS9 |
| 0.019940913 | 0.773901701 | 0.838 | 1 | 11117 | EMILIN1 |
| 0.019921476 | 0.774116158 | 0.85 | 1 | 55171 | TBCCD1 |
| 0.019895559 | 0.774402142 | 0.853 | 1 | 9 | NAT1 |
| 0.019883249 | 0.774537981 | 0.857 | 1 | 7528 | YY1 |
| 0.019855389 | 0.774845421 | 0.842 | 1 | 3183 | HNRNPC |
| 0.019840488 | 0.775009871 | 0.867 | 1 | 3169 | FOXA1 |
| 0.019819755 | 0.775238693 | 0.833 | 1 | 11030 | RBPMS |
| 0.019797727 | 0.77548182 | 0.853 | 1 | 10164 | CHST4 |
| 0.019751726 | 0.775989652 | 0.845 | 1 | 219870 | OR10G9 |
| 0.019747192 | 0.77603972 | 0.832 | 1 | 8934 | RAB7L1 |
| 0.019744599 | 0.77606833 | 0.849 | 1 | 23208 | SYT11 |
| 0.019707022 | 0.776483238 | 0.877 | 1 | 10666 | CD226 |
| 0.019684993 | 0.776726544 | 0.845 | 1 | 84190 | C12orf26 |
| 0.019672684 | 0.776862442 | 0.857 | 1 | 1843 | DUSP1 |
| 0.019659726 | 0.777005613 | 0.863 | 1 | 26266 | SLC13A4 |
| 0.019648064 | 0.777134418 | 0.849 | 1 | 3690 | ITGB3 |
| 0.019648064 | 0.777134418 | 0.863 | 1 | 643037 | LOC643037 |
| 0.01963057 | 0.777327657 | 0.874 | 1 | 134218 | DNAJC21 |
| 0.019618908 | 0.777456462 | 0.875 | 1 | 11277 | TREX1 |
| 0.019617612 | 0.777470767 | 0.86 | 1 | 23621 | BACE1 |
| 0.019616317 | 0.777485073 | 0.859 | 1 | 404672 | GTF2H5 |
| 0.019611133 | 0.777542353 | 0.847 | 1 | 7355 | SLC35A2 |
| 0.019604007 | 0.77762109 | 0.838 | 1 | 5358 | PLS3 |
| 0.01959688 | 0.777699828 | 0.842 | 1 | 5050 | PAFAH1B3 |
| 0.019593641 | 0.777735591 | 0.853 | 1 | 9140 | ATG12 |
| 0.019583274 | 0.777850151 | 0.859 | 1 | 284656 | RP4-783C10.1 |
| 0.019580683 | 0.777878761 | 0.85 | 1 | 122830 | NAA30 |
| 0.019564485 | 0.778057694 | 0.842 | 1 | 2281 | FKBP1B |
| 0.019560598 | 0.778100669 | 0.856 | 1 | 2137 | EXTL3 |
| 0.019552823 | 0.77818656 | 0.852 | 1 | 4751 | NEK2 |
| 0.019499695 | 0.778773665 | 0.839 | 1 | 3889 | KRT83 |
| 0.019451104 | 0.779310763 | 0.84 | 1 | 155038 | GIMAP8 |
| 0.019438146 | 0.779453993 | 0.855 | 1 | 167359 | AC114947.2 |
| 0.019430371 | 0.779539943 | 0.851 | 1 | 6854 | SYN2 |
| 0.019426484 | 0.779582918 | 0.838 | 1 | 55545 | MSX2P1 |
| 0.019385666 | 0.780034184 | 0.863 | 1 | 55274 | PHF10 |
| 0.0193753 | 0.780148804 | 0.836 | 1 | 2770 | GNAI1 |

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| 0.005941195 | 0.074988194 | 54979 | HRASLS2 |
| 0.005941057 | 0.074994989 | 2040 | STOM |
| 0.005927858 | 0.075644031 | 64344 | HIF3A |
| 0.00592508 | 0.075781278 | 100288413 | ERVMER34-1 |
| 0.005911048 | 0.076477394 | 3811 | KIR3DL1 |
| 0.00589264 | 0.077398457 | 116511 | MAS1L |
| 0.005890347 | 0.077513777 | 5257 | PHKB |
| 0.005888263 | 0.077618755 | 84441 | MAML2 |
| 0.005874157 | 0.078463607 | 9429 | ABCG2 |
| 0.005856448 | 0.079235688 | 23281 | MTUS2 |
| 0.005843944 | 0.079878666 | 7936 | RDBP |
| 0.00584193 | 0.079982616 | 80045 | GPR157 |
| 0.005832969 | 0.080446489 | 84072 | HORMAD1 |
| 0.00582901 | 0.080652155 | 51690 | LSM7 |
| 0.005822966 | 0.080966853 | 50940 | PDE11A |
| 0.00579782 | 0.082287125 | 353332 | KRTAP12-1 |
| 0.005792471 | 0.082570188 | 388595 | TMEM82 |
| 0.005755516 | 0.084547535 | 643438 | LOC643438 |
| 0.005713003 | 0.086869434 | 440068 | CARD17 |
| 0.005704459 | 0.087342262 | 440097 | DBX2 |
| 0.005685287 | 0.088410765 | 85439 | STON2 |
| 0.005674867 | 0.088995874 | 3382 | ICA1 |
| 0.005645205 | 0.090678595 | 222223 | KIAA1324L |
| 0.005616656 | 0.09232235 | 196 | AHR |
| 0.005608459 | 0.09279868 | 51586 | MED15 |
| 0.005605124 | 0.092992976 | 196968 | C15orf51 |
| 0.005601582 | 0.093199834 | 65056 | GPBP1 |
| 0.005560667 | 0.09561529 | 5740 | PTGIS |
| 0.005553303 | 0.096055269 | 1119 | CHKA |
| 0.005552122 | 0.09612599 | 55605 | KIF21A |
| 0.005540939 | 0.096797764 | 2710 | GK |
| 0.005444244 | 0.102763541 | 6667 | SP1 |
| 0.005443132 | 0.102833793 | 92659 | MAFG-AS1 |
| 0.005426877 | 0.103865348 | 83939 | EIF2A |
| 0.005413679 | 0.104708962 | 100128124 | HGC6.3 |
| 0.005411595 | 0.104842663 | 23039 | XPO7 |
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| 0.005343172 | 0.10930825 | 3018 | HIST1H2BB |
| 0.005330043 | 0.110182025 | 84465 | MEGF11 |
| 0.00531872 | 0.110940024 | 342909 | ZNF284 |
| 0.00531747 | 0.111023985 | 4234 | METTL1 |
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| 0.005227305 | 0.117211722 | 115290 | FBXO17 |
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| 0.005179235 | 0.120619453 | 11212 | PROSC |
| 0.005170552 | 0.121243194 | 11039 | SMA4 |
| 0.005169996 | 0.121283226 | 2949 | GSTM5 |
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| 0.005152699 | 0.122533552 | 159686 | CCDC147 |
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| 0.00513436 | 0.123870187 | 8110 | DPF3 |
| 0.005111923 | 0.125521019 | 254427 | C10orf47 |
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| 0.005097474 | 0.126593128 | 5178 | PEG3AS |
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| 0.005031622 | 0.131569937 | 8356 | HIST1H3J |
| 0.005030441 | 0.131660551 | 23302 | WSCD1 |
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| 0.004959378 | 0.137202799 | 84946 | LTV1 |
| 0.004952015 | 0.137787208 | 4852 | NPY |
| 0.004924924 | 0.139953941 | 10810 | WASF3 |
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| 0.004859418 | 0.145301178 | 54806 | AHI1 |
| 0.004815239 | 0.148994997 | 8798 | DYRK4 |
| 0.004795858 | 0.150637805 | 50640 | PNPLA8 |
| 0.004789328 | 0.151194453 | 116442 | RAB39B |
| 0.004788703 | 0.151247829 | 3222 | HOXC5 |
| 0.004781131 | 0.151895359 | 81488 | GRINL1A |
| 0.004779742 | 0.152014464 | 285877 | POM121L12 |
| 0.004768142 | 0.153011218 | 115811 | IQCD |
| 0.004738132 | 0.155612871 | 57555 | NLGN2 |

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| 0.019362342 | 0.780292094 | 0.863 | 1 | 10462 | CLEC10A |
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| 0.019318284 | 0.780779362 | 0.858 | 1 | 116236 | ABHD15 |
| 0.019278763 | 0.781216443 | 0.853 | 1 | 54929 | TMEM161A |
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| 0.019262565 | 0.781395674 | 0.842 | 1 | 387496 | RASL11A |
| 0.019239889 | 0.78164649 | 0.852 | 1 | 3687 | ITGAX |
| 0.019232763 | 0.781725347 | 0.862 | 1 | 284184 | C17orf89 |
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| 0.01919389 | 0.782155454 | 0.877 | 1 | 147657 | ZNF480 |
| 0.019192593 | 0.782169819 | 0.823 | 1 | 8503 | PIK3R3 |
| 0.019105127 | 0.783137858 | 0.868 | 1 | 219527 | LRRC55 |
| 0.019079212 | 0.783424735 | 0.854 | 1 | 8711 | TNK1 |
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| 0.019001463 | 0.784285545 | 0.844 | 1 | 254028 | LOC254028 |
| 0.018973604 | 0.784594119 | 0.86 | 1 | 6464 | SHC1 |
| 0.018963238 | 0.784708917 | 0.849 | 1 | 6626 | SNRPA |
| 0.018946392 | 0.78489548 | 0.861 | 1 | 5535 | PPP3R2 |
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| 0.018878365 | 0.785649061 | 0.828 | 1 | 27075 | TSPAN13 |
| 0.018874478 | 0.785692096 | 0.843 | 1 | 9705 | ST18 |
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| 0.018783124 | 0.786704421 | 0.851 | 1 | 3783 | KCNN4 |
| 0.018761095 | 0.786948621 | 0.842 | 1 | 390882 | OR7G2 |
| 0.018748138 | 0.787092209 | 0.882 | 1 | 5361 | PLXNA1 |
| 0.018743603 | 0.787142456 | 0.872 | 1 | 23367 | LARP1 |
| 0.018726109 | 0.787336409 | 0.877 | 1 | 89876 | C3orf15 |
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| 0.018675573 | 0.787896693 | 0.851 | 1 | 126282 | TNFAIP8L1 |
| 0.018606896 | 0.788658261 | 0.857 | 1 | 55973 | BCAP29 |
| 0.018582923 | 0.788924158 | 0.876 | 1 | 6506 | SLC1A2 |
| 0.018582277 | 0.78893137 | 0.852 | 1 | 285782 | CAGE1 |
| 0.018533684 | 0.789470375 | 0.851 | 1 | 441601 | LOC441601 |
| 0.018450754 | 0.790390491 | 0.833 | 1 | 7311 | RPS27AP11 |
| 0.018442331 | 0.790484011 | 0.87 | 1 | 83548 | COG3 |
| 0.018426782 | 0.790656567 | 0.865 | 1 | 57348 | TTYH1 |
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| 0.018373653 | 0.791246235 | 0.876 | 1 | 8347 | HIST1H2BC |
| 0.018373653 | 0.791246235 | 0.851 | 1 | 201232 | SLC16A13 |
| 0.018373007 | 0.791253448 | 0.858 | 1 | 79722 | ANKRD55 |
| 0.018355513 | 0.791447639 | 0.855 | 1 | 3425 | IDUA |
| 0.018299794 | 0.792066276 | 0.864 | 1 | 9293 | GPR52 |
| 0.018285541 | 0.792224526 | 0.842 | 1 | 126626 | GABPB2 |
| 0.018275822 | 0.792332411 | 0.852 | 1 | 9295 | SFRS11 |
| 0.018271286 | 0.792382777 | 0.879 | 1 | 84694 | GJA10 |
| 0.018268695 | 0.792411566 | 0.85 | 1 | 387 | RHOA |
| 0.018268695 | 0.792411566 | 0.873 | 1 | 219541 | MED19 |
| 0.018255088 | 0.792562664 | 0.856 | 1 | 84570 | COL25A1 |
| 0.018253146 | 0.79258424 | 0.874 | 1 | 57035 | C1orf63 |
| 0.018247962 | 0.792641819 | 0.849 | 1 | 55914 | ERBB2IP |
| 0.018241484 | 0.792713761 | 0.856 | 1 | 29993 | PACSIN1 |
| 0.018227877 | 0.792864919 | 0.847 | 1 | 81788 | NUAK2 |
| 0.018198075 | 0.793195903 | 0.883 | 1 | 23743 | BHMT2 |
| 0.018196778 | 0.793210328 | 0.848 | 1 | 91695 | RRP7B |
| 0.018192243 | 0.793260694 | 0.856 | 1 | 8562 | DENR |
| 0.018168919 | 0.793519795 | 0.862 | 1 | 388512 | CLEC17A |
| 0.018166976 | 0.793541372 | 0.857 | 1 | 3785 | KCNQ2 |
| 0.018144298 | 0.793793321 | 0.863 | 1 | 340385 | ZNF517 |
| 0.018143652 | 0.793800473 | 0.886 | 1 | 646517 | LOC646517 |
| 0.018052947 | 0.794808388 | 0.878 | 1 | 112936 | VPS26B |
| 0.0180212 | 0.795161247 | 0.889 | 1 | 400242 | DICER1-AS |
| 0.018010184 | 0.795283735 | 0.854 | 1 | 254973 | OR1L4 |
| 0.01800565 | 0.79533416 | 0.871 | 1 | 10087 | COL4A3BP |
| 0.017998522 | 0.795413375 | 0.853 | 1 | 1188 | CLCNKB |
| 0.017947339 | 0.795982361 | 0.864 | 1 | 52 | ACP1 |
| 0.017925311 | 0.796227276 | 0.878 | 1 | 64793 | CCDC21 |
| 0.017916888 | 0.796320975 | 0.859 | 1 | 332 | BIRC5 |
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| 0.017858578 | 0.796969414 | 0.864 | 1 | 1435 | CSF1 |
| 0.017834606 | 0.797236025 | 0.874 | 1 | 83732 | RIOK1 |
| 0.017820999 | 0.797387421 | 0.859 | 1 | 3281 | HSBP1 |
| 0.017813873 | 0.797466636 | 0.862 | 1 | 7965 | AIMP2 |
| 0.017802859 | 0.797589183 | 0.861 | 1 | 389898 | UBE2NL |
| 0.017786661 | 0.797769368 | 0.872 | 1 | 7485 | WRB |
| 0.017758153 | 0.798086524 | 0.871 | 1 | 84418 | CYSTM1 |
| 0.017745195 | 0.798230708 | 0.868 | 1 | 387990 | TOMM20L |
| 0.017735478 | 0.79833883 | 0.878 | 1 | 51232 | CRIM1 |
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| 0.004725212 | 0.156743303 | 5324 | PLAG1 |
| 0.004716668 | 0.157494277 | 150135 | LINC00479 |
| 0.004712292 | 0.157879964 | 8639 | AOC3 |
| 0.00469819 | 0.159127623 | 1455 | CSNK1G2 |
| 0.004694518 | 0.159500256 | 1075 | CTSC |
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| 0.004678948 | 0.160842136 | 6785 | ELOVL4 |
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| 0.004594132 | 0.168566152 | 56673 | C11orf16 |
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| 0.004559399 | 0.171808288 | 340719 | NANOS1 |
| 0.004548563 | 0.1728293 | 689 | BTF3 |
| 0.004531058 | 0.174488232 | 55754 | TMEM30A |
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| 0.004514247 | 0.176092491 | 723790 | HIST2H2AA4 |
| 0.004508343 | 0.176658586 | 51132 | RLIM |
| 0.004494866 | 0.177955672 | 23288 | IQCE |
| 0.004479168 | 0.179475576 | 119032 | C10orf32 |
| 0.004475764 | 0.179806411 | 5008 | OSM |
| 0.004449575 | 0.182366863 | 400668 | PRSSL1 |
| 0.0044477 | 0.182551235 | 91050 | CCDC149 |
| 0.004445755 | 0.182742596 | 222235 | FBXL13 |
| 0.004442351 | 0.183077917 | 2356 | FPGS |
| 0.004439225 | 0.183386251 | 90050 | FAM181A |
| 0.00443728 | 0.183578268 | 670 | BPHL |
| 0.004432765 | 0.184024602 | 54943 | DNAJC28 |
| 0.004376151 | 0.189689651 | 9648 | GCC2 |
| 0.004370316 | 0.190280735 | 22846 | VASH1 |
| 0.004351838 | 0.19216153 | 8332 | HIST1H2AL |
| 0.004335444 | 0.193841517 | 1948 | EFNB2 |
| 0.004296197 | 0.197907507 | 79640 | Z83840.4 |
| 0.00428279 | 0.199310586 | 284593 | FAM41C |
| 0.004281053 | 0.199492931 | 64225 | ATL2 |
| 0.004267438 | 0.200926155 | 3201 | HOXA4 |
| 0.004265703 | 0.201478511 | 158431 | ZNF782 |
| 0.004257713 | 0.201954588 | 90134 | KCNH7 |
| 0.004257088 | 0.202020794 | 9334 | B4GALT5 |
| 0.004210407 | 0.20701164 | 64151 | NCAPG |
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| 0.004189429 | 0.209283382 | 402360 | LOC402360 |
| 0.004179079 | 0.210410863 | 6247 | RS1 |
| 0.004173799 | 0.210987642 | 6311 | ATXN2 |
| 0.004152891 | 0.213283226 | 3992 | FADS1 |
| 0.004151154 | 0.213474751 | 8777 | MPDZ |
| 0.004132468 | 0.215542838 | 132949 | AASDH |
| 0.004102598 | 0.218878597 | 84547 | PGBD1 |
| 0.004093359 | 0.219917774 | 401172 | CTD-2324F15.2 |
| 0.004089122 | 0.22039564 | 9570 | GOSR2 |
| 0.004083495 | 0.221031263 | 81573 | ANKRD13C |
| 0.00407766 | 0.221691862 | 3728 | JUP |
| 0.004074187 | 0.222085744 | 79886 | C9orf82 |
| 0.004073353 | 0.222180292 | 10550 | ARL6IP5 |
| 0.00402313 | 0.227933407 | 283460 | HNF1A-AS1 |
| 0.00399062 | 0.231713578 | 54583 | EGLN1 |
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| 0.003943732 | 0.237243712 | 27141 | CIDEB |
| 0.0039388 | 0.237830818 | 26281 | FGF20 |
| 0.003936021 | 0.238161981 | 118472 | ZNF511 |
| 0.003915807 | 0.2405812 | 64132 | XYLT2 |
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| 0.003814388 | 0.252980173 | 8702 | B4GALT4 |
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| 0.003790619 | 0.25595203 | 6861 | SYT5 |
| 0.003789728 | 0.256061107 | 118424 | UBE2J2 |
| 0.00378945 | 0.256095946 | 3955 | LFNG |
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| 0.003775835 | 0.257808298 | 10878 | CFHR3 |
| 0.003738185 | 0.262584627 | 158358 | KIAA2026 |
| 0.003735268 | 0.262957245 | 3005 | H1F0 |
| 0.003726098 | 0.264130831 | 7637 | ZNF84 |
| 0.00372261 | 0.265727699 | 83857 | TMTC1 |
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| 0.003716859 | 0.265317023 | 140862 | C20orf82 |

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| 0.017717984 | 0.798533499 | 0.885 | 1 | 3033 | HADH |
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| 0.017669393 | 0.799074233 | 0.874 | 1 | 5590 | PRKCZ |
| 0.017655786 | 0.799225688 | 0.859 | 1 | 361 | AQP4 |
| 0.017649308 | 0.79929781 | 0.871 | 1 | 125965 | COX6B2 |
| 0.017629871 | 0.799514174 | 0.887 | 1 | 997 | CDC34 |
| 0.017607842 | 0.799759328 | 0.862 | 1 | 85318 | BAGE3 |
| 0.017585814 | 0.800004601 | 0.875 | 1 | 954 | ENTPD2 |
| 0.017551476 | 0.800386906 | 0.873 | 1 | 348013 | FAM70B |
| 0.017519729 | 0.800740421 | 0.868 | 1 | 11330 | CTRC |
| 0.017508067 | 0.800870299 | 0.863 | 1 | 26272 | FBXO4 |
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| 0.01748215 | 0.801158905 | 0.86 | 1 | 150709 | ANKAR |
| 0.017472433 | 0.801267147 | 0.861 | 1 | 1543 | CYP1A1 |
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| 0.017381728 | 0.802277505 | 0.865 | 1 | 57549 | IGSF9 |
| 0.017379783 | 0.802299201 | 0.86 | 1 | 1358 | CPA2 |
| 0.017375248 | 0.802349746 | 0.879 | 1 | 112802 | KRT71 |
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| 0.017311754 | 0.803057253 | 0.878 | 1 | 170572 | HTR3C |
| 0.017311754 | 0.803057253 | 0.864 | 1 | 200523 | C2orf51 |
| 0.017278712 | 0.803425491 | 0.866 | 1 | 553158 | ARHGAP8 |
| 0.01727288 | 0.80349046 | 0.87 | 1 | 83604 | TMEM47 |
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| 0.017257331 | 0.803663731 | 0.878 | 1 | 138162 | C9orf116 |
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| 0.017204203 | 0.804256022 | 0.873 | 1 | 7879 | RAB7A |
| 0.017201612 | 0.804284871 | 0.865 | 1 | 845 | CASQ2 |
| 0.017180232 | 0.80452323 | 0.863 | 1 | 114819 | CROCCP3 |
| 0.017176991 | 0.80455935 | 0.875 | 1 | 140564 | APOBEC3D |
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| 0.017120626 | 0.805187881 | 0.877 | 1 | 79444 | BIRC7 |
| 0.017093413 | 0.805491388 | 0.877 | 1 | 3516 | RBPSUH |
| 0.017088879 | 0.805541933 | 0.88 | 1 | 401508 | FAM74A4 |
| 0.017076569 | 0.805679202 | 0.869 | 1 | 2914 | GRM4 |
| 0.01703316 | 0.80616343 | 0.871 | 1 | 8548 | BLZF1 |
| 0.017031215 | 0.806185126 | 0.87 | 1 | 389874 | ZCCHC13 |
| 0.017020201 | 0.806307971 | 0.855 | 1 | 2208 | FCER2 |
| 0.016990399 | 0.806640446 | 0.876 | 1 | 51560 | RAB6B |
| 0.016986512 | 0.806683838 | 0.87 | 1 | 885 | CCK |
| 0.016983919 | 0.806712747 | 0.856 | 1 | 93166 | PRDM6 |
| 0.016963186 | 0.806944072 | 0.863 | 1 | 89849 | ATG16L2 |
| 0.016913947 | 0.807493508 | 0.894 | 1 | 80831 | APOL5 |
| 0.016908763 | 0.807551324 | 0.866 | 1 | 55256 | ADI1 |
| 0.016902285 | 0.807623684 | 0.889 | 1 | 901 | CCNG2 |
| 0.016884143 | 0.807826102 | 0.862 | 1 | 344967 | AC098591.2 |
| 0.016866002 | 0.808028579 | 0.866 | 1 | 54850 | FBXL12 |
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| 0.016843975 | 0.808274448 | 0.877 | 1 | 49 | ACR |
| 0.016831016 | 0.808419108 | 0.865 | 1 | 340419 | RSPO2 |
| 0.016801212 | 0.808751822 | 0.886 | 1 | 4159 | MC3R |
| 0.016785663 | 0.80892545 | 0.871 | 1 | 6927 | HNF1A |
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| 0.016773354 | 0.809062839 | 0.885 | 1 | 10266 | RAMP2 |
| 0.016755212 | 0.809265435 | 0.871 | 1 | 10944 | C11orf58 |
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| 0.016692366 | 0.80996722 | 0.883 | 1 | 219738 | C10orf35 |
| 0.016663859 | 0.810285628 | 0.879 | 1 | 57863 | CADM3 |
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| 0.016619155 | 0.810784936 | 0.869 | 1 | 399744 | LOC399744 |
| 0.016610084 | 0.810886323 | 0.859 | 1 | 4137 | MAPT |
| 0.016593887 | 0.811067283 | 0.868 | 1 | 23138 | AC136632.1 |
| 0.016593238 | 0.811074495 | 0.884 | 1 | 84153 | RNASEH2C |
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| 0.016483745 | 0.812298 | 0.89 | 1 | 84366 | PRAC |
| 0.016479857 | 0.812341452 | 0.878 | 1 | 154467 | C6orf129 |
| 0.016460421 | 0.812558651 | 0.882 | 1 | 3312 | HSPA8 |
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| 0.016360644 | 0.813674092 | 0.87 | 1 | 125988 | C19orf70 |
| 0.016335376 | 0.813956618 | 0.874 | 1 | 256126 | SYCE2 |
| 0.016290672 | 0.814456522 | 0.879 | 1 | 130827 | TMEM182 |
| 0.016278362 | 0.814594209 | 0.883 | 1 | 9846 | GAB2 |

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| 0.002468369 | 0.460346401 | 8900 | CCNA1 |
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| 0.002226559 | 0.504593432 | 58155 | PTBP2 |
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| 0.002198287 | 0.510019839 | 390940 | AC026369.2 |
| 0.002188423 | 0.511920214 | 645367 | GGT8P |
| 0.002179392 | 0.513663173 | 84557 | MAP1LC3A |
| 0.002178281 | 0.513877988 | 150223 | YDJC |
| 0.002175641 | 0.514388204 | 65010 | SLC26A6 |
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| 0.002146605 | 0.520017624 | 10376 | TUBA1B |
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| 0.002140839 | 0.521139205 | 4047 | LSS |
| 0.002136434 | 0.522990286 | 4908 | NTF3 |
| 0.002128544 | 0.523535192 | 149501 | KRT8P45 |
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| 0.001898129 | 0.569456518 | 170572 | HTR3C |
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| 0.014535524 | 0.834141016 | 0.886 | 1 | 84129 | ACAD11 |
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| 0.014440283 | 0.835212231 | 0.898 | 1 | 57585 | CRAMP1L |
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| 0.014327549 | 0.836480618 | 0.889 | 1 | 9070 | ASH2L |
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| 0.014219999 | 0.837691069 | 0.882 | 1 | 347088 | GPR144 |
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| 0.014145492 | 0.838529885 | 0.877 | 1 | 161635 | CSNK1A1P1 |
| 0.014141604 | 0.838573635 | 0.892 | 1 | 140901 | STK35 |
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| -0.002799575 | 0.401464731 | 91452 | ACBD5 |

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| 0.008458269 | 0.90302372 | 0.928 | 1 | 8536 | CAMK1 |
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| 0.008265196 | 0.905226886 | 0.944 | 1 | 11020 | RABL4 |
| 0.008243168 | 0.905478299 | 0.94 | 1 | 7763 | ZFAND5 |
| 0.008241872 | 0.905493081 | 0.911 | 1 | 387751 | GVINP1 |
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| 0.008169956 | 0.906313896 | 0.925 | 1 | 25911 | RP11-529I10.1 |
| 0.008167365 | 0.90634352 | 0.933 | 1 | 4495 | MT1G |
| 0.008139505 | 0.90666151 | 0.949 | 1 | 5613 | PRKX |
| 0.008113589 | 0.906957388 | 0.941 | 1 | 51110 | LACTB2 |
| 0.008112293 | 0.90697217 | 0.933 | 1 | 63932 | CXorf56 |
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| 0.007794177 | 0.910604656 | 0.934 | 1 | 22917 | ZP1 |
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| 0.007242818 | 0.916904867 | 0.944 | 1 | 4973 | OLR1 |
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| -0.002971292 | 0.373213261 | 23191 | CYFIP1 |
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| -0.003486583 | 0.296069324 | 49861 | CLDN20 |
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| 0.006931181 | 0.920468152 | 0.95 | 1 | 388115 | C15orf52 |
| 0.006921462 | 0.920579314 | 0.948 | 1 | 646643 | SBK2 |
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| 0.00687611 | 0.921097994 | 0.935 | 1 | 2630 | GBAP |
| 0.006867039 | 0.921201766 | 0.949 | 1 | 100268168 | AC008429.1 |
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| 0.006760136 | 0.922424555 | 0.951 | 1 | 3305 | HSPA1L |
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| 0.006718671 | 0.922898948 | 0.952 | 1 | 7764 | ZNF217 |
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| 0.006690164 | 0.923225045 | 0.945 | 1 | 92579 | G6PC3 |
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| 0.006673318 | 0.923417807 | 0.953 | 1 | 51690 | LSM7 |
| 0.006670727 | 0.92344743 | 0.945 | 1 | 51430 | C1orf9 |
| 0.00664222 | 0.923773587 | 0.952 | 1 | 57010 | CABP4 |
| 0.006621487 | 0.924010813 | 0.955 | 1 | 1820 | ARID3A |
| 0.006601402 | 0.924240589 | 0.948 | 1 | 955 | ENTPD6 |
| 0.006589092 | 0.924381435 | 0.951 | 1 | 1793 | DOCK1 |
| 0.006554754 | 0.924774349 | 0.958 | 1 | 114548 | NLRP3 |
| 0.006522359 | 0.92514503 | 0.96 | 1 | 9377 | COX5A |
| 0.006447203 | 0.926005125 | 0.945 | 1 | 138639 | PTPDC1 |
| 0.006443963 | 0.926042199 | 0.94 | 1 | 220074 | AP000812.2 |
| 0.006438781 | 0.926101506 | 0.962 | 1 | 6815 | STYX |
| 0.006416104 | 0.926361024 | 0.961 | 1 | 55207 | ARL8B |
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| 0.006359737 | 0.927006185 | 0.96 | 1 | 122183 | PRR20 |
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| 0.006320216 | 0.927458525 | 0.951 | 1 | 9868 | TOMM70A |
| 0.006309849 | 0.927577198 | 0.957 | 1 | 497190 | CLEC18B |
| 0.006248947 | 0.928274333 | 0.95 | 1 | 9778 | KIAA0232 |
| 0.006247004 | 0.928296566 | 0.958 | 1 | 326625 | MMAB |
| 0.006232102 | 0.928467155 | 0.947 | 1 | 2710 | GK |
| 0.006221088 | 0.928593278 | 0.955 | 1 | 9439 | MED23 |
| 0.006219144 | 0.92861551 | 0.944 | 1 | 10573 | MRPL28 |
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| 0.006129735 | 0.929639101 | 0.956 | 1 | 152118 | RP11-292E2.1 |
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| 0.006068832 | 0.930336416 | 0.959 | 1 | 10998 | SLC27A5 |
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| 0.006062353 | 0.930410564 | 0.966 | 1 | 219995 | MS4A15 |
| 0.006043565 | 0.930625677 | 0.949 | 1 | 51317 | PHF21A |
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| 0.006022184 | 0.930870533 | 0.953 | 1 | 26020 | LRP10 |
| 0.005994972 | 0.931182146 | 0.952 | 1 | 4150 | MAZ |
| 0.005956098 | 0.931627274 | 0.937 | 1 | 158584 | FAAH2 |
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| 0.005877055 | 0.932532489 | 0.948 | 1 | 23037 | PDZD2 |
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| 0.005871872 | 0.932591856 | 0.955 | 1 | 171024 | SYNPO2 |
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| 0.005778575 | 0.933660388 | 0.965 | 1 | 2023 | ENO1 |
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| -0.012413033 | 0.000199055 | 399512 | SLC25A35 |
| -0.012415256 | 0.00019853 | 4991 | OR1D2 |
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| -0.012456032 | 0.000189136 | 2971 | GTF3A |
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| -0.012507992 | 0.000177771 | 91353 | IGLL3P |
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| -0.004598111 | 0.947190285 | 0.969 | 1 | 81570 | CLPB |
| -0.004599406 | 0.947175384 | 0.965 | 1 | 8909 | AC004241.1 |
| -0.004599406 | 0.947175384 | 0.955 | 1 | 9427 | ECEL1 |
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| -0.004667435 | 0.946395218 | 0.963 | 1 | 79048 | SECISBP2 |
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| -0.004685577 | 0.946187198 | 0.965 | 1 | 391195 | OR2T33 |
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| -0.012584889 | 0.000162124 | 652968 | GATSL3 |
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| -0.012959098 | 0.000102801 | 100131827 | ZNF717 |
| -0.012964029 | 0.000102178 | 4500 | MT1L |
| -0.012964376 | 0.000102134 | 221357 | GSTA5 |
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| -0.013008904 | 9.66658E-05 | 2259 | FGF14 |
| -0.01301189 | 9.6309E-05 | 100287482 | RP11-305M3.3 |
| -0.013035925 | 9.34835E-05 | 54482 | CCDC76 |
| -0.013047387 | 9.21637E-05 | 414 | ARSD |
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| -0.013077605 | 8.87683E-05 | 114882 | OSBPL8 |
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| -0.013105946 | 8.56914E-05 | 374819 | LRRC37A3 |
| -0.01311324 | 8.49159E-05 | 91156 | IGFN1 |
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| -0.013154293 | 8.06738E-05 | 6272 | SORT1 |
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| -0.013174925 | 7.86182E-05 | 2555 | GABRA2 |
| -0.013206809 | 7.55388E-05 | 2770 | GNAI1 |
| -0.013209309 | 7.53022E-05 | 169714 | QSOX2 |
| -0.013220771 | 7.42266E-05 | 146802 | SLC47A2 |
| -0.013222369 | 7.40777E-05 | 8932 | MBD2 |
| -0.013225912 | 7.37487E-05 | 112802 | KRT71 |
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| -0.013295377 | 6.75721E-05 | 5244 | ABCB4 |
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| -0.013362549 | 6.20673E-05 | 3916 | LAMP1 |
| -0.013375053 | 6.10906E-05 | 359948 | IRF2BP2 |
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| -0.013436599 | 5.64918E-05 | 10608 | MXD4 |
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| -0.005898436 | 0.932287633 | 0.956 | 1 | 11046 | SLC35D2 |
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| -0.006329934 | 0.927347302 | 0.948 | 1 | 150275 | CCDC117 |
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| -0.006399259 | 0.926553845 | 0.949 | 1 | 130888 | FBXO36 |
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| -0.006558641 | 0.924729884 | 0.953 | 1 | 27136 | MORC1 |
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| -0.00705428 | 0.919060409 | 0.94 | 1 | 5662 | PSD |
| -0.007054929 | 0.919053018 | 0.959 | 1 | 55770 | EXOC2 |
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| -0.007096394 | 0.918578863 | 0.943 | 1 | 162966 | ZNF600 |
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| -0.00710352 | 0.918497384 | 0.95 | 1 | 54870 | QRICH1 |
| -0.007118422 | 0.918327034 | 0.957 | 1 | 899 | CCNF |
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| -0.007269382 | 0.916601181 | 0.947 | 1 | 56979 | PRDM9 |
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| -0.007273917 | 0.916549325 | 0.939 | 1 | 25924 | MYRIP |
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| -0.007317974 | 0.916045785 | 0.941 | 1 | 90427 | BMF |
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| -0.007696992 | 0.911714733 | 0.939 | 1 | 117283 | IP6K3 |
| -0.00769764 | 0.911707342 | 0.94 | 1 | 256297 | PTF1A |
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| -0.007864149 | 0.909805477 | 0.932 | 1 | 139760 | GPR119 |
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| -0.007917925 | 0.90919137 | 0.918 | 1 | 120376 | AP002448.1 |
| -0.007945136 | 0.908880651 | 0.945 | 1 | 9366 | RAB9BP1 |
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| -0.013595534 | 4.60849E-05 | 388403 | YPEL2 |
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| -0.014783246 | 9.39524E-06 | 127687 | C1orf122 |
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| -0.015276724 | 4.68191E-06 | 10081 | PDCD7 |
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| -0.00985837 | 0.887070417 | 0.93 | 1 | 440915 | POTEKP |
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| -0.017453963 | 1.68424E-07 | 55854 | ZC3H15 |
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| -0.013554611 | 0.8451882 | 0.905 | 1 | 150465 | TTL |
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| -0.022881707 | 0.741663337 | 0.827 | 1 | 144132 | DNHD1 |
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| -0.023849014 | 0.731153846 | 0.83 | 1 | 401232 | RP1-90J20.7 |
| -0.023850959 | 0.731132746 | 0.814 | 1 | 92241 | RCSD1 |
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| -0.025714802 | 1.28045E-14 | 170302 | ARX |
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| -0.025715843 | 1.27732E-14 | 26036 | ZNF451 |
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| -0.025284102 | 0.715654373 | 0.79 | 1 | 118924 | C10orf4 |
| -0.025285399 | 0.715640426 | 0.821 | 1 | 100129434 | AC007743.1 |
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| -0.025317792 | 0.715291858 | 0.791 | 1 | 345557 | PLCXD3 |
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| -0.025373511 | 0.714692473 | 0.806 | 1 | 84722 | PSRC1 |
| -0.025374159 | 0.7146855 | 0.81 | 1 | 284186 | TMEM105 |
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| -0.025386469 | 0.714553118 | 0.792 | 1 | 2246 | FGF1 |
| -0.025418865 | 0.714204729 | 0.805 | 1 | 11260 | XPOT |
| -0.025420159 | 0.714190781 | 0.792 | 1 | 56901 | NDUFA4L2 |
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| -0.026114704 | 0.706735969 | 0.807 | 1 | 5153 | PDE1B |
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| -0.026139971 | 0.706465244 | 0.778 | 1 | 112849 | C14orf149 |
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| -0.026172297 | 4.33172E-15 | 220388 | CCDC89 |
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| -0.026268853 | 3.43786E-15 | 55905 | RNF114 |
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| -0.026277605 | 3.36643E-15 | 83595 | SOX7 |
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| -0.026350057 | 2.82876E-15 | 29098 | RANGRF |
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| -0.027330803 | 0.693750441 | 0.788 | 1 | 165257 | C1QL2 |
| -0.027342465 | 0.693626344 | 0.791 | 1 | 5783 | PTPN13 |
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| -0.027472889 | 1.79673E-16 | 54955 | C1orf109 |
| -0.02747914 | 1.76882E-16 | 9801 | MRPL19 |
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| -0.027497688 | 1.68847E-16 | 64782 | AEN |
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| -0.02812176 | 3.47156E-17 | 286046 | XKR6 |
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| -0.028121235 | 0.685357571 | 0.788 | 1 | 3017 | HIST1H2BD |
| -0.028133543 | 0.685227156 | 0.775 | 1 | 1121 | CHM |
| -0.028154276 | 0.685007572 | 0.81 | 1 | 645323 | LINC00461 |
| -0.028155573 | 0.684993804 | 0.812 | 1 | 11319 | ECD |
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| -0.028182784 | 0.684705615 | 0.764 | 1 | 84542 | KIAA1841 |
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| -0.028243039 | 0.684067607 | 0.782 | 1 | 51614 | ERGIC3 |
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| -0.028306533 | 0.683395565 | 0.79 | 1 | 283171 | C11orf44 |
| -0.028307827 | 0.683381855 | 0.78 | 1 | 1908 | EDN3 |
| -0.028360307 | 0.682826579 | 0.766 | 1 | 80852 | GRIP2 |
| -0.028364195 | 0.682785451 | 0.783 | 1 | 4837 | NNMT |
| -0.028390111 | 0.68251133 | 0.8 | 1 | 22849 | CPEB3 |
| -0.028426392 | 0.682127595 | 0.787 | 1 | 79869 | CPSF7 |
| -0.028439999 | 0.681983709 | 0.791 | 1 | 26034 | IPCEF1 |
| -0.028449716 | 0.681880951 | 0.778 | 1 | 54106 | TLR9 |
| -0.028468506 | 0.681682289 | 0.786 | 1 | 4201 | MEA1 |
| -0.028488591 | 0.681469917 | 0.805 | 1 | 1306 | COL15A1 |
| -0.028489238 | 0.681463063 | 0.782 | 1 | 54433 | GAR1 |
| -0.028489886 | 0.681456208 | 0.75 | 1 | 5828 | PXMP3 |
| -0.028515154 | 0.68118912 | 0.795 | 1 | 2595 | GANC |
| -0.02855986 | 0.680716693 | 0.775 | 1 | 340277 | C7orf46 |
| -0.028568929 | 0.680620849 | 0.783 | 1 | 3875 | KRT18P19 |
| -0.02859031 | 0.680394948 | 0.802 | 1 | 51095 | TRNT1 |
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| -0.029945562 | 2.79722E-19 | 145173 | B3GALTL |
| -0.029951952 | 2.74896E-19 | 374569 | ASPG |
| -0.029966192 | 2.64432E-19 | 55002 | TMCO3 |
| -0.029986337 | 2.50292E-19 | 163126 | EID2 |
| -0.0299912 | 2.46994E-19 | 6159 | RPL29 |
| -0.029993979 | 2.45127E-19 | 5781 | PTPN11 |
| -0.02999516 | 2.4434E-19 | 406 | ARNTL |
| -0.030006969 | 2.36589E-19 | 3431 | SP110 |
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| -0.030056497 | 2.06645E-19 | 29085 | PHPT1 |
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| -0.030082408 | 1.92504E-19 | 10100 | TSPAN2 |
| -0.030086229 | 1.90502E-19 | 9219 | MTA2 |

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| -0.030873492 | 0.656438947 | 0.765 | 1 | 271 | AMPD2 |
| -0.030878028 | 0.65639168 | 0.768 | 1 | 10956 | OS9 |
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| -0.030939577 | 0.655750632 | 0.771 | 1 | 8220 | DGCR14 |
| -0.030965494 | 0.655480742 | 0.785 | 1 | 9761 | MLEC |
| -0.031019269 | 0.654920936 | 0.769 | 1 | 8829 | NRP1 |
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| -0.031026395 | 0.654846787 | 0.779 | 1 | 23052 | ENDOD1 |
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| -0.031102847 | 0.654051244 | 0.74 | 1 | 26108 | PYGO1 |
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| -0.031133946 | 0.65372777 | 0.771 | 1 | 56992 | KIF15 |
| -0.031135889 | 0.653707564 | 0.775 | 1 | 28989 | NTMT1 |
| -0.031163102 | 0.653424561 | 0.742 | 1 | 221938 | MMD2 |
| -0.031163748 | 0.653417826 | 0.78 | 1 | 51741 | WWOX |
| -0.031170228 | 0.653350472 | 0.741 | 1 | 11222 | MRPL3 |
| -0.031172171 | 0.653330266 | 0.767 | 1 | 60490 | PPCDC |
| -0.031203918 | 0.653000176 | 0.782 | 1 | 23038 | WDTC1 |
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| -0.031212989 | 0.652905822 | 0.764 | 1 | 51388 | NIP7 |
| -0.03123761 | 0.652649939 | 0.766 | 1 | 9886 | RHOBTB1 |
| -0.031292681 | 0.652077615 | 0.767 | 1 | 1534 | CYB561 |
| -0.031327665 | 0.651714146 | 0.768 | 1 | 169270 | ZNF596 |
| -0.031364597 | 0.65133059 | 0.755 | 1 | 6236 | RRAD |
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| -0.031371724 | 0.651256561 | 0.753 | 1 | 3182 | HNRNPAB |
| -0.03137302 | 0.651243091 | 0.803 | 1 | 401176 | RP11-19O2.2 |
| -0.031381443 | 0.651155651 | 0.781 | 1 | 26993 | AKAP8L |
| -0.031414483 | 0.650812566 | 0.711 | 1 | 4803 | NGF |
| -0.031422257 | 0.650731862 | 0.789 | 1 | 22870 | SAPS1 |
| -0.03142485 | 0.65070492 | 0.751 | 1 | 84689 | MS4A14 |
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| -0.031472795 | 0.650207281 | 0.787 | 1 | 285848 | PNPLA1 |
| -0.031479921 | 0.650133312 | 0.764 | 1 | 150568 | AC013402.2 |
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| -0.030117834 | 1.74708E-19 | 80183 | C13orf18 |
| -0.030156318 | 1.57212E-19 | 56261 | RP5-1022P6.1 |
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| -0.030331995 | 9.69586E-20 | 282974 | STK32C |
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| -0.03035228 | 9.16798E-20 | 9829 | DNAJC6 |
| -0.030358253 | 9.01797E-20 | 256302 | C17orf103 |
| -0.030412436 | 7.76386E-20 | 2595 | GANC |
| -0.030419104 | 7.62188E-20 | 6185 | RPN2 |
| -0.030420424 | 7.59409E-20 | 10972 | TMED10 |
| -0.030436886 | 7.25591E-20 | 152098 | ZCWPW2 |
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| -0.030459601 | 6.81356E-20 | 155382 | VPS37D |
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| -0.030485027 | 6.34992E-20 | 4131 | MAP1B |
| -0.030488916 | 6.2818E-20 | 6833 | ABCC8 |
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| -0.030532887 | 5.56025E-20 | 647024 | C6orf132 |
| -0.030542403 | 5.41523E-20 | 84897 | TBRG1 |
| -0.030567968 | 5.04383E-20 | 3936 | LCP1 |
| -0.030580541 | 4.87057E-20 | 219699 | UNC5B |
| -0.030590404 | 4.7388E-20 | 92399 | MRRF |
| -0.030630624 | 4.23683E-20 | 50515 | CHST11 |
| -0.030639447 | 4.13395E-20 | 83875 | BCO2 |
| -0.030643476 | 4.08778E-20 | 9144 | SYNGR2 |
| -0.030645143 | 4.06884E-20 | 153222 | C5orf41 |
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| -0.030687585 | 3.61467E-20 | 116039 | OSR2 |
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| -0.030719053 | 3.31066E-20 | 577 | BAI3 |
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| -0.030761497 | 2.94023E-20 | 9807 | IP6K1 |
| -0.03076872 | 2.88142E-20 | 7695 | ZNF136 |
| -0.030770805 | 2.86467E-20 | 9215 | LARGE |
| -0.030778445 | 2.80407E-20 | 6304 | SATB1 |
| -0.030781711 | 2.77854E-20 | 54834 | GDAP2 |
| -0.030787893 | 2.73089E-20 | 4837 | NNMT |
| -0.030794354 | 2.68192E-20 | 146556 | C16orf89 |
| -0.030816583 | 2.52002E-20 | 80314 | EPC1 |
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| -0.03089191 | 2.20382E-20 | 64123 | ELTD1 |
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| -0.030905567 | 1.96319E-20 | 5411 | PNN |
| -0.030918626 | 1.89245E-20 | 26205 | GMEB2 |
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| -0.031056931 | 1.28171E-20 | 203286 | ANKS6 |
| -0.031059502 | 1.27246E-20 | 1326 | MAP3K8 |
| -0.031063374 | 1.55332E-20 | 373156 | GSTK1 |
| -0.031076241 | 1.21369E-20 | 386724 | AMIGO3 |
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| -0.031101944 | 1.12865E-20 | 388389 | CCDC103 |
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| -0.031122437 | 1.06508E-20 | 23328 | SASH1 |
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| -0.032118097 | 0.643524349 | 0.75 | 1 | 4184 | SMCP |
| -0.032120042 | 0.643504262 | 0.772 | 1 | 64375 | IKZF4 |
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| -0.032150492 | 0.643189609 | 0.767 | 1 | 2251 | FGF6 |
| -0.032153085 | 0.643162847 | 0.737 | 1 | 7922 | SLC39A7 |
| -0.032160211 | 0.643089175 | 0.76 | 1 | 54921 | CHTF8 |
| -0.032165393 | 0.64303565 | 0.752 | 1 | 80227 | PAAF1 |
| -0.032213338 | 0.642540395 | 0.786 | 1 | 805 | CALM2 |
| -0.032216579 | 0.642506957 | 0.769 | 1 | 147179 | WIPF2 |
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| -0.032256749 | 0.642092168 | 0.756 | 1 | 10517 | FBXW10 |
| -0.032262579 | 0.642031968 | 0.764 | 1 | 26580 | BSCL2 |
| -0.032355227 | 0.64107573 | 0.783 | 1 | 54815 | GATAD2A |
| -0.032374665 | 0.640875161 | 0.777 | 1 | 644604 | EEF1A1P12 |
| -0.032377258 | 0.640848458 | 0.761 | 1 | 10238 | DCAF7 |
| -0.032381792 | 0.640801668 | 0.771 | 1 | 1487 | CTBP1 |
| -0.032411594 | 0.640494227 | 0.735 | 1 | 8495 | PPFIBP2 |
| -0.032423258 | 0.640373945 | 0.746 | 1 | 143425 | SYT9 |
| -0.03246861 | 0.639906287 | 0.766 | 1 | 55814 | BDP1 |
| -0.032477681 | 0.639812768 | 0.747 | 1 | 5905 | RANGAP1 |
| -0.032484807 | 0.639739275 | 0.76 | 1 | 156 | ADRBK1 |
| -0.032530159 | 0.639271796 | 0.72 | 1 | 83868 | TTTY13 |
| -0.032531455 | 0.639258444 | 0.781 | 1 | 51252 | FAM178B |
| -0.032534696 | 0.639225066 | 0.745 | 1 | 6605 | SMARCE1 |
| -0.032535989 | 0.639211714 | 0.766 | 1 | 56957 | OTUD7B |
| -0.032536637 | 0.639205039 | 0.751 | 1 | 11122 | PTPRT |
| -0.03256968 | 0.638864577 | 0.737 | 1 | 159 | ADSS |
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| -0.032595597 | 0.638597548 | 0.737 | 1 | 54584 | GNB1L |
| -0.03259819 | 0.638570845 | 0.762 | 1 | 27237 | ARHGEF16 |
| -0.032622162 | 0.638323963 | 0.768 | 1 | 822 | CAPG |
| -0.032640301 | 0.638137162 | 0.73 | 1 | 221927 | C7orf27 |
| -0.032644838 | 0.638090432 | 0.735 | 1 | 122970 | ACOT4 |
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| -0.032698613 | 0.637536705 | 0.737 | 1 | 100134934 | C17ORF106 |
| -0.032706387 | 0.637456715 | 0.739 | 1 | 84817 | TXNDC17 |
| -0.032796443 | 0.636529982 | 0.758 | 1 | 51084 | CRYL1 |
| -0.032844387 | 0.636036813 | 0.746 | 1 | 338799 | AC084018.1 |
| -0.032885853 | 0.635610402 | 0.763 | 1 | 148979 | GLIS1 |
| -0.032909825 | 0.635363996 | 0.742 | 1 | 10440 | TIMM17A |
| -0.032915007 | 0.635310709 | 0.754 | 1 | 5934 | RBL2 |
| -0.032927319 | 0.635184169 | 0.747 | 1 | 6573 | SLC19A1 |
| -0.032962952 | 0.634817958 | 0.754 | 1 | 145873 | MESP2 |
| -0.032964248 | 0.634804666 | 0.745 | 1 | 283446 | MYO1H |
| -0.032972023 | 0.634724736 | 0.733 | 1 | 6274 | S100A3 |
| -0.03303422 | 0.634085834 | 0.747 | 1 | 79133 | C20orf7 |
| -0.033067912 | 0.633739829 | 0.744 | 1 | 308 | ANXA5 |
| -0.033079576 | 0.633620024 | 0.713 | 1 | 4081 | MAB21L1 |
| -0.033083461 | 0.633580148 | 0.751 | 1 | 51251 | NT5C3 |
| -0.033098362 | 0.633427143 | 0.728 | 1 | 58472 | SQRDL |
| -0.033125576 | 0.633147776 | 0.755 | 1 | 4233 | MET |
| -0.033128813 | 0.633114576 | 0.748 | 1 | 1486 | CTBS |
| -0.033150844 | 0.632888436 | 0.761 | 1 | 1158 | CKM |
| -0.033165745 | 0.63273555 | 0.763 | 1 | 1763 | DNA2 |
| -0.03316769 | 0.632715523 | 0.751 | 1 | 113189 | CHST14 |
| -0.033194251 | 0.63244307 | 0.741 | 1 | 100505741 | SPATA1 |
| -0.033257097 | 0.631798387 | 0.752 | 1 | 3910 | LAMA4 |
| -0.033304393 | 0.631313443 | 0.736 | 1 | 9470 | EIF4E2 |
| -0.03334197 | 0.630928278 | 0.754 | 1 | 83538 | TTC25 |
| -0.03337048 | 0.630636096 | 0.743 | 1 | 1804 | DPP6 |
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| -0.033421014 | 0.63011837 | 0.758 | 1 | 3918 | LAMC2 |
| -0.033477381 | 0.629541039 | 0.757 | 1 | 5685 | PSMA4 |
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| -0.033632878 | 0.627949655 | 0.725 | 1 | 348262 | AC174470.1 |
| -0.033642594 | 0.627850235 | 0.73 | 1 | 7035 | TFPI |
| -0.033667214 | 0.627598464 | 0.759 | 1 | 5700 | PSMC1 |
| -0.033674341 | 0.627525568 | 0.756 | 1 | 283129 | C11orf85 |
| -0.033677582 | 0.627492428 | 0.764 | 1 | 51585 | PCF11 |
| -0.033689242 | 0.627373219 | 0.756 | 1 | 2010 | EMD |
| -0.033743668 | 0.626816869 | 0.77 | 1 | 3608 | ILF2 |
| -0.033750795 | 0.626744032 | 0.746 | 1 | 84681 | HINT2 |
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| -0.031188289 | 8.83851E-21 | 340351 | AGBL3 |
| -0.031210586 | 8.29688E-21 | 3998 | LMAN1 |
| -0.031232815 | 7.78964E-21 | 801 | CALM1 |
| -0.031241708 | 7.59539E-21 | 440577 | LOC440577 |
| -0.031249488 | 7.42932E-21 | 79072 | FASTKD3 |
| -0.031265534 | 7.09822E-21 | 10409 | BASP1 |
| -0.031303253 | 6.37625E-21 | 9815 | GIT2 |
| -0.03130367 | 6.3687E-21 | 2557 | GABRA4 |
| -0.031317353 | 6.12539E-21 | 401 | PHOX2A |
| -0.031320203 | 6.0759E-21 | 51652 | VPS24 |
| -0.031330761 | 5.89599E-21 | 10265 | IRX5 |
| -0.031341389 | 5.72016E-21 | 114880 | OSBPL6 |
| -0.031393487 | 4.93056E-21 | 8493 | PPM1D |
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| -0.033492789 | 1.01373E-23 | 2245 | FGD1 |
| -0.033514738 | 9.48259E-24 | 54952 | TRNAU1AP |
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| -0.033896588 | 2.94778E-24 | 339230 | CCDC137 |
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| -0.036631335 | 0.597605348 | 0.732 | 1 | 29925 | GMPPB |
| -0.036695477 | 0.596963525 | 0.713 | 1 | 9712 | USP6NL |
| -0.036701307 | 0.596905231 | 0.725 | 1 | 63982 | ANO3 |
| -0.036712322 | 0.596795022 | 0.709 | 1 | 22944 | KIN |
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| -0.036930662 | 0.594612837 | 0.701 | 1 | 51134 | CCDC41 |
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| -0.034443762 | 5.40153E-25 | 84303 | CHCHD6 |
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| -0.037244868 | 5.994E-29 | 8914 | TIMELESS |
| -0.037254173 | 5.80862E-29 | 9804 | TOMM20 |
| -0.037260495 | 5.68593E-29 | 30850 | CDR2L |
| -0.037280291 | 5.31804E-29 | 9866 | TRIM66 |
| -0.037280641 | 5.31176E-29 | 59350 | RXFP1 |
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| -0.037313219 | 4.75777E-29 | 126374 | WTIP |
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| -0.03735872 | 4.07872E-29 | 50964 | SOST |
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| -0.037394702 | 3.61062E-29 | 6702 | SPRR2C |
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| -0.037399843 | 3.54823E-29 | 712 | C1QA |
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| -0.040131263 | 0.563048661 | 0.703 | 1 | 83869 | TTTY14 |
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| -0.040842652 | 0.556143582 | 0.688 | 1 | 5142 | PDE4B |
| -0.040843301 | 0.556137323 | 0.714 | 1 | 3770 | KCNJ14 |
| -0.040849131 | 0.556080878 | 0.711 | 1 | 163154 | PRR22 |
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| -0.040930767 | 0.555291176 | 0.697 | 1 | 1414 | CRYBB1 |
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| -0.041042205 | 0.554214001 | 0.717 | 1 | 442038 | SULT1C3 |
| -0.041054513 | 0.554095089 | 0.713 | 1 | 79648 | MCPH1 |
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| -0.03765193 | 1.50532E-29 | 7693 | ZNF134 |
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| -0.037891585 | 6.627E-30 | 3061 | HCRTR1 |
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| -0.0380558 | 3.76605E-30 | 55526 | DHTKD1 |
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| -0.038075387 | 3.51993E-30 | 401176 | RP11-19O2.2 |
| -0.038080182 | 3.4622E-30 | 6782 | HSPA13 |
| -0.038083587 | 3.42173E-30 | 1464 | CSPG4 |
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| -0.038260441 | 1.8559E-30 | 240 | ALOX5 |
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| -0.038292814 | 1.65878E-30 | 147111 | NOTUM |
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| -0.038567893 | 6.36458E-31 | 650 | BMP2 |
| -0.038577273 | 6.15923E-31 | 55199 | FAM86C |
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| -0.038644932 | 4.86101E-31 | 128553 | TSHZ2 |
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| -0.041521646 | 0.549591422 | 0.681 | 1 | 642954 | RBBP4P1 |
| -0.041569591 | 0.549130142 | 0.649 | 1 | 116835 | HSPA12B |
| -0.041581899 | 0.549011767 | 0.696 | 1 | 11209 | RP5-1182A14.1 |
| -0.04160976 | 0.548743904 | 0.665 | 1 | 132158 | GLYCTK |
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| -0.041727029 | 0.547616959 | 0.695 | 1 | 23514 | KIAA0146 |
| -0.041740634 | 0.547486246 | 0.716 | 1 | 64927 | TTC23 |
| -0.041755535 | 0.547343194 | 0.698 | 1 | 81844 | TRIM56 |
| -0.041765902 | 0.547243655 | 0.691 | 1 | 55084 | SOBP |
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| -0.041859198 | 0.546348214 | 0.682 | 1 | 9677 | HISPPD2A |
| -0.041861143 | 0.546329558 | 0.688 | 1 | 1326 | MAP3K8 |
| -0.041868269 | 0.546261132 | 0.708 | 1 | 123720 | WHAMM |
| -0.041875396 | 0.546192765 | 0.719 | 1 | 283464 | GLT8D3 |
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| -0.04191168 | 0.545844793 | 0.701 | 1 | 23418 | CRB1 |
| -0.041912328 | 0.545838594 | 0.713 | 1 | 728047 | AC135983.8 |
| -0.041914918 | 0.545813739 | 0.683 | 1 | 55254 | TMEM39A |
| -0.041916214 | 0.545801342 | 0.71 | 1 | 6507 | SLC1A3 |
| -0.041922692 | 0.545739233 | 0.706 | 1 | 442454 | UQCRBP1 |
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| -0.041991372 | 0.545080841 | 0.674 | 1 | 4007 | PRICKLE3 |
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| -0.042093739 | 0.544100285 | 0.646 | 1 | 26058 | GIGYF2 |
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| -0.042182498 | 0.543250799 | 0.685 | 1 | 8533 | COPS3 |
| -0.042191569 | 0.543164015 | 0.671 | 1 | 4303 | FOXO4 |
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| -0.042325683 | 0.5418818 | 0.699 | 1 | 25807 | RHBDD3 |
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| -0.039316934 | 4.52917E-32 | 166929 | SGMS2 |
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| -0.044448834 | 0.521784604 | 0.677 | 1 | 246181 | AKR7L |
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| -0.044511035 | 0.521201611 | 0.661 | 1 | 929 | CD14 |
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| -0.044652276 | 0.519879043 | 0.666 | 1 | 285148 | IAH1 |
| -0.044679485 | 0.519624472 | 0.659 | 1 | 55697 | VAC14 |
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| -0.044686612 | 0.519557834 | 0.665 | 1 | 79155 | TNIP2 |
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| -0.044707995 | 0.5193578 | 0.671 | 1 | 729769 | UQCRHP2 |
| -0.044737149 | 0.519085169 | 0.7 | 1 | 26610 | ELP4 |
| -0.044748813 | 0.518976033 | 0.653 | 1 | 4285 | MIPEP |
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| -0.043911483 | 1.37315E-39 | 1663 | DDX11 |
| -0.043918915 | 1.3332E-39 | 286826 | LIN9 |
| -0.043933574 | 1.2577E-39 | 256148 | OR4S1 |
| -0.044023115 | 8.80671E-40 | 3482 | IGF2R |
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| -0.044059098 | 7.62999E-40 | 11057 | ABHD2 |
| -0.044065349 | 7.44227E-40 | 79709 | GLT25D1 |
| -0.044108763 | 6.25859E-40 | 255180 | FLJ38723 |
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| -0.044291526 | 3.01285E-40 | 10319 | LAMC3 |
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| -0.044483945 | 1.39093E-40 | 353144 | LCE3C |
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| -0.044624612 | 7.88875E-41 | 7428 | VHL |
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| -0.044702966 | 5.74757E-41 | 91 | ACVR1B |
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| -0.049636532 | 0.474331319 | 0.642 | 1 | 348801 | LNP1 |
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| -0.050014254 | 0.470970571 | 0.629 | 1 | 3066 | HDAC2 |
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| -0.050296087 | 0.468471527 | 0.623 | 1 | 23082 | PPRC1 |
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| -0.050653078 | 0.465316623 | 0.649 | 1 | 89845 | ABCC10 |
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| -0.04477163 | 6.68924E-41 | 760 | CA2 |
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| -0.04489594 | 2.62884E-41 | 9595 | CYTIP |
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| -0.044938732 | 2.20901E-41 | 1909 | EDNRA |
| -0.044940244 | 2.20228E-41 | 50484 | RRM2B |
| -0.044968393 | 1.95789E-41 | 7042 | TGFB2 |
| -0.044969436 | 1.94949E-41 | 4942 | OAT |
| -0.044970755 | 1.93912E-41 | 8576 | STK16 |
| -0.044978675 | 1.87774E-41 | 4547 | MTTP |
| -0.04500502 | 1.7093E-41 | 2200 | FBN1 |
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| -0.045015421 | 1.61682E-41 | 79442 | LRRC2 |
| -0.045020975 | 1.58066E-41 | 57524 | CASKIN1 |
| -0.045032021 | 1.51116E-41 | 9420 | CYP7B1 |
| -0.045043763 | 1.44053E-41 | 22979 | EFR3B |
| -0.045059323 | 1.35197E-41 | 23178 | PASK |
| -0.045065366 | 1.3189E-41 | 84867 | PTPN5 |
| -0.045067031 | 1.30993E-41 | 199786 | FAM129C |
| -0.045117602 | 1.06583E-41 | 149461 | CLDN19 |
| -0.045118645 | 1.06134E-41 | 10549 | PRDX4 |
| -0.04512288 | 1.04313E-41 | 49860 | CRNN |
| -0.045129899 | 1.0137E-41 | 8547 | FCN3 |
| -0.045137815 | 9.81469E-42 | 8897 | MTMR3 |
| -0.045138583 | 9.78387E-42 | 5005 | ORM2 |
| -0.045179218 | 8.28448E-42 | 23154 | NCDN |
| -0.04518554 | 8.07708E-42 | 57678 | GPAM |
| -0.045186095 | 8.05747E-42 | 64407 | RGS18 |
| -0.045203045 | 7.51656E-42 | 143425 | SYT9 |
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| -0.045323081 | 4.59626E-42 | 221178 | SPATA13 |
| -0.045337666 | 4.33281E-42 | 3930 | LBR |
| -0.045338709 | 4.31039E-42 | 401548 | SNX30 |
| -0.04533989 | 4.29358E-42 | 55175 | KLHL11 |
| -0.045391433 | 3.47522E-42 | 11092 | C9orf9 |
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| -0.045403522 | 3.30426E-42 | 4046 | LSP1 |
| -0.045406993 | 3.25662E-42 | 54620 | FBXL19 |
| -0.045412827 | 3.18095E-42 | 27255 | CNTN6 |
| -0.04542179 | 3.06604E-42 | 132001 | C3orf31 |
| -0.04542679 | 3.00438E-42 | 114991 | ZNF618 |
| -0.045438252 | 2.86425E-42 | 6422 | SFRP1 |
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| -0.045477431 | 2.43826E-42 | 10278 | EFS |
| -0.045492712 | 2.28972E-42 | 387644 | LINC00202 |
| -0.045495354 | 2.2645E-42 | 9145 | SYNGR1 |
| -0.045522027 | 2.02908E-42 | 389075 | RESP18 |
| -0.045553841 | 1.78245E-42 | 388564 | TMEM238 |
| -0.045559816 | 1.73761E-42 | 10238 | DCAF7 |
| -0.045581561 | 1.58627E-42 | 199731 | CADM4 |
| -0.045604412 | 1.44614E-42 | 348013 | FAM70B |
| -0.045618515 | 1.36206E-42 | 10897 | YIF1A |
| -0.045642357 | 1.90577E-42 | 1534 | CYB561 |
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| -0.045646299 | 1.21633E-42 | 4987 | OPRL1 |
| -0.04566193 | 1.13785E-42 | 80344 | WDR23 |
| -0.045670681 | 1.09862E-42 | 128178 | EDARADD |
| -0.045690481 | 1.01454E-42 | 57175 | CORO1B |
| -0.045698885 | 9.78106E-43 | 338321 | NLRP9 |

| | | | | | |
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| -0.050962124 | 0.462594837 | 0.627 | 1 | 22920 | KIFAP3 |
| -0.050971195 | 0.462515026 | 0.619 | 1 | 3212 | HOXB2 |
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| -0.051144183 | 0.460995555 | 0.674 | 1 | 163882 | C1orf71 |
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| -0.051208973 | 0.460427135 | 0.643 | 1 | 6059 | ABCE1 |
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| -0.051234242 | 0.460205585 | 0.624 | 1 | 5866 | RAB3IL1 |
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| -0.051278297 | 0.459819406 | 0.636 | 1 | 1310 | COL19A1 |
| -0.051284775 | 0.459762633 | 0.638 | 1 | 9208 | LRRFIP1 |
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| -0.051341791 | 0.459263176 | 0.643 | 1 | 6499 | SKIV2L |
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| -0.051404636 | 0.458713025 | 0.63 | 1 | 29948 | OSGIN1 |
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| -0.051405285 | 0.458707333 | 0.613 | 1 | 27111 | SDCBP2 |
| -0.051412411 | 0.458644956 | 0.604 | 1 | 7462 | LAT2 |
| -0.051413707 | 0.458633602 | 0.637 | 1 | 11082 | ESM1 |
| -0.051413707 | 0.458633602 | 0.591 | 1 | 79987 | SVEP1 |
| -0.051459707 | 0.458231181 | 0.648 | 1 | 1438 | CSF2RA |
| -0.05151413 | 0.457755297 | 0.643 | 1 | 1652 | DDT |
| -0.051532272 | 0.457596749 | 0.618 | 1 | 7515 | XRCC1 |
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| -0.051987741 | 0.453625679 | 0.606 | 1 | 27243 | CHMP2A |
| -0.052008476 | 0.453445375 | 0.639 | 1 | 54790 | TET2 |
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| -0.045814473 | 6.05361E-43 | 3398 | ID2 |
| -0.045816559 | 5.99756E-43 | 3910 | LAMA4 |
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| -0.045824409 | 5.8294E-43 | 283491 | OR7E156P |
| -0.045859903 | 5.01665E-43 | 64778 | FNDC3B |
| -0.045868449 | 4.84849E-43 | 56852 | RAD18 |
| -0.045879632 | 4.62428E-43 | 79017 | GGCT |
| -0.045880605 | 4.59626E-43 | 51458 | RHCG |
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| -0.045907557 | 4.11982E-43 | 140893 | C20orf151 |
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| -0.045917284 | 3.95166E-43 | 80221 | ACSF2 |
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| -0.046202436 | 1.20512E-43 | 54753 | AC073343.8 |
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| -0.052225519 | 0.451560289 | 0.604 | 1 | 7079 | TIMP4 |
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| -0.052846849 | 0.446188271 | 0.637 | 1 | 1757 | SARDH |
| -0.052868232 | 0.446004033 | 0.613 | 1 | 10223 | GPA33 |
| -0.05287471 | 0.445948213 | 0.647 | 1 | 84259 | DCUN1D5 |
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| -0.052898034 | 0.445747346 | 0.619 | 1 | 134083 | OR2Y1 |
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| -0.053089164 | 0.444103003 | 0.62 | 1 | 64285 | RHBDF1 |
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| -0.053149417 | 0.443585426 | 0.598 | 1 | 255928 | SYT14 |
| -0.053150713 | 0.443574309 | 0.618 | 1 | 80195 | RP11-369J21.1 |
| -0.053170796 | 0.443401814 | 0.61 | 1 | 10492 | SYNCRIP |
| -0.053186346 | 0.443268299 | 0.635 | 1 | 55909 | BIN3 |
| -0.053197362 | 0.443173766 | 0.65 | 1 | 23256 | SCFD1 |
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| -0.05367551 | 0.439080209 | 0.582 | 1 | 259289 | TAS2R43 |
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| -0.08263123 | 0.233130619 | 0.434 | 1 | 23560 | GTPBP4 |
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| -0.380088896 | 1.26942E-08 | 0.001 | 1 | 51289 | RXFP3 |
| -0.381643832 | 1.09486E-08 | < 0.001 | < 0.001 | 283899 | INO80E |
| -0.383093834 | 9.5312E-09 | < 0.001 | < 0.001 | 79744 | ZNF419 |
| -0.384085119 | 8.6659E-09 | < 0.001 | < 0.001 | 163050 | ZNF564 |
| -0.385129511 | 7.83642E-09 | < 0.001 | < 0.001 | 147807 | ZNF524 |
| -0.391856611 | 4.06416E-09 | < 0.001 | < 0.001 | 23534 | TNPO3 |
| -0.392795414 | 3.70392E-09 | < 0.001 | < 0.001 | 84693 | MCEE |
| -0.394071102 | 3.26356E-09 | < 0.001 | < 0.001 | 2875 | GPT |
| -0.398913473 | 2.00856E-09 | < 0.001 | < 0.001 | 81790 | RNF170 |
| -0.399483621 | 1.89601E-09 | < 0.001 | < 0.001 | 23378 | RRP8 |
| -0.400516361 | 1.70747E-09 | < 0.001 | < 0.001 | 51322 | WAC |
| -0.404013723 | 1.19442E-09 | < 0.001 | < 0.001 | 84959 | UBASH3B |
| -0.406666845 | 9.08271E-10 | < 0.001 | < 0.001 | 149041 | RC3H1 |
| -0.406928599 | 8.8394E-10 | < 0.001 | < 0.001 | 10201 | NME6 |
| -0.416624337 | 3.17985E-10 | < 0.001 | < 0.001 | 100128927 | ZBTB42 |
| -0.448633581 | 8.5531E-12 | < 0.001 | < 0.001 | 2584 | GALK1 |

**Reward (single-site) Subcortex**

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.489784211 | < 0.001 | 4192 | MDK |
| 0.484031945 | < 0.001 | 3070 | HELLS |
| 0.479591697 | < 0.001 | 5932 | RBBP8 |
| 0.457360774 | < 0.001 | 466 | ATF1 |
| 0.455161273 | < 0.001 | 3875 | KRT18P19 |
| 0.452684462 | < 0.001 | 29126 | CD274 |
| 0.449442774 | < 0.001 | 492307 | C8orf22 |
| 0.445959032 | < 0.001 | 57167 | SALL4 |
| 0.44372952 | < 0.001 | 6425 | SFRP5 |
| 0.443410397 | < 0.001 | 5367 | PMCH |
| 0.441568494 | < 0.001 | 23358 | USP24 |
| 0.439973414 | < 0.001 | 4267 | CD99 |
| 0.435941905 | < 0.001 | 387882 | C12ORF75 |
| 0.432942182 | < 0.001 | 287015 | TRIM42 |
| 0.432577968 | < 0.001 | 55520 | ELAC1 |
| 0.432181746 | < 0.001 | 4439 | MSH5 |
| 0.432064503 | < 0.001 | 285282 | RABL3 |
| 0.431986541 | < 0.001 | 256933 | NPB |
| 0.431719095 | < 0.001 | 127 | ADH4 |
| 0.429574013 | < 0.001 | 284085 | KRT18P55 |
| 0.429370701 | < 0.001 | 27344 | PCSK1N |
| 0.42907846 | < 0.001 | 161823 | ADAL |
| 0.42696172 | < 0.001 | 342357 | ZKSCAN2 |
| 0.426832348 | < 0.001 | 23165 | NUP205 |
| 0.426595956 | < 0.001 | 9015 | TAF1A |
| 0.426200688 | < 0.001 | 100289274 | DNAJC3-AS1 |
| 0.422038913 | < 0.001 | 7485 | WRB |
| 0.421198606 | < 0.001 | 84105 | PCBD2 |
| 0.420984656 | < 0.001 | 94241 | TP53INP1 |
| 0.420389056 | < 0.001 | 4750 | NEK1 |
| 0.41940701 | < 0.001 | 3589 | IL11 |
| 0.41912806 | < 0.001 | 6175 | RPLP0P3 |
| 0.419058263 | < 0.001 | 10827 | FAM114A2 |
| 0.418826431 | < 0.001 | 146198 | ZFP90 |
| 0.414549559 | < 0.001 | 9597 | SMAD5OS |
| 0.414384872 | < 0.001 | 85364 | ZCCHC3 |
| 0.41357559 | < 0.001 | 993 | CDC25A |
| 0.412897438 | < 0.001 | 6527 | SLC5A4 |
| 0.412569731 | < 0.001 | 23479 | ISCU |
| 0.412237227 | < 0.001 | 28227 | PPP2R3B |
| 0.412213027 | < 0.001 | 80726 | KIAA1683 |
| 0.409718722 | < 0.001 | 126123 | C19orf41 |
| 0.409588188 | < 0.001 | 252969 | NEIL2 |
| 0.409471214 | < 0.001 | 5716 | PSMD10 |
| 0.409237713 | < 0.001 | 100272217 | LOC100272217 |
| 0.407795995 | < 0.001 | 751071 | METTL12 |
| 0.407392472 | < 0.001 | 5727 | PTCH1 |
| 0.405068606 | < 0.001 | 55236 | UBA6 |
| 0.404598624 | < 0.001 | 9274 | BCL7C |
| 0.404360712 | < 0.001 | 1102 | RCBTB2 |
| 0.404353052 | < 0.001 | 55364 | IMPACT |
| 0.402610272 | < 0.001 | 22943 | DKK1 |
| 0.402566254 | < 0.001 | 283229 | EFCAB4A |
| 0.402449459 | < 0.001 | 58529 | MYOZ1 |
| 0.402295142 | < 0.001 | 6150 | MRPL23 |
| 0.402025193 | < 0.001 | 79363 | C1orf89 |
| 0.401737213 | < 0.001 | 100505929 | C21orf37 |
| 0.400327176 | < 0.001 | 222068 | TMED4 |
| 0.399530143 | < 0.001 | 81567 | TXNDC5 |
| 0.399046957 | < 0.001 | 284013 | VMO1 |
| 0.398796618 | < 0.001 | 120103 | SLC36A4 |
| 0.398371845 | < 0.001 | 28970 | C11orf54 |
| 0.397852331 | < 0.001 | 388015 | RTL1 |
| 0.397809386 | < 0.001 | 11201 | POLI |
| 0.397191793 | < 0.001 | 5885 | RAD21 |
| 0.396578074 | < 0.001 | 26009 | ZZZ3 |
| 0.395718396 | < 0.001 | 399959 | MIR100HG |
| 0.394866645 | < 0.001 | 28962 | OSTM1 |
| 0.394779176 | < 0.001 | 55179 | FAIM |
| 0.394440413 | < 0.001 | 92667 | C20orf72 |
| 0.394165933 | < 0.001 | 79692 | ZNF322 |
| 0.393469751 | < 0.001 | 22862 | FNDC3A |
| 0.392926455 | < 0.001 | 51191 | HERC5 |
| 0.390999943 | < 0.001 | 7695 | ZNF136 |
| 0.39056313 | < 0.001 | 1062 | CENPE |
| 0.39008081 | < 0.001 | 285349 | ZNF660 |
| 0.389587671 | < 0.001 | 139189 | DGKK |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.811068177 | 1.71212E-07 | < 0.001 | < 0.001 | 284013 | VMO1 |
| 0.806949794 | 1.90778E-07 | < 0.001 | < 0.001 | 28962 | OSTM1 |
| 0.803088784 | 2.10187E-07 | < 0.001 | < 0.001 | 4192 | MDK |
| 0.794851959 | 2.55574E-07 | < 0.001 | < 0.001 | 3875 | KRT18P19 |
| 0.787902176 | 2.99085E-07 | < 0.001 | < 0.001 | 4750 | NEK1 |
| 0.78532815 | 3.16722E-07 | < 0.001 | < 0.001 | 4267 | CD99 |
| 0.784041226 | 3.259E-07 | < 0.001 | < 0.001 | 23358 | USP24 |
| 0.783783793 | 3.27772E-07 | < 0.001 | < 0.001 | 1102 | RCBTB2 |
| 0.780437589 | 3.53032E-07 | < 0.001 | < 0.001 | 84105 | PCBD2 |
| 0.777091384 | 3.80372E-07 | < 0.001 | < 0.001 | 55364 | IMPACT |
| 0.773230374 | 4.14955E-07 | < 0.001 | < 0.001 | 53840 | TRIM34 |
| 0.763706565 | 5.18767E-07 | < 0.001 | < 0.001 | 7485 | WRB |
| 0.76036036 | 5.63435E-07 | < 0.001 | < 0.001 | 466 | ATF1 |
| 0.760102928 | 5.67093E-07 | < 0.001 | < 0.001 | 161823 | ADAL |
| 0.758558512 | 5.89716E-07 | < 0.001 | < 0.001 | 378 | ARF4 |
| 0.757786334 | 6.0151E-07 | < 0.001 | < 0.001 | 51191 | HERC5 |
| 0.755984545 | 6.30339E-07 | < 0.001 | < 0.001 | 358 | AQP1 |
| 0.754182696 | 6.61129E-07 | < 0.001 | < 0.001 | 29126 | CD274 |
| 0.752123535 | 6.98998E-07 | < 0.001 | < 0.001 | 55520 | ELAC1 |
| 0.751351357 | 7.1397E-07 | < 0.001 | < 0.001 | 84217 | ZMYND12 |
| 0.750579178 | 7.2939E-07 | < 0.001 | < 0.001 | 1474 | CST6 |
| 0.747490346 | 7.95984E-07 | < 0.001 | < 0.001 | 2963 | GTF2F2 |
| 0.747490346 | 7.95984E-07 | < 0.001 | < 0.001 | 284085 | KRT18P55 |
| 0.74594593 | 8.3246E-07 | < 0.001 | < 0.001 | 60487 | TRMT11 |
| 0.74594593 | 8.3246E-07 | < 0.001 | < 0.001 | 256933 | NPB |
| 0.745431185 | 8.45129E-07 | < 0.001 | < 0.001 | 400750 | LOC400750 |
| 0.745173752 | 8.51555E-07 | < 0.001 | < 0.001 | 5992 | RFX4 |
| 0.743629336 | 8.91589E-07 | < 0.001 | < 0.001 | 5885 | RAD21 |
| 0.742857099 | 9.12552E-07 | < 0.001 | < 0.001 | 79692 | ZNF322 |
| 0.742342353 | 9.26915E-07 | < 0.001 | < 0.001 | 54838 | C10orf26 |
| 0.740797937 | 9.71807E-07 | < 0.001 | < 0.001 | 121441 | NEDD1 |
| 0.740283072 | 9.8743E-07 | < 0.001 | < 0.001 | 4200 | ME2 |
| 0.739768326 | 1.00339E-06 | < 0.001 | < 0.001 | 374819 | LRRC37A3 |
| 0.739510894 | 1.01148E-06 | < 0.001 | < 0.001 | 387882 | C12ORF75 |
| 0.738996148 | 1.02795E-06 | < 0.001 | < 0.001 | 89832 | CHRFAM7A |
| 0.73822391 | 1.05331E-06 | < 0.001 | < 0.001 | 6448 | SGSH |
| 0.735907376 | 1.13448E-06 | < 0.001 | < 0.001 | 441295 | OR2A9P |
| 0.735649943 | 1.144E-06 | < 0.001 | < 0.001 | 3309 | HSPA5 |
| 0.735392511 | 1.15361E-06 | < 0.001 | < 0.001 | 80726 | KIAA1683 |
| 0.734877765 | 1.17315E-06 | < 0.001 | < 0.001 | 81567 | TXNDC5 |
| 0.734105527 | 1.20324E-06 | < 0.001 | < 0.001 | 8505 | PARG |
| 0.734105527 | 1.20324E-06 | < 0.001 | < 0.001 | 9015 | TAF1A |
| 0.734105527 | 1.20324E-06 | < 0.001 | < 0.001 | 140699 | C20orf132 |
| 0.732561111 | 1.26647E-06 | < 0.001 | < 0.001 | 10473 | HMGN4 |
| 0.732046306 | 1.28847E-06 | < 0.001 | < 0.001 | 27348 | TOR1B |
| 0.732046306 | 1.28847E-06 | < 0.001 | < 0.001 | 55805 | LRP2BP |
| 0.730244517 | 1.36932E-06 | < 0.001 | < 0.001 | 22862 | FNDC3A |
| 0.729987085 | 1.38135E-06 | < 0.001 | < 0.001 | 11201 | POLI |
| 0.729729712 | 1.39355E-06 | < 0.001 | < 0.001 | 3070 | HELLS |
| 0.729214907 | 1.41833E-06 | < 0.001 | < 0.001 | 57577 | KIAA1407 |
| 0.729214907 | 1.41833E-06 | < 0.001 | < 0.001 | 200316 | APOBEC3F |
| 0.727927923 | 1.48266E-06 | < 0.001 | < 0.001 | 22931 | RAB18 |
| 0.727155745 | 1.52295E-06 | < 0.001 | < 0.001 | 11119 | BTN3A1 |
| 0.725868702 | 1.59309E-06 | < 0.001 | < 0.001 | 3589 | IL11 |
| 0.725611329 | 1.60759E-06 | < 0.001 | < 0.001 | 7570 | ZNF22 |
| 0.724324286 | 1.68245E-06 | < 0.001 | < 0.001 | 94241 | TP53INP1 |
| 0.72380954 | 1.71355E-06 | < 0.001 | < 0.001 | 441024 | MTHFD2L |
| 0.722522497 | 1.79428E-06 | < 0.001 | < 0.001 | 60436 | TGIF2 |
| 0.722522497 | 1.79428E-06 | < 0.001 | < 0.001 | 285282 | RABL3 |
| 0.722007751 | 1.82782E-06 | < 0.001 | < 0.001 | 158880 | USP51 |
| 0.721492887 | 1.86208E-06 | < 0.001 | < 0.001 | 23165 | NUP205 |
| 0.720978141 | 1.89709E-06 | < 0.001 | < 0.001 | 55163 | PNPO |
| 0.719948471 | 1.9694E-06 | < 0.001 | < 0.001 | 326 | AIRE |
| 0.719176292 | 2.02573E-06 | < 0.001 | < 0.001 | 6284 | S100A13 |
| 0.718661547 | 2.06431E-06 | < 0.001 | < 0.001 | 100289274 | DNAJC3-AS1 |
| 0.718404114 | 2.08391E-06 | < 0.001 | < 0.001 | 51015 | ISOC1 |
| 0.718404114 | 2.08391E-06 | < 0.001 | < 0.001 | 54499 | TMCO1 |
| 0.718404114 | 2.08391E-06 | < 0.001 | < 0.001 | 441150 | C6orf226 |
| 0.717631936 | 2.14397E-06 | < 0.001 | < 0.001 | 286256 | LCN12 |
| 0.716602325 | 2.22714E-06 | < 0.001 | < 0.001 | 23658 | LSM5 |
| 0.715572715 | 2.31393E-06 | < 0.001 | < 0.001 | 100127983 | RP11-122A3.2 |
| 0.714800477 | 2.38151E-06 | < 0.001 | < 0.001 | 4439 | MSH5 |
| 0.714543104 | 2.40452E-06 | < 0.001 | < 0.001 | 55179 | FAIM |
| 0.714285731 | 2.42778E-06 | < 0.001 | < 0.001 | 79042 | TSEN34 |
| 0.714028299 | 2.45129E-06 | < 0.001 | < 0.001 | 6576 | SLC25A1 |
| 0.712741315 | 2.57261E-06 | < 0.001 | < 0.001 | 22981 | NINL |
| 0.712741315 | 2.57261E-06 | < 0.001 | < 0.001 | 91151 | TIGD7 |

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|---|---|---|---|
| 0.389259815 | < 0.001 | 6157 | RPL27A |
| 0.389076293 | < 0.001 | 51015 | ISOC1 |
| 0.38869676 | < 0.001 | 441150 | C6orf226 |
| 0.388432324 | < 0.001 | 57577 | KIAA1407 |
| 0.387946695 | < 0.001 | 326 | AIRE |
| 0.387257695 | < 0.001 | 48 | ACO1 |
| 0.386962503 | < 0.001 | 651302 | ZNF192P1 |
| 0.386627674 | < 0.001 | 8881 | CDC16 |
| 0.386371493 | < 0.001 | 51008 | ASCC1 |
| 0.386110485 | < 0.001 | 100128327 | BET3L |
| 0.385342032 | < 0.001 | 60492 | CCDC90B |
| 0.385089755 | < 0.001 | 55351 | STK32B |
| 0.384865105 | < 0.001 | 399697 | CTXN2 |
| 0.384692401 | < 0.001 | 64081 | PBLD |
| 0.384606421 | < 0.001 | 390705 | LOC390705 |
| 0.384529948 | < 0.001 | 5073 | PARN |
| 0.384504914 | < 0.001 | 7576 | ZNF28 |
| 0.384360641 | < 0.001 | 54499 | TMCO1 |
| 0.384106189 | < 0.001 | 60487 | TRMT11 |
| 0.384064972 | < 0.001 | 6320 | CLEC11A |
| 0.383724451 | < 0.001 | 3832 | KIF11 |
| 0.383554131 | < 0.001 | 1081 | CGA |
| 0.383086741 | < 0.001 | 284129 | SLC26A11 |
| 0.381585419 | < 0.001 | 84217 | ZMYND12 |
| 0.38119936 | < 0.001 | 54900 | LAX1 |
| 0.381094337 | < 0.001 | 53840 | TRIM34 |
| 0.380605817 | < 0.001 | 9852 | EPM2AIP1 |
| 0.380553961 | < 0.001 | 121441 | NEDD1 |
| 0.380448431 | < 0.001 | 9358 | ITGBL1 |
| 0.380245477 | < 0.001 | 886 | CCKAR |
| 0.379860938 | < 0.001 | 26471 | NUPR1 |
| 0.379800022 | < 0.001 | 64858 | DCLRE1B |
| 0.379665613 | < 0.001 | 8600 | TNFSF11 |
| 0.379147708 | < 0.001 | 26958 | COPG2 |
| 0.378609985 | < 0.001 | 6284 | S100A13 |
| 0.377562493 | < 0.001 | 389765 | LOC389765 |
| 0.377143025 | < 0.001 | 170082 | TCEANC |
| 0.376744896 | < 0.001 | 11063 | SOX30 |
| 0.376450807 | < 0.001 | 252839 | TMEM9 |
| 0.376278222 | < 0.001 | 6636 | SNRPF |
| 0.37603873 | < 0.001 | 144608 | C12orf60 |
| 0.375634193 | < 0.001 | 158880 | USP51 |
| 0.375477105 | < 0.001 | 200810 | ALG1L |
| 0.375441998 | < 0.001 | 2054 | STX2 |
| 0.375123858 | < 0.001 | 81888 | HYI |
| 0.374909163 | < 0.001 | 51645 | PPIL1 |
| 0.374540418 | < 0.001 | 868 | CBLB |
| 0.374400198 | < 0.001 | 136647 | C7orf11 |
| 0.374113202 | < 0.001 | 89970 | RSPRY1 |
| 0.374057442 | < 0.001 | 55365 | TMEM176A |
| 0.373434395 | < 0.001 | 6936 | C2orf3 |
| 0.372916579 | < 0.001 | 79893 | GGNBP2 |
| 0.372371465 | < 0.001 | 54823 | C1orf26 |
| 0.372278005 | < 0.001 | 122773 | KLHDC1 |
| 0.372276753 | < 0.001 | 11119 | BTN3A1 |
| 0.371884108 | < 0.001 | 391358 | TRMT112P6 |
| 0.371733338 | < 0.001 | 100129792 | CCDC152 |
| 0.371222079 | < 0.001 | 54838 | C10orf26 |
| 0.371008068 | < 0.001 | 80184 | CEP290 |
| 0.370883256 | < 0.001 | 538 | ATP7A |
| 0.370789796 | < 0.001 | 54793 | KCTD9 |
| 0.370267391 | < 0.001 | 9818 | NUPL1 |
| 0.369974554 | < 0.001 | 84908 | FAM136A |
| 0.369651735 | < 0.001 | 1389 | CREBL2 |
| 0.369618863 | < 0.001 | 4199 | ME1 |
| 0.369618028 | < 0.001 | 399821 | RP11-383C5.4 |
| 0.369597584 | < 0.001 | 347736 | TXNDC6 |
| 0.369565427 | < 0.001 | 286256 | LCN12 |
| 0.369472444 | < 0.001 | 84883 | AIFM2 |
| 0.369090497 | < 0.001 | 797 | CALCB |
| 0.368967026 | < 0.001 | 56884 | FSTL5 |
| 0.368707269 | < 0.001 | 646719 | LOC646719 |
| 0.368537456 | < 0.001 | 59336 | PRDM13 |
| 0.368521422 | < 0.001 | 84520 | C14orf142 |
| 0.367852628 | < 0.001 | 5884 | RAD17 |
| 0.367827982 | < 0.001 | 140699 | C20orf132 |
| 0.367615253 | < 0.001 | 57333 | RCN3 |
| 0.367568403 | < 0.001 | 389705 | LOC389705 |
| 0.367040902 | < 0.001 | 23741 | EID1 |
| 0.367014498 | < 0.001 | 201158 | FAM18B2 |
| 0.367001027 | < 0.001 | 6870 | TACR3 |
| 0.366949111 | < 0.001 | 60436 | TGIF2 |

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|---|---|---|---|---|---|
| 0.71222651 | 2.62301E-06 | < 0.001 | < 0.001 | 113178 | SCAMP4 |
| 0.711711705 | 2.67448E-06 | < 0.001 | < 0.001 | 2353 | FOS |
| 0.711711705 | 2.67448E-06 | < 0.001 | < 0.001 | 167410 | LIX1 |
| 0.710424662 | 2.808E-06 | < 0.001 | < 0.001 | 5367 | PMCH |
| 0.710424662 | 2.808E-06 | < 0.001 | < 0.001 | 57167 | SALL4 |
| 0.710424662 | 2.808E-06 | < 0.001 | < 0.001 | 399959 | MIR100HG |
| 0.709909916 | 2.86341E-06 | < 0.001 | < 0.001 | 136647 | C7orf11 |
| 0.707850695 | 3.09707E-06 | < 0.001 | < 0.001 | 6175 | RPLP0P3 |
| 0.707850695 | 3.09707E-06 | < 0.001 | < 0.001 | 619208 | C6orf225 |
| 0.707335889 | 3.15865E-06 | < 0.001 | < 0.001 | 56890 | MDM1 |
| 0.707078516 | 3.18989E-06 | < 0.001 | < 0.001 | 10023 | FRAT1 |
| 0.707078516 | 3.18989E-06 | < 0.001 | < 0.001 | 55937 | APOM |
| 0.707078516 | 3.18989E-06 | < 0.001 | < 0.001 | 391358 | TRMT112P6 |
| 0.706821084 | 3.2215E-06 | < 0.001 | < 0.001 | 5020 | OXT |
| 0.706821084 | 3.2215E-06 | < 0.001 | < 0.001 | 89970 | RSPRY1 |
| 0.706306279 | 3.28569E-06 | < 0.001 | < 0.001 | 1836 | SLC26A2 |
| 0.706306279 | 3.28569E-06 | < 0.001 | < 0.001 | 100272217 | LOC100272217 |
| 0.705276668 | 3.41814E-06 | < 0.001 | < 0.001 | 6636 | SNRPF |
| 0.703732312 | 3.62746E-06 | < 0.001 | < 0.001 | 284129 | SLC26A11 |
| 0.702960074 | 3.73708E-06 | < 0.001 | < 0.001 | 3437 | IFIT3 |
| 0.702187896 | 3.85021E-06 | < 0.001 | < 0.001 | 94235 | GNG8 |
| 0.700900853 | 4.0467E-06 | < 0.001 | < 0.001 | 8355 | HIST1H3G |
| 0.700643539 | 4.08722E-06 | < 0.001 | < 0.001 | 81888 | HYI |
| 0.699871302 | 4.21129E-06 | < 0.001 | < 0.001 | 7166 | TPH1 |
| 0.699613929 | 4.25352E-06 | < 0.001 | < 0.001 | 868 | CBLB |
| 0.699356496 | 4.29617E-06 | < 0.001 | < 0.001 | 10519 | CIB1 |
| 0.699356496 | 4.29617E-06 | < 0.001 | < 0.001 | 58529 | MYOZ1 |
| 0.698069513 | 4.51611E-06 | < 0.001 | < 0.001 | 5074 | PAWR |
| 0.69781208 | 4.56142E-06 | < 0.001 | < 0.001 | 6748 | SSR4 |
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| 0.651994824 | 2.59913E-05 | < 0.001 | < 0.001 | 83449 | PMFBP1 |
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| 0.646332026 | 3.1855E-05 | < 0.001 | < 0.001 | 6150 | MRPL23 |
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| 0.555727124 | 0.000535653 | 0.001 | 1 | 6727 | SRP14 |
| 0.555727124 | 0.000535653 | 0.001 | 1 | 51135 | IRAK4 |
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| 0.554954946 | 0.000546955 | 0.001 | 1 | 1315 | COPB1 |
| 0.554954946 | 0.000546955 | 0.001 | 1 | 25894 | PLEKHG4 |
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| 0.554954946 | 0.000546955 | < 0.001 | < 0.001 | 79823 | C2orf34 |
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| 0.554697514 | 0.000550767 | < 0.001 | < 0.001 | 26146 | TRAF3IP1 |
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| 0.554697514 | 0.000550767 | < 0.001 | < 0.001 | 113510 | HELQ |
| 0.554440141 | 0.000554604 | 0.002 | 1 | 79892 | C10orf119 |
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| 0.554182768 | 0.000558466 | 0.001 | 1 | 203547 | VMA21 |
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| 0.552895784 | 0.000578133 | < 0.001 | < 0.001 | 10175 | CNIH |
| 0.552895784 | 0.000578133 | < 0.001 | < 0.001 | 340252 | ZNF680 |
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| 0.547490358 | 0.000667639 | < 0.001 | < 0.001 | 6428 | SRSF3 |
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| 0.547232926 | 0.000672194 | 0.001 | 1 | 253559 | CADM2 |
| 0.546975493 | 0.000676774 | 0.001 | 1 | 6016 | RIT1 |
| 0.546975493 | 0.000676774 | < 0.001 | < 0.001 | 55671 | SMEK1 |
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| 0.292815775 | < 0.001 | 26263 | FBXO22 |
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| 0.292587698 | < 0.001 | 4055 | LTBR |
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| 0.292425096 | < 0.001 | 55151 | TMEM38B |
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| 0.292355001 | < 0.001 | 3687 | ITGAX |
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| 0.291626483 | < 0.001 | 9992 | KCNE2 |
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| 0.291436851 | < 0.001 | 23440 | OTP |
| 0.291415542 | < 0.001 | 5271 | SERPINB8 |
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| 0.290861368 | < 0.001 | 647030 | LOC647030 |
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| 0.289282739 | < 0.001 | 6259 | RYK |
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| 0.28919512 | < 0.001 | 84460 | ZMAT1 |
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| 0.289004236 | < 0.001 | 1678 | TIMM8A |
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| 0.546975493 | 0.000676774 | < 0.001 | < 0.001 | 126859 | C1orf125 |
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| 0.54671818 | 0.000681383 | < 0.001 | < 0.001 | 790955 | C11orf83 |
| 0.546460748 | 0.000686022 | < 0.001 | < 0.001 | 9669 | EIF5B |
| 0.546460748 | 0.000686022 | 0.001 | 1 | 494513 | DFNB59 |
| 0.546203315 | 0.000690687 | 0.001 | 1 | 5873 | RAB27A |
| 0.546203315 | 0.000690687 | < 0.001 | < 0.001 | 29952 | DPP7 |
| 0.545945942 | 0.00069538 | < 0.001 | < 0.001 | 444 | ASPH |
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| 0.545945942 | 0.00069538 | < 0.001 | < 0.001 | 404734 | ANKHD1-EIF4EBP3 |
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| 0.545173764 | 0.000709632 | < 0.001 | < 0.001 | 3592 | IL12A |
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| 0.544144154 | 0.000729037 | 0.002 | 1 | 10998 | SLC27A5 |
| 0.543629289 | 0.000738915 | 0.001 | 1 | 113174 | SAAL1 |
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| 0.543371975 | 0.000743898 | < 0.001 | < 0.001 | 51133 | KCTD3 |
| 0.543371975 | 0.000743898 | < 0.001 | < 0.001 | 79701 | C17orf101 |
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| 0.542599738 | 0.000759031 | 0.001 | 1 | 359948 | IRF2BP2 |
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| 0.542342365 | 0.000764133 | < 0.001 | < 0.001 | 10569 | SLU7 |
| 0.542342365 | 0.000764133 | 0.001 | 1 | 79783 | C7orf10 |
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| 0.538481295 | 0.000844443 | 0.001 | 1 | 5241 | PGR |
| 0.538481295 | 0.000844443 | < 0.001 | < 0.001 | 55762 | ZNF701 |
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| 0.538481295 | 0.000844443 | < 0.001 | < 0.001 | 401466 | C8orf59 |
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| 0.28852734 | < 0.001 | 10961 | ERP29 |
| 0.28849861 | < 0.001 | 7465 | WEE1 |
| 0.288495719 | < 0.001 | 54470 | ARMCX6 |
| 0.288404405 | < 0.001 | 26065 | LSM14A |
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| 0.288276196 | < 0.001 | 55204 | GOLPH3L |
| 0.288255632 | < 0.001 | 57819 | LSM2 |
| 0.288252831 | < 0.001 | 55172 | C14orf104 |
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| 0.287936896 | < 0.001 | 3127 | HLA-DRB5 |
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| 0.522779942 | 0.001253683 | 0.002 | 1 | 54826 | GIN1 |
| 0.522779942 | 0.001253683 | 0.003 | 1 | 115811 | IQCD |
| 0.522779942 | 0.001253683 | 0.002 | 1 | 390980 | ZNF805 |
| 0.522522509 | 0.001261646 | 0.002 | 1 | 1738 | DLD |
| 0.522522509 | 0.001261646 | 0.001 | 1 | 8722 | CTSF |
| 0.522522509 | 0.001261646 | < 0.001 | < 0.001 | 25938 | HEATR5A |
| 0.522265077 | 0.001269653 | < 0.001 | < 0.001 | 3013 | HIST1H2AD |
| 0.522265077 | 0.001269653 | 0.001 | 1 | 51244 | C3orf19 |
| 0.522265077 | 0.001269653 | 0.002 | 1 | 645879 | FAM90A12P |
| 0.522007763 | 0.001277705 | < 0.001 | < 0.001 | 27031 | NPHP3 |
| 0.522007763 | 0.001277705 | 0.001 | 1 | 55601 | AC068989.2 |

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| 0.281621128 | < 0.001 | 170954 | KIAA1949 |
| 0.281609118 | < 0.001 | 4735 | SEPTIN2 |
| 0.28158322 | < 0.001 | 594 | BCKDHB |
| 0.281456172 | < 0.001 | 54974 | THG1L |
| 0.281452388 | < 0.001 | 79725 | THAP9 |
| 0.281370938 | < 0.001 | 162989 | DEDD2 |
| 0.28128314 | < 0.001 | 29883 | CNOT7 |
| 0.281203061 | < 0.001 | 84336 | TMEM101 |
| 0.281197309 | < 0.001 | 11120 | BTN2A1 |
| 0.281171471 | < 0.001 | 340024 | SLC6A19 |
| 0.281156927 | < 0.001 | 8811 | GALR2 |
| 0.281125069 | < 0.001 | 5519 | PPP2R1B |
| 0.280981421 | < 0.001 | 57474 | ZNF490 |
| 0.280881613 | < 0.001 | 11064 | CEP110 |
| 0.280844092 | < 0.001 | 84514 | GHDC |
| 0.280610323 | < 0.001 | 10207 | INADL |
| 0.280547559 | < 0.001 | 79701 | C17orf101 |
| 0.280544013 | < 0.001 | 5987 | TRIM27 |
| 0.280520797 | < 0.001 | 113251 | LARP4 |
| 0.2804344 | < 0.001 | 51133 | KCTD3 |
| 0.280415982 | < 0.001 | 6993 | DYNLT1 |
| 0.280339539 | < 0.001 | 1806 | DPYD |
| 0.280329674 | < 0.001 | 51255 | RNF181 |
| 0.280321926 | < 0.001 | 53829 | P2RY13 |
| 0.280284405 | < 0.001 | 83892 | KCTD10 |
| 0.280267537 | < 0.001 | 667 | DST |
| 0.280258834 | < 0.001 | 652904 | CKS1BP6 |
| 0.280240297 | < 0.001 | 132321 | C4orf33 |
| 0.280211031 | < 0.001 | 3822 | KLRC2 |
| 0.280124038 | < 0.001 | 5813 | PURA |
| 0.280111223 | < 0.001 | 8609 | KLF7 |
| 0.280097067 | < 0.001 | 10137 | RBM12 |
| 0.280093193 | < 0.001 | 124221 | TMPRSS8 |
| 0.280080944 | < 0.001 | 2876 | GPX1 |
| 0.279965729 | < 0.001 | 5689 | PSMB1 |
| 0.279908717 | < 0.001 | 2395 | FXN |
| 0.279856652 | < 0.001 | 1937 | EEF1G |
| 0.279716343 | < 0.001 | 1727 | CYB5R3 |
| 0.279701203 | < 0.001 | 55129 | ANO10 |
| 0.279603958 | < 0.001 | 159686 | CCDC147 |
| 0.279595971 | < 0.001 | 51138 | COPS4 |
| 0.279587924 | < 0.001 | 163071 | ZNF114 |
| 0.279560924 | < 0.001 | 64949 | MRPS26 |
| 0.279535741 | < 0.001 | 55220 | KLHDC8A |
| 0.279405326 | < 0.001 | 4676 | NAP1L4 |
| 0.279366076 | < 0.001 | 7581 | ZNF33A |
| 0.279355556 | < 0.001 | 151050 | C2orf67 |
| 0.279038191 | < 0.001 | 219402 | MTIF3 |
| 0.278991699 | < 0.001 | 220972 | MARCHF8 |
| 0.278876603 | < 0.001 | 6917 | TCEA1P2 |
| 0.27885437 | < 0.001 | 282809 | WDR51B |
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| 0.278816611 | < 0.001 | 10175 | CNIH |
| 0.278808057 | < 0.001 | 83693 | HSDL1 |
| 0.278758436 | < 0.001 | 27151 | CPAMD8 |
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| 0.278584987 | < 0.001 | 2103 | ESRRB |
| 0.278534234 | < 0.001 | 56983 | KTELC1 |
| 0.278390318 | < 0.001 | 10772 | FUSIP1 |
| 0.278344482 | < 0.001 | 152815 | THAP6 |
| 0.278248072 | < 0.001 | 202051 | AC135457.3 |
| 0.278230458 | < 0.001 | 388561 | ZNF761 |
| 0.278168917 | < 0.001 | 6277 | S100A6 |
| 0.278128594 | < 0.001 | 5031 | P2RY6 |
| 0.278086126 | < 0.001 | 127018 | LYPLAL1 |
| 0.278072476 | < 0.001 | 158160 | HSD17B7P2 |
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| 0.277846605 | < 0.001 | 10629 | TAF6L |
| 0.277835518 | < 0.001 | 84129 | ACAD11 |
| 0.277739406 | < 0.001 | 56063 | C1orf91 |
| 0.277663946 | < 0.001 | 55010 | C12orf48 |
| 0.277607918 | < 0.001 | 5465 | PPARA |
| 0.277576089 | < 0.001 | 91283 | MSANTD3 |
| 0.277566701 | < 0.001 | 347088 | GPR144 |
| 0.277537972 | < 0.001 | 79780 | CCDC82 |
| 0.277534038 | < 0.001 | 7543 | ZFX |
| 0.277529001 | < 0.001 | 158584 | FAAH2 |
| 0.277328581 | < 0.001 | 54949 | SDHAF2 |
| 0.277257234 | < 0.001 | 51233 | C22orf43 |
| 0.27715537 | < 0.001 | 23175 | LPIN1 |
| 0.27713564 | < 0.001 | 63874 | ABHD4 |

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| 0.521750331 | 0.001285807 | 0.001 | 1 | 5229 | PGGT1B |
| 0.521750331 | 0.001285807 | < 0.001 | < 0.001 | 64376 | IKZF5 |
| 0.521492898 | 0.001293947 | 0.003 | 1 | 6729 | SRP54 |
| 0.521492898 | 0.001293947 | 0.001 | 1 | 55997 | CFC1 |
| 0.521235466 | 0.001302138 | 0.002 | 1 | 79608 | RIC3 |
| 0.521235466 | 0.001302138 | < 0.001 | < 0.001 | 128486 | FITM2 |
| 0.521235466 | 0.001302138 | 0.001 | 1 | 158787 | RIBC1 |
| 0.521235466 | 0.001302138 | < 0.001 | < 0.001 | 284697 | BTBD8 |
| 0.520978153 | 0.00131037 | 0.001 | 1 | 8190 | MIA |
| 0.520978153 | 0.00131037 | 0.001 | 1 | 64983 | MRPL32 |
| 0.520978153 | 0.00131037 | 0.001 | 1 | 79665 | DHX40 |
| 0.520978153 | 0.00131037 | 0.002 | 1 | 100289361 | LOC100289361 |
| 0.52072072 | 0.001318656 | 0.002 | 1 | 5238 | PGM3 |
| 0.52072072 | 0.001318656 | 0.001 | 1 | 7179 | TPTE |
| 0.52072072 | 0.001318656 | < 0.001 | < 0.001 | 7462 | LAT2 |
| 0.52072072 | 0.001318656 | 0.002 | 1 | 7913 | DEK |
| 0.52072072 | 0.001318656 | 0.001 | 1 | 25996 | REXO2 |
| 0.52072072 | 0.001318656 | 0.001 | 1 | 51379 | CRLF3 |
| 0.52072072 | 0.001318656 | 0.001 | 1 | 83744 | ZNF484 |
| 0.52072072 | 0.001318656 | < 0.001 | < 0.001 | 83941 | TM2D1 |
| 0.520463288 | 0.00132698 | < 0.001 | < 0.001 | 1195 | CLK1 |
| 0.520463288 | 0.00132698 | 0.002 | 1 | 6273 | S100A2 |
| 0.520463288 | 0.00132698 | < 0.001 | < 0.001 | 6498 | SKIL |
| 0.520463288 | 0.00132698 | < 0.001 | < 0.001 | 647030 | LOC647030 |
| 0.520205915 | 0.001335353 | 0.001 | 1 | 8812 | CCNK |
| 0.520205915 | 0.001335353 | 0.002 | 1 | 10735 | STAG2 |
| 0.520205915 | 0.001335353 | 0.001 | 1 | 124491 | TMEM170A |
| 0.520205915 | 0.001335353 | < 0.001 | < 0.001 | 252983 | STXBP4 |
| 0.519948542 | 0.001343772 | 0.001 | 1 | 22929 | SEPHS1 |
| 0.519948542 | 0.001343772 | 0.001 | 1 | 51374 | C2orf28 |
| 0.519948542 | 0.001343772 | 0.001 | 1 | 65983 | GRAMD3 |
| 0.519948542 | 0.001343772 | 0.001 | 1 | 140606 | SELM |
| 0.51969111 | 0.001352242 | 0.001 | 1 | 1603 | DAD1 |
| 0.51969111 | 0.001352242 | 0.001 | 1 | 3428 | IFI16 |
| 0.51969111 | 0.001352242 | 0.002 | 1 | 54790 | TET2 |
| 0.51969111 | 0.001352242 | < 0.001 | < 0.001 | 93653 | ST7-AS1 |
| 0.51969111 | 0.001352242 | < 0.001 | < 0.001 | 150082 | LCA5L |
| 0.51969111 | 0.001352242 | < 0.001 | < 0.001 | 391769 | H3.Y |
| 0.519433737 | 0.001360756 | 0.001 | 1 | 1610 | DAO |
| 0.519176304 | 0.001369317 | 0.001 | 1 | 5782 | PTPN12 |
| 0.519176304 | 0.001369317 | 0.003 | 1 | 64965 | MRPS9 |
| 0.519176304 | 0.001369317 | 0.002 | 1 | 79858 | NEK11 |
| 0.519176304 | 0.001369317 | 0.002 | 1 | 253714 | C6orf167 |
| 0.518918931 | 0.001377923 | 0.001 | 1 | 648 | BMI1 |
| 0.518918931 | 0.001377923 | < 0.001 | < 0.001 | 9056 | SLC7A7 |
| 0.518661499 | 0.001386582 | 0.001 | 1 | 4820 | NKTR |
| 0.518661499 | 0.001386582 | 0.002 | 1 | 27131 | SNX5 |
| 0.518404126 | 0.001395288 | < 0.001 | < 0.001 | 10424 | PGRMC2 |
| 0.518146694 | 0.001404043 | 0.001 | 1 | 3298 | HSF2 |
| 0.518146694 | 0.001404043 | 0.002 | 1 | 6274 | S100A3 |
| 0.518146694 | 0.001404043 | 0.002 | 1 | 64374 | SIL1 |
| 0.518146694 | 0.001404043 | 0.002 | 1 | 79366 | NSBP1 |
| 0.517889321 | 0.001412841 | < 0.001 | < 0.001 | 22795 | NID2 |
| 0.517889321 | 0.001412841 | 0.001 | 1 | 57045 | TWSG1 |
| 0.517631948 | 0.001421691 | 0.002 | 1 | 29100 | TMEM208 |
| 0.517374516 | 0.001430593 | < 0.001 | < 0.001 | 865 | CBFB |
| 0.517374516 | 0.001430593 | 0.002 | 1 | 1660 | DHX9 |
| 0.517374516 | 0.001430593 | < 0.001 | < 0.001 | 4238 | MFAP3 |
| 0.517374516 | 0.001430593 | 0.001 | 1 | 9255 | AIMP1 |
| 0.517374516 | 0.001430593 | 0.001 | 1 | 286451 | YIPF6 |
| 0.517374516 | 0.001430593 | 0.001 | 1 | 375341 | C3orf62 |
| 0.516859651 | 0.001448539 | 0.002 | 1 | 22794 | CASC3 |
| 0.516859651 | 0.001448539 | 0.001 | 1 | 100506144 | RP11-244H3.1 |
| 0.516602337 | 0.001457586 | 0.002 | 1 | 9126 | SMC3 |
| 0.516602337 | 0.001457586 | < 0.001 | < 0.001 | 9477 | MED20 |
| 0.516344905 | 0.001466685 | < 0.001 | < 0.001 | 1990 | CELA1 |
| 0.516344905 | 0.001466685 | 0.002 | 1 | 55166 | CENPQ |
| 0.516344905 | 0.001466685 | 0.001 | 1 | 64710 | NUCKS1 |
| 0.516344905 | 0.001466685 | 0.001 | 1 | 83759 | RBM4B |
| 0.516344905 | 0.001466685 | 0.001 | 1 | 254013 | C12orf72 |
| 0.516344905 | 0.001466685 | < 0.001 | < 0.001 | 399761 | BMS1P5 |
| 0.5158301 | 0.001485029 | 0.003 | 1 | 10137 | RBM12 |
| 0.5158301 | 0.001485029 | 0.003 | 1 | 91664 | ZNF845 |
| 0.5158301 | 0.001485029 | 0.001 | 1 | 442454 | UQCRBP1 |
| 0.5158301 | 0.001485029 | < 0.001 | < 0.001 | 100129794 | RP11-537P22.1 |
| 0.515572727 | 0.001494277 | 0.001 | 1 | 132 | ADK |
| 0.515572727 | 0.001494277 | 0.002 | 1 | 54522 | ANKRD16 |
| 0.515572727 | 0.001494277 | 0.001 | 1 | 56983 | KTELC1 |
| 0.515572727 | 0.001494277 | < 0.001 | < 0.001 | 145165 | ST13P4 |
| 0.515315294 | 0.001503575 | < 0.001 | < 0.001 | 788 | SLC25A20 |
| 0.515315294 | 0.001503575 | 0.003 | 1 | 202051 | AC135457.3 |
| 0.515315294 | 0.001503575 | 0.001 | 1 | 646567 | OSTCP2 |

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| 0.277122468 | < 0.001 | 55974 | RAG1AP1 |
| 0.277086109 | < 0.001 | 5051 | PAFAH2 |
| 0.277057886 | < 0.001 | 55149 | MTPAP |
| 0.277025044 | < 0.001 | 90427 | BMF |
| 0.27698794 | < 0.001 | 3169 | FOXA1 |
| 0.276973218 | < 0.001 | 29104 | N6AMT1 |
| 0.276947796 | < 0.001 | 6608 | SMO |
| 0.276919574 | < 0.001 | 26003 | GORASP2 |
| 0.276865661 | < 0.001 | 439915 | KRTAP5-5 |
| 0.276825756 | < 0.001 | 9534 | ZNF254 |
| 0.276812762 | < 0.001 | 6667 | SP1 |
| 0.276725471 | < 0.001 | 8462 | KLF11 |
| 0.276679456 | < 0.001 | 6273 | S100A2 |
| 0.276629925 | < 0.001 | 388743 | CAPN8 |
| 0.27658847 | < 0.001 | 11118 | BTN3A2 |
| 0.276578993 | < 0.001 | 5356 | PLRG1 |
| 0.276550114 | < 0.001 | 3116 | HLA-DPB2 |
| 0.276532918 | < 0.001 | 81894 | SLC25A28 |
| 0.276512444 | < 0.001 | 2064 | ERBB2 |
| 0.276498616 | < 0.001 | 9873 | FCHSD2 |
| 0.276485622 | < 0.001 | 10240 | MRPS31 |
| 0.276454508 | < 0.001 | 79892 | C10orf119 |
| 0.276371092 | < 0.001 | 1890 | TYMP |
| 0.276335359 | < 0.001 | 5866 | RAB3IL1 |
| 0.276274741 | < 0.001 | 435 | ASL |
| 0.276105404 | < 0.001 | 2803 | GOLGA4 |
| 0.276094794 | < 0.001 | 9205 | ZMYM5 |
| 0.276082933 | < 0.001 | 9056 | SLC7A7 |
| 0.276067376 | < 0.001 | 84851 | TRIM52 |
| 0.276062191 | < 0.001 | 25870 | SUMF2 |
| 0.276062131 | < 0.001 | 340277 | C7orf46 |
| 0.275968969 | < 0.001 | 143379 | C10orf82 |
| 0.275844008 | < 0.001 | 26985 | AP3M1 |
| 0.275801539 | < 0.001 | 50940 | PDE11A |
| 0.275771439 | < 0.001 | 90141 | EFCAB11 |
| 0.275742054 | < 0.001 | 89839 | ARHGAP11B |
| 0.275738686 | < 0.001 | 27348 | TOR1B |
| 0.275674254 | < 0.001 | 252983 | STXBP4 |
| 0.275658548 | < 0.001 | 10026 | PIGK |
| 0.275652617 | < 0.001 | 130814 | PQLC3 |
| 0.275630236 | < 0.001 | 79663 | HSPBAP1 |
| 0.275594443 | < 0.001 | 6837 | MED22 |
| 0.275463134 | < 0.001 | 12 | SERPINA3 |
| 0.27536267 | < 0.001 | 4507 | MTAP |
| 0.275294542 | < 0.001 | 4821 | NKX2-2 |
| 0.275250256 | < 0.001 | 79973 | ZNF442 |
| 0.275227219 | < 0.001 | 26020 | LRP10 |
| 0.275207639 | < 0.001 | 55254 | TMEM39A |
| 0.275206 | < 0.001 | 79571 | GCC1 |
| 0.275099277 | < 0.001 | 7296 | TXNRD1 |
| 0.275074184 | < 0.001 | 79608 | RIC3 |
| 0.275013059 | < 0.001 | 6599 | SMARCC1 |
| 0.275011152 | < 0.001 | 25800 | SLC39A6 |
| 0.274979889 | < 0.001 | 2747 | GLUD2 |
| 0.274871618 | < 0.001 | 89837 | FAM7A3 |
| 0.274772465 | < 0.001 | 147929 | ZNF565 |
| 0.274665564 | < 0.001 | 284312 | ZSCAN1 |
| 0.274636537 | < 0.001 | 8290 | HIST3H3 |
| 0.274599671 | < 0.001 | 8992 | ATP6V0E1 |
| 0.274579912 | < 0.001 | 6637 | SNRPG |
| 0.274579763 | < 0.001 | 84002 | B3GNT5 |
| 0.274528652 | < 0.001 | 2186 | BPTF |
| 0.274464905 | < 0.001 | 3030 | HADHA |
| 0.274459451 | < 0.001 | 114991 | ZNF618 |
| 0.274371356 | < 0.001 | 440352 | SNX29P2 |
| 0.274367899 | < 0.001 | 730291 | ZNF735 |
| 0.274304539 | < 0.001 | 1262 | CNGA4 |
| 0.274259448 | < 0.001 | 55240 | STEAP3 |
| 0.274217486 | < 0.001 | 283659 | PRTG |
| 0.274066091 | < 0.001 | 55695 | NSUN5 |
| 0.274001837 | < 0.001 | 159013 | CXorf38 |
| 0.2739968 | < 0.001 | 728492 | SERF1B |
| 0.273889184 | < 0.001 | 308 | ANXA5 |
| 0.273856282 | < 0.001 | 65110 | UPF3A |
| 0.273854047 | < 0.001 | 26046 | RNF160 |
| 0.273842603 | < 0.001 | 54977 | SLC25A38 |
| 0.273772329 | < 0.001 | 65991 | FUNDC2 |
| 0.273769557 | < 0.001 | 3606 | IL18 |
| 0.273685306 | < 0.001 | 54503 | ZDHHC13 |
| 0.273660868 | < 0.001 | 441478 | NRARP |
| 0.273552477 | < 0.001 | 84236 | RHBDD1 |
| 0.273519158 | < 0.001 | 84976 | DISP1 |

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| 0.515057921 | 0.001512929 | < 0.001 | < 0.001 | 647087 | C7orf73 |
| 0.514800489 | 0.00152233 | 0.003 | 1 | 6259 | RYK |
| 0.514800489 | 0.00152233 | 0.003 | 1 | 10549 | PRDX4 |
| 0.514800489 | 0.00152233 | 0.003 | 1 | 201627 | FAM116A |
| 0.514543116 | 0.001531783 | 0.002 | 1 | 202374 | STK32A |
| 0.514285743 | 0.001541287 | < 0.001 | < 0.001 | 843 | CASP10 |
| 0.514285743 | 0.001541287 | 0.002 | 1 | 54875 | CNTLN |
| 0.514285743 | 0.001541287 | < 0.001 | < 0.001 | 79839 | CCDC102B |
| 0.514285743 | 0.001541287 | 0.001 | 1 | 90338 | ZNF160 |
| 0.514285743 | 0.001541287 | < 0.001 | < 0.001 | 155400 | NSUN5B |
| 0.514028311 | 0.001550848 | 0.001 | 1 | 1936 | EEF1D |
| 0.514028311 | 0.001550848 | 0.001 | 1 | 7771 | ZFP112 |
| 0.514028311 | 0.001550848 | < 0.001 | < 0.001 | 10308 | ZNF267 |
| 0.514028311 | 0.001550848 | 0.001 | 1 | 51714 | SELT |
| 0.513770878 | 0.001560454 | 0.003 | 1 | 55250 | ELP2 |
| 0.513770878 | 0.001560454 | 0.001 | 1 | 79731 | NARS2 |
| 0.513513505 | 0.001570116 | 0.002 | 1 | 440311 | LOC440311 |
| 0.513513505 | 0.001570116 | 0.001 | 1 | 728464 | C6orf186 |
| 0.513256133 | 0.00157983 | 0.002 | 1 | 4048 | LTA4H |
| 0.513256133 | 0.00157983 | 0.001 | 1 | 64778 | FNDC3B |
| 0.513256133 | 0.00157983 | 0.001 | 1 | 204851 | HIPK1 |
| 0.513256133 | 0.00157983 | < 0.001 | < 0.001 | 729967 | MORN2 |
| 0.5129987 | 0.001589601 | 0.001 | 1 | 6738 | TROVE2 |
| 0.5129987 | 0.001589601 | < 0.001 | < 0.001 | 54811 | ZNF562 |
| 0.5129987 | 0.001589601 | 0.001 | 1 | 84057 | MND1 |
| 0.5129987 | 0.001589601 | 0.001 | 1 | 117583 | PARD3B |
| 0.5129987 | 0.001589601 | < 0.001 | < 0.001 | 169200 | TMEM64 |
| 0.5129987 | 0.001589601 | < 0.001 | < 0.001 | 221458 | KIF6 |
| 0.5129987 | 0.001589601 | 0.002 | 1 | 257106 | ARHGAP30 |
| 0.5129987 | 0.001589601 | 0.003 | 1 | 401428 | OR2A20P |
| 0.512741327 | 0.001599421 | < 0.001 | < 0.001 | 2012 | EMP1 |
| 0.512741327 | 0.001599421 | 0.003 | 1 | 6156 | RPL30 |
| 0.512741327 | 0.001599421 | 0.002 | 1 | 11063 | SOX30 |
| 0.512741327 | 0.001599421 | 0.001 | 1 | 51310 | SLC22A17 |
| 0.512741327 | 0.001599421 | 0.002 | 1 | 55661 | DDX27 |
| 0.512741327 | 0.001599421 | < 0.001 | < 0.001 | 57573 | ZNF471 |
| 0.512483895 | 0.001609295 | < 0.001 | < 0.001 | 141 | ADPRH |
| 0.512483895 | 0.001609295 | 0.001 | 1 | 10980 | COPS6 |
| 0.512483895 | 0.001609295 | < 0.001 | < 0.001 | 23293 | SMG6 |
| 0.512483895 | 0.001609295 | < 0.001 | < 0.001 | 25926 | NOL11 |
| 0.512483895 | 0.001609295 | 0.003 | 1 | 90592 | ZNF700 |
| 0.512226522 | 0.001619223 | < 0.001 | < 0.001 | 27257 | LSM1 |
| 0.512226522 | 0.001619223 | 0.001 | 1 | 158586 | ZXDB |
| 0.512226522 | 0.001619223 | 0.002 | 1 | 221154 | EFHA1 |
| 0.51196909 | 0.001629204 | 0.002 | 1 | 25950 | RWDD3 |
| 0.51196909 | 0.001629204 | 0.003 | 1 | 55252 | ASXL2 |
| 0.51196909 | 0.001629204 | 0.001 | 1 | 56901 | NDUFA4L2 |
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| 0.509395123 | 0.001732056 | 0.001 | 1 | 7514 | XPO1 |
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| 0.508880317 | 0.001753296 | 0.002 | 1 | 220136 | CCDC11 |
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| 0.248482525 | < 0.001 | 4237 | MFAP2 |
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| 0.248286128 | < 0.001 | 55227 | LRRC1 |
| 0.248241767 | < 0.001 | 10957 | PNRC1 |
| 0.248222277 | < 0.001 | 83940 | TATDN1 |
| 0.248222023 | < 0.001 | 26235 | FBXL4 |
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| 0.247933134 | < 0.001 | 6570 | SLC18A1 |
| 0.24789241 | < 0.001 | 340481 | ZDHHC21 |
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| 0.247735336 | < 0.001 | 24146 | CLDN15 |
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| 0.247625008 | < 0.001 | 871 | SERPINH1 |
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| 0.246957049 | < 0.001 | 2778 | GNAS |
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| 0.246789277 | < 0.001 | 6678 | SPARC |
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| 0.246736705 | < 0.001 | 10870 | HCST |

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| 0.472844243 | 0.003946933 | 0.003 | 1 | 55486 | PARL |
| 0.472844243 | 0.003946933 | 0.004 | 1 | 80031 | SEMA6D |
| 0.472844243 | 0.003946933 | 0.001 | 1 | 441108 | C5orf56 |
| 0.47258687 | 0.003968754 | 0.004 | 1 | 6834 | SURF1 |
| 0.47258687 | 0.003968754 | < 0.001 | < 0.001 | 24138 | IFIT5 |
| 0.47258687 | 0.003968754 | 0.001 | 1 | 122809 | SOCS4 |
| 0.472329468 | 0.003990668 | 0.002 | 1 | 6908 | TBP |
| 0.472329468 | 0.003990668 | 0.002 | 1 | 9227 | LRAT |
| 0.472329468 | 0.003990668 | 0.001 | 1 | 79864 | C11orf63 |
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| 0.472329468 | 0.003990668 | 0.002 | 1 | 388743 | CAPN8 |
| 0.472072065 | 0.00401269 | 0.004 | 1 | 81556 | C15orf44 |
| 0.472072065 | 0.00401269 | 0.001 | 1 | 285958 | C7orf40 |
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| 0.471814662 | 0.004034818 | 0.002 | 1 | 128439 | SNHG11 |
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| 0.471814662 | 0.004034818 | 0.005 | 1 | 728492 | SERF1B |
| 0.47155726 | 0.004057061 | 0.007 | 1 | 6296 | ACSM3 |
| 0.47155726 | 0.004057061 | 0.003 | 1 | 10541 | ANP32B |
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| 0.47155726 | 0.004057061 | 0.001 | 1 | 130355 | C2orf76 |
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| 0.471299857 | 0.004079402 | 0.003 | 1 | 2255 | FGF10 |
| 0.471299857 | 0.004079402 | 0.002 | 1 | 2992 | GYG1 |
| 0.471299857 | 0.004079402 | 0.002 | 1 | 80110 | ZNF614 |
| 0.471299857 | 0.004079402 | 0.001 | 1 | 124961 | ZFP3 |
| 0.471299857 | 0.004079402 | 0.003 | 1 | 127253 | TYW3 |
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| 0.471042484 | 0.004101848 | 0.003 | 1 | 8676 | STX11 |
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| 0.471042484 | 0.004101848 | 0.003 | 1 | 646719 | LOC646719 |
| 0.470785052 | 0.004124403 | 0.005 | 1 | 1615 | DARS |
| 0.470785052 | 0.004124403 | 0.002 | 1 | 79134 | TMEM185B |
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| 0.470527679 | 0.004147067 | 0.003 | 1 | 641649 | TMEM91 |
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| 0.470270246 | 0.004169849 | 0.001 | 1 | 133022 | TRAM1L1 |
| 0.470012873 | 0.00419273 | 0.001 | 1 | 2587 | GALR1 |
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| 0.469240665 | 0.004262039 | 0.003 | 1 | 131474 | CHCHD4 |
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| 0.468983263 | 0.00428536 | 0.004 | 1 | 150274 | HSCB |
| 0.468983263 | 0.00428536 | 0.006 | 1 | 221443 | C6orf130 |
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| 0.46872586 | 0.00430879 | 0.002 | 1 | 29915 | HCFC2 |
| 0.46872586 | 0.00430879 | 0.005 | 1 | 50485 | SMARCAL1 |
| 0.46872586 | 0.00430879 | 0.005 | 1 | 401397 | AC073346.1 |
| 0.468468457 | 0.004332334 | 0.005 | 1 | 5683 | PSMA2 |
| 0.468468457 | 0.004332334 | 0.002 | 1 | 7403 | KDM6A |
| 0.468468457 | 0.004332334 | 0.003 | 1 | 10362 | HMG20B |
| 0.468468457 | 0.004332334 | 0.007 | 1 | 23440 | OTP |
| 0.468468457 | 0.004332334 | 0.002 | 1 | 55051 | C14orf102 |
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| 0.468468457 | 0.004332334 | 0.007 | 1 | 158293 | FAM120AOS |
| 0.468211055 | 0.004356 | 0.004 | 1 | 6635 | SNRPE |
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| 0.467953652 | 0.004379768 | 0.007 | 1 | 51231 | VRK3 |
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| 0.246446997 | < 0.001 | 64108 | RTP4 |
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| 0.246296421 | < 0.001 | 4636 | MYL5 |
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| 0.245986551 | < 0.001 | 5980 | REV3L |
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| 0.245807767 | < 0.001 | 10049 | DNAJB6 |
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| 0.245732069 | < 0.001 | 5371 | PML |
| 0.245726958 | < 0.001 | 8620 | NPFF |
| 0.245707706 | < 0.001 | 55629 | PNRC2 |
| 0.245705977 | < 0.001 | 6839 | SUV39H1 |
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| 0.467696249 | 0.004403649 | 0.002 | 1 | 728537 | AC017099.3 |
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| 0.466666669 | 0.00450032 | 0.001 | 1 | 84976 | DISP1 |
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| 0.465894461 | 0.004574033 | 0.004 | 1 | 50940 | PDE11A |
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| 0.465122253 | 0.004648785 | 0.008 | 1 | 57819 | LSM2 |
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| 0.463835239 | 0.004775744 | 0.001 | 1 | 51110 | LACTB2 |
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| 0.463063061 | 0.004853362 | 0.005 | 1 | 11099 | PTPN21 |
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| 0.243308574 | < 0.001 | 29095 | ORMDL2 |
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| 0.242161095 | < 0.001 | 11262 | SP140 |
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| 0.241508529 | < 0.001 | 8218 | CLTCL1 |
| 0.241453245 | < 0.001 | 64359 | NXN |
| 0.241429463 | < 0.001 | 127253 | TYW3 |
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| 0.462548256 | 0.00490572 | 0.002 | 1 | 51317 | PHF21A |
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| 0.462290853 | 0.004932074 | 0.003 | 1 | 51014 | TMED7 |
| 0.462290853 | 0.004932074 | 0.001 | 1 | 53832 | IL20RA |
| 0.462290853 | 0.004932074 | < 0.001 | < 0.001 | 169270 | ZNF596 |
| 0.462290853 | 0.004932074 | 0.001 | 1 | 728411 | AC138951.4 |
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| 0.46203348 | 0.004958551 | 0.003 | 1 | 10157 | AASS |
| 0.46203348 | 0.004958551 | 0.001 | 1 | 137797 | LYPD2 |
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| 0.461776048 | 0.004985158 | 0.002 | 1 | 118491 | TTC18 |
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| 0.461518645 | 0.005011882 | < 0.001 | < 0.001 | 9367 | RAB9A |
| 0.461518645 | 0.005011882 | 0.002 | 1 | 9528 | TMEM59 |
| 0.461518645 | 0.005011882 | 0.004 | 1 | 10330 | CNPY2 |
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| 0.461518645 | 0.005011882 | 0.003 | 1 | 23336 | SYNM |
| 0.461518645 | 0.005011882 | 0.006 | 1 | 51079 | NDUFA13 |
| 0.461518645 | 0.005011882 | 0.003 | 1 | 57674 | RNF213 |
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| 0.461261243 | 0.005038749 | 0.004 | 1 | 11266 | DUSP12 |
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| 0.461261243 | 0.005038749 | 0.005 | 1 | 55526 | DHTKD1 |
| 0.461261243 | 0.005038749 | 0.003 | 1 | 114799 | ESCO1 |
| 0.461261243 | 0.005038749 | 0.003 | 1 | 125875 | CLDND2 |
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| 0.46100384 | 0.005065723 | 0.005 | 1 | 1132 | CHRM4 |
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| 0.460746467 | 0.005092822 | 0.004 | 1 | 9518 | GDF15 |
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| 0.460746467 | 0.005092822 | 0.005 | 1 | 23636 | NUP62 |
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| 0.241201222 | < 0.001 | 51522 | TMEM14C |
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| 0.240055636 | < 0.001 | 147007 | TMEM199 |
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| 0.45817247 | 0.005370868 | 0.005 | 1 | 4804 | NGFR |
| 0.45817247 | 0.005370868 | 0.004 | 1 | 9802 | DAZAP2 |
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| 0.45817247 | 0.005370868 | 0.003 | 1 | 85453 | AP003115.1 |
| 0.45817247 | 0.005370868 | 0.005 | 1 | 90799 | CEP95 |
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| 0.457657665 | 0.005428039 | 0.003 | 1 | 197342 | EME2 |
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| 0.457400233 | 0.00545682 | 0.004 | 1 | 5824 | PEX19 |
| 0.457400233 | 0.00545682 | 0.002 | 1 | 6632 | AC106037.2 |
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| 0.21723792 | < 0.001 | 256380 | SCML4 |
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| 0.217198268 | < 0.001 | 8987 | STBD1 |
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| 0.217152029 | < 0.001 | 9128 | PRPF4 |
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| 0.217049912 | < 0.001 | 284293 | HMSD |
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| 0.21688658 | < 0.001 | 55837 | EAPP |

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| 0.418275386 | 0.011696401 | 0.007 | 1 | 152573 | SHISA3 |
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| 0.418018013 | 0.011752132 | 0.003 | 1 | 8773 | SNAP23 |
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| 0.418018013 | 0.011752132 | 0.008 | 1 | 11340 | EXOSC8 |
| 0.418018013 | 0.011752132 | 0.011 | 1 | 54360 | CYTL1 |
| 0.418018013 | 0.011752132 | 0.01 | 1 | 169792 | GLIS3 |
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| 0.417760611 | 0.011808117 | 0.008 | 1 | 6468 | FBXW4 |
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| 0.417503208 | 0.011864296 | 0.009 | 1 | 2923 | PDIA3 |
| 0.417503208 | 0.011864296 | 0.01 | 1 | 4828 | NMB |
| 0.417503208 | 0.011864296 | 0.016 | 1 | 8787 | RGS9 |
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| 0.416988403 | 0.011977348 | 0.01 | 1 | 5253 | PHF2 |
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| 0.416988403 | 0.011977348 | 0.011 | 1 | 24146 | CLDN15 |
| 0.416988403 | 0.011977348 | 0.012 | 1 | 55041 | PLEKHB2 |
| 0.416988403 | 0.011977348 | 0.012 | 1 | 80022 | MYO15B |
| 0.416731 | 0.012034226 | 0.01 | 1 | 71 | ACTG1 |
| 0.416731 | 0.012034226 | 0.012 | 1 | 3116 | HLA-DPB2 |
| 0.416731 | 0.012034226 | 0.012 | 1 | 4149 | MAX |
| 0.416731 | 0.012034226 | 0.008 | 1 | 4552 | MTRR |
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| 0.416731 | 0.012034226 | 0.008 | 1 | 10870 | HCST |
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| 0.416216195 | 0.012148682 | 0.01 | 1 | 5984 | RFC4 |
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| 0.416216195 | 0.012148682 | 0.019 | 1 | 399979 | SNX19 |
| 0.416216195 | 0.012148682 | 0.01 | 1 | 728769 | CTD-2037K23.2 |
| 0.415958822 | 0.012206248 | 0.009 | 1 | 1723 | DHODH |
| 0.415958822 | 0.012206248 | 0.005 | 1 | 10478 | SLC25A17 |
| 0.415958822 | 0.012206248 | 0.01 | 1 | 90427 | BMF |
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| 0.415444016 | 0.012322105 | 0.006 | 1 | 7726 | TRIM26 |
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| 0.216795579 | < 0.001 | 2735 | GLI1 |
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| 0.414671808 | 0.0124976 | 0.006 | 1 | 51635 | DHRS7 |
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| 0.414671808 | 0.0124976 | 0.009 | 1 | 57529 | RGAG1 |
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| 0.414414406 | 0.012556599 | 0.004 | 1 | 84281 | C2orf88 |
| 0.414414406 | 0.012556599 | 0.012 | 1 | 147339 | C18orf25 |
| 0.414414406 | 0.012556599 | 0.011 | 1 | 374666 | WASH3P |
| 0.414157003 | 0.012615808 | 0.007 | 1 | 415 | ARSE |
| 0.414157003 | 0.012615808 | 0.01 | 1 | 6164 | RPL34 |
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| 0.414157003 | 0.012615808 | 0.006 | 1 | 55181 | C17orf71 |
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| 0.41389963 | 0.01267525 | 0.012 | 1 | 3608 | ILF2 |
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| 0.41389963 | 0.01267525 | 0.009 | 1 | 284942 | RPL23AP82 |
| 0.41389963 | 0.01267525 | 0.013 | 1 | 285636 | C5orf51 |
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| 0.413384825 | 0.012794862 | 0.011 | 1 | 6915 | TBXA2R |
| 0.413384825 | 0.012794862 | 0.011 | 1 | 9436 | NCR2 |
| 0.413384825 | 0.012794862 | 0.003 | 1 | 11341 | SCRG1 |
| 0.413384825 | 0.012794862 | 0.011 | 1 | 23417 | MLYCD |
| 0.413384825 | 0.012794862 | 0.006 | 1 | 79088 | ZNF426 |
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| 0.41287002 | 0.012915459 | 0.007 | 1 | 203427 | SLC25A43 |
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| 0.412612617 | 0.012976101 | 0.009 | 1 | 1647 | GADD45A |
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| 0.412355185 | 0.013036985 | 0.008 | 1 | 51531 | C9orf156 |
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| 0.214490503 | < 0.001 | 10902 | BRD8 |
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| 0.371171176 | 0.026482284 | 0.03 | 1 | 25793 | FBXO7 |
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| 0.368854553 | 0.027495936 | 0.028 | 1 | 90826 | PRMT10 |
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| 0.36859715 | 0.027610522 | 0.019 | 1 | 1843 | DUSP1 |
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| 0.364993542 | 0.029257014 | 0.03 | 1 | 728613 | LOC728613 |
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| 0.36473617 | 0.029377645 | 0.02 | 1 | 197320 | ZNF778 |
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| 0.340025753 | 0.043039881 | 0.046 | 1 | 51000 | SLC35B3 |
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| 0.335649937 | 0.045928765 | 0.038 | 1 | 653162 | RPSAP9 |
| 0.335392505 | 0.046103474 | 0.048 | 1 | 2122 | EVI1 |
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| 0.335392505 | 0.046103474 | 0.035 | 1 | 27128 | CYTH4 |
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| 0.335135132 | 0.046278726 | 0.035 | 1 | 836 | CASP3 |
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| 0.334877729 | 0.046454594 | 0.039 | 1 | 100190939 | XXyac-R12DG2.1 |
| 0.334620327 | 0.046630908 | 0.036 | 1 | 4066 | LYL1 |
| 0.334620327 | 0.046630908 | 0.037 | 1 | 5394 | EXOSC10 |
| 0.334620327 | 0.046630908 | 0.042 | 1 | 10165 | SLC25A13 |
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| 0.334620327 | 0.046630908 | 0.042 | 1 | 54925 | ZNF434 |
| 0.334620327 | 0.046630908 | 0.038 | 1 | 283518 | KCNRG |
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| 0.334620327 | 0.046630908 | 0.037 | 1 | 653781 | AC140481.7 |
| 0.334362924 | 0.046807781 | 0.05 | 1 | 9377 | COX5A |
| 0.334362924 | 0.046807781 | 0.04 | 1 | 10916 | MAGED2 |
| 0.334362924 | 0.046807781 | 0.035 | 1 | 23256 | SCFD1 |
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| 0.334105521 | 0.046985202 | 0.041 | 1 | 7700 | ZNF141 |
| 0.334105521 | 0.046985202 | 0.041 | 1 | 9144 | SYNGR2 |
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| 0.334105521 | 0.046985202 | 0.03 | 1 | 57642 | COL20A1 |
| 0.334105521 | 0.046985202 | 0.037 | 1 | 79053 | ALG8 |
| 0.334105521 | 0.046985202 | 0.039 | 1 | 126374 | WTIP |
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| 0.333848119 | 0.04716317 | 0.033 | 1 | 51704 | GPRC5B |
| 0.333848119 | 0.04716317 | 0.05 | 1 | 64801 | ARV1 |
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| 0.333848119 | 0.04716317 | 0.039 | 1 | 202333 | CMYA5 |
| 0.333590746 | 0.047341757 | 0.032 | 1 | 6035 | RNASE1 |
| 0.333590746 | 0.047341757 | 0.032 | 1 | 7559 | ZNF12 |
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| 0.171310008 | < 0.001 | 58503 | PROL1 |
| 0.171303332 | < 0.001 | 64645 | HIAT1 |
| 0.171295688 | < 0.001 | 115560 | ZNF501 |
| 0.171273306 | < 0.001 | 729359 | KIAA1881 |
| 0.171268448 | < 0.001 | 79684 | C11orf61 |
| 0.171262026 | < 0.001 | 92086 | GGTLA3 |
| 0.171182305 | < 0.001 | 6202 | RPS8 |
| 0.171152025 | < 0.001 | 5768 | QSOX1 |
| 0.171118364 | < 0.001 | 84467 | FBN3 |
| 0.17109862 | < 0.001 | 401431 | RP4-751H13.1 |
| 0.171097144 | < 0.001 | 6343 | SCT |
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| 0.170650199 | < 0.001 | 140801 | RPL10L |
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| 0.170453712 | < 0.001 | 5352 | PLOD2 |
| 0.170432568 | < 0.001 | 79004 | CUEDC2 |
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| 0.170336872 | < 0.001 | 58504 | ARHGAP22 |
| 0.170328885 | < 0.001 | 4070 | TACSTD2 |
| 0.170311198 | < 0.001 | 80895 | ILKAP |
| 0.170251712 | < 0.001 | 8140 | SLC7A5 |
| 0.170246288 | < 0.001 | 11070 | TMEM115 |
| 0.170226291 | < 0.001 | 54971 | BANP |
| 0.170201927 | < 0.001 | 27302 | BMP10 |
| 0.170184657 | < 0.001 | 4297 | MLL |
| 0.170164168 | < 0.001 | 390595 | UBAP1L |
| 0.17016162 | < 0.001 | 567 | B2M |
| 0.170157671 | < 0.001 | 10076 | PTPRU |
| 0.170119166 | < 0.001 | 163175 | LGI4 |
| 0.170103356 | < 0.001 | 7323 | UBE2D3 |
| 0.170082301 | < 0.001 | 100130256 | LOC100130256 |
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| 0.170044452 | < 0.001 | 22803 | XRN2 |
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| 0.169927523 | < 0.001 | 402682 | UFSP1 |
| 0.16990605 | < 0.001 | 54707 | GPN2 |
| 0.169861868 | < 0.001 | 340252 | ZNF680 |
| 0.169852331 | < 0.001 | 3202 | HOXA5 |
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| 0.16969879 | < 0.001 | 147808 | ZNF784 |
| 0.169609591 | < 0.001 | 375607 | C7orf52 |
| 0.169605076 | < 0.001 | 55755 | CDK5RAP2 |
| 0.169604257 | < 0.001 | 3766 | KCNJ10 |
| 0.169597343 | < 0.001 | 3009 | HIST1H1B |
| 0.169582933 | < 0.001 | 138046 | RALYL |
| 0.16955924 | < 0.001 | 118663 | BTBD16 |
| 0.169546157 | < 0.001 | 374666 | WASH3P |
| 0.169512749 | < 0.001 | 26049 | FAM169A |
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| 0.333075941 | 0.047700409 | 0.038 | 1 | 55687 | TRMU |
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| 0.332818508 | 0.047880568 | 0.037 | 1 | 6181 | RPLP2 |
| 0.332818508 | 0.047880568 | 0.051 | 1 | 9580 | SOX13 |
| 0.332818508 | 0.047880568 | 0.039 | 1 | 26121 | PRPF31 |
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| 0.332818508 | 0.047880568 | 0.036 | 1 | 80303 | EFHD1 |
| 0.332818508 | 0.047880568 | 0.046 | 1 | 119710 | C11orf74 |
| 0.332818508 | 0.047880568 | 0.047 | 1 | 158763 | RP13-102H20.1 |
| 0.332818508 | 0.047880568 | 0.034 | 1 | 200634 | KRTCAP3 |
| 0.332561135 | 0.04806136 | 0.043 | 1 | 1073 | CFL2 |
| 0.332561135 | 0.04806136 | 0.038 | 1 | 1520 | CTSS |
| 0.332561135 | 0.04806136 | 0.045 | 1 | 6626 | SNRPA |
| 0.332561135 | 0.04806136 | 0.033 | 1 | 6696 | SPP1 |
| 0.332561135 | 0.04806136 | 0.038 | 1 | 8195 | MKKS |
| 0.332561135 | 0.04806136 | 0.036 | 1 | 56882 | CDC42SE1 |
| 0.332561135 | 0.04806136 | 0.029 | 1 | 57409 | MIF4GD |
| 0.332561135 | 0.04806136 | 0.038 | 1 | 221035 | REEP3 |
| 0.332561135 | 0.04806136 | 0.041 | 1 | 645784 | ANKRD36BP2 |
| 0.332303733 | 0.048242621 | 0.04 | 1 | 4237 | MFAP2 |
| 0.332303733 | 0.048242621 | 0.055 | 1 | 26986 | PABPCP5 |
| 0.332303733 | 0.048242621 | 0.05 | 1 | 201292 | TRIM65 |
| 0.33204633 | 0.048424415 | 0.05 | 1 | 3169 | FOXA1 |
| 0.33204633 | 0.048424415 | 0.054 | 1 | 4242 | MFNG |
| 0.33204633 | 0.048424415 | 0.042 | 1 | 5393 | EXOSC9 |
| 0.33204633 | 0.048424415 | 0.041 | 1 | 10230 | NBR2 |
| 0.33204633 | 0.048424415 | 0.047 | 1 | 10351 | ABCA8 |
| 0.33204633 | 0.048424415 | 0.049 | 1 | 55893 | ZNF395 |
| 0.33204633 | 0.048424415 | 0.039 | 1 | 57509 | MTUS1 |
| 0.33204633 | 0.048424415 | 0.036 | 1 | 90271 | LINC00263 |
| 0.331788927 | 0.048606791 | 0.051 | 1 | 4159 | MC3R |
| 0.331788927 | 0.048606791 | 0.051 | 1 | 7248 | TSC1 |
| 0.331788927 | 0.048606791 | 0.044 | 1 | 55793 | FAM63A |
| 0.331788927 | 0.048606791 | 0.05 | 1 | 80346 | REEP4 |
| 0.331788927 | 0.048606791 | 0.03 | 1 | 90673 | PPP1R3E |
| 0.331788927 | 0.048606791 | 0.043 | 1 | 255520 | ELMOD2 |
| 0.331788927 | 0.048606791 | 0.037 | 1 | 284257 | AC100775.1 |
| 0.331788927 | 0.048606791 | 0.04 | 1 | 387804 | VSTM5 |
| 0.331531525 | 0.048789795 | 0.043 | 1 | 3032 | HADHB |
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| 0.168308258 | < 0.001 | 171483 | FAM9B |
| 0.168305039 | < 0.001 | 118924 | C10orf4 |
| 0.168286204 | < 0.001 | 400960 | PCBP1-AS1 |
| 0.168272629 | < 0.001 | 79908 | BTNL8 |
| 0.1682574 | < 0.001 | 5927 | KDM5A |
| 0.168254197 | < 0.001 | 9127 | P2RX6 |
| 0.168244809 | < 0.001 | 10075 | HUWE1 |
| 0.168217093 | < 0.001 | 65080 | MRPL44 |
| 0.168191984 | < 0.001 | 11318 | GPR182 |
| 0.168186888 | < 0.001 | 83989 | FAM172A |
| 0.168154806 | < 0.001 | 55897 | MESP1 |
| 0.168148965 | < 0.001 | 1060 | CENPC1 |
| 0.168138176 | < 0.001 | 90799 | CEP95 |

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| 0.330244511 | 0.049712881 | 0.047 | 1 | 8345 | HIST1H2BH |
| 0.330244511 | 0.049712881 | 0.045 | 1 | 8933 | FAM127A |
| 0.330244511 | 0.049712881 | 0.046 | 1 | 55006 | TRMT61B |
| 0.330244511 | 0.049712881 | 0.043 | 1 | 170506 | DHX36 |
| 0.329987139 | 0.049899168 | 0.045 | 1 | 25915 | NDUFAF3 |
| 0.329987139 | 0.049899168 | 0.052 | 1 | 25941 | C18orf10 |
| 0.329987139 | 0.049899168 | 0.034 | 1 | 51338 | MS4A4A |
| 0.329987139 | 0.049899168 | 0.04 | 1 | 55314 | TMEM144 |
| 0.329987139 | 0.049899168 | 0.045 | 1 | 64773 | FAM113A |
| 0.329987139 | 0.049899168 | 0.036 | 1 | 84173 | ELMOD3 |
| 0.329987139 | 0.049899168 | 0.042 | 1 | 200205 | C1orf69 |
| 0.329987139 | 0.049899168 | 0.043 | 1 | 353323 | KRTAP12-2 |
| 0.329987139 | 0.049899168 | 0.047 | 1 | 445347 | TARP |
| 0.329729736 | 0.050086025 | 0.047 | 1 | 1593 | CYP27A1 |
| 0.329729736 | 0.050086025 | 0.04 | 1 | 55075 | UACA |
| 0.329729736 | 0.050086025 | 0.031 | 1 | 100130967 | C6orf99 |
| 0.329472333 | 0.050273418 | 0.037 | 1 | 586 | BCAT1 |
| 0.329472333 | 0.050273418 | 0.042 | 1 | 666 | BOK |
| 0.329472333 | 0.050273418 | 0.044 | 1 | 1108 | CHD4 |
| 0.329472333 | 0.050273418 | 0.042 | 1 | 2528 | FUT6 |
| 0.329472333 | 0.050273418 | 0.033 | 1 | 7697 | ZNF138 |
| 0.329472333 | 0.050273418 | 0.042 | 1 | 51124 | IER3IP1 |
| 0.329472333 | 0.050273418 | 0.043 | 1 | 51699 | VPS29 |
| 0.329214931 | 0.05046149 | 0.042 | 1 | 6446 | SGK1 |
| 0.329214931 | 0.05046149 | 0.041 | 1 | 7866 | IFRD2 |
| 0.329214931 | 0.05046149 | 0.048 | 1 | 23241 | PACS2 |
| 0.329214931 | 0.05046149 | 0.04 | 1 | 56896 | DPYSL5 |
| 0.329214931 | 0.05046149 | 0.041 | 1 | 85449 | KIAA1755 |
| 0.328957528 | 0.050650042 | 0.041 | 1 | 3759 | KCNJ2 |
| 0.328957528 | 0.050650042 | 0.042 | 1 | 64446 | DNAI2 |
| 0.328957528 | 0.050650042 | 0.035 | 1 | 118663 | BTBD16 |
| 0.328957528 | 0.050650042 | 0.048 | 1 | 171023 | ASXL1 |
| 0.328700125 | 0.050839163 | 0.044 | 1 | 303 | ANXA2P1 |
| 0.328700125 | 0.050839163 | 0.059 | 1 | 1580 | CYP4B1 |
| 0.328700125 | 0.050839163 | 0.057 | 1 | 4790 | NFKB1 |
| 0.328700125 | 0.050839163 | 0.044 | 1 | 7481 | WNT11 |
| 0.328442723 | 0.051028855 | 0.039 | 1 | 7417 | VDAC2 |
| 0.328442723 | 0.051028855 | 0.047 | 1 | 27018 | NGFRAP1 |
| 0.328442723 | 0.051028855 | 0.045 | 1 | 51260 | CXorf26 |
| 0.328442723 | 0.051028855 | 0.042 | 1 | 83690 | CRISPLD1 |
| 0.328442723 | 0.051028855 | 0.047 | 1 | 646999 | LOC646999 |
| 0.32818532 | 0.051219184 | 0.046 | 1 | 7110 | TMF1 |
| 0.32818532 | 0.051219184 | 0.039 | 1 | 9482 | STX8 |
| 0.32818532 | 0.051219184 | 0.053 | 1 | 57149 | LYRM1 |
| 0.32818532 | 0.051219184 | 0.045 | 1 | 57695 | USP37 |
| 0.32818532 | 0.051219184 | 0.034 | 1 | 64856 | VWA1 |
| 0.32818532 | 0.051219184 | 0.048 | 1 | 117854 | TRIM6 |
| 0.32818532 | 0.051219184 | 0.034 | 1 | 129642 | MBOAT2 |
| 0.32818532 | 0.051219184 | 0.042 | 1 | 137835 | TMEM71 |
| 0.32818532 | 0.051219184 | 0.035 | 1 | 493911 | PHOSPHO2 |
| 0.32818532 | 0.051219184 | 0.037 | 1 | 730130 | AC004690.2 |
| 0.327927917 | 0.051410023 | 0.048 | 1 | 2926 | GRSF1 |
| 0.327927917 | 0.051410023 | 0.036 | 1 | 3006 | HIST1H1C |
| 0.327927917 | 0.051410023 | 0.034 | 1 | 4258 | MGST2 |
| 0.327927917 | 0.051410023 | 0.045 | 1 | 4303 | FOXO4 |
| 0.327927917 | 0.051410023 | 0.035 | 1 | 5547 | PRCP |
| 0.327927917 | 0.051410023 | 0.04 | 1 | 8666 | EIF3G |
| 0.327927917 | 0.051410023 | 0.043 | 1 | 10087 | COL4A3BP |
| 0.327927917 | 0.051410023 | 0.04 | 1 | 10782 | ZNF274 |
| 0.327927917 | 0.051410023 | 0.04 | 1 | 55425 | KIAA1704 |
| 0.327927917 | 0.051410023 | 0.044 | 1 | 64431 | ACTR6 |
| 0.327927917 | 0.051410023 | 0.043 | 1 | 127845 | GOLT1A |
| 0.327927917 | 0.051410023 | 0.042 | 1 | 157695 | C8orf42 |
| 0.327927917 | 0.051410023 | 0.041 | 1 | 221294 | NT5DC1 |
| 0.327670515 | 0.051601432 | 0.048 | 1 | 241 | ALOX5AP |
| 0.327670515 | 0.051601432 | 0.047 | 1 | 710 | SERPING1 |
| 0.327670515 | 0.051601432 | 0.033 | 1 | 1489 | CTF1 |
| 0.327670515 | 0.051601432 | 0.04 | 1 | 8562 | DENR |
| 0.327670515 | 0.051601432 | 0.046 | 1 | 11070 | TMEM115 |
| 0.327670515 | 0.051601432 | 0.044 | 1 | 27243 | CHMP2A |
| 0.327670515 | 0.051601432 | 0.038 | 1 | 51027 | BOLA1 |
| 0.327670515 | 0.051601432 | 0.042 | 1 | 55904 | MLL5 |
| 0.327670515 | 0.051601432 | 0.05 | 1 | 400073 | C12orf76 |
| 0.327413112 | 0.051793419 | 0.042 | 1 | 3073 | HEXA |
| 0.327413112 | 0.051793419 | 0.036 | 1 | 64427 | TTC31 |
| 0.327413112 | 0.051793419 | 0.036 | 1 | 92017 | SNX29 |
| 0.327413112 | 0.051793419 | 0.044 | 1 | 113201 | CASC4 |
| 0.327413112 | 0.051793419 | 0.043 | 1 | 653269 | POTEI |
| 0.327155739 | 0.05198596 | 0.054 | 1 | 23247 | KIAA0556 |
| 0.327155739 | 0.05198596 | 0.046 | 1 | 51125 | GOLGA7 |
| 0.327155739 | 0.05198596 | 0.045 | 1 | 57645 | POGK |
| 0.327155739 | 0.05198596 | 0.038 | 1 | 152503 | SH3D19 |

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| 0.168124691 | < 0.001 | 8409 | UXT |
| 0.168091282 | < 0.001 | 282890 | ZNF311 |
| 0.168083549 | < 0.001 | 114132 | SIGLEC11 |
| 0.168067917 | < 0.001 | 122769 | PPIL5 |
| 0.168022826 | < 0.001 | 114335 | CGB1 |
| 0.168022498 | < 0.001 | 5281 | PIGF |
| 0.167979136 | < 0.001 | 151449 | GDF7 |
| 0.16797848 | < 0.001 | 6526 | SLC5A3 |
| 0.167946965 | < 0.001 | 11083 | DIDO1 |
| 0.167933956 | < 0.001 | 7376 | NR1H2 |
| 0.167903766 | < 0.001 | 2703 | GJA8 |
| 0.167892814 | < 0.001 | 6242 | RTKN |
| 0.167889193 | < 0.001 | 27022 | FOXD3 |
| 0.167889118 | < 0.001 | 51816 | CECR1 |
| 0.167876855 | < 0.001 | 337972 | KRTAP19-5 |
| 0.167860404 | < 0.001 | 602 | BCL3 |
| 0.167852506 | < 0.001 | 7378 | UPP1 |
| 0.167842135 | < 0.001 | 51317 | PHF21A |
| 0.167841643 | < 0.001 | 6671 | SP4 |
| 0.167791456 | < 0.001 | 729338 | CETN4P |
| 0.167787671 | < 0.001 | 26231 | LRRC29 |
| 0.167784378 | < 0.001 | 10105 | PPIF |
| 0.167741179 | < 0.001 | 57592 | ZNF687 |
| 0.167705223 | < 0.001 | 55975 | KLHL7 |
| 0.167694032 | < 0.001 | 6440 | SFTPC |
| 0.167673543 | < 0.001 | 63899 | NSUN3 |
| 0.167667046 | < 0.001 | 23036 | ZNF292 |
| 0.167635694 | < 0.001 | 5757 | PTMA |
| 0.167617351 | < 0.001 | 10871 | CD300C |
| 0.167602867 | < 0.001 | 51150 | SDF4 |
| 0.167554647 | < 0.001 | 9143 | SYNGR3 |
| 0.167500511 | < 0.001 | 399693 | MGC50722 |
| 0.167464793 | < 0.001 | 64174 | DPEP2 |
| 0.167451799 | < 0.001 | 6207 | RPS13P2 |
| 0.167444229 | < 0.001 | 60626 | RIC8A |
| 0.16744341 | < 0.001 | 653635 | WASH5P |
| 0.167403176 | < 0.001 | 392392 | OR1K1 |
| 0.167344511 | < 0.001 | 54877 | ZCCHC2 |
| 0.167338088 | < 0.001 | 116461 | TSEN15 |
| 0.167324752 | < 0.001 | 84817 | TXNDC17 |
| 0.167308718 | < 0.001 | 57786 | RBAK |
| 0.167300567 | < 0.001 | 6843 | VAMP1 |
| 0.167271271 | < 0.001 | 11270 | NRM |
| 0.1672066 | < 0.001 | 57705 | WDFY4 |
| 0.167204306 | < 0.001 | 85365 | ALG2 |
| 0.167187601 | < 0.001 | 29066 | ZC3H7A |
| 0.167181268 | < 0.001 | 10381 | RP11-566K11.2 |
| 0.167144403 | < 0.001 | 386680 | KRTAP10-5 |
| 0.167143658 | < 0.001 | 84790 | TUBA1C |
| 0.167125225 | < 0.001 | 4258 | MGST2 |
| 0.167089269 | < 0.001 | 80176 | SPSB1 |
| 0.167071834 | < 0.001 | 283820 | NOMO2 |
| 0.167017847 | < 0.001 | 11156 | PTP4A3 |
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| 0.16691944 | < 0.001 | 6655 | SOS2 |
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| 0.166815847 | < 0.001 | 125919 | ZNF543 |
| 0.166769773 | < 0.001 | 145781 | GCOM1 |
| 0.166752741 | < 0.001 | 200894 | ARL13B |
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| 0.16659534 | < 0.001 | 81611 | ANP32E |
| 0.166586205 | < 0.001 | 88745 | C6orf153 |
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| 0.166534051 | < 0.001 | 55117 | SLC6A15 |
| 0.166504428 | < 0.001 | 5273 | SERPINB10 |
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| 0.166440904 | < 0.001 | 57470 | LRRC47 |
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| 0.166342825 | < 0.001 | 643911 | CRNDE |
| 0.166341186 | < 0.001 | 9425 | CDYL |
| 0.166286707 | < 0.001 | 4040 | LRP6 |

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| 0.327155739 | 0.05198596 | 0.05 | 1 | 282679 | AQP11 |
| 0.327155739 | 0.05198596 | 0.044 | 1 | 100131897 | AC008449.1 |
| 0.326898307 | 0.052179184 | 0.039 | 1 | 2736 | GLI2 |
| 0.326898307 | 0.052179184 | 0.045 | 1 | 10845 | CLPX |
| 0.326898307 | 0.052179184 | 0.032 | 1 | 51296 | SLC15A3 |
| 0.326898307 | 0.052179184 | 0.046 | 1 | 84527 | ZNF559 |
| 0.326898307 | 0.052179184 | 0.043 | 1 | 139596 | UPRT |
| 0.326898307 | 0.052179184 | 0.045 | 1 | 541468 | C1orf190 |
| 0.326640934 | 0.052372903 | 0.035 | 1 | 3856 | KRT8P9 |
| 0.326640934 | 0.052372903 | 0.045 | 1 | 6919 | TCEA2 |
| 0.326640934 | 0.052372903 | 0.049 | 1 | 11260 | XPOT |
| 0.326640934 | 0.052372903 | 0.039 | 1 | 57556 | SEMA6A |
| 0.326640934 | 0.052372903 | 0.047 | 1 | 162972 | ZNF550 |
| 0.326640934 | 0.052372903 | 0.048 | 1 | 388699 | LINC00302 |
| 0.326640934 | 0.052372903 | 0.056 | 1 | 440354 | AC009086.2 |
| 0.326383501 | 0.052567199 | 0.051 | 1 | 6094 | ROM1 |
| 0.326383501 | 0.052567199 | 0.037 | 1 | 25771 | TBC1D22A |
| 0.326383501 | 0.052567199 | 0.045 | 1 | 55744 | C7orf44 |
| 0.326383501 | 0.052567199 | 0.053 | 1 | 56906 | THAP10 |
| 0.326383501 | 0.052567199 | 0.046 | 1 | 79628 | SH3TC2 |
| 0.326383501 | 0.052567199 | 0.04 | 1 | 80224 | NUBPL |
| 0.326383501 | 0.052567199 | 0.05 | 1 | 84168 | ANTXR1 |
| 0.326126128 | 0.05276208 | 0.036 | 1 | 1291 | COL6A1 |
| 0.326126128 | 0.05276208 | 0.06 | 1 | 6392 | SDHD |
| 0.326126128 | 0.05276208 | 0.038 | 1 | 6737 | TRIM21 |
| 0.326126128 | 0.05276208 | 0.055 | 1 | 10134 | BCAP31 |
| 0.326126128 | 0.05276208 | 0.046 | 1 | 27068 | PPA2 |
| 0.326126128 | 0.05276208 | 0.039 | 1 | 81628 | TSC22D4 |
| 0.326126128 | 0.05276208 | 0.039 | 1 | 91607 | SLFN11 |
| 0.326126128 | 0.05276208 | 0.054 | 1 | 159091 | FAM122C |
| 0.326126128 | 0.05276208 | 0.046 | 1 | 347454 | ANKRD58 |
| 0.326126128 | 0.05276208 | 0.036 | 1 | 401612 | MCART6 |
| 0.325868726 | 0.052957606 | 0.042 | 1 | 3075 | CFH |
| 0.325868726 | 0.052957606 | 0.043 | 1 | 7094 | TLN1 |
| 0.325868726 | 0.052957606 | 0.024 | 1 | 7869 | SEMA3B |
| 0.325868726 | 0.052957606 | 0.042 | 1 | 30827 | CXXC1 |
| 0.325868726 | 0.052957606 | 0.046 | 1 | 92170 | MTG1 |
| 0.325868726 | 0.052957606 | 0.042 | 1 | 131096 | KCNH8 |
| 0.325868726 | 0.052957606 | 0.043 | 1 | 157556 | C8orf56 |
| 0.325611323 | 0.053153649 | 0.038 | 1 | 3108 | HLA-DMA |
| 0.325611323 | 0.053153649 | 0.044 | 1 | 4646 | MYO6 |
| 0.325611323 | 0.053153649 | 0.05 | 1 | 55076 | TMEM45A |
| 0.325611323 | 0.053153649 | 0.041 | 1 | 79573 | TTC13 |
| 0.325611323 | 0.053153649 | 0.036 | 1 | 84445 | LZTS2 |
| 0.325611323 | 0.053153649 | 0.048 | 1 | 87178 | PNPT1 |
| 0.325611323 | 0.053153649 | 0.056 | 1 | 94274 | PPP1R14A |
| 0.32535392 | 0.053350281 | 0.046 | 1 | 2040 | STOM |
| 0.32535392 | 0.053350281 | 0.036 | 1 | 23443 | SLC35A3 |
| 0.32535392 | 0.053350281 | 0.041 | 1 | 51700 | CYB5R2 |
| 0.32535392 | 0.053350281 | 0.038 | 1 | 54675 | CRLS1 |
| 0.32535392 | 0.053350281 | 0.055 | 1 | 84939 | MUM1 |
| 0.32535392 | 0.053350281 | 0.039 | 1 | 147276 | C18orf15 |
| 0.32535392 | 0.053350281 | 0.039 | 1 | 149685 | ADIG |
| 0.32535392 | 0.053350281 | 0.04 | 1 | 728763 | LOC728763 |
| 0.325096518 | 0.053547494 | 0.047 | 1 | 214 | ALCAM |
| 0.325096518 | 0.053547494 | 0.041 | 1 | 4684 | NCAM1 |
| 0.325096518 | 0.053547494 | 0.041 | 1 | 79958 | DENND1C |
| 0.325096518 | 0.053547494 | 0.047 | 1 | 84166 | NLRC5 |
| 0.325096518 | 0.053547494 | 0.047 | 1 | 220108 | FAM124A |
| 0.325096518 | 0.053547494 | 0.043 | 1 | 388581 | FAM132A |
| 0.325096518 | 0.053547494 | 0.054 | 1 | 100132306 | LOC100132306 |
| 0.324839115 | 0.053745385 | 0.051 | 1 | 716 | C1S |
| 0.324839115 | 0.053745385 | 0.048 | 1 | 5137 | PDE1C |
| 0.324839115 | 0.053745385 | 0.05 | 1 | 5163 | PDK1 |
| 0.324839115 | 0.053745385 | 0.049 | 1 | 8813 | DPM1 |
| 0.324839115 | 0.053745385 | 0.05 | 1 | 9879 | DDX46 |
| 0.324839115 | 0.053745385 | 0.051 | 1 | 25821 | MTO1 |
| 0.324839115 | 0.053745385 | 0.034 | 1 | 28974 | C19orf53 |
| 0.324839115 | 0.053745385 | 0.058 | 1 | 56984 | PSMG2 |
| 0.324839115 | 0.053745385 | 0.043 | 1 | 83481 | EPPK1 |
| 0.324839115 | 0.053745385 | 0.045 | 1 | 285800 | PRR18 |
| 0.324839115 | 0.053745385 | 0.046 | 1 | 387521 | TMEM189 |
| 0.324581742 | 0.053943753 | 0.051 | 1 | 4500 | MT1L |
| 0.324581742 | 0.053943753 | 0.043 | 1 | 9514 | GAL3ST1 |
| 0.324581742 | 0.053943753 | 0.044 | 1 | 552900 | BOLA2 |
| 0.32432431 | 0.054142732 | 0.05 | 1 | 187 | APLNR |
| 0.32432431 | 0.054142732 | 0.038 | 1 | 1021 | CDK6 |
| 0.32432431 | 0.054142732 | 0.053 | 1 | 4582 | MUC1 |
| 0.32432431 | 0.054142732 | 0.053 | 1 | 10665 | C6orf10 |
| 0.32432431 | 0.054142732 | 0.048 | 1 | 79890 | RIN3 |
| 0.32432431 | 0.054142732 | 0.048 | 1 | 80975 | TMPRSS5 |
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| 0.166284412 | < 0.001 | 56952 | PRTFDC1 |
| 0.166272804 | < 0.001 | 347734 | SLC35B2 |
| 0.166268274 | < 0.001 | 400752 | LOC400752 |
| 0.166252241 | < 0.001 | 10607 | TBL3 |
| 0.166240722 | < 0.001 | 642938 | FAM196A |
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| 0.166192085 | < 0.001 | 7049 | TGFBR3 |
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| 0.166176036 | < 0.001 | 8209 | C21orf33 |
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| 0.166146427 | < 0.001 | 5687 | PSMA6 |
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| 0.166018397 | < 0.001 | 51181 | DCXR |
| 0.165979803 | < 0.001 | 10628 | TXNIP |
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| 0.165940553 | < 0.001 | 389538 | MGC72080 |
| 0.165938422 | < 0.001 | 401149 | FLJ14186 |
| 0.165932417 | < 0.001 | 517 | ATP5G2 |
| 0.165926322 | < 0.001 | 5151 | PDE8A |
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| 0.165851116 | < 0.001 | 3106 | HLA-B |
| 0.165850788 | < 0.001 | 124790 | HEXIM2 |
| 0.165847659 | < 0.001 | 283987 | C17orf28 |
| 0.165844873 | < 0.001 | 23232 | TBC1D12 |
| 0.165842637 | < 0.001 | 338645 | LUZP2 |
| 0.165810466 | < 0.001 | 159 | ADSS |
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| 0.316859722 | 0.060175464 | 0.062 | 1 | 9997 | SCO2 |
| 0.316859722 | 0.060175464 | 0.058 | 1 | 28982 | FLVCR1 |
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| 0.316602319 | 0.060392685 | 0.046 | 1 | 5730 | PTGDS |
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| 0.312741309 | 0.063727126 | 0.058 | 1 | 79169 | C1orf35 |
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| 0.159554288 | < 0.001 | 124944 | C17ORF49 |
| 0.159508631 | < 0.001 | 116541 | MRPL54 |
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| 0.159480318 | < 0.001 | 10330 | CNPY2 |
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| 0.159413844 | < 0.001 | 54039 | PCBP3 |
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| 0.159243852 | < 0.001 | 55367 | LRDD |
| 0.159211263 | < 0.001 | 65264 | UBE2Z |
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| 0.158264384 | < 0.001 | 875 | CBS |
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| 0.312226504 | 0.064182661 | 0.056 | 1 | 54957 | TXNL4B |
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| 0.312226504 | 0.064182661 | 0.059 | 1 | 83607 | AMMECR1L |
| 0.312226504 | 0.064182661 | 0.07 | 1 | 126295 | ZNF57 |
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| 0.311969101 | 0.06441135 | 0.055 | 1 | 8621 | CDC2L5 |
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| 0.311969101 | 0.06441135 | 0.044 | 1 | 140862 | C20orf82 |
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| 0.311711699 | 0.064640664 | 0.069 | 1 | 3270 | HRC |
| 0.311711699 | 0.064640664 | 0.051 | 1 | 4193 | MDM2 |
| 0.311711699 | 0.064640664 | 0.057 | 1 | 7069 | THRSP |
| 0.311711699 | 0.064640664 | 0.055 | 1 | 25929 | GEMIN5 |
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| 0.311711699 | 0.064640664 | 0.048 | 1 | 245936 | DEFB123 |
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| 0.311454296 | 0.064870656 | 0.061 | 1 | 64170 | CARD9 |
| 0.311454296 | 0.064870656 | 0.058 | 1 | 92154 | MTSS1L |
| 0.311454296 | 0.064870656 | 0.051 | 1 | 140735 | DYNLL2 |
| 0.311196923 | 0.0651014 | 0.06 | 1 | 4913 | NTHL1 |
| 0.311196923 | 0.0651014 | 0.066 | 1 | 5589 | PRKCSH |
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| 0.310939491 | 0.065332688 | 0.059 | 1 | 3002 | GZMB |
| 0.310939491 | 0.065332688 | 0.047 | 1 | 10868 | USP20 |
| 0.310939491 | 0.065332688 | 0.041 | 1 | 23385 | NCSTN |
| 0.310939491 | 0.065332688 | 0.047 | 1 | 57415 | C3orf14 |
| 0.310939491 | 0.065332688 | 0.059 | 1 | 65125 | WNK1 |
| 0.310939491 | 0.065332688 | 0.054 | 1 | 84529 | C15orf41 |
| 0.310939491 | 0.065332688 | 0.047 | 1 | 84839 | RAX2 |
| 0.310939491 | 0.065332688 | 0.053 | 1 | 728758 | PIN4P1 |
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| 0.310682118 | 0.065564618 | 0.049 | 1 | 8751 | ADAM15 |
| 0.310682118 | 0.065564618 | 0.069 | 1 | 10911 | UTS2 |
| 0.310682118 | 0.065564618 | 0.048 | 1 | 22933 | SIRT2 |
| 0.310682118 | 0.065564618 | 0.058 | 1 | 23061 | TBC1D9B |
| 0.310682118 | 0.065564618 | 0.057 | 1 | 114904 | C1QTNF6 |
| 0.310682118 | 0.065564618 | 0.048 | 1 | 403313 | PPAPDC2 |
| 0.310424685 | 0.065797217 | 0.06 | 1 | 7867 | MAPKAPK3 |
| 0.310424685 | 0.065797217 | 0.056 | 1 | 8797 | TNFRSF10A |
| 0.310424685 | 0.065797217 | 0.055 | 1 | 9499 | MYOT |
| 0.310424685 | 0.065797217 | 0.051 | 1 | 22850 | ADNP2 |
| 0.310424685 | 0.065797217 | 0.067 | 1 | 57571 | ATPGD1 |
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| 0.310167313 | 0.066030577 | 0.056 | 1 | 1521 | CTSW |
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| 0.30990991 | 0.066264495 | 0.056 | 1 | 1345 | COX6C |
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| 0.30990991 | 0.066264495 | 0.052 | 1 | 6566 | SLC16A1 |
| 0.30990991 | 0.066264495 | 0.048 | 1 | 8892 | EIF2B2 |
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| 0.30990991 | 0.066264495 | 0.049 | 1 | 54941 | RNF125 |
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| 0.308622926 | 0.067444049 | 0.056 | 1 | 150759 | LINC00342 |
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| 0.308108121 | 0.067920446 | 0.052 | 1 | 130271 | PLEKHH2 |
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| 0.307850689 | 0.068159774 | 0.062 | 1 | 5292 | PIM1 |
| 0.307850689 | 0.068159774 | 0.058 | 1 | 5354 | PLP1 |
| 0.307850689 | 0.068159774 | 0.053 | 1 | 51608 | C7orf20 |
| 0.307850689 | 0.068159774 | 0.074 | 1 | 57475 | PLEKHH1 |
| 0.307850689 | 0.068159774 | 0.046 | 1 | 80005 | DOCK5 |
| 0.307850689 | 0.068159774 | 0.054 | 1 | 339965 | CCDC158 |
| 0.307850689 | 0.068159774 | 0.064 | 1 | 401357 | LOC401357 |
| 0.307850689 | 0.068159774 | 0.059 | 1 | 494143 | CHAC2 |
| 0.307593286 | 0.06839966 | 0.052 | 1 | 3834 | KIF25 |
| 0.307593286 | 0.06839966 | 0.065 | 1 | 5664 | PSEN2 |
| 0.307593286 | 0.06839966 | 0.047 | 1 | 6372 | CXCL6 |
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| 0.307593286 | 0.06839966 | 0.065 | 1 | 9637 | FEZ2 |
| 0.307593286 | 0.06839966 | 0.064 | 1 | 23555 | TSPAN15 |
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| 0.307335913 | 0.06864021 | 0.052 | 1 | 7075 | TIE1 |
| 0.307335913 | 0.06864021 | 0.053 | 1 | 55100 | WDR70 |
| 0.307335913 | 0.06864021 | 0.065 | 1 | 83937 | RASSF4 |
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| 0.307078481 | 0.06888143 | 0.051 | 1 | 1306 | COL15A1 |
| 0.307078481 | 0.06888143 | 0.049 | 1 | 10538 | BATF |
| 0.307078481 | 0.06888143 | 0.051 | 1 | 93643 | TJAP1 |
| 0.307078481 | 0.06888143 | 0.048 | 1 | 151903 | CCDC12 |
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| 0.306821108 | 0.069123417 | 0.068 | 1 | 5832 | ALDH18A1 |
| 0.306821108 | 0.069123417 | 0.059 | 1 | 8780 | RIOK3 |
| 0.306821108 | 0.069123417 | 0.062 | 1 | 10099 | TSPAN3 |
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| 0.306821108 | 0.069123417 | 0.052 | 1 | 50939 | IMPG2 |
| 0.306821108 | 0.069123417 | 0.06 | 1 | 151242 | PPP1R1C |
| 0.306821108 | 0.069123417 | 0.059 | 1 | 100289635 | ZNF605 |
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| 0.306563675 | 0.069365986 | 0.061 | 1 | 153572 | IRX2 |
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| 0.297039896 | 0.078826062 | 0.073 | 1 | 10741 | RBBP9 |
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| 0.297039896 | 0.078826062 | 0.062 | 1 | 284383 | OR2Z1 |
| 0.297039896 | 0.078826062 | 0.069 | 1 | 340198 | IFITM4P |
| 0.296782494 | 0.079095192 | 0.067 | 1 | 3963 | LGALS7 |
| 0.296782494 | 0.079095192 | 0.067 | 1 | 5538 | PPT1 |
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| 0.296267688 | 0.079635456 | 0.073 | 1 | 5902 | RANBP1 |
| 0.296267688 | 0.079635456 | 0.056 | 1 | 79745 | CLIP4 |
| 0.296267688 | 0.079635456 | 0.082 | 1 | 135114 | HINT3 |
| 0.296010286 | 0.079906672 | 0.073 | 1 | 7818 | DAP3 |
| 0.296010286 | 0.079906672 | 0.062 | 1 | 7920 | BAT5 |
| 0.296010286 | 0.079906672 | 0.072 | 1 | 23633 | KPNA6 |
| 0.296010286 | 0.079906672 | 0.067 | 1 | 51136 | RNFT1 |
| 0.296010286 | 0.079906672 | 0.076 | 1 | 84233 | TMEM126A |
| 0.296010286 | 0.079906672 | 0.071 | 1 | 728489 | DNLZ |
| 0.295752913 | 0.08017873 | 0.073 | 1 | 550 | AUP1 |
| 0.295752913 | 0.08017873 | 0.065 | 1 | 7328 | UBE2H |
| 0.295752913 | 0.08017873 | 0.072 | 1 | 23060 | ZNF609 |
| 0.295752913 | 0.08017873 | 0.072 | 1 | 58191 | CXCL16 |
| 0.295752913 | 0.08017873 | 0.088 | 1 | 403341 | ZBTB34 |
| 0.29549548 | 0.080451362 | 0.059 | 1 | 4723 | NDUFV1 |
| 0.29549548 | 0.080451362 | 0.061 | 1 | 5427 | POLE2 |
| 0.29549548 | 0.080451362 | 0.069 | 1 | 5879 | RAC1 |
| 0.29549548 | 0.080451362 | 0.075 | 1 | 8310 | ACOX3 |
| 0.295238107 | 0.080724746 | 0.069 | 1 | 6185 | RPN2 |
| 0.295238107 | 0.080724746 | 0.072 | 1 | 7076 | TIMP1 |
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| 0.295238107 | 0.080724746 | 0.063 | 1 | 7518 | XRCC4 |
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| 0.295238107 | 0.080724746 | 0.061 | 1 | 116362 | RBP7 |
| 0.294980675 | 0.080998868 | 0.066 | 1 | 1663 | DDX11 |
| 0.294980675 | 0.080998868 | 0.07 | 1 | 3313 | HSPA9 |
| 0.294980675 | 0.080998868 | 0.059 | 1 | 3709 | ITPR2 |
| 0.294980675 | 0.080998868 | 0.061 | 1 | 5429 | POLH |
| 0.294980675 | 0.080998868 | 0.067 | 1 | 5557 | PRIM1 |
| 0.294980675 | 0.080998868 | 0.072 | 1 | 8815 | BANF1 |
| 0.294980675 | 0.080998868 | 0.07 | 1 | 54933 | RHBDL2 |
| 0.294980675 | 0.080998868 | 0.083 | 1 | 79798 | ARMC5 |
| 0.294980675 | 0.080998868 | 0.08 | 1 | 221400 | TDRD6 |
| 0.294980675 | 0.080998868 | 0.087 | 1 | 645937 | LOC645937 |
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| 0.294465899 | 0.081549414 | 0.074 | 1 | 2978 | GUCA1A |
| 0.294465899 | 0.081549414 | 0.058 | 1 | 55184 | C20orf12 |
| 0.294465899 | 0.081549414 | 0.061 | 1 | 55755 | CDK5RAP2 |
| 0.294465899 | 0.081549414 | 0.087 | 1 | 79664 | NARG2 |
| 0.294465899 | 0.081549414 | 0.076 | 1 | 84457 | PHYHIP |
| 0.294465899 | 0.081549414 | 0.065 | 1 | 90861 | HN1L |
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| 0.294208497 | 0.081825696 | 0.078 | 1 | 4598 | MVK |
| 0.294208497 | 0.081825696 | 0.076 | 1 | 5192 | PEX10 |
| 0.294208497 | 0.081825696 | 0.073 | 1 | 7422 | VEGFA |
| 0.294208497 | 0.081825696 | 0.066 | 1 | 8436 | SDPR |
| 0.294208497 | 0.081825696 | 0.06 | 1 | 51734 | SEPX1 |
| 0.294208497 | 0.081825696 | 0.068 | 1 | 54808 | DYM |
| 0.294208497 | 0.081825696 | 0.066 | 1 | 83982 | IFI27L2 |
| 0.293951094 | 0.082102731 | 0.078 | 1 | 1879 | EBF1 |
| 0.293951094 | 0.082102731 | 0.062 | 1 | 5348 | FXYD1 |
| 0.293951094 | 0.082102731 | 0.07 | 1 | 7113 | TMPRSS2 |
| 0.293951094 | 0.082102731 | 0.057 | 1 | 9897 | KIAA0196 |
| 0.293951094 | 0.082102731 | 0.061 | 1 | 23082 | PPRC1 |
| 0.293951094 | 0.082102731 | 0.079 | 1 | 84273 | NOA1 |
| 0.293951094 | 0.082102731 | 0.067 | 1 | 84930 | MASTL |
| 0.293951094 | 0.082102731 | 0.08 | 1 | 84961 | FBXL20 |
| 0.293951094 | 0.082102731 | 0.068 | 1 | 113622 | ADPRHL1 |
| 0.293951094 | 0.082102731 | 0.072 | 1 | 643036 | SLED1 |
| 0.293693662 | 0.082380503 | 0.075 | 1 | 312 | ANXA13 |
| 0.293693662 | 0.082380503 | 0.065 | 1 | 582 | BBS1 |

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| 0.150140032 | 1.17709E-43 | 201294 | UNC13D |
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| 0.150114194 | 1.23314E-43 | 55746 | NUP133 |
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| 0.150106803 | 1.23314E-43 | 6609 | SMPD1 |
| 0.150098324 | 1.23314E-43 | 199870 | FAM76A |
| 0.150069445 | 1.28919E-43 | 1735 | DIO3 |
| 0.149984688 | 1.45735E-43 | 150946 | FAM59B |
| 0.149948984 | 1.5134E-43 | 57001 | ACN9 |
| 0.149929404 | 1.56945E-43 | 9037 | SEMA5A |
| 0.149924383 | 1.56945E-43 | 84545 | MRPL43 |
| 0.149920672 | 1.56945E-43 | 116842 | LEAP2 |
| 0.149910808 | 1.59748E-43 | 25966 | C2CD2 |
| 0.149876088 | 1.68156E-43 | 58515 | RP11-884K10.1 |
| 0.1498328 | 1.76564E-43 | 4700 | NDUFA6 |
| 0.149827287 | 1.79366E-43 | 284433 | OR10H5 |
| 0.149810582 | 1.82169E-43 | 5986 | RFNG |
| 0.149799481 | 1.84971E-43 | 57156 | TMEM63C |
| 0.149798408 | 1.84971E-43 | 6633 | SNRPD2 |
| 0.149791747 | 1.84971E-43 | 7597 | ZBTB25 |
| 0.149781704 | 1.90577E-43 | 125206 | SLC5A10 |
| 0.149738342 | 1.98984E-43 | 79570 | NKAIN1 |
| 0.149723291 | 2.01787E-43 | 221823 | PRPS1L1 |
| 0.149720579 | 2.0459E-43 | 648987 | AC008875.1 |
| 0.149719581 | 2.0459E-43 | 392288 | LOC392288 |
| 0.149693578 | 2.12997E-43 | 5078 | PAX4 |
| 0.149656057 | 2.21405E-43 | 219293 | ATAD3C |
| 0.149652943 | 2.24208E-43 | 84557 | MAP1LC3A |
| 0.149640098 | 2.2701E-43 | 9465 | AKAP7 |
| 0.149566054 | 2.49431E-43 | 9283 | GPR37L1 |
| 0.149491504 | 2.74654E-43 | 1657 | DMXL1 |
| 0.14946641 | 2.83062E-43 | 2302 | FOXJ1 |
| 0.149422795 | 2.99878E-43 | 5332 | PLCB4 |
| 0.149402067 | 3.08286E-43 | 9377 | COX5A |
| 0.149355739 | 3.27904E-43 | 8667 | EIF3H |
| 0.149342254 | 3.33509E-43 | 7033 | TFF3 |
| 0.149312377 | 3.47522E-43 | 56898 | BDH2 |
| 0.149297073 | 3.53127E-43 | 283989 | TSEN54 |
| 0.149288192 | 3.58732E-43 | 10179 | AP002373.1 |
| 0.149278969 | 3.61535E-43 | 441543 | TTTY6B |
| 0.149261609 | 3.69943E-43 | 93643 | TJAP1 |
| 0.149254456 | 3.72745E-43 | 131566 | DCBLD2 |
| 0.149253547 | 3.75548E-43 | 8277 | TKTL1 |
| 0.149243847 | 3.78351E-43 | 7517 | XRCC3 |
| 0.149234131 | 3.81153E-43 | 201254 | STRA13 |
| 0.14914988 | 4.25995E-43 | 6050 | RNH1 |
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| 0.149132758 | 4.37205E-43 | 116362 | RBP7 |
| 0.149122894 | 4.4281E-43 | 8572 | PDLIM4 |
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| 0.149111286 | 4.48416E-43 | 8664 | EIF3D |
| 0.149104789 | 4.54021E-43 | 55696 | RBM22 |
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| 0.149058625 | 4.82047E-43 | 117196 | MRGPRX4 |
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| 0.1489961 | 5.21283E-43 | 133 | ADM |
| 0.148980379 | 5.32493E-43 | 11017 | SNRNP27 |
| 0.148967952 | 5.40901E-43 | 4790 | NFKB1 |
| 0.148922697 | 5.7173E-43 | 7553 | ZNF7 |
| 0.148916692 | 5.77335E-43 | 54386 | TERF2IP |
| 0.148897439 | 5.91348E-43 | 401399 | RP11-155G14.1 |
| 0.148894638 | 5.94151E-43 | 4670 | HNRNPM |
| 0.148882955 | 6.02558E-43 | 8612 | PPAP2C |
| 0.148858607 | 6.22177E-43 | 27071 | DAPP1 |
| 0.148853332 | 6.27782E-43 | 494514 | C18orf56 |
| 0.148853004 | 6.27782E-43 | 4738 | NEDD8 |
| 0.148810551 | 6.61413E-43 | 373863 | DND1 |
| 0.148797557 | 6.72623E-43 | 2729 | GCLC |
| 0.148787186 | 6.83834E-43 | 221044 | UCMA |
| 0.148732051 | 7.31478E-43 | 1393 | CRHBP |
| 0.148726046 | 7.37083E-43 | 85458 | DIXDC1 |
| 0.148708031 | 7.56701E-43 | 826 | CAPNS1 |
| 0.148674384 | 7.90332E-43 | 113457 | TUBA3D |
| 0.148656696 | 8.07148E-43 | 338322 | NLRP10 |
| 0.148646161 | 8.18358E-43 | 11341 | SCRG1 |
| 0.148639083 | 8.23963E-43 | 153339 | TMEM167A |
| 0.148635879 | 8.29569E-43 | 54903 | MKS1 |
| 0.148629695 | 8.35174E-43 | 3396 | ICT1 |

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| 0.293693662 | 0.082380503 | 0.073 | 1 | 2585 | GALK2 |
| 0.293693662 | 0.082380503 | 0.072 | 1 | 8895 | CPNE3 |
| 0.293693662 | 0.082380503 | 0.063 | 1 | 55739 | CARKD |
| 0.293693662 | 0.082380503 | 0.065 | 1 | 64788 | LMF1 |
| 0.293693662 | 0.082380503 | 0.066 | 1 | 221756 | MGC39372 |
| 0.293693662 | 0.082380503 | 0.075 | 1 | 100133920 | LOC100133920 |
| 0.293436289 | 0.08265914 | 0.086 | 1 | 1893 | ECM1 |
| 0.293436289 | 0.08265914 | 0.061 | 1 | 3136 | HLA-H |
| 0.293436289 | 0.08265914 | 0.086 | 1 | 11116 | FGFR1OP |
| 0.293436289 | 0.08265914 | 0.082 | 1 | 79083 | MLPH |
| 0.293436289 | 0.08265914 | 0.065 | 1 | 153129 | SLC38A9 |
| 0.293436289 | 0.08265914 | 0.092 | 1 | 163059 | ZNF433 |
| 0.293436289 | 0.08265914 | 0.063 | 1 | 388550 | CEACAM22P |
| 0.293436289 | 0.08265914 | 0.069 | 1 | 645843 | TMEM14E |
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| 0.293178886 | 0.082938388 | 0.078 | 1 | 6557 | SLC12A1 |
| 0.293178886 | 0.082938388 | 0.067 | 1 | 8602 | NOP14 |
| 0.293178886 | 0.082938388 | 0.081 | 1 | 27342 | RABGEF1 |
| 0.293178886 | 0.082938388 | 0.045 | 1 | 55196 | C12orf35 |
| 0.293178886 | 0.082938388 | 0.078 | 1 | 55647 | RAB20 |
| 0.293178886 | 0.082938388 | 0.072 | 1 | 65258 | MPPE1 |
| 0.292921484 | 0.083218336 | 0.058 | 1 | 3062 | HCRTR2 |
| 0.292921484 | 0.083218336 | 0.074 | 1 | 4701 | NDUFA7 |
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| 0.292921484 | 0.083218336 | 0.077 | 1 | 10268 | RAMP3 |
| 0.292921484 | 0.083218336 | 0.065 | 1 | 10791 | VAMP5 |
| 0.292921484 | 0.083218336 | 0.062 | 1 | 23524 | SRRM2 |
| 0.292921484 | 0.083218336 | 0.075 | 1 | 51320 | MEX3C |
| 0.292921484 | 0.083218336 | 0.068 | 1 | 54982 | CLN6 |
| 0.292921484 | 0.083218336 | 0.073 | 1 | 57447 | NDRG2 |
| 0.292664081 | 0.083499067 | 0.061 | 1 | 10231 | RCAN2 |
| 0.292664081 | 0.083499067 | 0.077 | 1 | 55114 | ARHGAP17 |
| 0.292406678 | 0.083780527 | 0.074 | 1 | 4345 | CD200 |
| 0.292406678 | 0.083780527 | 0.07 | 1 | 26060 | APPL1 |
| 0.292406678 | 0.083780527 | 0.066 | 1 | 29775 | CARD10 |
| 0.292406678 | 0.083780527 | 0.073 | 1 | 80705 | TSGA10 |
| 0.292406678 | 0.083780527 | 0.064 | 1 | 94056 | SYAP1 |
| 0.292406678 | 0.083780527 | 0.063 | 1 | 132228 | C3orf45 |
| 0.292406678 | 0.083780527 | 0.063 | 1 | 342909 | ZNF284 |
| 0.292406678 | 0.083780527 | 0.076 | 1 | 100170765 | C19orf69 |
| 0.292149276 | 0.084062852 | 0.074 | 1 | 939 | CD27 |
| 0.292149276 | 0.084062852 | 0.082 | 1 | 2308 | FOXO1 |
| 0.292149276 | 0.084062852 | 0.062 | 1 | 4329 | ALDH6A1 |
| 0.292149276 | 0.084062852 | 0.081 | 1 | 6769 | STAC |
| 0.292149276 | 0.084062852 | 0.076 | 1 | 58476 | TP53INP2 |
| 0.292149276 | 0.084062852 | 0.082 | 1 | 151194 | FAM119A |
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| 0.291891903 | 0.084345795 | 0.079 | 1 | 5555 | PRH2 |
| 0.291891903 | 0.084345795 | 0.068 | 1 | 23435 | TARDBP |
| 0.291891903 | 0.084345795 | 0.077 | 1 | 26355 | FAM162A |
| 0.291891903 | 0.084345795 | 0.07 | 1 | 28981 | IFT81 |
| 0.291891903 | 0.084345795 | 0.085 | 1 | 51773 | RSF1 |
| 0.291891903 | 0.084345795 | 0.073 | 1 | 63894 | C14orf133 |
| 0.291891903 | 0.084345795 | 0.075 | 1 | 414328 | IDNK |
| 0.29163447 | 0.084629454 | 0.076 | 1 | 838 | CASP5 |
| 0.29163447 | 0.084629454 | 0.075 | 1 | 3005 | H1F0 |
| 0.29163447 | 0.084629454 | 0.075 | 1 | 3549 | IHH |
| 0.29163447 | 0.084629454 | 0.079 | 1 | 5937 | RBMS1 |
| 0.29163447 | 0.084629454 | 0.078 | 1 | 6441 | SFTPD |
| 0.29163447 | 0.084629454 | 0.085 | 1 | 8613 | PPAP2B |
| 0.29163447 | 0.084629454 | 0.059 | 1 | 11322 | TMC6 |
| 0.29163447 | 0.084629454 | 0.079 | 1 | 22880 | MORC2 |
| 0.29163447 | 0.084629454 | 0.075 | 1 | 51441 | YTHDF2 |
| 0.29163447 | 0.084629454 | 0.076 | 1 | 51540 | SCLY |
| 0.29163447 | 0.084629454 | 0.067 | 1 | 56910 | STARD7 |
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| 0.291377097 | 0.084913887 | 0.08 | 1 | 122060 | SLAIN1 |
| 0.291377097 | 0.084913887 | 0.074 | 1 | 284348 | LYPD5 |
| 0.291119665 | 0.085199192 | 0.067 | 1 | 5036 | PA2G4 |
| 0.291119665 | 0.085199192 | 0.072 | 1 | 5349 | FXYD3 |
| 0.291119665 | 0.085199192 | 0.08 | 1 | 6169 | RPL38 |
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| 0.291119665 | 0.085199192 | 0.07 | 1 | 10247 | HRSP12 |
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| 0.290862292 | 0.085485116 | 0.073 | 1 | 5863 | RGL2 |
| 0.290862292 | 0.085485116 | 0.072 | 1 | 81671 | TMEM49 |
| 0.290862292 | 0.085485116 | 0.064 | 1 | 84872 | ZC3H10 |
| 0.290862292 | 0.085485116 | 0.08 | 1 | 146542 | ZNF688 |
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| 0.290604889 | 0.085771762 | 0.073 | 1 | 1191 | CLU |
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| 0.148375615 | 1.15747E-42 | 200523 | C2orf51 |
| 0.148364186 | 1.17429E-42 | 139324 | HDX |
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| 0.148273677 | 1.32002E-42 | 89944 | GLB1L2 |
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| 0.148236901 | 1.38448E-42 | 60560 | MAK10 |
| 0.148214921 | 1.42372E-42 | 54816 | ZNF280D |
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| 0.148091421 | 1.66755E-42 | 5378 | PMS1 |
| 0.148085579 | 1.67876E-42 | 8778 | SIGLEC5 |
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| 0.148062125 | 1.732E-42 | 645784 | ANKRD36BP2 |
| 0.14799121 | 1.89456E-42 | 1014 | CDH16 |
| 0.147985861 | 1.90857E-42 | 143425 | SYT9 |
| 0.147982985 | 1.91698E-42 | 57645 | POGK |
| 0.147974014 | 1.9394E-42 | 90956 | ADCK2 |
| 0.147971287 | 1.945E-42 | 6100 | RP9 |
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| 0.147870749 | 2.21125E-42 | 122060 | SLAIN1 |
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| 0.146796912 | 8.69366E-42 | 22897 | CEP164 |
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| 0.146402538 | 1.43325E-41 | 51596 | CUTA |
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| 0.146333009 | 1.56553E-41 | 492303 | GEMIN8P4 |
| 0.14632833 | 1.5745E-41 | 5348 | FXYD1 |
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| 0.283140272 | 0.094416983 | 0.077 | 1 | 79993 | ELOVL7 |
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| 0.282882899 | 0.094726659 | 0.087 | 1 | 6581 | SLC22A3 |
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| 0.135490865 | 8.46741E-36 | 11325 | DDX42 |
| 0.135481983 | 8.55588E-36 | 54910 | SEMA4C |
| 0.135468975 | 8.68693E-36 | 4118 | MAL |
| 0.135438532 | 9.00177E-36 | 5694 | PSMB6 |
| 0.135406122 | 9.34935E-36 | 5150 | PDE7A |
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| 0.134936124 | 1.61771E-35 | 6003 | RGS13 |
| 0.134919599 | 1.64915E-35 | 143903 | LAYN |
| 0.134904295 | 1.67883E-35 | 27429 | HTRA2 |
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| 0.134894088 | 1.69888E-35 | 79100 | RP1-10C16.2 |
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| 0.26563707 | 0.117324546 | 0.096 | 1 | 162394 | SLFN5 |
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| 0.264607459 | 0.118792765 | 0.106 | 1 | 6830 | SUPT6H |
| 0.264607459 | 0.118792765 | 0.087 | 1 | 9725 | TMEM63A |
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| 0.264607459 | 0.118792765 | 0.112 | 1 | 353140 | LCE2C |
| 0.264607459 | 0.118792765 | 0.107 | 1 | 441381 | LRRC24 |
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| 0.264350057 | 0.11916212 | 0.093 | 1 | 6736 | SRY |
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| 0.134721547 | 2.07656E-35 | 80332 | ADAM33 |
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| 0.134558469 | 2.50975E-35 | 89782 | LMLN |
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| 0.134552538 | 2.52711E-35 | 1278 | COL1A2 |
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| 0.13435021 | 3.1958E-35 | 51773 | RSF1 |
| 0.134331122 | 3.26727E-35 | 200081 | TXLNA |
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| 0.134308994 | 3.35217E-35 | 80832 | APOL4 |
| 0.134305865 | 3.3644E-35 | 8479 | HIRIP3 |
| 0.134265468 | 3.52564E-35 | 84719 | LINC00260 |
| 0.134179071 | 3.89662E-35 | 54676 | GTPBP2 |
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| 0.134171575 | 3.93059E-35 | 634 | CEACAM1 |
| 0.134132907 | 4.1105E-35 | 79089 | TMUB2 |
| 0.134103537 | 4.25271E-35 | 403282 | OR6C65 |
| 0.134020269 | 4.68269E-35 | 1950 | EGF |
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| 0.134006366 | 4.7586E-35 | 10623 | POLR3C |
| 0.133979052 | 4.91128E-35 | 6897 | TARS |
| 0.133978888 | 4.91219E-35 | 4049 | LTA |
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| 0.133315131 | 1.05606E-34 | 6389 | SDHA |
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| 0.262805641 | 0.121395603 | 0.108 | 1 | 5893 | RAD52 |
| 0.262805641 | 0.121395603 | 0.106 | 1 | 10342 | TFG |
| 0.262805641 | 0.121395603 | 0.109 | 1 | 10412 | NSA2 |
| 0.262805641 | 0.121395603 | 0.119 | 1 | 51150 | SDF4 |
| 0.262805641 | 0.121395603 | 0.108 | 1 | 56339 | METTL3 |
| 0.262805641 | 0.121395603 | 0.105 | 1 | 57493 | HEG1 |
| 0.262805641 | 0.121395603 | 0.099 | 1 | 121274 | ZNF641 |
| 0.262548268 | 0.121770896 | 0.108 | 1 | 9625 | AATK |
| 0.262548268 | 0.121770896 | 0.108 | 1 | 29081 | METTL5 |
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| 0.262548268 | 0.121770896 | 0.129 | 1 | 57522 | SRGAP1 |
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| 0.262290865 | 0.122147053 | 0.113 | 1 | 51225 | ABI3 |
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| 0.262033463 | 0.122524261 | 0.09 | 1 | 84572 | GNPTG |
| 0.262033463 | 0.122524261 | 0.101 | 1 | 84991 | RBM17 |
| 0.26177606 | 0.122902177 | 0.104 | 1 | 2620 | GAS2 |
| 0.26177606 | 0.122902177 | 0.117 | 1 | 5440 | AC025647.1 |
| 0.26177606 | 0.122902177 | 0.114 | 1 | 6427 | SFRS2 |
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| 0.26177606 | 0.122902177 | 0.113 | 1 | 9861 | PSMD6 |
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| 0.26177606 | 0.122902177 | 0.104 | 1 | 26292 | MYCBP |
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| 0.26177606 | 0.122902177 | 0.108 | 1 | 84909 | C9orf3 |
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| 0.261518657 | 0.123280935 | 0.099 | 1 | 6921 | TCEB1 |
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| 0.261518657 | 0.123280935 | 0.1 | 1 | 246182 | AKR7A2P1 |
| 0.261261255 | 0.123660602 | 0.113 | 1 | 23760 | PITPNB |
| 0.261261255 | 0.123660602 | 0.109 | 1 | 80820 | EEPD1 |
| 0.261261255 | 0.123660602 | 0.104 | 1 | 93377 | OPALIN |
| 0.261261255 | 0.123660602 | 0.123 | 1 | 163223 | ZNF676 |
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| 0.261003882 | 0.124041326 | 0.096 | 1 | 5705 | PSMC5 |
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| 0.260746449 | 0.124422774 | 0.112 | 1 | 284086 | NEK8 |
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| 0.260231644 | 0.125188261 | 0.113 | 1 | 9709 | HERPUD1 |
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| 0.260231644 | 0.125188261 | 0.106 | 1 | 80143 | SIKE1 |
| 0.259974271 | 0.125572339 | 0.088 | 1 | 94 | ACVRL1 |
| 0.259974271 | 0.125572339 | 0.113 | 1 | 7737 | RNF113A |
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| 0.259974271 | 0.125572339 | 0.109 | 1 | 26953 | RANBP6 |
| 0.259974271 | 0.125572339 | 0.14 | 1 | 400986 | ANKRD36C |
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| 0.259716868 | 0.125957489 | 0.107 | 1 | 57139 | RGL3 |
| 0.259716868 | 0.125957489 | 0.084 | 1 | 64781 | CERK |
| 0.259716868 | 0.125957489 | 0.116 | 1 | 80045 | GPR157 |
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| 0.133248568 | 1.14008E-34 | 23708 | GSPT2 |
| 0.133247405 | 1.1416E-34 | 5331 | PLCB3 |
| 0.133168831 | 1.24949E-34 | 4744 | NEFH |
| 0.133166537 | 1.25278E-34 | 79703 | C11orf80 |
| 0.133164465 | 1.25578E-34 | 5511 | PPP1R8 |
| 0.133157641 | 1.26566E-34 | 7018 | TF |
| 0.133137152 | 1.2958E-34 | 10482 | NXF1 |
| 0.133122757 | 1.31741E-34 | 81543 | LRRC3 |
| 0.13311404 | 1.33069E-34 | 5216 | PFN1 |
| 0.1331072 | 1.34116E-34 | 29105 | C16orf80 |
| 0.133100048 | 1.35222E-34 | 27130 | INVS |
| 0.133093461 | 1.36251E-34 | 4661 | MYT1 |
| 0.133084163 | 1.37709E-34 | 145741 | FAM148A |
| 0.133054048 | 1.42555E-34 | 256987 | SERINC5 |
| 0.133052573 | 1.42798E-34 | 25946 | ZNF385A |
| 0.133038908 | 1.45055E-34 | 644246 | AC217773.2 |
| 0.133026987 | 1.47051E-34 | 255022 | CALHM1 |
| 0.133024931 | 1.474E-34 | 5027 | P2RX7 |
| 0.133021146 | 1.48042E-34 | 340260 | UNCX |
| 0.132989958 | 1.53438E-34 | 5898 | RALA |
| 0.132884219 | 1.73219E-34 | 5025 | P2RX4 |
| 0.132855341 | 1.79047E-34 | 94081 | SFXN1 |
| 0.132852793 | 1.7957E-34 | 283303 | C11ORF36 |
| 0.132842585 | 1.81686E-34 | 3195 | TLX1 |
| 0.132788047 | 1.93401E-34 | 26027 | ACOT11 |
| 0.13278088 | 1.94998E-34 | 53904 | MYO3A |
| 0.132780224 | 1.95142E-34 | 27160 | INGX |
| 0.132775784 | 1.96137E-34 | 126133 | ALDH16A1 |
| 0.132772729 | 1.96825E-34 | 255403 | ZNF718 |
| 0.132736698 | 2.05115E-34 | 79441 | HAUS3 |
| 0.132717609 | 2.09647E-34 | 64432 | MRPS25 |
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| 0.132680908 | 2.18644E-34 | 168451 | THAP5 |
| 0.132677287 | 2.19553E-34 | 55786 | ZNF415 |
| 0.132654011 | 2.25481E-34 | 144577 | C12orf66 |
| 0.132649899 | 2.26543E-34 | 10951 | CBX1 |
| 0.132627681 | 2.3238E-34 | 54904 | WHSC1L1 |
| 0.132624298 | 2.33279E-34 | 6903 | TBCC |
| 0.13262324 | 2.33563E-34 | 51552 | RAB14 |
| 0.132583573 | 2.44401E-34 | 4691 | NCL |
| 0.132582426 | 2.44726E-34 | 339366 | ADAMTSL5 |
| 0.132577404 | 2.46135E-34 | 6692 | SPINT1 |
| 0.132571965 | 2.47669E-34 | 286133 | SCARA5 |
| 0.132566467 | 2.49236E-34 | 56204 | KIAA1370 |
| 0.132518485 | 2.6329E-34 | 1198 | CLK3 |
| 0.132507384 | 2.66654E-34 | 7439 | BEST1 |
| 0.132495537 | 2.70286E-34 | 441263 | DTX2P1-UPK3BP1-PMS2P11 |
| 0.132484019 | 2.73867E-34 | 197335 | WDR90 |
| 0.13247858 | 2.75577E-34 | 8701 | DNAH11 |
| 0.132465258 | 2.79805E-34 | 226 | ALDOA |
| 0.132448629 | 2.8517E-34 | 400624 | FLJ45079 |
| 0.132438675 | 2.8843E-34 | 345645 | PSMC1P4 |
| 0.132434398 | 2.89845E-34 | 9360 | PPIG |
| 0.132430866 | 2.91019E-34 | 157848 | NKX6-3 |
| 0.132319286 | 3.30561E-34 | 3241 | HPCAL1 |
| 0.132293776 | 3.4033E-34 | 54933 | RHBDL2 |
| 0.132288352 | 3.42444E-34 | 376497 | SLC27A1 |
| 0.132261202 | 3.53216E-34 | 54785 | C17orf59 |
| 0.132254288 | 3.56011E-34 | 57475 | PLEKHH1 |
| 0.132252812 | 3.56615E-34 | 7791 | ZYX |
| 0.1322487 | 3.58295E-34 | 128408 | BHLHE23 |
| 0.132229686 | 3.66146E-34 | 306 | ANXA3 |
| 0.1322124 | 3.73433E-34 | 6461 | SHB |
| 0.132200971 | 3.78337E-34 | 23604 | DAPK2 |
| 0.132190853 | 3.82727E-34 | 10224 | ZNF443 |
| 0.132129714 | 4.10358E-34 | 2752 | GLUL |
| 0.132125601 | 4.12281E-34 | 11214 | AKAP13 |
| 0.132118687 | 4.15547E-34 | 3727 | JUND |
| 0.132107422 | 4.20923E-34 | 337976 | KRTAP20-2 |
| 0.132073432 | 4.37527E-34 | 401242 | XXBAC-BPG308K3.6 |
| 0.13202703 | 4.61285E-34 | 347 | APOD |
| 0.13201642 | 4.66896E-34 | 2026 | ENO2 |
| 0.131998733 | 4.76391E-34 | 80129 | C6orf97 |
| 0.131980047 | 4.86638E-34 | 254042 | METAP1D |
| 0.131963179 | 4.96071E-34 | 375307 | C2orf62 |
| 0.131924182 | 5.18581E-34 | 4287 | ATXN3 |
| 0.131890118 | 5.39077E-34 | 144100 | PLEKHA7 |
| 0.131878346 | 5.4634E-34 | 5223 | PGAM1 |
| 0.131851777 | 5.63108E-34 | 60437 | CDH26 |
| 0.13184388 | 5.68188E-34 | 6623 | SNCG |
| 0.131836802 | 5.7278E-34 | 5473 | PPBP |
| 0.131805867 | 5.93278E-34 | 10621 | POLR3F |

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| 0.259459466 | 0.12634331 | 0.111 | 1 | 1909 | EDNRA |
| 0.259459466 | 0.12634331 | 0.121 | 1 | 2629 | GBA |
| 0.259459466 | 0.12634331 | 0.109 | 1 | 54507 | ADAMTSL4 |
| 0.259459466 | 0.12634331 | 0.107 | 1 | 56937 | PMEPA1 |
| 0.259459466 | 0.12634331 | 0.11 | 1 | 79077 | DCTPP1 |
| 0.259459466 | 0.12634331 | 0.11 | 1 | 92104 | TTC30A |
| 0.259202063 | 0.12673007 | 0.114 | 1 | 649 | BMP1 |
| 0.259202063 | 0.12673007 | 0.104 | 1 | 8802 | SUCLG1 |
| 0.259202063 | 0.12673007 | 0.104 | 1 | 118788 | PIK3AP1 |
| 0.25894466 | 0.127117708 | 0.115 | 1 | 5046 | PCSK6 |
| 0.25894466 | 0.127117708 | 0.11 | 1 | 6888 | TALDO1 |
| 0.25894466 | 0.127117708 | 0.097 | 1 | 7124 | TNF |
| 0.25894466 | 0.127117708 | 0.11 | 1 | 8898 | MTMR2 |
| 0.25894466 | 0.127117708 | 0.093 | 1 | 9745 | ZNF536 |
| 0.25894466 | 0.127117708 | 0.119 | 1 | 10667 | FARS2 |
| 0.25894466 | 0.127117708 | 0.118 | 1 | 54785 | C17orf59 |
| 0.25894466 | 0.127117708 | 0.099 | 1 | 90594 | ZNF439 |
| 0.258687258 | 0.12750642 | 0.106 | 1 | 8192 | CLPP |
| 0.258687258 | 0.12750642 | 0.106 | 1 | 9322 | TRIP10 |
| 0.258687258 | 0.12750642 | 0.117 | 1 | 25841 | ABTB2 |
| 0.258687258 | 0.12750642 | 0.126 | 1 | 55763 | EXOC1 |
| 0.258687258 | 0.12750642 | 0.107 | 1 | 59347 | FKSG2 |
| 0.258687258 | 0.12750642 | 0.112 | 1 | 169611 | OLFML2A |
| 0.258429825 | 0.127895802 | 0.113 | 1 | 1314 | COPA |
| 0.258429825 | 0.127895802 | 0.125 | 1 | 5598 | MAPK7 |
| 0.258429825 | 0.127895802 | 0.103 | 1 | 22878 | KIAA1012 |
| 0.258429825 | 0.127895802 | 0.103 | 1 | 54440 | SASH3 |
| 0.258429825 | 0.127895802 | 0.106 | 1 | 55138 | FAM90A1 |
| 0.258429825 | 0.127895802 | 0.121 | 1 | 340205 | TREML1 |
| 0.258429825 | 0.127895802 | 0.11 | 1 | 401022 | HOXD-AS1 |
| 0.258172452 | 0.128286108 | 0.113 | 1 | 3145 | HMBS |
| 0.258172452 | 0.128286108 | 0.122 | 1 | 7058 | THBS2 |
| 0.258172452 | 0.128286108 | 0.117 | 1 | 9252 | RPS6KA5 |
| 0.258172452 | 0.128286108 | 0.106 | 1 | 51537 | MTP18 |
| 0.258172452 | 0.128286108 | 0.12 | 1 | 55194 | FAM176B |
| 0.258172452 | 0.128286108 | 0.121 | 1 | 81857 | MED25 |
| 0.258172452 | 0.128286108 | 0.116 | 1 | 90933 | TRIM41 |
| 0.258172452 | 0.128286108 | 0.107 | 1 | 114926 | C8orf40 |
| 0.25791505 | 0.128677323 | 0.098 | 1 | 1028 | CDKN1C |
| 0.25791505 | 0.128677323 | 0.108 | 1 | 3202 | HOXA5 |
| 0.25791505 | 0.128677323 | 0.103 | 1 | 3416 | IDE |
| 0.25791505 | 0.128677323 | 0.127 | 1 | 3976 | LIF |
| 0.25791505 | 0.128677323 | 0.108 | 1 | 23333 | DPY19L1 |
| 0.25791505 | 0.128677323 | 0.117 | 1 | 57823 | SLAMF7 |
| 0.25791505 | 0.128677323 | 0.115 | 1 | 84752 | B3GNT9 |
| 0.25791505 | 0.128677323 | 0.122 | 1 | 154796 | AMOT |
| 0.25791505 | 0.128677323 | 0.09 | 1 | 286464 | CXorf59 |
| 0.257657647 | 0.129069611 | 0.124 | 1 | 658 | BMPR1B |
| 0.257657647 | 0.129069611 | 0.128 | 1 | 26995 | TRUB2 |
| 0.257657647 | 0.129069611 | 0.112 | 1 | 51514 | DTL |
| 0.257657647 | 0.129069611 | 0.115 | 1 | 56648 | EIF5A2 |
| 0.257657647 | 0.129069611 | 0.111 | 1 | 170959 | ZNF431 |
| 0.257400244 | 0.129462615 | 0.122 | 1 | 6916 | TBXAS1 |
| 0.257400244 | 0.129462615 | 0.111 | 1 | 27013 | C2orf24 |
| 0.257400244 | 0.129462615 | 0.117 | 1 | 29015 | SLC43A3 |
| 0.257400244 | 0.129462615 | 0.12 | 1 | 55858 | TMEM165 |
| 0.257400244 | 0.129462615 | 0.11 | 1 | 151188 | ARL6IP6 |
| 0.257400244 | 0.129462615 | 0.128 | 1 | 197021 | LCTL |
| 0.257142872 | 0.129856452 | 0.106 | 1 | 6120 | RPE |
| 0.257142872 | 0.129856452 | 0.107 | 1 | 6609 | SMPD1 |
| 0.257142872 | 0.129856452 | 0.121 | 1 | 79947 | DHDDS |
| 0.256885439 | 0.130251259 | 0.121 | 1 | 2886 | GRB7 |
| 0.256885439 | 0.130251259 | 0.108 | 1 | 3418 | IDH2 |
| 0.256885439 | 0.130251259 | 0.112 | 1 | 5917 | RARS |
| 0.256885439 | 0.130251259 | 0.104 | 1 | 6713 | SQLE |
| 0.256885439 | 0.130251259 | 0.14 | 1 | 55737 | VPS35 |
| 0.256885439 | 0.130251259 | 0.12 | 1 | 56904 | SH3GLB2 |
| 0.256885439 | 0.130251259 | 0.112 | 1 | 81572 | PDRG1 |
| 0.256885439 | 0.130251259 | 0.127 | 1 | 84246 | MED10 |
| 0.256628066 | 0.130646944 | 0.12 | 1 | 3773 | KCNJ16 |
| 0.256628066 | 0.130646944 | 0.114 | 1 | 26493 | OR8B8 |
| 0.256628066 | 0.130646944 | 0.107 | 1 | 57513 | CASKIN2 |
| 0.256628066 | 0.130646944 | 0.117 | 1 | 79767 | ELMO3 |
| 0.256628066 | 0.130646944 | 0.125 | 1 | 84109 | QRFPR |
| 0.256628066 | 0.130646944 | 0.104 | 1 | 171586 | ABHD3 |
| 0.256628066 | 0.130646944 | 0.108 | 1 | 339521 | FAM58BP |
| 0.256370664 | 0.131043717 | 0.116 | 1 | 5654 | HTRA1 |
| 0.256370664 | 0.131043717 | 0.107 | 1 | 6538 | SLC6A11 |
| 0.256370664 | 0.131043717 | 0.126 | 1 | 7425 | VGF |
| 0.256370664 | 0.131043717 | 0.108 | 1 | 8490 | RP11-267N12.3 |
| 0.256370664 | 0.131043717 | 0.081 | 1 | 27040 | LAT |
| 0.256370664 | 0.131043717 | 0.117 | 1 | 122876 | GPHB5 |

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| 0.131797224 | 5.99141E-34 | 6572 | SLC18A3 |
| 0.131792694 | 6.02239E-34 | 2063 | NR2F6 |
| 0.131738797 | 6.40281E-34 | 57121 | LPAR5 |
| 0.131729841 | 6.46826E-34 | 60592 | SCOC |
| 0.131704241 | 6.65922E-34 | 6201 | RPS7 |
| 0.131692886 | 6.74558E-34 | 2191 | FAP |
| 0.13168548 | 6.80261E-34 | 388550 | CEACAM22P |
| 0.131647304 | 7.10408E-34 | 56269 | IRGC |
| 0.131635219 | 7.20217E-34 | 30851 | TAX1BP3 |
| 0.131601393 | 7.48415E-34 | 64595 | TTTY15 |
| 0.131566018 | 7.79074E-34 | 55170 | PRMT6 |
| 0.131504878 | 8.35033E-34 | 83552 | MFRP |
| 0.13149558 | 8.43886E-34 | 8216 | LZTR1 |
| 0.131479874 | 8.59057E-34 | 4704 | NDUFA9 |
| 0.131472126 | 8.66639E-34 | 3310 | HSPA6 |
| 0.131465137 | 8.73531E-34 | 5631 | PRPS1 |
| 0.131461605 | 8.77039E-34 | 1038 | CDR1 |
| 0.131454036 | 8.84589E-34 | 4355 | MPP2 |
| 0.131444246 | 8.94463E-34 | 652968 | GATSL3 |
| 0.131410837 | 9.28983E-34 | 81628 | TSC22D4 |
| 0.13139841 | 9.42172E-34 | 54849 | DEF8 |
| 0.131392643 | 9.48345E-34 | 4684 | NCAM1 |
| 0.13131316 | 1.0377E-33 | 84343 | HPS3 |
| 0.131262481 | 1.09901E-33 | 85363 | TRIM5 |
| 0.131247014 | 1.1184E-33 | 57571 | ATPGD1 |
| 0.131228998 | 1.14144E-33 | 65265 | C8orf33 |
| 0.131220609 | 1.15233E-33 | 338707 | B4GALNT4 |
| 0.131172135 | 1.21732E-33 | 124783 | C17orf46 |
| 0.131164983 | 1.22721E-33 | 57154 | SMURF1 |
| 0.131160542 | 1.23339E-33 | 23224 | SYNE2 |
| 0.131109938 | 1.30604E-33 | 84696 | ABHD1 |
| 0.131086901 | 1.3405E-33 | 54435 | HCG4 |
| 0.131070524 | 1.36555E-33 | 389634 | RP11-90D4.2 |
| 0.131063193 | 1.37692E-33 | 642929 | LOC642929 |
| 0.13104403 | 1.40705E-33 | 128239 | IQGAP3 |
| 0.131041393 | 1.41127E-33 | 285555 | C4orf37 |
| 0.130994901 | 1.48738E-33 | 259287 | TAS2R41 |
| 0.130980343 | 1.51206E-33 | 6726 | SRP9 |
| 0.13092193 | 1.61516E-33 | 147744 | TMEM190 |
| 0.130884573 | 1.68476E-33 | 10204 | NUTF2 |
| 0.130870834 | 1.71107E-33 | 221491 | C6orf1 |
| 0.130868271 | 1.71602E-33 | 440163 | RNASE13 |
| 0.130806893 | 1.8391E-33 | 6584 | SLC22A5 |
| 0.130800977 | 1.85139E-33 | 5876 | RABGGTB |
| 0.130791843 | 1.87057E-33 | 653188 | GUSBP3 |
| 0.130757615 | 1.9442E-33 | 51014 | TMED7 |
| 0.130717456 | 2.03423E-33 | 1876 | E2F6 |
| 0.13071309 | 2.04429E-33 | 728957 | ZNF705C |
| 0.130710378 | 2.05057E-33 | 201164 | PLD6 |
| 0.130655095 | 2.18239E-33 | 65982 | ZSCAN18 |
| 0.130595937 | 2.33278E-33 | 166815 | TIGD2 |
| 0.130545497 | 2.46909E-33 | 54436 | SH3TC1 |
| 0.130537599 | 2.49114E-33 | 11077 | HSF2BP |
| 0.130505756 | 2.58208E-33 | 3759 | KCNJ2 |
| 0.130494311 | 2.61552E-33 | 83548 | COG3 |
| 0.13042289 | 2.83438E-33 | 284618 | RUSC1-AS1 |
| 0.130408078 | 2.88197E-33 | 25885 | POLR1A |
| 0.130378306 | 2.98007E-33 | 7564 | ZNF16 |
| 0.130374432 | 2.99312E-33 | 338761 | C1QL4 |
| 0.130362168 | 3.03466E-33 | 57827 | C6orf47 |
| 0.130348518 | 3.08157E-33 | 83881 | MIXL1 |
| 0.130327538 | 3.1551E-33 | 4607 | MYBPC3 |
| 0.130317166 | 3.1921E-33 | 645121 | CCNI2 |
| 0.130284503 | 3.31141E-33 | 55009 | C19orf24 |
| 0.130257919 | 3.41181E-33 | 7031 | TFF1 |
| 0.130249947 | 3.4425E-33 | 100128775 | LOC100128775 |
| 0.130240813 | 3.47802E-33 | 645843 | TMEM14E |
| 0.130237594 | 3.49061E-33 | 6206 | RPS12 |
| 0.130222127 | 3.55181E-33 | 51668 | HSPB11 |
| 0.130214319 | 3.58306E-33 | 285961 | SEPT7L |
| 0.130183384 | 3.70971E-33 | 55505 | NOP10 |
| 0.130168319 | 3.77295E-33 | 5618 | PRLR |
| 0.130103976 | 4.05547E-33 | 154661 | RUNDC3B |
| 0.130072623 | 4.20063E-33 | 9866 | TRIM66 |
| 0.130066216 | 4.23089E-33 | 389692 | MAFA |
| 0.130057737 | 4.27135E-33 | 23032 | USP33 |
| 0.130057082 | 4.27444E-33 | 5168 | ENPP2 |
| 0.130040377 | 4.35528E-33 | 514 | ATP5E |
| 0.130019307 | 4.45941E-33 | 8027 | STAM |
| 0.130015776 | 4.4771E-33 | 442117 | GALNTL6 |
| 0.130012482 | 4.49367E-33 | 4324 | MMP15 |
| 0.129989609 | 4.61039E-33 | 10505 | SEMA4F |

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| 0.256370664 | 0.131043717 | 0.124 | 1 | 126364 | LRRC25 |
| 0.256370664 | 0.131043717 | 0.117 | 1 | 255394 | TCP11L2 |
| 0.256113261 | 0.131441176 | 0.128 | 1 | 23357 | ANGEL1 |
| 0.256113261 | 0.131441176 | 0.116 | 1 | 148413 | RP4-758J18.2 |
| 0.256113261 | 0.131441176 | 0.115 | 1 | 646625 | PRHOXNB |
| 0.255855858 | 0.131839573 | 0.108 | 1 | 384 | ARG2 |
| 0.255855858 | 0.131839573 | 0.095 | 1 | 3182 | HNRNPAB |
| 0.255598456 | 0.132238865 | 0.129 | 1 | 2081 | ERN1 |
| 0.255598456 | 0.132238865 | 0.131 | 1 | 4615 | MYD88 |
| 0.255598456 | 0.132238865 | 0.114 | 1 | 5701 | PSMC2 |
| 0.255598456 | 0.132238865 | 0.11 | 1 | 9425 | CDYL |
| 0.255598456 | 0.132238865 | 0.104 | 1 | 57538 | ALPK3 |
| 0.255598456 | 0.132238865 | 0.115 | 1 | 92806 | AC092143.3 |
| 0.255598456 | 0.132238865 | 0.125 | 1 | 345757 | FAM174A |
| 0.255598456 | 0.132238865 | 0.12 | 1 | 399693 | MGC50722 |
| 0.255598456 | 0.132238865 | 0.127 | 1 | 728666 | PRELID1P1 |
| 0.255341053 | 0.132639259 | 0.102 | 1 | 10195 | ALG3 |
| 0.255341053 | 0.132639259 | 0.131 | 1 | 27130 | INVS |
| 0.255341053 | 0.132639259 | 0.111 | 1 | 50619 | DEF6 |
| 0.255341053 | 0.132639259 | 0.115 | 1 | 65217 | PCDH15 |
| 0.255341053 | 0.132639259 | 0.135 | 1 | 66005 | CHID1 |
| 0.255341053 | 0.132639259 | 0.125 | 1 | 374920 | C19orf68 |
| 0.255341053 | 0.132639259 | 0.145 | 1 | 374973 | ATPAF1-AS1 |
| 0.25508365 | 0.133040369 | 0.12 | 1 | 1024 | CDK8 |
| 0.25508365 | 0.133040369 | 0.113 | 1 | 85417 | CCNB3 |
| 0.25508365 | 0.133040369 | 0.145 | 1 | 162514 | TRPV3 |
| 0.25508365 | 0.133040369 | 0.112 | 1 | 389125 | MUSTN1 |
| 0.254826248 | 0.133442342 | 0.113 | 1 | 347 | APOD |
| 0.254826248 | 0.133442342 | 0.116 | 1 | 116372 | LYPD1 |
| 0.254826248 | 0.133442342 | 0.141 | 1 | 254228 | FAM26E |
| 0.254568845 | 0.13384527 | 0.126 | 1 | 6418 | SET |
| 0.254568845 | 0.13384527 | 0.119 | 1 | 10466 | COG5 |
| 0.254568845 | 0.13384527 | 0.12 | 1 | 11283 | CYP4F8 |
| 0.254568845 | 0.13384527 | 0.132 | 1 | 79869 | CPSF7 |
| 0.254568845 | 0.13384527 | 0.124 | 1 | 84436 | ZNF528 |
| 0.254568845 | 0.13384527 | 0.138 | 1 | 84910 | TMEM87B |
| 0.254568845 | 0.13384527 | 0.117 | 1 | 641298 | RP11-368J21.1 |
| 0.254311442 | 0.13424927 | 0.114 | 1 | 910 | CD1B |
| 0.254311442 | 0.13424927 | 0.133 | 1 | 8125 | ANP32A |
| 0.254311442 | 0.13424927 | 0.127 | 1 | 51530 | ZC3HC1 |
| 0.254311442 | 0.13424927 | 0.124 | 1 | 55208 | DCUN1D2 |
| 0.254311442 | 0.13424927 | 0.122 | 1 | 57109 | REXO4 |
| 0.25405404 | 0.134654015 | 0.147 | 1 | 5576 | PRKAR2A |
| 0.25405404 | 0.134654015 | 0.133 | 1 | 51520 | LARS |
| 0.25405404 | 0.134654015 | 0.135 | 1 | 55748 | CNDP2 |
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| 0.240411833 | 0.157434836 | 0.133 | 1 | 3636 | INPPL1 |
| 0.240411833 | 0.157434836 | 0.136 | 1 | 5286 | PIK3C2A |
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| 0.24015443 | 0.157890156 | 0.134 | 1 | 22796 | COG2 |
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| 0.24015443 | 0.157890156 | 0.144 | 1 | 79596 | RNF219 |
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| 0.237837836 | 0.162031814 | 0.156 | 1 | 55567 | DNAH3 |
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| 0.237837836 | 0.162031814 | 0.166 | 1 | 285848 | PNPLA1 |
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| 0.237580433 | 0.162496805 | 0.159 | 1 | 5152 | PDE9A |
| 0.237580433 | 0.162496805 | 0.159 | 1 | 22936 | ELL2 |
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| 0.237323031 | 0.162962988 | 0.13 | 1 | 3735 | KARS |
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| 0.237323031 | 0.162962988 | 0.149 | 1 | 54617 | INO80 |
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| 0.121917754 | 2.9439E-29 | 4210 | MEFV |
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| 0.121845342 | 3.17643E-29 | 727936 | GXYLT2 |
| 0.121837527 | 3.20258E-29 | 4835 | NQO2 |
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| 0.121774502 | 3.42153E-29 | 27134 | TJP3 |
| 0.121728674 | 3.58994E-29 | 9499 | MYOT |
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| 0.121122681 | 6.76586E-29 | 23326 | USP22 |
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| 0.120876081 | 8.74846E-29 | 2896 | GRN |
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| 0.120787799 | 9.5901E-29 | 664701 | ZNF826P |
| 0.120775126 | 9.71743E-29 | 144108 | SPTY2D1 |
| 0.120761961 | 9.85139E-29 | 79754 | ASB13 |
| 0.120761387 | 9.85728E-29 | 51082 | POLR1D |
| 0.120758586 | 9.8861E-29 | 90121 | TSR2 |
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| 0.233976826 | 0.169109881 | 0.152 | 1 | 25871 | C3orf17 |
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| 0.233976826 | 0.169109881 | 0.137 | 1 | 79050 | NOC4L |
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| 0.233462021 | 0.170070201 | 0.152 | 1 | 137695 | TMEM68 |
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| 0.233204618 | 0.170551792 | 0.169 | 1 | 10630 | PDPN |
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| 0.233204618 | 0.170551792 | 0.154 | 1 | 164714 | TTLL8 |
| 0.233204618 | 0.170551792 | 0.164 | 1 | 441294 | CTAGE15P |
| 0.23294723 | 0.171034634 | 0.144 | 1 | 9969 | MED13 |
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| 0.232432425 | 0.172002837 | 0.145 | 1 | 11196 | SEC23IP |
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| 0.23191762 | 0.172975168 | 0.153 | 1 | 9150 | CTDP1 |
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| 0.231660232 | 0.173462734 | 0.146 | 1 | 651250 | LRRC37A16P |
| 0.231402829 | 0.173951298 | 0.169 | 1 | 7109 | TRAPPC10 |
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| 0.231402829 | 0.173951298 | 0.158 | 1 | 202018 | TAPT1 |
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| 0.231145427 | 0.174440831 | 0.15 | 1 | 79974 | C7orf58 |
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| 0.231145427 | 0.174440831 | 0.157 | 1 | 256329 | C11orf35 |
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| 0.120227881 | 1.71469E-28 | 138162 | C9orf116 |
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| 0.120205417 | 1.75503E-28 | 114042 | LINC00334 |
| 0.120202042 | 1.76118E-28 | 100128927 | ZBTB42 |
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| 0.120048836 | 2.06363E-28 | 55290 | BRF2 |
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| 0.120001771 | 2.16652E-28 | 10007 | GNPDA1 |
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| 0.119933814 | 2.32407E-28 | 7569 | ZNF182 |
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| 0.119887896 | 2.43691E-28 | 162972 | ZNF550 |
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| 0.119592182 | 3.30567E-28 | 54543 | TOMM7 |
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| 0.119579509 | 3.3491E-28 | 79630 | C1orf54 |
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| 0.119332261 | 4.31897E-28 | 10803 | CCR9 |
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| 0.119206615 | 4.91382E-28 | 414260 | C10orf136 |
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| 0.119092412 | 5.52466E-28 | 154865 | IQUB |
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| 0.119015649 | 5.97696E-28 | 2335 | FN1 |
| 0.119004786 | 6.04389E-28 | 51554 | CCRL1 |
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| 0.118925877 | 6.55266E-28 | 221468 | TMEM217 |
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| 0.118906952 | 6.68085E-28 | 6444 | SGCD |
| 0.118874043 | 6.90975E-28 | 23001 | WDFY3 |
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| 0.230888024 | 0.174931362 | 0.166 | 1 | 28968 | SLC6A16 |
| 0.230888024 | 0.174931362 | 0.16 | 1 | 29995 | LMCD1 |
| 0.230888024 | 0.174931362 | 0.168 | 1 | 81609 | SNX27 |
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| 0.230888024 | 0.174931362 | 0.148 | 1 | 150383 | C22orf40 |
| 0.230630621 | 0.175423086 | 0.152 | 1 | 2678 | GGT1 |
| 0.230630621 | 0.175423086 | 0.175 | 1 | 10907 | TXNL4A |
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| 0.230630621 | 0.175423086 | 0.169 | 1 | 387923 | SERP2 |
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| 0.230373234 | 0.175915629 | 0.149 | 1 | 56181 | FAM54B |
| 0.230373234 | 0.175915629 | 0.156 | 1 | 84164 | ASCC2 |
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| 0.230115831 | 0.176409125 | 0.143 | 1 | 2939 | GSTA2 |
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| 0.229858428 | 0.176903665 | 0.168 | 1 | 5718 | PSMD12 |
| 0.229858428 | 0.176903665 | 0.148 | 1 | 57584 | ARHGAP21 |
| 0.229858428 | 0.176903665 | 0.152 | 1 | 57709 | SLC7A14 |
| 0.229601026 | 0.177399367 | 0.161 | 1 | 1130 | LYST |
| 0.229601026 | 0.177399367 | 0.157 | 1 | 7127 | TNFAIP2 |
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| 0.229086235 | 0.178393424 | 0.159 | 1 | 3741 | KCNA5 |
| 0.229086235 | 0.178393424 | 0.161 | 1 | 4071 | TM4SF1 |
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| 0.229086235 | 0.178393424 | 0.167 | 1 | 64332 | NFKBIZ |
| 0.229086235 | 0.178393424 | 0.151 | 1 | 83894 | TTC29 |
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| 0.229086235 | 0.178393424 | 0.167 | 1 | 119587 | CPXM2 |
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| 0.096712351 | 5.84338E-19 | 22936 | ELL2 |
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| 0.177606165 | 0.298831046 | 0.287 | 1 | 401505 | TOMM5 |
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| 0.177348763 | 0.299540758 | 0.279 | 1 | 5027 | P2RX7 |
| 0.177348763 | 0.299540758 | 0.282 | 1 | 440295 | AC135995.5 |
| 0.177348763 | 0.299540758 | 0.274 | 1 | 552891 | DNAJC25-GNG10 |
| 0.177091375 | 0.300251573 | 0.271 | 1 | 55066 | PDPR |
| 0.177091375 | 0.300251573 | 0.284 | 1 | 56963 | RGMA |
| 0.177091375 | 0.300251573 | 0.284 | 1 | 114132 | SIGLEC11 |
| 0.177091375 | 0.300251573 | 0.298 | 1 | 641311 | RPL31P11 |
| 0.176833972 | 0.300963819 | 0.282 | 1 | 7286 | TUFT1 |
| 0.176833972 | 0.300963819 | 0.288 | 1 | 55073 | LRRC37A4P |
| 0.176833972 | 0.300963819 | 0.285 | 1 | 55315 | SLC29A3 |
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| 0.095687635 | 1.36465E-18 | 7091 | TLE4 |
| 0.09564501 | 1.41338E-18 | 284358 | MAMSTR |
| 0.095627241 | 1.43419E-18 | 10113 | PREB |
| 0.095576391 | 1.49546E-18 | 2847 | MCHR1 |
| 0.095568165 | 1.50561E-18 | 317648 | C4ORF10 |
| 0.095536239 | 1.54566E-18 | 9670 | IPO13 |
| 0.095505223 | 1.58556E-18 | 2019 | EN1 |
| 0.095491976 | 1.60293E-18 | 7046 | TGFBR1 |
| 0.09548679 | 1.60977E-18 | 27254 | CSDC2 |
| 0.095480375 | 1.61827E-18 | 550631 | CCDC157 |
| 0.095432565 | 1.68308E-18 | 6941 | TCF19 |
| 0.095427468 | 1.69014E-18 | 5147 | PDE6D |
| 0.095399 | 1.7301E-18 | 2158 | F9 |
| 0.095393486 | 1.73796E-18 | 22879 | MON1B |
| 0.095356703 | 1.79122E-18 | 79814 | AGMAT |
| 0.095348068 | 1.80395E-18 | 283687 | AC015871.2 |
| 0.095335476 | 1.82269E-18 | 337985 | KRTAP20-3 |
| 0.095319517 | 1.8467E-18 | 6232 | RPS27 |
| 0.095315315 | 1.85307E-18 | 8436 | SDPR |
| 0.095236987 | 1.97597E-18 | 6793 | STK10 |
| 0.09519165 | 2.05075E-18 | 64780 | MICAL1 |
| 0.095190167 | 2.05325E-18 | 5030 | P2RY4 |
| 0.095181033 | 2.06865E-18 | 51026 | GOLT1B |
| 0.095169432 | 2.0884E-18 | 7692 | ZNF133 |
| 0.095169432 | 2.0884E-18 | 154075 | SAMD3 |
| 0.095149279 | 2.12316E-18 | 123036 | TC2N |
| 0.095137425 | 2.14385E-18 | 6103 | RPGR |
| 0.095132902 | 2.15182E-18 | 124411 | ZNF720 |
| 0.095113732 | 2.18585E-18 | 51725 | FBXO40 |
| 0.095099002 | 2.21233E-18 | 253635 | CCDC75 |
| 0.095088556 | 2.23133E-18 | 401498 | TMEM215 |
| 0.095059834 | 2.28439E-18 | 1358 | CPA2 |
| 0.095026597 | 2.34734E-18 | 5311 | PKD2 |
| 0.095018364 | 2.3632E-18 | 199777 | ZNF626 |
| 0.095016643 | 2.36653E-18 | 149685 | ADIG |
| 0.095004462 | 2.39019E-18 | 4913 | NTHL1 |
| 0.095001996 | 2.39504E-18 | 5148 | PDE6G |
| 0.095001996 | 2.39504E-18 | 79015 | RP11-445H22.3 |
| 0.094994672 | 2.4094E-18 | 11022 | TDRKH |
| 0.09498167 | 2.43515E-18 | 10138 | YAF2 |
| 0.094981261 | 2.43598E-18 | 219743 | TYSND1 |
| 0.094980188 | 2.4381E-18 | 81796 | SLCO5A1 |
| 0.094978876 | 2.44072E-18 | 100131315 | LOC100131315 |
| 0.094965711 | 2.46712E-18 | 7162 | TPBG |
| 0.094944477 | 2.51031E-18 | 9712 | USP6NL |
| 0.094921768 | 2.5573E-18 | 9824 | ARHGAP11A |
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| 0.094806246 | 2.81018E-18 | 22835 | ZFP30 |
| 0.094780661 | 2.86945E-18 | 56948 | SDR39U1 |
| 0.094691716 | 3.08525E-18 | 338440 | ANO9 |
| 0.094681598 | 3.11078E-18 | 10423 | CDIPT |
| 0.094674438 | 3.12897E-18 | 84189 | SLITRK6 |
| 0.094652712 | 3.18484E-18 | 646019 | CBY3 |
| 0.094626054 | 3.25474E-18 | 100128553 | CTAGE4 |
| 0.094573729 | 3.39635E-18 | 51271 | UBAP1 |
| 0.094543532 | 3.48085E-18 | 9582 | APOBEC3B |
| 0.09451893 | 3.55122E-18 | 1553 | CYP2A13 |
| 0.094517939 | 3.55408E-18 | 144110 | TMEM86A |
| 0.094512016 | 3.57126E-18 | 100169851 | PATE3 |
| 0.094505101 | 3.59135E-18 | 84294 | UTP23 |
| 0.094468243 | 3.70065E-18 | 5620 | PRM2 |
| 0.094467171 | 3.70384E-18 | 100507135 | AL139377.1 |
| 0.094452195 | 3.74922E-18 | 55190 | NUDT11 |
| 0.094447426 | 3.76377E-18 | 90933 | TRIM41 |
| 0.094433852 | 3.80552E-18 | 100240735 | LOC100240735 |
| 0.09439674 | 3.92202E-18 | 4485 | MST1 |
| 0.094392136 | 3.93671E-18 | 402 | ARL2 |
| 0.094337828 | 4.11423E-18 | 55119 | PRPF38B |
| 0.094268136 | 4.35358E-18 | 84905 | ZNF341 |
| 0.094236374 | 4.46718E-18 | 1288 | COL4A6 |
| 0.094234481 | 4.47406E-18 | 4848 | CNOT2 |
| 0.094198689 | 4.60578E-18 | 22858 | ICK |
| 0.094150558 | 4.78896E-18 | 85014 | TMEM141 |
| 0.094146036 | 4.80659E-18 | 84304 | NUDT22 |
| 0.0941002 | 4.98835E-18 | 155054 | ZNF425 |
| 0.094091564 | 5.02338E-18 | 11164 | NUDT5 |
| 0.09408284 | 5.05901E-18 | 399942 | TUBAP2 |
| 0.094069183 | 5.11523E-18 | 10460 | TACC3 |
| 0.094066881 | 5.12477E-18 | 11074 | TRIM31 |
| 0.094062932 | 5.14117E-18 | 2624 | GATA2 |
| 0.094010681 | 5.36321E-18 | 51601 | LIPT1 |

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| 0.176833972 | 0.300963819 | 0.276 | 1 | 400013 | TCP1P3 |
| 0.176833972 | 0.300963819 | 0.271 | 1 | 100272228 | RP13-507I23.1 |
| 0.17657657 | 0.30167675 | 0.295 | 1 | 56953 | NT5M |
| 0.17657657 | 0.30167675 | 0.306 | 1 | 124540 | MSI2 |
| 0.176319167 | 0.302390754 | 0.263 | 1 | 4724 | NDUFS4 |
| 0.176319167 | 0.302390754 | 0.266 | 1 | 9451 | EIF2AK3 |
| 0.176319167 | 0.302390754 | 0.278 | 1 | 29998 | GLTSCR1 |
| 0.176319167 | 0.302390754 | 0.291 | 1 | 166785 | MMAA |
| 0.176319167 | 0.302390754 | 0.268 | 1 | 286103 | C8ORF77 |
| 0.176319167 | 0.302390754 | 0.287 | 1 | 440567 | UQCRHL |
| 0.176319167 | 0.302390754 | 0.324 | 1 | 643387 | LOC643387 |
| 0.176319167 | 0.302390754 | 0.298 | 1 | 728441 | GGT2 |
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| 0.176061764 | 0.303105891 | 0.298 | 1 | 79902 | NUP85 |
| 0.176061764 | 0.303105891 | 0.285 | 1 | 126820 | WDR63 |
| 0.176061764 | 0.303105891 | 0.287 | 1 | 147686 | ZNF418 |
| 0.176061764 | 0.303105891 | 0.277 | 1 | 283537 | SLC46A3 |
| 0.175804377 | 0.303822488 | 0.289 | 1 | 8816 | DCAF5 |
| 0.175804377 | 0.303822488 | 0.26 | 1 | 10748 | RP11-904M10.1 |
| 0.175804377 | 0.303822488 | 0.304 | 1 | 26585 | GREM1 |
| 0.175804377 | 0.303822488 | 0.282 | 1 | 51634 | RBMX2 |
| 0.175804377 | 0.303822488 | 0.285 | 1 | 646278 | LOC646278 |
| 0.175546974 | 0.30453977 | 0.28 | 1 | 155 | ADRB3 |
| 0.175546974 | 0.30453977 | 0.263 | 1 | 57817 | HAMP |
| 0.175546974 | 0.30453977 | 0.288 | 1 | 284992 | CCDC150 |
| 0.175546974 | 0.30453977 | 0.286 | 1 | 389857 | CENPVL1 |
| 0.175546974 | 0.30453977 | 0.248 | 1 | 100131816 | RP1-215K18.2 |
| 0.175289571 | 0.305258185 | 0.283 | 1 | 4171 | MCM2 |
| 0.175289571 | 0.305258185 | 0.297 | 1 | 6670 | SP3 |
| 0.175289571 | 0.305258185 | 0.275 | 1 | 9246 | UBE2L6 |
| 0.175289571 | 0.305258185 | 0.306 | 1 | 9329 | GTF3C4 |
| 0.175289571 | 0.305258185 | 0.294 | 1 | 222611 | GPR111 |
| 0.175289571 | 0.305258185 | 0.304 | 1 | 389690 | AC100803.1 |
| 0.175032169 | 0.305977613 | 0.294 | 1 | 4113 | MAGEB2 |
| 0.175032169 | 0.305977613 | 0.253 | 1 | 10402 | ST3GAL6 |
| 0.175032169 | 0.305977613 | 0.304 | 1 | 11264 | PXMP4 |
| 0.175032169 | 0.305977613 | 0.291 | 1 | 23533 | PIK3R5 |
| 0.175032169 | 0.305977613 | 0.3 | 1 | 25823 | TPSG1 |
| 0.175032169 | 0.305977613 | 0.288 | 1 | 54583 | EGLN1 |
| 0.175032169 | 0.305977613 | 0.301 | 1 | 84260 | TCHP |
| 0.174774766 | 0.306698561 | 0.287 | 1 | 4143 | MAT1A |
| 0.174774766 | 0.306698561 | 0.297 | 1 | 64407 | RGS18 |
| 0.174774766 | 0.306698561 | 0.292 | 1 | 84467 | FBN3 |
| 0.174774766 | 0.306698561 | 0.266 | 1 | 121130 | OR10P1 |
| 0.174774766 | 0.306698561 | 0.284 | 1 | 166012 | CHST13 |
| 0.174774766 | 0.306698561 | 0.282 | 1 | 440915 | POTEKP |
| 0.174517378 | 0.307420194 | 0.279 | 1 | 50 | ACO2 |
| 0.174517378 | 0.307420194 | 0.269 | 1 | 2113 | ETS1 |
| 0.174517378 | 0.307420194 | 0.3 | 1 | 3340 | NDST1 |
| 0.174517378 | 0.307420194 | 0.273 | 1 | 3902 | LAG3 |
| 0.174517378 | 0.307420194 | 0.277 | 1 | 10678 | B3GNT1 |
| 0.174517378 | 0.307420194 | 0.287 | 1 | 10874 | NMU |
| 0.174517378 | 0.307420194 | 0.298 | 1 | 54205 | CYCS |
| 0.174517378 | 0.307420194 | 0.284 | 1 | 54850 | FBXL12 |
| 0.174517378 | 0.307420194 | 0.297 | 1 | 84898 | PLXDC2 |
| 0.174259976 | 0.30814293 | 0.286 | 1 | 2074 | ERCC6 |
| 0.174259976 | 0.30814293 | 0.289 | 1 | 6688 | SPI1 |
| 0.174259976 | 0.30814293 | 0.273 | 1 | 6950 | TCP1 |
| 0.174259976 | 0.30814293 | 0.299 | 1 | 347344 | ZNF81 |
| 0.174259976 | 0.30814293 | 0.276 | 1 | 641455 | AL589182.2 |
| 0.174002573 | 0.308866799 | 0.301 | 1 | 4974 | OMG |
| 0.174002573 | 0.308866799 | 0.296 | 1 | 54978 | C2orf18 |
| 0.174002573 | 0.308866799 | 0.27 | 1 | 56241 | SUSD2 |
| 0.174002573 | 0.308866799 | 0.297 | 1 | 84320 | ACBD6 |
| 0.174002573 | 0.308866799 | 0.315 | 1 | 90102 | PHLDB2 |
| 0.174002573 | 0.308866799 | 0.282 | 1 | 403277 | OR5K3 |
| 0.174002573 | 0.308866799 | 0.307 | 1 | 100130958 | AC009139.1 |
| 0.17374517 | 0.309591651 | 0.31 | 1 | 79613 | TMCO7 |
| 0.17374517 | 0.309591651 | 0.298 | 1 | 80305 | TRABD |
| 0.17374517 | 0.309591651 | 0.286 | 1 | 283514 | SIAH3 |
| 0.17374517 | 0.309591651 | 0.306 | 1 | 337977 | KRTAP21-1 |
| 0.173487768 | 0.310318023 | 0.288 | 1 | 3790 | KCNS3 |
| 0.173487768 | 0.310318023 | 0.312 | 1 | 5833 | PCYT2 |
| 0.173487768 | 0.310318023 | 0.275 | 1 | 8202 | NCOA3 |
| 0.173487768 | 0.310318023 | 0.307 | 1 | 23126 | POGZ |
| 0.173487768 | 0.310318023 | 0.294 | 1 | 56943 | ENY2 |
| 0.173487768 | 0.310318023 | 0.305 | 1 | 92002 | FAM58A |
| 0.173487768 | 0.310318023 | 0.302 | 1 | 123207 | C15orf40 |
| 0.173487768 | 0.310318023 | 0.299 | 1 | 388569 | ZNF324B |
| 0.17323038 | 0.311045051 | 0.277 | 1 | 230 | ALDOC |
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| 0.17323038 | 0.311045051 | 0.286 | 1 | 50640 | PNPLA8 |

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| 0.093967319 | 5.55464E-18 | 3770 | KCNJ14 |
| 0.093893103 | 5.8981E-18 | 10256 | CNKSR1 |
| 0.093877226 | 5.97422E-18 | 220032 | GDPD4 |
| 0.093782522 | 6.44894E-18 | 10040 | TOM1L1 |
| 0.093765654 | 6.53735E-18 | 54969 | C4orf27 |
| 0.093722209 | 6.77054E-18 | 9896 | FIG4 |
| 0.093666665 | 7.08062E-18 | 3141 | HLCS |
| 0.09365046 | 7.17376E-18 | 121340 | SP7 |
| 0.093646429 | 7.19714E-18 | 3110 | MNX1 |
| 0.093635812 | 7.25895E-18 | 7014 | TERF2 |
| 0.093623474 | 7.33142E-18 | 2707 | GJB3 |
| 0.093607262 | 7.42782E-18 | 80139 | ZNF703 |
| 0.093588009 | 7.54392E-18 | 64785 | GINS3 |
| 0.093578957 | 7.59905E-18 | 84542 | KIAA1841 |
| 0.093578793 | 7.60008E-18 | 339344 | MYPOP |
| 0.093574926 | 7.62384E-18 | 79621 | RNASEH2B |
| 0.093570232 | 7.65271E-18 | 56242 | ZNF253 |
| 0.093503423 | 8.07553E-18 | 3200 | HOXA3 |
| 0.093498401 | 8.10818E-18 | 1351 | COX8A |
| 0.093484007 | 8.20266E-18 | 539 | ATP5O |
| 0.093478084 | 8.24181E-18 | 2323 | FLT3LG |
| 0.093418755 | 8.64457E-18 | 2853 | GPR31 |
| 0.093408637 | 8.71518E-18 | 643314 | KIAA0754 |
| 0.093399502 | 8.77936E-18 | 3512 | IGJ |
| 0.093332529 | 9.26484E-18 | 55159 | RFWD3 |
| 0.093289904 | 9.58745E-18 | 9342 | SNAP29 |
| 0.093263656 | 9.79161E-18 | 339221 | ENPP7 |
| 0.093231574 | 1.00469E-17 | 22821 | RASA3 |
| 0.093213797 | 1.01912E-17 | 11044 | POLS |
| 0.093197837 | 1.03225E-17 | 150622 | LOC150622 |
| 0.093175702 | 1.05074E-17 | 346525 | OR2A12 |
| 0.093147807 | 1.07451E-17 | 79634 | SCRN3 |
| 0.093131356 | 1.08876E-17 | 55808 | ST6GALNAC1 |
| 0.093076803 | 1.13742E-17 | 22987 | SV2C |
| 0.093033195 | 1.17783E-17 | 92211 | PCDH21 |
| 0.093023896 | 1.18663E-17 | 140596 | DEFB104A |
| 0.09301649 | 1.19371E-17 | 4493 | MT1E |
| 0.092997402 | 1.21208E-17 | 1269 | CNR2 |
| 0.092989169 | 1.22009E-17 | 135941 | OR2A14 |
| 0.092986539 | 1.22266E-17 | 11041 | AP001107.1 |
| 0.092985556 | 1.22362E-17 | 5660 | PSAP |
| 0.092975758 | 1.23325E-17 | 54989 | ZNF770 |
| 0.092948198 | 1.26074E-17 | 3429 | IFI27 |
| 0.092947535 | 1.26141E-17 | 80150 | ASRGL1 |
| 0.092944331 | 1.26466E-17 | 56181 | FAM54B |
| 0.092876285 | 1.33537E-17 | 342977 | NANOS3 |
| 0.092841394 | 1.37312E-17 | 2251 | FGF6 |
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| 0.092811532 | 1.40627E-17 | 8608 | RDH16 |
| 0.092804208 | 1.41453E-17 | 23341 | DNAJC16 |
| 0.092779525 | 1.44269E-17 | 7265 | TTC1 |
| 0.092738055 | 1.49124E-17 | 162979 | ZNF296 |
| 0.092701688 | 1.53516E-17 | 9830 | TRIM14 |
| 0.092684239 | 1.55668E-17 | 10272 | FSTL3 |
| 0.092670746 | 1.57352E-17 | 4481 | MSR1 |
| 0.092655361 | 1.59294E-17 | 388558 | ZNF808 |
| 0.092642941 | 1.6088E-17 | 2495 | FTHL16 |
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| 0.092464633 | 1.85432E-17 | 51646 | YPEL5 |
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| 0.092381947 | 1.98039E-17 | 79001 | VKORC1 |
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| 0.092345908 | 2.03795E-17 | 753 | C18orf1 |
| 0.092339568 | 2.04825E-17 | 199786 | FAM129C |
| 0.092326157 | 2.07019E-17 | 221833 | SP8 |
| 0.092318341 | 2.08309E-17 | 22899 | ARHGEF15 |
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| 0.09227284 | 2.15975E-17 | 91607 | SLFN11 |
| 0.092246592 | 2.20524E-17 | 29979 | UBQLN1 |
| 0.092227094 | 2.23965E-17 | 386685 | KRTAP10-12 |
| 0.092221662 | 2.24932E-17 | 7982 | ST7 |
| 0.092197061 | 2.29368E-17 | 4588 | MUC6 |
| 0.092191219 | 2.30432E-17 | 27095 | TRAPPC3 |
| 0.092160448 | 2.36127E-17 | 54103 | PION |
| 0.092155509 | 2.37053E-17 | 343069 | HNRNPCL1 |
| 0.092142016 | 2.39604E-17 | 3563 | IL3RA |
| 0.092136912 | 2.40574E-17 | 130576 | LYPD6B |
| 0.092105485 | 2.46648E-17 | 58480 | RHOU |
| 0.092102356 | 2.47258E-17 | 643955 | RP11-196D18.6 |

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| 0.17323038 | 0.311045051 | 0.301 | 1 | 54039 | PCBP3 |
| 0.17323038 | 0.311045051 | 0.277 | 1 | 55669 | MFN1 |
| 0.17323038 | 0.311045051 | 0.299 | 1 | 60494 | CCDC81 |
| 0.17323038 | 0.311045051 | 0.299 | 1 | 133418 | EMB |
| 0.17323038 | 0.311045051 | 0.293 | 1 | 221357 | GSTA5 |
| 0.17323038 | 0.311045051 | 0.29 | 1 | 256643 | CXorf23 |
| 0.17323038 | 0.311045051 | 0.281 | 1 | 286144 | C8orf83 |
| 0.17323038 | 0.311045051 | 0.3 | 1 | 340307 | CTAGE6P |
| 0.172972977 | 0.311773241 | 0.274 | 1 | 89932 | PAPLN |
| 0.172972977 | 0.311773241 | 0.294 | 1 | 123606 | NIPA1 |
| 0.172972977 | 0.311773241 | 0.282 | 1 | 134121 | C5orf49 |
| 0.172972977 | 0.311773241 | 0.315 | 1 | 388799 | C20orf107 |
| 0.172715575 | 0.312502503 | 0.269 | 1 | 7871 | SLMAP |
| 0.172715575 | 0.312502503 | 0.319 | 1 | 10003 | NAALAD2 |
| 0.172715575 | 0.312502503 | 0.286 | 1 | 10389 | SCML2 |
| 0.172715575 | 0.312502503 | 0.286 | 1 | 79640 | Z83840.4 |
| 0.172715575 | 0.312502503 | 0.31 | 1 | 135892 | TRIM50 |
| 0.172715575 | 0.312502503 | 0.307 | 1 | 202052 | DNAJC18 |
| 0.172715575 | 0.312502503 | 0.285 | 1 | 339230 | CCDC137 |
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| 0.172458172 | 0.313233137 | 0.297 | 1 | 8484 | GALR3 |
| 0.172458172 | 0.313233137 | 0.29 | 1 | 55176 | SEC61A2 |
| 0.172200769 | 0.313964546 | 0.294 | 1 | 4209 | MEF2D |
| 0.172200769 | 0.313964546 | 0.303 | 1 | 5875 | RABGGTA |
| 0.172200769 | 0.313964546 | 0.301 | 1 | 6442 | SGCA |
| 0.172200769 | 0.313964546 | 0.307 | 1 | 10151 | HNRNPA3P1 |
| 0.172200769 | 0.313964546 | 0.312 | 1 | 51083 | GAL |
| 0.172200769 | 0.313964546 | 0.291 | 1 | 84140 | FAM161A |
| 0.171943381 | 0.314697087 | 0.289 | 1 | 7773 | ZNF230 |
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| 0.163191751 | 0.340249896 | 0.313 | 1 | 84299 | MIEN1 |
| 0.163191751 | 0.340249896 | 0.328 | 1 | 138046 | RALYL |
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| 0.085747935 | 3.20727E-15 | 83638 | C11orf68 |
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| 0.085068382 | 5.28791E-15 | 837 | CASP4 |
| 0.085046828 | 5.37206E-15 | 79971 | GPR177 |
| 0.08498051 | 5.63944E-15 | 3949 | LDLR |
| 0.084966518 | 5.69752E-15 | 51651 | PTRH2 |
| 0.084948175 | 5.7745E-15 | 22948 | CCT5 |
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| 0.157271549 | 0.358243316 | 0.323 | 1 | 50838 | TAS2R13 |
| 0.157271549 | 0.358243316 | 0.339 | 1 | 54432 | YIPF1 |
| 0.157271549 | 0.358243316 | 0.364 | 1 | 57402 | S100A14 |
| 0.157271549 | 0.358243316 | 0.326 | 1 | 123624 | AGBL1 |
| 0.157271549 | 0.358243316 | 0.349 | 1 | 124872 | B4GALNT2 |
| 0.157271549 | 0.358243316 | 0.334 | 1 | 152404 | IGSF11 |
| 0.157271549 | 0.358243316 | 0.332 | 1 | 196872 | RP11-477I4.3 |
| 0.157014146 | 0.359038472 | 0.332 | 1 | 2875 | GPT |
| 0.157014146 | 0.359038472 | 0.32 | 1 | 55013 | CCDC109B |
| 0.157014146 | 0.359038472 | 0.339 | 1 | 65061 | PFTK2 |
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| 0.156756744 | 0.359834999 | 0.337 | 1 | 22877 | MLXIP |
| 0.156756744 | 0.359834999 | 0.331 | 1 | 23129 | PLXND1 |
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| 0.156756744 | 0.359834999 | 0.34 | 1 | 51006 | SLC35C2 |
| 0.156756744 | 0.359834999 | 0.319 | 1 | 51274 | KLF3 |
| 0.156756744 | 0.359834999 | 0.344 | 1 | 57140 | RNPEPL1 |
| 0.156756744 | 0.359834999 | 0.36 | 1 | 126068 | ZNF441 |
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| 0.156499341 | 0.36063233 | 0.344 | 1 | 116534 | MRGPRE |
| 0.156499341 | 0.36063233 | 0.339 | 1 | 402778 | AC068580.3 |
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| 0.156241953 | 0.361430645 | 0.331 | 1 | 23114 | NFASC |
| 0.156241953 | 0.361430645 | 0.35 | 1 | 58190 | CTDSP1 |
| 0.156241953 | 0.361430645 | 0.333 | 1 | 84971 | ATG4D |
| 0.156241953 | 0.361430645 | 0.354 | 1 | 126661 | RP11-291L19.1 |
| 0.155984551 | 0.362230092 | 0.359 | 1 | 23415 | KCNH4 |
| 0.155984551 | 0.362230092 | 0.335 | 1 | 29801 | ZDHHC8 |
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| 0.155984551 | 0.362230092 | 0.33 | 1 | 80896 | NPL |
| 0.155984551 | 0.362230092 | 0.336 | 1 | 84902 | CCDC123 |
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| 0.154954955 | 0.365438849 | 0.352 | 1 | 55506 | H2AFY2 |
| 0.154954955 | 0.365438849 | 0.325 | 1 | 83743 | GRWD1 |
| 0.154954955 | 0.365438849 | 0.347 | 1 | 84079 | ANKRD27 |
| 0.154954955 | 0.365438849 | 0.335 | 1 | 116150 | NUS1 |
| 0.154954955 | 0.365438849 | 0.346 | 1 | 389072 | PLEKHM3 |
| 0.154697552 | 0.366243631 | 0.35 | 1 | 79047 | KCTD15 |
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| 0.084789619 | 6.48434E-15 | 27004 | TCL6 |
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| 0.084744282 | 6.70265E-15 | 729566 | ZBTB8OSP1 |
| 0.084689729 | 6.97493E-15 | 283576 | ZDHHC22 |
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| 0.084640525 | 7.22985E-15 | 219699 | UNC5B |
| 0.084631555 | 7.27727E-15 | 50937 | CDON |
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| 0.084600702 | 7.44283E-15 | 57560 | IFT80 |
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| 0.084580623 | 7.55255E-15 | 4716 | NDUFB10 |
| 0.084578238 | 7.5657E-15 | 56891 | LGALS14 |
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| 0.084486499 | 8.08849E-15 | 51096 | UTP18 |
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| 0.084424213 | 8.46355E-15 | 3326 | HSP90AB1 |
| 0.084418535 | 8.49857E-15 | 79882 | ZC3H14 |
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| 0.084395826 | 8.64011E-15 | 10780 | ZNF234 |
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| 0.084378794 | 8.74781E-15 | 23138 | AC136632.1 |
| 0.084348433 | 8.94295E-15 | 219965 | OR5B17 |
| 0.084346049 | 8.95846E-15 | 144423 | GLT1D1 |
| 0.084344156 | 8.97078E-15 | 796 | CALCA |
| 0.084319554 | 9.13259E-15 | 23089 | PEG10 |
| 0.084317744 | 9.1446E-15 | 10615 | SPAG5 |
| 0.084315434 | 9.15997E-15 | 314 | AOC2 |
| 0.08429528 | 9.29507E-15 | 400931 | RP4-695O20__B.1 |
| 0.084290422 | 9.32795E-15 | 170680 | PSORS1C2 |
| 0.08424706 | 9.62634E-15 | 7988 | ZNF212 |
| 0.084214315 | 9.85784E-15 | 84303 | CHCHD6 |
| 0.084197201 | 9.98099E-15 | 135924 | OR9A2 |
| 0.084170952 | 1.01729E-14 | 9556 | C14orf2 |
| 0.084162317 | 1.02368E-14 | 768096 | HAR1A |
| 0.08415886 | 1.02625E-14 | 115207 | KCTD12 |
| 0.084134914 | 1.04422E-14 | 3419 | IDH3A |
| 0.084120929 | 1.05487E-14 | 84171 | LOXL4 |
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| 0.084030584 | 1.12622E-14 | 55118 | CRTAC1 |
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| 0.08383961 | 1.29303E-14 | 126299 | ZNF428 |
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| 0.083534844 | 1.61089E-14 | 2551 | GABPA |
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| 0.083468854 | 1.68924E-14 | 286753 | TUSC5 |
| 0.08346606 | 1.69263E-14 | 2048 | EPHB2 |
| 0.083457664 | 1.7029E-14 | 64816 | CYP3A43 |
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| 0.083424181 | 1.74439E-14 | 80124 | VCPIP1 |
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| 0.083351523 | 1.83789E-14 | 10632 | ATP5L |
| 0.083333425 | 1.86194E-14 | 43849 | KLK12 |
| 0.083310381 | 1.89301E-14 | 51052 | PRLH |
| 0.083297223 | 1.91098E-14 | 152185 | CCDC52 |
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| 0.15444015 | 0.367049783 | 0.359 | 1 | 10694 | CCT8 |
| 0.15444015 | 0.367049783 | 0.36 | 1 | 11318 | GPR182 |
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| 0.15444015 | 0.367049783 | 0.342 | 1 | 26084 | RP11-23D24.1 |
| 0.154182747 | 0.367856711 | 0.341 | 1 | 741 | ZNHIT2 |
| 0.154182747 | 0.367856711 | 0.352 | 1 | 6294 | SAFB |
| 0.154182747 | 0.367856711 | 0.384 | 1 | 8398 | PLA2G6 |
| 0.154182747 | 0.367856711 | 0.351 | 1 | 79781 | IQCA1 |
| 0.154182747 | 0.367856711 | 0.389 | 1 | 80067 | C2orf37 |
| 0.154182747 | 0.367856711 | 0.333 | 1 | 255027 | MPV17L |
| 0.154182747 | 0.367856711 | 0.356 | 1 | 337882 | KRTAP19-1 |
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| 0.153925344 | 0.368664712 | 0.366 | 1 | 5702 | PSMC3 |
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| 0.153925344 | 0.368664712 | 0.353 | 1 | 119692 | OR51S1 |
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| 0.153925344 | 0.368664712 | 0.342 | 1 | 254028 | LOC254028 |
| 0.153925344 | 0.368664712 | 0.369 | 1 | 342979 | AC022098.3 |
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| 0.152895749 | 0.371907622 | 0.363 | 1 | 7332 | UBE2L3 |
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| 0.152895749 | 0.371907622 | 0.362 | 1 | 92745 | SLC38A5 |
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| 0.152638346 | 0.372720897 | 0.382 | 1 | 645752 | LOC645752 |
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| 0.152380958 | 0.373535663 | 0.338 | 1 | 147407 | MCART2 |
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| 0.152123556 | 0.374351114 | 0.364 | 1 | 23268 | DNMBP |
| 0.152123556 | 0.374351114 | 0.346 | 1 | 25890 | ABI3BP |
| 0.152123556 | 0.374351114 | 0.341 | 1 | 81698 | LINC00597 |
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| 0.151866153 | 0.375167578 | 0.377 | 1 | 399948 | C11orf92 |
| 0.15160875 | 0.375985116 | 0.356 | 1 | 2810 | SFN |
| 0.15160875 | 0.375985116 | 0.345 | 1 | 26984 | SEC22A |
| 0.15160875 | 0.375985116 | 0.385 | 1 | 53349 | ZFYVE1 |
| 0.151351348 | 0.376803726 | 0.377 | 1 | 23353 | UNC84A |
| 0.151351348 | 0.376803726 | 0.325 | 1 | 63036 | CELA2A |
| 0.151351348 | 0.376803726 | 0.353 | 1 | 79075 | DSCC1 |
| 0.151351348 | 0.376803726 | 0.372 | 1 | 149047 | RP11-183M13.1 |
| 0.15109396 | 0.377623826 | 0.367 | 1 | 973 | CD79A |
| 0.15109396 | 0.377623826 | 0.373 | 1 | 24142 | NAT6 |
| 0.15109396 | 0.377623826 | 0.356 | 1 | 203076 | C8orf74 |
| 0.150836557 | 0.378444523 | 0.343 | 1 | 353 | APRT |
| 0.150836557 | 0.378444523 | 0.358 | 1 | 634 | CEACAM1 |
| 0.150836557 | 0.378444523 | 0.355 | 1 | 8720 | MBTPS1 |

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| 0.083247192 | 1.98083E-14 | 27129 | HSPB7 |
| 0.083231315 | 2.00352E-14 | 80231 | CXorf21 |
| 0.083220862 | 2.0186E-14 | 159090 | FAM122B |
| 0.083204821 | 2.04196E-14 | 3394 | IRF8 |
| 0.083179064 | 2.08003E-14 | 25945 | PVRL3 |
| 0.083162941 | 2.1042E-14 | 27440 | CECR5 |
| 0.083133318 | 2.14935E-14 | 79064 | TMEM223 |
| 0.083108388 | 2.18809E-14 | 9646 | CTR9 |
| 0.083101392 | 2.19908E-14 | 192134 | B3GNT6 |
| 0.083087735 | 2.22068E-14 | 57493 | HEG1 |
| 0.083081812 | 2.23012E-14 | 96597 | TBC1D27 |
| 0.083067901 | 2.25245E-14 | 131583 | FAM43A |
| 0.083046347 | 2.28747E-14 | 126767 | AADACL3 |
| 0.083020754 | 2.32976E-14 | 81537 | SGPP1 |
| 0.082926221 | 2.4927E-14 | 2128 | EVX1 |
| 0.082920045 | 2.50373E-14 | 390429 | OR4N2 |
| 0.082917906 | 2.50755E-14 | 25831 | HECTD1 |
| 0.082896844 | 2.54559E-14 | 415 | ARSE |
| 0.082832992 | 2.66436E-14 | 345079 | ANKRD56 |
| 0.082826249 | 2.67723E-14 | 9687 | AC110754.1 |
| 0.082808226 | 2.71189E-14 | 64776 | C11orf1 |
| 0.082795307 | 2.73701E-14 | 81614 | NIPA2 |
| 0.082768813 | 2.78926E-14 | 146434 | ZNF597 |
| 0.082758613 | 2.80961E-14 | 285971 | ZNF775 |
| 0.08275713 | 2.81258E-14 | 158158 | RASEF |
| 0.082731873 | 2.86371E-14 | 7518 | XRCC4 |
| 0.082729325 | 2.8689E-14 | 200634 | KRTCAP3 |
| 0.082716323 | 2.89563E-14 | 10744 | PTTG2 |
| 0.082696572 | 2.9367E-14 | 389384 | C6orf222 |
| 0.082693942 | 2.9422E-14 | 25840 | METTL7A |
| 0.082685053 | 2.96091E-14 | 284827 | KRTAP13-4 |
| 0.082663 | 3.00781E-14 | 114625 | ERMAP |
| 0.082646631 | 3.04309E-14 | 8660 | IRS2 |
| 0.082631573 | 3.0759E-14 | 8787 | RGS9 |
| 0.082629517 | 3.08042E-14 | 4107 | MAGEA8 |
| 0.082576938 | 3.19792E-14 | 100190939 | XXyac-R12DG2.1 |
| 0.082573973 | 3.20468E-14 | 51366 | UBR5 |
| 0.082567722 | 3.21897E-14 | 402778 | AC068580.3 |
| 0.082545839 | 3.26948E-14 | 90355 | C5orf30 |
| 0.082543038 | 3.276E-14 | 6672 | SP100 |
| 0.082528889 | 3.30916E-14 | 9491 | PSMF1 |
| 0.082516216 | 3.33911E-14 | 4832 | NME3 |
| 0.082476966 | 3.43362E-14 | 4440 | MSI1 |
| 0.082438953 | 3.52767E-14 | 23081 | KDM4C |
| 0.08233849 | 3.78857E-14 | 639 | PRDM1 |
| 0.082336351 | 3.79431E-14 | 2321 | FLT1 |
| 0.082327217 | 3.819E-14 | 79143 | LENG4 |
| 0.082317755 | 3.84473E-14 | 115353 | LRRC42 |
| 0.082315043 | 3.85215E-14 | 10540 | DCTN2 |
| 0.082277931 | 3.95489E-14 | 55336 | FBXL8 |
| 0.08226987 | 3.97757E-14 | 10081 | PDCD7 |
| 0.082265422 | 3.99013E-14 | 6862 | T |
| 0.082261719 | 4.00062E-14 | 84272 | YIPF4 |
| 0.082223132 | 4.11159E-14 | 9140 | ATG12 |
| 0.082184955 | 4.22435E-14 | 57728 | WDR19 |
| 0.082177386 | 4.24704E-14 | 119764 | OR4X2 |
| 0.082174584 | 4.25549E-14 | 10155 | TRIM28 |
| 0.082160436 | 4.29834E-14 | 5083 | PAX9 |
| 0.082149081 | 4.33304E-14 | 27141 | CIDEB |
| 0.082061619 | 4.60977E-14 | 51274 | KLF3 |
| 0.082031257 | 4.70982E-14 | 158062 | LCN6 |
| 0.08201801 | 4.75417E-14 | 8740 | TNFSF14 |
| 0.082009859 | 4.78164E-14 | 79925 | SPEF2 |
| 0.081971601 | 4.91273E-14 | 4711 | NDUFB5 |
| 0.081970617 | 4.91613E-14 | 79083 | MLPH |
| 0.081957042 | 4.96351E-14 | 729305 | RP11-469N6.1 |
| 0.081945851 | 5.00289E-14 | 2040 | STOM |
| 0.081884794 | 5.22333E-14 | 147807 | ZNF524 |
| 0.081880763 | 5.23826E-14 | 1528 | CYB5A |
| 0.081827857 | 5.4375E-14 | 57184 | C15orf17 |
| 0.08181864 | 5.47296E-14 | 389813 | AL355987.1 |
| 0.081756026 | 5.72E-14 | 2569 | GABRR1 |
| 0.081741467 | 5.77897E-14 | 85021 | REPS1 |
| 0.081694402 | 5.97381E-14 | 219477 | OR8J1 |
| 0.081670865 | 6.0737E-14 | 63951 | DMRTA1 |
| 0.081646428 | 6.17909E-14 | 83886 | PRSS27 |
| 0.081628822 | 6.25612E-14 | 3735 | KARS |
| 0.081564724 | 6.54469E-14 | 100287932 | TIMM23 |
| 0.081523091 | 6.73907E-14 | 65117 | RSRC2 |
| 0.081496596 | 6.86576E-14 | 7307 | U2AF1 |
| 0.081412017 | 7.28591E-14 | 1503 | CTPS |
| 0.081353098 | 7.59346E-14 | 28955 | DEXI |

| | | | | | |
|---|---|---|---|---|---|
| 0.150836557 | 0.378444523 | 0.35 | 1 | 55573 | CDV3 |
| 0.150836557 | 0.378444523 | 0.371 | 1 | 56945 | MRPS22 |
| 0.150836557 | 0.378444523 | 0.347 | 1 | 150142 | ZNF295-AS1 |
| 0.150836557 | 0.378444523 | 0.355 | 1 | 100128062 | SLC2A3P1 |
| 0.150579154 | 0.379266351 | 0.36 | 1 | 7092 | TLL1 |
| 0.150579154 | 0.379266351 | 0.381 | 1 | 9182 | RASSF9 |
| 0.150579154 | 0.379266351 | 0.372 | 1 | 80351 | TNKS2 |
| 0.150579154 | 0.379266351 | 0.362 | 1 | 389799 | C9orf171 |
| 0.150321737 | 0.380089194 | 0.338 | 1 | 891 | CCNB1 |
| 0.150321737 | 0.380089194 | 0.367 | 1 | 5789 | PTPRD |
| 0.150321737 | 0.380089194 | 0.374 | 1 | 10495 | ENOX2 |
| 0.150321737 | 0.380089194 | 0.372 | 1 | 27429 | HTRA2 |
| 0.150321737 | 0.380089194 | 0.367 | 1 | 29958 | DMGDH |
| 0.150321737 | 0.380089194 | 0.363 | 1 | 89883 | OR6W1P |
| 0.150321737 | 0.380089194 | 0.386 | 1 | 100130932 | LOC100130932 |
| 0.150064334 | 0.380913496 | 0.357 | 1 | 64420 | SUSD1 |
| 0.150064334 | 0.380913496 | 0.368 | 1 | 64434 | NOM1 |
| 0.150064334 | 0.380913496 | 0.344 | 1 | 221908 | C7orf47 |
| 0.149806947 | 0.381738514 | 0.367 | 1 | 5018 | OXA1L |
| 0.149806947 | 0.381738514 | 0.369 | 1 | 9344 | TAOK2 |
| 0.149806947 | 0.381738514 | 0.375 | 1 | 27095 | TRAPPC3 |
| 0.149806947 | 0.381738514 | 0.375 | 1 | 55312 | RFK |
| 0.149806947 | 0.381738514 | 0.356 | 1 | 128229 | C1orf182 |
| 0.149806947 | 0.381738514 | 0.375 | 1 | 100507135 | AL139377.1 |
| 0.149549544 | 0.382564515 | 0.353 | 1 | 826 | CAPNS1 |
| 0.149549544 | 0.382564515 | 0.367 | 1 | 6998 | TDGF1P3 |
| 0.149549544 | 0.382564515 | 0.376 | 1 | 9978 | RBX1 |
| 0.149549544 | 0.382564515 | 0.348 | 1 | 22899 | ARHGEF15 |
| 0.149549544 | 0.382564515 | 0.382 | 1 | 54436 | SH3TC1 |
| 0.149549544 | 0.382564515 | 0.363 | 1 | 92797 | HELB |
| 0.149549544 | 0.382564515 | 0.403 | 1 | 285877 | POM121L12 |
| 0.149292141 | 0.383391589 | 0.373 | 1 | 26751 | SH3YL1 |
| 0.149292141 | 0.383391589 | 0.373 | 1 | 55343 | SLC35C1 |
| 0.149292141 | 0.383391589 | 0.379 | 1 | 60685 | ZFAND3 |
| 0.149292141 | 0.383391589 | 0.371 | 1 | 441212 | RP9P |
| 0.149034739 | 0.384220213 | 0.378 | 1 | 2215 | FCGR3B |
| 0.149034739 | 0.384220213 | 0.371 | 1 | 5612 | PRKRIR |
| 0.149034739 | 0.384220213 | 0.398 | 1 | 24150 | TP53TG3 |
| 0.149034739 | 0.384220213 | 0.35 | 1 | 29079 | MED4 |
| 0.149034739 | 0.384220213 | 0.37 | 1 | 64895 | PAPOLG |
| 0.149034739 | 0.384220213 | 0.346 | 1 | 79966 | SCD5 |
| 0.149034739 | 0.384220213 | 0.366 | 1 | 643641 | ZNF862 |
| 0.148777336 | 0.385049373 | 0.37 | 1 | 196 | AHR |
| 0.148777336 | 0.385049373 | 0.387 | 1 | 5955 | RCN2 |
| 0.148777336 | 0.385049373 | 0.376 | 1 | 7385 | UQCRC2 |
| 0.148777336 | 0.385049373 | 0.386 | 1 | 8295 | TRRAP |
| 0.148777336 | 0.385049373 | 0.375 | 1 | 8603 | C4orf8 |
| 0.148777336 | 0.385049373 | 0.335 | 1 | 8671 | SLC4A4 |
| 0.148777336 | 0.385049373 | 0.361 | 1 | 10249 | GLYAT |
| 0.148777336 | 0.385049373 | 0.377 | 1 | 26093 | CCDC9 |
| 0.148777336 | 0.385049373 | 0.343 | 1 | 55219 | TMEM57 |
| 0.148777336 | 0.385049373 | 0.346 | 1 | 56893 | UBQLN4 |
| 0.148777336 | 0.385049373 | 0.381 | 1 | 63926 | ANKRD5 |
| 0.148519948 | 0.385879636 | 0.385 | 1 | 7571 | ZNF23 |
| 0.148519948 | 0.385879636 | 0.361 | 1 | 9293 | GPR52 |
| 0.148519948 | 0.385879636 | 0.354 | 1 | 10335 | MRVI1 |
| 0.148519948 | 0.385879636 | 0.345 | 1 | 22858 | ICK |
| 0.148519948 | 0.385879636 | 0.379 | 1 | 64221 | ROBO3 |
| 0.148262545 | 0.386711001 | 0.359 | 1 | 5989 | RFX1 |
| 0.148262545 | 0.386711001 | 0.376 | 1 | 8809 | IL18R1 |
| 0.148262545 | 0.386711001 | 0.387 | 1 | 10291 | SF3A1 |
| 0.148262545 | 0.386711001 | 0.322 | 1 | 27023 | FOXB1 |
| 0.148262545 | 0.386711001 | 0.343 | 1 | 53838 | C11orf24 |
| 0.148262545 | 0.386711001 | 0.375 | 1 | 54867 | TMEM214 |
| 0.148262545 | 0.386711001 | 0.377 | 1 | 55839 | CENPN |
| 0.148262545 | 0.386711001 | 0.351 | 1 | 441869 | ANKRD65 |
| 0.148005143 | 0.38754335 | 0.354 | 1 | 3661 | IRF3 |
| 0.148005143 | 0.38754335 | 0.359 | 1 | 5695 | PSMB7 |
| 0.148005143 | 0.38754335 | 0.364 | 1 | 23019 | CNOT1 |
| 0.148005143 | 0.38754335 | 0.354 | 1 | 50834 | TAS2R1 |
| 0.148005143 | 0.38754335 | 0.37 | 1 | 53345 | TM6SF2 |
| 0.148005143 | 0.38754335 | 0.402 | 1 | 57010 | CABP4 |
| 0.148005143 | 0.38754335 | 0.375 | 1 | 474344 | GIMAP6 |
| 0.14774774 | 0.38837716 | 0.368 | 1 | 3234 | HOXD8 |
| 0.14774774 | 0.38837716 | 0.365 | 1 | 6123 | RPL3L |
| 0.14774774 | 0.38837716 | 0.361 | 1 | 84890 | ADO |
| 0.14774774 | 0.38837716 | 0.381 | 1 | 92715 | WDR85 |
| 0.14774774 | 0.38837716 | 0.397 | 1 | 116224 | FAM122A |
| 0.14774774 | 0.38837716 | 0.354 | 1 | 125206 | SLC5A10 |
| 0.147490337 | 0.389211655 | 0.37 | 1 | 833 | CARS |
| 0.147490337 | 0.389211655 | 0.394 | 1 | 51118 | UTP11L |
| 0.147490337 | 0.389211655 | 0.402 | 1 | 163255 | ZNF540 |

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| 0.081344545 | 7.63917E-14 | 10148 | EBI3 |
| 0.081307933 | 7.83779E-14 | 10456 | HAX1 |
| 0.081258312 | 8.11516E-14 | 56943 | ENY2 |
| 0.081234701 | 8.2505E-14 | 10683 | DLL3 |
| 0.081222773 | 8.31975E-14 | 284266 | SIGLEC15 |
| 0.081194222 | 8.48773E-14 | 3449 | IFNA16 |
| 0.081184588 | 8.54514E-14 | 27301 | APEX2 |
| 0.081174634 | 8.60491E-14 | 10230 | NBR2 |
| 0.081150942 | 8.7488E-14 | 100132724 | DCAF13P3 |
| 0.08110667 | 9.02398E-14 | 1579 | CYP4A11 |
| 0.081039369 | 9.4587E-14 | 3299 | HSF4 |
| 0.081033193 | 9.4996E-14 | 9603 | NFE2L3 |
| 0.081022501 | 9.57081E-14 | 767811 | H2BFXP |
| 0.080983907 | 9.8323E-14 | 51203 | NUSAP1 |
| 0.080969267 | 9.93338E-14 | 390151 | OR8H2 |
| 0.080946229 | 1.00944E-13 | 84203 | TXNDC2 |
| 0.080942027 | 1.01241E-13 | 245812 | CNPY4 |
| 0.080914222 | 1.03225E-13 | 8334 | HIST1H2AC |
| 0.080892906 | 1.04771E-13 | 8891 | EIF2B3 |
| 0.080879577 | 1.05749E-13 | 6736 | SRY |
| 0.080855221 | 1.07561E-13 | 10181 | RBM5 |
| 0.080787182 | 1.12785E-13 | 11141 | IL1RAPL1 |
| 0.080776975 | 1.13589E-13 | 140735 | DYNLL2 |
| 0.080759943 | 1.14944E-13 | 177 | AGER |
| 0.080741763 | 1.16409E-13 | 7503 | XIST |
| 0.080721028 | 1.18102E-13 | 51567 | TTRAP |
| 0.080714196 | 1.18664E-13 | 166785 | MMAA |
| 0.080713123 | 1.18753E-13 | 4879 | NPPB |
| 0.080703333 | 1.19565E-13 | 55504 | TNFRSF19 |
| 0.080672972 | 1.22118E-13 | 262 | AMD1 |
| 0.08064533 | 1.24489E-13 | 50486 | G0S2 |
| 0.08054626 | 1.33363E-13 | 5141 | PDE4A |
| 0.08051154 | 1.36618E-13 | 84991 | RBM17 |
| 0.080461681 | 1.41428E-13 | 79924 | ADM2 |
| 0.080387875 | 1.48857E-13 | 5500 | PPP1CB |
| 0.080380388 | 1.49632E-13 | 81931 | ZNF93 |
| 0.080334388 | 1.54479E-13 | 54734 | RAB39 |
| 0.080329373 | 1.55016E-13 | 1142 | CHRNB3 |
| 0.080294564 | 1.58799E-13 | 79822 | ARHGAP28 |
| 0.080284938 | 1.59861E-13 | 121981 | PPIAP26 |
| 0.080251865 | 1.63563E-13 | 124872 | B4GALNT2 |
| 0.080236726 | 1.65286E-13 | 164153 | UBL4B |
| 0.080195747 | 1.70039E-13 | 84233 | TMEM126A |
| 0.080183409 | 1.71496E-13 | 119587 | CPXM2 |
| 0.080148354 | 1.75704E-13 | 387778 | SPDYC |
| 0.080145806 | 1.76013E-13 | 10627 | MYL12A |
| 0.08011429 | 1.7989E-13 | 3889 | KRT83 |
| 0.080113962 | 1.7993E-13 | 5830 | PEX5 |
| 0.080104828 | 1.81069E-13 | 154 | ADRB2 |
| 0.080090344 | 1.82889E-13 | 146167 | SLC38A8 |
| 0.080078252 | 1.84423E-13 | 55801 | IL26 |
| 0.080052912 | 1.8768E-13 | 50837 | TAS2R7 |
| 0.080051757 | 1.87829E-13 | 2935 | GSPT1 |
| 0.08003892 | 1.89502E-13 | 8495 | PPFIBP2 |
| 0.08000683 | 1.93745E-13 | 79998 | ANKRD53 |
| 0.080004446 | 1.94065E-13 | 149461 | CLDN19 |
| 0.07999745 | 1.95004E-13 | 5447 | POR |
| 0.079993255 | 1.95568E-13 | 57683 | ZDBF2 |
| 0.079981491 | 1.97163E-13 | 123 | ADFP |
| 0.079952031 | 2.0121E-13 | 8911 | CACNA1I |
| 0.079937056 | 2.03298E-13 | 152518 | NFXL1 |
| 0.079924472 | 2.05069E-13 | 730153 | LOC730153 |
| 0.079863995 | 2.13796E-13 | 79930 | DOK3 |
| 0.079832561 | 2.18476E-13 | 23284 | LPHN3 |
| 0.079816192 | 2.20952E-13 | 23379 | KIAA0947 |
| 0.079792246 | 2.24624E-13 | 1605 | DAG1 |
| 0.07978484 | 2.25773E-13 | 643853 | TMPPE |
| 0.07976871 | 2.28292E-13 | 114932 | MRFAP1L1 |
| 0.079762705 | 2.29237E-13 | 2794 | GNL1 |
| 0.079754561 | 2.30525E-13 | 8840 | WISP1 |
| 0.079712763 | 2.37249E-13 | 149628 | PYHIN1 |
| 0.079699107 | 2.39487E-13 | 23354 | HAUS5 |
| 0.079694659 | 2.40219E-13 | 79980 | DSN1 |
| 0.079694413 | 2.40261E-13 | 390162 | OR5M9 |
| 0.079693839 | 2.40355E-13 | 256302 | C17orf103 |
| 0.079662241 | 2.45632E-13 | 378825 | LINC00162 |
| 0.07966093 | 2.45854E-13 | 376132 | LRRC10 |
| 0.079656318 | 2.46634E-13 | 84735 | CNDP1 |
| 0.079629906 | 2.5115E-13 | 55432 | YOD1 |
| 0.079616413 | 2.53489E-13 | 9792 | SERTAD2 |
| 0.079595678 | 2.57123E-13 | 79870 | BAALC |
| 0.079580948 | 2.59736E-13 | 9537 | TP53I11 |

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|---|---|---|---|---|---|
| 0.147490337 | 0.389211655 | 0.365 | 1 | 163933 | FAM43B |
| 0.14723295 | 0.390047222 | 0.387 | 1 | 22954 | TRIM32 |
| 0.14723295 | 0.390047222 | 0.391 | 1 | 57448 | BIRC6 |
| 0.14723295 | 0.390047222 | 0.39 | 1 | 125950 | RAVER1 |
| 0.14723295 | 0.390047222 | 0.341 | 1 | 440515 | ZNF506 |
| 0.146975547 | 0.390883863 | 0.381 | 1 | 708 | C1QBP |
| 0.146975547 | 0.390883863 | 0.368 | 1 | 5108 | PCM1 |
| 0.146975547 | 0.390883863 | 0.367 | 1 | 5316 | PKNOX1 |
| 0.146975547 | 0.390883863 | 0.37 | 1 | 283807 | FBXL22 |
| 0.146718144 | 0.391721845 | 0.378 | 1 | 4154 | MBNL1 |
| 0.146718144 | 0.391721845 | 0.36 | 1 | 9682 | KDM4A |
| 0.146718144 | 0.391721845 | 0.371 | 1 | 51032 | CELA2B |
| 0.146718144 | 0.391721845 | 0.382 | 1 | 147744 | TMEM190 |
| 0.146718144 | 0.391721845 | 0.395 | 1 | 149345 | SHISA4 |
| 0.146718144 | 0.391721845 | 0.4 | 1 | 378108 | TRIM74 |
| 0.146460742 | 0.392560571 | 0.374 | 1 | 581 | BAX |
| 0.146460742 | 0.392560571 | 0.367 | 1 | 4731 | NDUFV3 |
| 0.146460742 | 0.392560571 | 0.388 | 1 | 51318 | MRPL35 |
| 0.146460742 | 0.392560571 | 0.344 | 1 | 55784 | MCTP2 |
| 0.146460742 | 0.392560571 | 0.378 | 1 | 57020 | C16orf62 |
| 0.146460742 | 0.392560571 | 0.359 | 1 | 60598 | KCNK15 |
| 0.146460742 | 0.392560571 | 0.358 | 1 | 81850 | KRTAP1-3 |
| 0.146460742 | 0.392560571 | 0.379 | 1 | 113878 | DTX2 |
| 0.146460742 | 0.392560571 | 0.396 | 1 | 246126 | CYorf15B |
| 0.146460742 | 0.392560571 | 0.388 | 1 | 260434 | PYDC1 |
| 0.146203339 | 0.393400311 | 0.372 | 1 | 5335 | PLCG1 |
| 0.146203339 | 0.393400311 | 0.352 | 1 | 10423 | CDIPT |
| 0.146203339 | 0.393400311 | 0.359 | 1 | 25988 | HINFP |
| 0.146203339 | 0.393400311 | 0.355 | 1 | 27121 | DKK4 |
| 0.146203339 | 0.393400311 | 0.371 | 1 | 79001 | VKORC1 |
| 0.146203339 | 0.393400311 | 0.36 | 1 | 219409 | GSX1 |
| 0.146203339 | 0.393400311 | 0.357 | 1 | 283987 | C17orf28 |
| 0.146203339 | 0.393400311 | 0.348 | 1 | 284716 | RIMKLA |
| 0.145945951 | 0.394241154 | 0.38 | 1 | 26173 | INTS1 |
| 0.145945951 | 0.394241154 | 0.388 | 1 | 30011 | SH3KBP1 |
| 0.145945951 | 0.394241154 | 0.385 | 1 | 51275 | C12ORF47 |
| 0.145945951 | 0.394241154 | 0.376 | 1 | 54480 | CSGLCA-T |
| 0.145945951 | 0.394241154 | 0.377 | 1 | 89870 | TRIM15 |
| 0.145688549 | 0.395083398 | 0.365 | 1 | 50848 | F11R |
| 0.145688549 | 0.395083398 | 0.342 | 1 | 55018 | LINC00483 |
| 0.145688549 | 0.395083398 | 0.376 | 1 | 55345 | C4orf21 |
| 0.145688549 | 0.395083398 | 0.364 | 1 | 79768 | C15orf29 |
| 0.145688549 | 0.395083398 | 0.391 | 1 | 100128511 | RP11-565H13.2 |
| 0.145431146 | 0.395926267 | 0.372 | 1 | 3512 | IGJ |
| 0.145431146 | 0.395926267 | 0.386 | 1 | 200959 | GABRR3 |
| 0.145173743 | 0.396770269 | 0.376 | 1 | 59 | ACTA2 |
| 0.145173743 | 0.396770269 | 0.382 | 1 | 54700 | RRN3 |
| 0.145173743 | 0.396770269 | 0.417 | 1 | 57494 | AC092490.2 |
| 0.145173743 | 0.396770269 | 0.385 | 1 | 123099 | DEGS2 |
| 0.145173743 | 0.396770269 | 0.375 | 1 | 343637 | RSPO4 |
| 0.144916341 | 0.397615254 | 0.379 | 1 | 2693 | GHSR |
| 0.144916341 | 0.397615254 | 0.39 | 1 | 57541 | ZNF398 |
| 0.144916341 | 0.397615254 | 0.368 | 1 | 151174 | AC016757.1 |
| 0.144916341 | 0.397615254 | 0.378 | 1 | 348021 | LINC00442 |
| 0.144658953 | 0.398461342 | 0.369 | 1 | 915 | CD3D |
| 0.144658953 | 0.398461342 | 0.378 | 1 | 2788 | AC005512.1 |
| 0.144658953 | 0.398461342 | 0.387 | 1 | 7846 | TUBA1A |
| 0.144658953 | 0.398461342 | 0.392 | 1 | 29800 | ZDHHC1 |
| 0.144658953 | 0.398461342 | 0.383 | 1 | 57683 | ZDBF2 |
| 0.144658953 | 0.398461342 | 0.398 | 1 | 113457 | TUBA3D |
| 0.144658953 | 0.398461342 | 0.384 | 1 | 151507 | MSL3P1 |
| 0.14440155 | 0.39930883 | 0.379 | 1 | 3717 | JAK2 |
| 0.14440155 | 0.39930883 | 0.368 | 1 | 9526 | MPDU1 |
| 0.144144148 | 0.400156945 | 0.391 | 1 | 2063 | NR2F6 |
| 0.144144148 | 0.400156945 | 0.414 | 1 | 4817 | NIT1 |
| 0.144144148 | 0.400156945 | 0.388 | 1 | 6689 | SPIB |
| 0.144144148 | 0.400156945 | 0.401 | 1 | 55083 | KIF26B |
| 0.144144148 | 0.400156945 | 0.372 | 1 | 55143 | CDCA8 |
| 0.144144148 | 0.400156945 | 0.369 | 1 | 55609 | ZNF280C |
| 0.144144148 | 0.400156945 | 0.405 | 1 | 55625 | ZDHHC7 |
| 0.144144148 | 0.400156945 | 0.402 | 1 | 64754 | SMYD3 |
| 0.144144148 | 0.400156945 | 0.38 | 1 | 83451 | ABHD11 |
| 0.144144148 | 0.400156945 | 0.393 | 1 | 728045 | PPBPP1 |
| 0.143886745 | 0.401006162 | 0.387 | 1 | 51251 | NT5C3 |
| 0.143886745 | 0.401006162 | 0.394 | 1 | 51678 | MPP6 |
| 0.143886745 | 0.401006162 | 0.36 | 1 | 54471 | SMCR7L |
| 0.143886745 | 0.401006162 | 0.364 | 1 | 55930 | MYO5C |
| 0.143886745 | 0.401006162 | 0.368 | 1 | 57017 | COQ9 |
| 0.143886745 | 0.401006162 | 0.362 | 1 | 57824 | HMHB1 |
| 0.143886745 | 0.401006162 | 0.392 | 1 | 79585 | CORO7 |
| 0.143629342 | 0.401856393 | 0.357 | 1 | 247 | ALOX15B |
| 0.143629342 | 0.401856393 | 0.374 | 1 | 124093 | CCDC78 |

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| 0.079516768 | 2.71431E-13 | 55321 | C20orf46 |
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| 0.079507388 | 2.73183E-13 | 5425 | POLD2 |
| 0.079462714 | 2.8168E-13 | 8602 | NOP14 |
| 0.079427496 | 2.88562E-13 | 55142 | HAUS2 |
| 0.079358548 | 3.02516E-13 | 254427 | C10orf47 |
| 0.079333536 | 3.07739E-13 | 441728 | GOLGA6B |
| 0.079329997 | 3.08487E-13 | 81876 | RAB1B |
| 0.079324894 | 3.09564E-13 | 5914 | RARA |
| 0.079304732 | 3.13865E-13 | 60678 | EEFSEC |
| 0.079223029 | 3.31898E-13 | 54531 | MIER2 |
| 0.079216614 | 3.33357E-13 | 6513 | SLC2A1 |
| 0.079197772 | 3.37676E-13 | 6304 | SATB1 |
| 0.079195715 | 3.38151E-13 | 9881 | LBA1 |
| 0.079156876 | 3.47243E-13 | 55859 | BEX1 |
| 0.079149142 | 3.49083E-13 | 5822 | PWP2H |
| 0.079148732 | 3.49181E-13 | 28999 | KLF15 |
| 0.079139762 | 3.51325E-13 | 9132 | KCNQ4 |
| 0.079122238 | 3.55552E-13 | 51286 | CEND1 |
| 0.079098292 | 3.61411E-13 | 79139 | DERL1 |
| 0.079092368 | 3.62876E-13 | 57494 | AC092490.2 |
| 0.079065874 | 3.69495E-13 | 10197 | PSME3 |
| 0.079042837 | 3.75345E-13 | 81871 | KRTAP4-6 |
| 0.079040945 | 3.75829E-13 | 30834 | ZNRD1 |
| 0.079014696 | 3.82616E-13 | 8563 | THOC5 |
| 0.078996018 | 3.87519E-13 | 171389 | NLRP6 |
| 0.078988202 | 3.89588E-13 | 160364 | CLEC12A |
| 0.078980714 | 3.91584E-13 | 178 | AGL |
| 0.078971416 | 3.94071E-13 | 80020 | FOXRED2 |
| 0.078957759 | 3.97754E-13 | 1473 | CST5 |
| 0.078954712 | 3.98582E-13 | 25943 | C20orf194 |
| 0.078951754 | 3.99385E-13 | 57418 | WDR18 |
| 0.078950845 | 3.99633E-13 | 29780 | PARVB |
| 0.07893151 | 4.04928E-13 | 3980 | LIG3 |
| 0.078931019 | 4.05065E-13 | 59286 | UBL5 |
| 0.078896299 | 4.14754E-13 | 85301 | COL27A1 |
| 0.078858532 | 4.25551E-13 | 208 | AKT2 |
| 0.078796327 | 4.4394E-13 | 400673 | VMAC |
| 0.078786865 | 4.46808E-13 | 29062 | WDR91 |
| 0.078781597 | 4.4841E-13 | 51305 | KCNK9 |
| 0.078759961 | 4.55053E-13 | 163154 | PRR22 |
| 0.078721695 | 4.67038E-13 | 22868 | FASTKD2 |
| 0.078714378 | 4.69364E-13 | 92856 | IMP4 |
| 0.078710422 | 4.70628E-13 | 112752 | C14orf179 |
| 0.078703761 | 4.7276E-13 | 31 | ACACA |
| 0.078692324 | 4.76447E-13 | 6891 | TAP2 |
| 0.078642547 | 4.92819E-13 | 213 | ALB |
| 0.078602389 | 5.06428E-13 | 219770 | GJD4 |
| 0.078593835 | 5.09377E-13 | 55776 | C6orf64 |
| 0.078588076 | 5.11369E-13 | 19 | ABCA1 |
| 0.078552283 | 5.23931E-13 | 346288 | SEPTIN14 |
| 0.078516409 | 5.36819E-13 | 54675 | CRLS1 |
| 0.078514762 | 5.37424E-13 | 90199 | WFDC8 |
| 0.078419648 | 5.73172E-13 | 90522 | YIF1B |
| 0.078410514 | 5.76724E-13 | 84247 | LDOC1L |
| 0.078352503 | 5.99802E-13 | 2070 | EYA4 |
| 0.078350201 | 6.00736E-13 | 388585 | HES5 |
| 0.078343377 | 6.03515E-13 | 81570 | CLPB |
| 0.078314573 | 6.1538E-13 | 340888 | LOC340888 |
| 0.078296229 | 6.23053E-13 | 55591 | VEZT |
| 0.078268252 | 6.34941E-13 | 1160 | CKMT2 |
| 0.078257225 | 6.39687E-13 | 83696 | TRAPPC9 |
| 0.078249902 | 6.42859E-13 | 339855 | KY |
| 0.078244552 | 6.45183E-13 | 692312 | PPAN-P2RY11 |
| 0.078199133 | 6.65273E-13 | 286128 | ZFP41 |
| 0.078160465 | 6.82856E-13 | 92 | ACVR2A |
| 0.078128375 | 6.97796E-13 | 9518 | GDF15 |
| 0.078127056 | 6.98415E-13 | 441864 | TARM1 |
| 0.078063123 | 7.29167E-13 | 759 | CA1 |
| 0.078047737 | 7.36763E-13 | 23129 | PLXND1 |
| 0.078013264 | 7.54066E-13 | 8875 | VNN2 |
| 0.078011043 | 7.55193E-13 | 2797 | GNRH2 |
| 0.07800997 | 7.55738E-13 | 348013 | FAM70B |
| 0.078007013 | 7.57246E-13 | 132014 | IL17RE |
| 0.07797385 | 7.74337E-13 | 253582 | C6orf191 |
| 0.077973522 | 7.74507E-13 | 170591 | S100Z |
| 0.07795649 | 7.83435E-13 | 644256 | DND1P2 |
| 0.07793913 | 7.92638E-13 | 79760 | GEMIN7 |
| 0.077938639 | 7.92902E-13 | 11098 | AP000654.2 |
| 0.077930905 | 7.97038E-13 | 388931 | AC104665.1 |
| 0.077895358 | 8.16313E-13 | 246175 | CNOT6L |

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| 0.143629342 | 0.401856393 | 0.362 | 1 | 266675 | BEST4 |
| 0.14337194 | 0.402708083 | 0.382 | 1 | 4942 | OAT |
| 0.14337194 | 0.402708083 | 0.381 | 1 | 7089 | TLE2 |
| 0.14337194 | 0.402708083 | 0.368 | 1 | 84866 | TMEM25 |
| 0.143114537 | 0.40356046 | 0.386 | 1 | 610 | HCN2 |
| 0.143114537 | 0.40356046 | 0.382 | 1 | 3543 | IGLL1 |
| 0.143114537 | 0.40356046 | 0.363 | 1 | 9805 | SCRN1 |
| 0.143114537 | 0.40356046 | 0.422 | 1 | 55117 | SLC6A15 |
| 0.143114537 | 0.40356046 | 0.393 | 1 | 114900 | C1QTNF4 |
| 0.143114537 | 0.40356046 | 0.415 | 1 | 139604 | MAGEB16 |
| 0.143114537 | 0.40356046 | 0.387 | 1 | 643668 | PSMC1P9 |
| 0.142857134 | 0.40441379 | 0.383 | 1 | 7221 | TRPC2 |
| 0.142857134 | 0.40441379 | 0.37 | 1 | 10218 | ANGPTL7 |
| 0.142857134 | 0.40441379 | 0.39 | 1 | 140680 | C20orf96 |
| 0.142857134 | 0.40441379 | 0.378 | 1 | 158399 | ZNF483 |
| 0.142857134 | 0.40441379 | 0.408 | 1 | 222234 | FAM185A |
| 0.142857134 | 0.40441379 | 0.385 | 1 | 344405 | NCRNA00117 |
| 0.142599732 | 0.405268222 | 0.391 | 1 | 10527 | IPO7 |
| 0.142599732 | 0.405268222 | 0.415 | 1 | 84759 | PCGF1 |
| 0.142599732 | 0.405268222 | 0.375 | 1 | 256472 | TMEM151A |
| 0.142599732 | 0.405268222 | 0.365 | 1 | 286075 | ZNF707 |
| 0.142342329 | 0.406124055 | 0.376 | 1 | 2022 | ENG |
| 0.142342329 | 0.406124055 | 0.379 | 1 | 9443 | MED7 |
| 0.142342329 | 0.406124055 | 0.387 | 1 | 84798 | C19orf48 |
| 0.142342329 | 0.406124055 | 0.371 | 1 | 85458 | DIXDC1 |
| 0.142342329 | 0.406124055 | 0.366 | 1 | 126208 | ZNF787 |
| 0.142342329 | 0.406124055 | 0.392 | 1 | 164656 | TMPRSS6 |
| 0.142342329 | 0.406124055 | 0.399 | 1 | 283554 | GPR137C |
| 0.142084941 | 0.406980574 | 0.37 | 1 | 22836 | RHOBTB3 |
| 0.142084941 | 0.406980574 | 0.417 | 1 | 26823 | RNU12-2P |
| 0.141827539 | 0.407838136 | 0.409 | 1 | 1051 | CEBPB |
| 0.141827539 | 0.407838136 | 0.394 | 1 | 8624 | PSMG1 |
| 0.141827539 | 0.407838136 | 0.403 | 1 | 10106 | CTDSP2 |
| 0.141827539 | 0.407838136 | 0.383 | 1 | 23387 | AP006216.1 |
| 0.141827539 | 0.407838136 | 0.41 | 1 | 29091 | STXBP6 |
| 0.141827539 | 0.407838136 | 0.346 | 1 | 84833 | USMG5 |
| 0.141827539 | 0.407838136 | 0.398 | 1 | 100132594 | PGAM1P5 |
| 0.141570136 | 0.408696711 | 0.376 | 1 | 1262 | CNGA4 |
| 0.141570136 | 0.408696711 | 0.387 | 1 | 1308 | COL17A1 |
| 0.141570136 | 0.408696711 | 0.404 | 1 | 51088 | KLHL5 |
| 0.141570136 | 0.408696711 | 0.396 | 1 | 343505 | NBPF7 |
| 0.141312733 | 0.409556359 | 0.412 | 1 | 124857 | WFIKKN2 |
| 0.141312733 | 0.409556359 | 0.4 | 1 | 129025 | ZNF280A |
| 0.141312733 | 0.409556359 | 0.391 | 1 | 246704 | LINC00315 |
| 0.141055331 | 0.410417348 | 0.399 | 1 | 3624 | INHBA |
| 0.141055331 | 0.410417348 | 0.396 | 1 | 4696 | NDUFA3 |
| 0.141055331 | 0.410417348 | 0.399 | 1 | 23172 | FAM175B |
| 0.141055331 | 0.410417348 | 0.391 | 1 | 26049 | FAM169A |
| 0.141055331 | 0.410417348 | 0.402 | 1 | 55635 | DEPDC1 |
| 0.141055331 | 0.410417348 | 0.394 | 1 | 58496 | LY6G5B |
| 0.141055331 | 0.410417348 | 0.404 | 1 | 64852 | TUT1 |
| 0.141055331 | 0.410417348 | 0.401 | 1 | 79149 | ZSCAN5A |
| 0.141055331 | 0.410417348 | 0.401 | 1 | 391192 | OR2L3 |
| 0.141055331 | 0.410417348 | 0.4 | 1 | 650655 | ABCA17P |
| 0.140797943 | 0.411279082 | 0.392 | 1 | 1537 | CYC1 |
| 0.140797943 | 0.411279082 | 0.366 | 1 | 10061 | ABCF2 |
| 0.140797943 | 0.411279082 | 0.398 | 1 | 65123 | INTS3 |
| 0.140797943 | 0.411279082 | 0.413 | 1 | 221037 | JMJD1C |
| 0.140797943 | 0.411279082 | 0.388 | 1 | 100131471 | LOC100131471 |
| 0.14054054 | 0.41214186 | 0.407 | 1 | 916 | CD3E |
| 0.140283138 | 0.41300559 | 0.362 | 1 | 5910 | RAP1GDS1 |
| 0.140283138 | 0.41300559 | 0.414 | 1 | 8877 | SPHK1 |
| 0.140283138 | 0.41300559 | 0.385 | 1 | 79999 | AC007952.2 |
| 0.140283138 | 0.41300559 | 0.39 | 1 | 729769 | UQCRHP2 |
| 0.140025735 | 0.413870811 | 0.39 | 1 | 23788 | MTCH2 |
| 0.140025735 | 0.413870811 | 0.379 | 1 | 51552 | RAB14 |
| 0.140025735 | 0.413870811 | 0.406 | 1 | 51651 | PTRH2 |
| 0.140025735 | 0.413870811 | 0.384 | 1 | 60592 | SCOC |
| 0.140025735 | 0.413870811 | 0.43 | 1 | 83881 | MIXL1 |
| 0.140025735 | 0.413870811 | 0.387 | 1 | 85474 | LBX2 |
| 0.140025735 | 0.413870811 | 0.391 | 1 | 144699 | FBXL14 |
| 0.140025735 | 0.413870811 | 0.386 | 1 | 150771 | ITPRIPL1 |
| 0.139768332 | 0.414736629 | 0.388 | 1 | 3559 | IL2RA |
| 0.139768332 | 0.414736629 | 0.41 | 1 | 5025 | P2RX4 |
| 0.139768332 | 0.414736629 | 0.39 | 1 | 8379 | MAD1L1 |
| 0.139768332 | 0.414736629 | 0.405 | 1 | 10096 | ACTR3 |
| 0.139768332 | 0.414736629 | 0.398 | 1 | 27198 | HCAR1 |
| 0.139768332 | 0.414736629 | 0.404 | 1 | 84314 | TMEM107 |
| 0.139768332 | 0.414736629 | 0.384 | 1 | 389658 | FAM150A |
| 0.139510944 | 0.415603518 | 0.39 | 1 | 1033 | CDKN3 |
| 0.139510944 | 0.415603518 | 0.407 | 1 | 9776 | ATG13 |
| 0.139510944 | 0.415603518 | 0.386 | 1 | 51375 | SNX7 |

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| 0.077872977 | 8.28692E-13 | 506 | ATP5B |
| 0.077796124 | 8.72594E-13 | 1892 | ECHS1 |
| 0.077789545 | 8.76457E-13 | 3234 | HOXD8 |
| 0.077788226 | 8.77236E-13 | 27039 | PKD2L2 |
| 0.077742562 | 9.04536E-13 | 729330 | OC90 |
| 0.077731289 | 9.11402E-13 | 140458 | ASB5 |
| 0.077709571 | 9.24777E-13 | 10974 | C10orf116 |
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| 0.077636503 | 9.71205E-13 | 57380 | MRS2 |
| 0.077633128 | 9.73403E-13 | 119032 | C10orf32 |
| 0.077623256 | 9.79862E-13 | 23428 | SLC7A8 |
| 0.077612646 | 9.86852E-13 | 115098 | CCDC124 |
| 0.077583104 | 1.00657E-12 | 2146 | EZH2 |
| 0.077578992 | 1.00935E-12 | 9114 | ATP6V0D1 |
| 0.077578746 | 1.00951E-12 | 6578 | SLCO2A1 |
| 0.07757578 | 1.01152E-12 | 6182 | MRPL12 |
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| 0.077518843 | 1.05081E-12 | 123264 | AC013553.1 |
| 0.077486508 | 1.07379E-12 | 5169 | ENPP3 |
| 0.077456474 | 1.09558E-12 | 8021 | NUP214 |
| 0.077435412 | 1.11111E-12 | 90529 | C1orf201 |
| 0.077419363 | 1.12309E-12 | 148213 | ZNF681 |
| 0.077410564 | 1.12971E-12 | 9457 | FHL5 |
| 0.077392131 | 1.14371E-12 | 646936 | LOC646936 |
| 0.077388838 | 1.14623E-12 | 6549 | SLC9A2 |
| 0.077377319 | 1.15508E-12 | 79161 | C7orf23 |
| 0.07733947 | 1.18465E-12 | 391109 | OR10K1 |
| 0.077334702 | 1.18843E-12 | 5893 | RAD52 |
| 0.07731314 | 1.20565E-12 | 51334 | PRR16 |
| 0.077263035 | 1.24663E-12 | 59344 | ALOXE3 |
| 0.07726106 | 1.24828E-12 | 84302 | TMEM246 |
| 0.077254802 | 1.2535E-12 | 10376 | TUBA1B |
| 0.077202067 | 1.29835E-12 | 90050 | FAM181A |
| 0.077197865 | 1.30199E-12 | 10200 | MPHOSPH6 |
| 0.077191532 | 1.3075E-12 | 285203 | C3orf64 |
| 0.077188566 | 1.31008E-12 | 3643 | INSR |
| 0.07714916 | 1.34492E-12 | 23151 | GRAMD4 |
| 0.077146113 | 1.34766E-12 | 10046 | MAMLD1 |
| 0.077108264 | 1.38205E-12 | 1339 | COX6A2 |
| 0.077067785 | 1.41979E-12 | 84569 | LYZL1 |
| 0.077062026 | 1.42524E-12 | 1396 | CRIP1 |
| 0.077052645 | 1.43416E-12 | 3581 | IL9R |
| 0.077033557 | 1.45248E-12 | 90649 | ZNF486 |
| 0.077028863 | 1.45702E-12 | 5330 | PLCB2 |
| 0.077024013 | 1.46173E-12 | 84524 | ZC3H8 |
| 0.077010684 | 1.47474E-12 | 65094 | JMJD4 |
| 0.076981716 | 1.50341E-12 | 6649 | SOD3 |
| 0.076980568 | 1.50455E-12 | 80772 | GLTPD1 |
| 0.076979987 | 1.50514E-12 | 84132 | USP42 |
| 0.076977767 | 1.50735E-12 | 3817 | KLK2 |
| 0.07695514 | 1.5302E-12 | 127281 | C1orf93 |
| 0.076950535 | 1.53488E-12 | 317754 | POTED |
| 0.076931365 | 1.55455E-12 | 83737 | ITCH |
| 0.076919511 | 1.56683E-12 | 4014 | LOR |
| 0.076912932 | 1.5737E-12 | 79672 | FN3KRP |
| 0.076905526 | 1.58146E-12 | 9473 | C1orf38 |
| 0.076878212 | 1.61039E-12 | 57558 | USP35 |
| 0.076843649 | 1.64775E-12 | 79048 | SECISBP2 |
| 0.076835915 | 1.65622E-12 | 3682 | ITGAE |
| 0.076795436 | 1.70129E-12 | 55852 | TEX2 |
| 0.076716036 | 1.7932E-12 | 9657 | IQCB1 |
| 0.076715127 | 1.79428E-12 | 3858 | KRT10 |
| 0.07670287 | 1.8089E-12 | 166793 | ZNF509 |
| 0.076696537 | 1.81651E-12 | 56103 | PCDHGB2 |
| 0.07666222 | 1.85824E-12 | 2681 | GGTA1 |
| 0.076600678 | 1.93547E-12 | 729535 | FAM207BP |
| 0.076574922 | 1.96872E-12 | 84895 | FAM73B |
| 0.076568261 | 1.9774E-12 | 55818 | KDM3A |
| 0.076559454 | 1.98894E-12 | 10061 | ABCF2 |
| 0.076546781 | 2.00568E-12 | 4209 | MEF2D |
| 0.076539211 | 2.01573E-12 | 158511 | CSAG1 |
| 0.076531641 | 2.02585E-12 | 29118 | DDX25 |
| 0.076494128 | 2.07668E-12 | 84820 | POLR2J4 |
| 0.076478161 | 2.09869E-12 | 10533 | ATG7 |
| 0.076339521 | 2.29971E-12 | 285759 | RP11-544L8__B.4 |
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| 0.076241605 | 2.45292E-12 | 55966 | AJAP1 |
| 0.076227374 | 2.47602E-12 | 378807 | CATSPER4 |
| 0.076218486 | 2.49055E-12 | 51755 | CRKRS |
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| 0.139510944 | 0.415603518 | 0.39 | 1 | 648262 | LOC648262 |
| 0.139510944 | 0.415603518 | 0.427 | 1 | 100129250 | C9ORF133 |
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| 0.138738737 | 0.418210804 | 0.383 | 1 | 65999 | LRRC61 |
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| 0.137966543 | 0.420826912 | 0.415 | 1 | 11164 | NUDT5 |
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| 0.136422142 | 0.426087707 | 0.39 | 1 | 118460 | EXOSC6 |
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| 0.135649934 | 0.428731561 | 0.43 | 1 | 64595 | TTTY15 |
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| 0.07595963 | 2.95229E-12 | 115286 | SLC25A26 |
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| 0.075813666 | 3.24865E-12 | 211 | ALAS1 |
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| 0.075740606 | 3.40775E-12 | 55187 | VPS13D |
| 0.075730316 | 3.43076E-12 | 81569 | ACTL8 |
| 0.075725958 | 3.44055E-12 | 165829 | GPR156 |
| 0.07571394 | 3.4677E-12 | 3308 | HSPA4 |
| 0.075698473 | 3.50293E-12 | 64863 | METTL4 |
| 0.07564269 | 3.63301E-12 | 2944 | GSTM1 |
| 0.075641535 | 3.63574E-12 | 8519 | IFITM1 |
| 0.075581387 | 3.78139E-12 | 400258 | C14orf180 |
| 0.075575054 | 3.79707E-12 | 79671 | NLRX1 |
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| 0.075497955 | 3.99295E-12 | 254028 | LOC254028 |
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| 0.075340144 | 4.42525E-12 | 8836 | GGH |
| 0.075268805 | 4.63544E-12 | 221504 | ZBTB9 |
| 0.075234495 | 4.73999E-12 | 54539 | NDUFB11 |
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| 0.075188667 | 4.88322E-12 | 25814 | ATXN10 |
| 0.07516966 | 4.94387E-12 | 221178 | SPATA13 |
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| 0.075163737 | 4.96292E-12 | 23225 | NUP210 |
| 0.075129427 | 5.07467E-12 | 11272 | PRR4 |
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| 0.075023778 | 5.43459E-12 | 25912 | C1orf43 |
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| 0.074900113 | 5.88769E-12 | 9204 | ZMYM6 |
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| 0.074870981 | 5.99971E-12 | 79066 | METTL16 |
| 0.074849181 | 6.08488E-12 | 558 | AXL |
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| 0.074802116 | 6.27287E-12 | 728441 | GGT2 |
| 0.074738756 | 6.53492E-12 | 7266 | DNAJC7 |
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| 0.074628338 | 7.01751E-12 | 170626 | XAGE3 |
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| 0.074536845 | 7.44368E-12 | 162137 | MGC34800 |
| 0.074515447 | 7.54695E-12 | 342184 | FMN1 |
| 0.074503109 | 7.60715E-12 | 9844 | ELMO1 |
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| 0.074473567 | 7.75314E-12 | 7850 | IL1R2 |
| 0.074460566 | 7.81829E-12 | 51805 | COQ3 |
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| 0.135392532 | 0.429615289 | 0.387 | 1 | 54798 | DCHS2 |
| 0.135392532 | 0.429615289 | 0.387 | 1 | 284695 | ZNF326 |
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| 0.135135129 | 0.430499643 | 0.431 | 1 | 84790 | TUBA1C |
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| 0.134620324 | 0.432271421 | 0.419 | 1 | 54873 | PALMD |
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| 0.134362936 | 0.433159232 | 0.434 | 1 | 83752 | LONP2 |
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| 0.134105533 | 0.434047639 | 0.435 | 1 | 64062 | RBM26 |
| 0.133848131 | 0.434937119 | 0.429 | 1 | 3681 | ITGAD |
| 0.133848131 | 0.434937119 | 0.386 | 1 | 7430 | VIL2 |
| 0.133848131 | 0.434937119 | 0.422 | 1 | 8846 | ALKBH1 |
| 0.133848131 | 0.434937119 | 0.431 | 1 | 10347 | ABCA7 |
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| 0.133590728 | 0.435827583 | 0.394 | 1 | 90634 | N4BP2L1 |
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| 0.133333325 | 0.436719447 | 0.434 | 1 | 10891 | PPARGC1A |
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| 0.133333325 | 0.436719447 | 0.423 | 1 | 339456 | TMEM52 |
| 0.133333325 | 0.436719447 | 0.431 | 1 | 340578 | DCAF12L2 |
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| 0.133075938 | 0.437611967 | 0.433 | 1 | 27286 | SRPX2 |
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| 0.133075938 | 0.437611967 | 0.445 | 1 | 65987 | KCTD14 |
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| 0.132561132 | 0.439399987 | 0.424 | 1 | 26279 | PLA2G2D |
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| 0.132046327 | 0.441192478 | 0.422 | 1 | 57348 | TTYH1 |
| 0.132046327 | 0.441192478 | 0.437 | 1 | 284266 | SIGLEC15 |
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| 0.131788939 | 0.442090064 | 0.426 | 1 | 64599 | GIGYF1 |
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| 0.073292106 | 1.64854E-11 | 51257 | MARCHF2 |
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| 0.073239528 | 1.70436E-11 | 51256 | TBC1D7 |
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| 0.073113233 | 1.84611E-11 | 55055 | ZWILCH |
| 0.07309562 | 1.86677E-11 | 29068 | ZBTB44 |
| 0.073073238 | 1.89336E-11 | 440570 | LOC440570 |
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| 0.072802454 | 2.2459E-11 | 643236 | TMEM72 |
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| 0.072784685 | 2.27115E-11 | 987 | LRBA |
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| 0.072633289 | 2.49794E-11 | 79724 | ZNF768 |
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| 0.072510198 | 2.69852E-11 | 353145 | LCE3E |
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| 0.07243409 | 2.83034E-11 | 163115 | ZNF781 |
| 0.072409242 | 2.87473E-11 | 5858 | PZP |
| 0.072389491 | 2.91051E-11 | 83897 | KRTAP3-2 |
| 0.072384313 | 2.91995E-11 | 55833 | UBAP2 |
| 0.072373368 | 2.94002E-11 | 440138 | ALG11 |
| 0.072325647 | 3.02913E-11 | 340706 | VWA2 |
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| 0.131788939 | 0.442090064 | 0.43 | 1 | 391475 | DYTN |
| 0.131531537 | 0.442988575 | 0.39 | 1 | 5539 | PPY |
| 0.131531537 | 0.442988575 | 0.419 | 1 | 8644 | AKR1C3 |
| 0.131531537 | 0.442988575 | 0.435 | 1 | 53916 | RAB4B |
| 0.131531537 | 0.442988575 | 0.454 | 1 | 140679 | SLC32A1 |
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| 0.131016731 | 0.444789141 | 0.443 | 1 | 3643 | INSR |
| 0.131016731 | 0.444789141 | 0.408 | 1 | 9047 | SH2D2A |
| 0.131016731 | 0.444789141 | 0.428 | 1 | 64395 | GMCL1 |
| 0.131016731 | 0.444789141 | 0.423 | 1 | 65265 | C8orf33 |
| 0.131016731 | 0.444789141 | 0.409 | 1 | 80853 | JHDM1D |
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| 0.131016731 | 0.444789141 | 0.427 | 1 | 200132 | TCTEX1D1 |
| 0.130759329 | 0.445690751 | 0.412 | 1 | 7709 | ZBTB17 |
| 0.130759329 | 0.445690751 | 0.458 | 1 | 26207 | PITPNC1 |
| 0.130759329 | 0.445690751 | 0.413 | 1 | 58157 | NGB |
| 0.130759329 | 0.445690751 | 0.442 | 1 | 140467 | ZNF358 |
| 0.130759329 | 0.445690751 | 0.439 | 1 | 283687 | AC015871.2 |
| 0.130759329 | 0.445690751 | 0.417 | 1 | 375612 | LHFPL3 |
| 0.130501941 | 0.446593404 | 0.418 | 1 | 4246 | SCGB2A1 |
| 0.130501941 | 0.446593404 | 0.439 | 1 | 8754 | ADAM9 |
| 0.130501941 | 0.446593404 | 0.412 | 1 | 158135 | TTLL11 |
| 0.130244538 | 0.447496951 | 0.424 | 1 | 6734 | SRPR |
| 0.130244538 | 0.447496951 | 0.442 | 1 | 7827 | NPHS2 |
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| 0.130244538 | 0.447496951 | 0.419 | 1 | 23331 | TTC28 |
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| 0.130244538 | 0.447496951 | 0.45 | 1 | 79173 | C19orf57 |
| 0.130244538 | 0.447496951 | 0.435 | 1 | 79690 | GAL3ST4 |
| 0.130244538 | 0.447496951 | 0.432 | 1 | 92293 | TMEM132C |
| 0.129987136 | 0.448401988 | 0.429 | 1 | 1456 | CSNK1G3 |
| 0.129987136 | 0.448401988 | 0.432 | 1 | 9249 | DHRS3 |
| 0.129987136 | 0.448401988 | 0.441 | 1 | 55142 | HAUS2 |
| 0.129987136 | 0.448401988 | 0.453 | 1 | 64714 | PDIA2 |
| 0.129729733 | 0.449307591 | 0.423 | 1 | 5372 | PMM1 |
| 0.129729733 | 0.449307591 | 0.439 | 1 | 5740 | PTGIS |
| 0.129729733 | 0.449307591 | 0.433 | 1 | 5747 | PTK2 |
| 0.129729733 | 0.449307591 | 0.44 | 1 | 8915 | BCL10 |
| 0.129729733 | 0.449307591 | 0.422 | 1 | 26528 | DAZAP1 |
| 0.129729733 | 0.449307591 | 0.427 | 1 | 55852 | TEX2 |
| 0.129729733 | 0.449307591 | 0.441 | 1 | 60678 | EEFSEC |
| 0.129729733 | 0.449307591 | 0.455 | 1 | 158800 | RHOXF1 |
| 0.129729733 | 0.449307591 | 0.42 | 1 | 100130794 | NDUFS5P7 |
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| 0.12947233 | 0.450214207 | 0.445 | 1 | 51141 | INSIG2 |
| 0.12947233 | 0.450214207 | 0.422 | 1 | 284076 | TTLL6 |
| 0.129214913 | 0.451121837 | 0.418 | 1 | 786 | CACNG1 |
| 0.129214913 | 0.451121837 | 0.421 | 1 | 51619 | UBE2D4 |
| 0.129214913 | 0.451121837 | 0.45 | 1 | 54734 | RAB39 |
| 0.129214913 | 0.451121837 | 0.444 | 1 | 56975 | FAM20C |
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| 0.128957525 | 0.45203042 | 0.416 | 1 | 284451 | ODF3L2 |
| 0.128700122 | 0.452940434 | 0.443 | 1 | 837 | CASP4 |
| 0.128700122 | 0.452940434 | 0.444 | 1 | 8450 | CUL4B |
| 0.128700122 | 0.452940434 | 0.456 | 1 | 22863 | KIAA0831 |
| 0.128700122 | 0.452940434 | 0.422 | 1 | 55437 | STRADB |
| 0.128700122 | 0.452940434 | 0.454 | 1 | 147947 | ZNF542 |
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| 0.12844272 | 0.453851044 | 0.448 | 1 | 3248 | HPGD |
| 0.12844272 | 0.453851044 | 0.425 | 1 | 3609 | ILF3 |
| 0.12844272 | 0.453851044 | 0.419 | 1 | 6432 | SFRS7 |
| 0.12844272 | 0.453851044 | 0.441 | 1 | 6754 | SSTR4 |
| 0.12844272 | 0.453851044 | 0.428 | 1 | 10771 | ZMYND11 |
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| 0.12844272 | 0.453851044 | 0.448 | 1 | 29086 | C19orf62 |
| 0.12844272 | 0.453851044 | 0.453 | 1 | 55975 | KLHL7 |
| 0.12844272 | 0.453851044 | 0.435 | 1 | 64900 | LPIN3 |

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| 0.072216868 | 3.24221E-11 | 84271 | POLDIP3 |
| 0.072210036 | 3.25608E-11 | 27255 | CNTN6 |
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| 0.072189637 | 3.29782E-11 | 51205 | ACP6 |
| 0.072186753 | 3.30377E-11 | 220 | ALDH1A3 |
| 0.072164454 | 3.35007E-11 | 5445 | PON2 |
| 0.072147094 | 3.38656E-11 | 2827 | GPR3 |
| 0.072132617 | 3.41728E-11 | 266623 | SLC25A5P1 |
| 0.072121263 | 3.44157E-11 | 4062 | LY6H |
| 0.07212019 | 3.44388E-11 | 245806 | VGLL2 |
| 0.072086044 | 3.518E-11 | 80177 | MYCT1 |
| 0.072048768 | 3.60068E-11 | 493861 | EID3 |
| 0.072005242 | 3.69963E-11 | 79400 | NOX5 |
| 0.071999982 | 3.71179E-11 | 51719 | CAB39 |
| 0.071940571 | 3.85161E-11 | 57719 | ANO8 |
| 0.07190264 | 3.94359E-11 | 2995 | GYPC |
| 0.071859688 | 4.05031E-11 | 80742 | PRR3 |
| 0.071817316 | 4.15837E-11 | 2268 | FGR |
| 0.071776919 | 4.264E-11 | 83597 | RTP3 |
| 0.071764491 | 4.29702E-11 | 6499 | SKIV2L |
| 0.071763508 | 4.29966E-11 | 79666 | PLEKHF2 |
| 0.071740627 | 4.36115E-11 | 59352 | LGR6 |
| 0.071711749 | 4.44E-11 | 3215 | HOXB5 |
| 0.071693569 | 4.49033E-11 | 10743 | RAI1 |
| 0.071649961 | 4.61339E-11 | 80760 | ITIH5 |
| 0.071625024 | 4.68524E-11 | 57456 | KIAA1143 |
| 0.071617454 | 4.70726E-11 | 301 | ANXA1 |
| 0.071617372 | 4.7075E-11 | 64766 | S100PBP |
| 0.071573272 | 4.83785E-11 | 50840 | TAS2R14 |
| 0.071564056 | 4.86552E-11 | 23382 | AHCYL2 |
| 0.071561836 | 4.87222E-11 | 340591 | CA5BP |
| 0.071555667 | 4.89085E-11 | 5900 | RALGDS |
| 0.071535096 | 4.95352E-11 | 51088 | KLHL5 |
| 0.071507692 | 5.03822E-11 | 7123 | CLEC3B |
| 0.071434058 | 5.27289E-11 | 7127 | TNFAIP2 |
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| 0.07133688 | 5.59903E-11 | 3187 | HNRNPH1 |
| 0.071291216 | 5.75901E-11 | 26341 | OR5H1 |
| 0.071266368 | 5.84795E-11 | 93556 | EGFEM1P |
| 0.07123477 | 5.96296E-11 | 386674 | KRTAP10-6 |
| 0.071215272 | 6.03504E-11 | 85329 | LGALS12 |
| 0.071197249 | 6.10239E-11 | 692099 | FAM86DP |
| 0.071175285 | 6.18555E-11 | 93377 | OPALIN |
| 0.071152002 | 6.27484E-11 | 5537 | PPP6C |
| 0.071118675 | 6.40489E-11 | 27202 | GPR77 |
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| 0.071064614 | 6.62146E-11 | 27347 | STK39 |
| 0.071033925 | 6.74755E-11 | 51253 | MRPL37 |
| 0.071014591 | 6.8282E-11 | 59338 | PLEKHA1 |
| 0.07099361 | 6.9168E-11 | 5101 | PCDH9 |
| 0.07097353 | 7.00262E-11 | 55716 | LMBR1L |
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| 0.070899971 | 7.32602E-11 | 57452 | GALNTL1 |
| 0.070836373 | 7.61742E-11 | 613212 | CTXN3 |
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| 0.070796303 | 7.80679E-11 | 729627 | AC130416.2 |
| 0.070782475 | 7.87318E-11 | 79643 | CHMP6 |
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| 0.070708506 | 8.23791E-11 | 203069 | R3HCC1 |
| 0.070704475 | 8.25824E-11 | 10056 | FARSB |
| 0.070685305 | 8.35567E-11 | 57062 | DDX24 |
| 0.07068333 | 8.36574E-11 | 23650 | TRIM29 |
| 0.070683248 | 8.36616E-11 | 7587 | ZNF37A |
| 0.070613801 | 8.72906E-11 | 54942 | C9orf6 |
| 0.070601217 | 8.7964E-11 | 146705 | C17orf56 |
| 0.070574306 | 8.94225E-11 | 3036 | HAS1 |
| 0.070505768 | 9.32435E-11 | 9319 | TRIP13 |
| 0.070493512 | 9.39435E-11 | 64127 | NOD2 |
| 0.070470057 | 9.52971E-11 | 2526 | FUT4 |
| 0.070468083 | 9.54118E-11 | 389898 | UBE2NL |
| 0.070418879 | 9.83174E-11 | 9131 | AIFM1 |
| 0.070405141 | 9.91441E-11 | 518 | ATP5G3 |
| 0.070392385 | 9.99175E-11 | 259307 | IL4I1 |
| 0.070391648 | 9.99628E-11 | 54902 | TTC19 |
| 0.070382349 | 1.0053E-10 | 5036 | PA2G4 |
| 0.07036005 | 1.01905E-10 | 1113 | CHGA |
| 0.070355527 | 1.02186E-10 | 2487 | FRZB |
| 0.070273079 | 1.07444E-10 | 85569 | GALP |
| 0.070264198 | 1.08026E-10 | 58508 | MLL3 |

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| 0.12844272 | 0.453851044 | 0.448 | 1 | 128989 | C22orf25 |
| 0.12844272 | 0.453851044 | 0.446 | 1 | 400831 | RP4-545L17.1 |
| 0.128185332 | 0.454762697 | 0.432 | 1 | 2770 | GNAI1 |
| 0.127927929 | 0.455675244 | 0.433 | 1 | 8365 | HIST1H4H |
| 0.127927929 | 0.455675244 | 0.441 | 1 | 219537 | SMTNL1 |
| 0.127670527 | 0.456589252 | 0.434 | 1 | 2046 | EPHA8 |
| 0.127670527 | 0.456589252 | 0.432 | 1 | 5004 | ORM1 |
| 0.127670527 | 0.456589252 | 0.43 | 1 | 158062 | LCN6 |
| 0.127413124 | 0.457503915 | 0.433 | 1 | 3656 | IRAK2 |
| 0.127413124 | 0.457503915 | 0.455 | 1 | 4898 | NRD1 |
| 0.127413124 | 0.457503915 | 0.415 | 1 | 7538 | ZFP36 |
| 0.127413124 | 0.457503915 | 0.463 | 1 | 9368 | SLC9A3R1 |
| 0.127413124 | 0.457503915 | 0.457 | 1 | 80231 | CXorf21 |
| 0.127155721 | 0.458419472 | 0.433 | 1 | 3750 | KCND1 |
| 0.127155721 | 0.458419472 | 0.447 | 1 | 3836 | KPNA1 |
| 0.127155721 | 0.458419472 | 0.431 | 1 | 23099 | ZBTB43 |
| 0.127155721 | 0.458419472 | 0.43 | 1 | 51573 | GDE1 |
| 0.127155721 | 0.458419472 | 0.451 | 1 | 116115 | ZNF526 |
| 0.127155721 | 0.458419472 | 0.43 | 1 | 728635 | DHRS4L1 |
| 0.126898319 | 0.459336072 | 0.427 | 1 | 1444 | CSHL1 |
| 0.126898319 | 0.459336072 | 0.45 | 1 | 2811 | GP1BA |
| 0.126898319 | 0.459336072 | 0.451 | 1 | 4059 | BCAM |
| 0.126898319 | 0.459336072 | 0.455 | 1 | 6480 | ST6GAL1 |
| 0.126898319 | 0.459336072 | 0.431 | 1 | 6674 | SPAG1 |
| 0.126898319 | 0.459336072 | 0.448 | 1 | 51763 | INPP5K |
| 0.126898319 | 0.459336072 | 0.436 | 1 | 199964 | TMEM61 |
| 0.126898319 | 0.459336072 | 0.445 | 1 | 221092 | HNRNPUL2 |
| 0.126898319 | 0.459336072 | 0.438 | 1 | 317648 | C4ORF10 |
| 0.126898319 | 0.459336072 | 0.434 | 1 | 100132832 | LOC100132832 |
| 0.126640916 | 0.460254073 | 0.422 | 1 | 9839 | ZEB2 |
| 0.126640916 | 0.460254073 | 0.437 | 1 | 23708 | GSPT2 |
| 0.126640916 | 0.460254073 | 0.45 | 1 | 64921 | CASD1 |
| 0.126640916 | 0.460254073 | 0.46 | 1 | 161436 | EML5 |
| 0.126383528 | 0.461172581 | 0.465 | 1 | 4629 | MYH11 |
| 0.126383528 | 0.461172581 | 0.452 | 1 | 148206 | ZNF714 |
| 0.126383528 | 0.461172581 | 0.481 | 1 | 344967 | AC098591.2 |
| 0.126126125 | 0.462092161 | 0.438 | 1 | 372 | ARCN1 |
| 0.126126125 | 0.462092161 | 0.449 | 1 | 6251 | RSU1 |
| 0.126126125 | 0.462092161 | 0.453 | 1 | 9230 | RAB11B |
| 0.126126125 | 0.462092161 | 0.439 | 1 | 84969 | C20orf100 |
| 0.126126125 | 0.462092161 | 0.446 | 1 | 147645 | AC063977.1 |
| 0.126126125 | 0.462092161 | 0.434 | 1 | 246213 | SLC17A8 |
| 0.125868723 | 0.463012695 | 0.455 | 1 | 4608 | MYBPH |
| 0.125868723 | 0.463012695 | 0.438 | 1 | 8805 | TRIM24 |
| 0.125868723 | 0.463012695 | 0.452 | 1 | 347404 | LANCL3 |
| 0.12561132 | 0.463934183 | 0.476 | 1 | 1269 | CNR2 |
| 0.12561132 | 0.463934183 | 0.454 | 1 | 64792 | RABL5 |
| 0.12561132 | 0.463934183 | 0.446 | 1 | 400258 | C14orf180 |
| 0.125353917 | 0.464857221 | 0.452 | 1 | 2597 | GAPDH |
| 0.125353917 | 0.464857221 | 0.453 | 1 | 3491 | CYR61 |
| 0.125353917 | 0.464857221 | 0.452 | 1 | 7294 | TXK |
| 0.125353917 | 0.464857221 | 0.467 | 1 | 57531 | HACE1 |
| 0.125353917 | 0.464857221 | 0.446 | 1 | 91875 | TTC5 |
| 0.125353917 | 0.464857221 | 0.436 | 1 | 553115 | PEF1 |
| 0.125353917 | 0.464857221 | 0.465 | 1 | 645367 | GGT8P |
| 0.12509653 | 0.465780675 | 0.444 | 1 | 7520 | XRCC5 |
| 0.12509653 | 0.465780675 | 0.434 | 1 | 51435 | SCARA3 |
| 0.12509653 | 0.465780675 | 0.465 | 1 | 57657 | HCN3 |
| 0.12509653 | 0.465780675 | 0.449 | 1 | 83787 | ARMC10 |
| 0.12509653 | 0.465780675 | 0.447 | 1 | 116842 | LEAP2 |
| 0.12509653 | 0.465780675 | 0.43 | 1 | 339366 | ADAMTSL5 |
| 0.124839127 | 0.466705143 | 0.417 | 1 | 3995 | FADS3 |
| 0.124839127 | 0.466705143 | 0.456 | 1 | 11108 | PRDM4 |
| 0.124839127 | 0.466705143 | 0.447 | 1 | 115353 | LRRC42 |
| 0.124839127 | 0.466705143 | 0.43 | 1 | 144124 | OR10A5 |
| 0.124839127 | 0.466705143 | 0.436 | 1 | 375748 | C9orf102 |
| 0.124581724 | 0.467630595 | 0.459 | 1 | 182 | JAG1 |
| 0.124581724 | 0.467630595 | 0.453 | 1 | 864 | RUNX3 |
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| 0.115830116 | 0.499677658 | 0.507 | 1 | 83696 | TRAPPC9 |
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| 0.115572713 | 0.500636876 | 0.487 | 1 | 92291 | CAPN13 |
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| 0.06660445 | 9.4594E-10 | 123904 | NRN1L |
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| 0.06655895 | 9.71125E-10 | 90993 | CREB3L1 |
| 0.066546194 | 9.78301E-10 | 56287 | GKN1 |
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| 0.066494443 | 1.00795E-09 | 18 | ABAT |
| 0.066455774 | 1.03067E-09 | 8678 | BECN1 |
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| 0.066437587 | 1.04153E-09 | 4204 | MECP2 |
| 0.066430345 | 1.04588E-09 | 3066 | HDAC2 |
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| 0.066361561 | 1.08814E-09 | 100129272 | LOC100129272 |
| 0.066323631 | 1.11215E-09 | 79974 | C7orf58 |
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| 0.066233777 | 1.17111E-09 | 2652 | OPN1MW |
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| 0.066204078 | 1.19126E-09 | 24150 | TP53TG3 |
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| 0.066161126 | 1.221E-09 | 54014 | BRWD1 |
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| 0.06585636 | 1.45382E-09 | 189 | AGXT |
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| 0.065608531 | 1.67455E-09 | 284611 | FAM102B |
| 0.065590844 | 1.6915E-09 | 338321 | NLRP9 |
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| 0.065213665 | 2.0953E-09 | 4898 | NRD1 |
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| 0.114800513 | 0.503520608 | 0.466 | 1 | 119395 | CALHM3 |
| 0.114800513 | 0.503520608 | 0.488 | 1 | 160418 | TMTC3 |
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| 0.114543118 | 0.504483581 | 0.499 | 1 | 2848 | GPR25 |
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| 0.114543118 | 0.504483581 | 0.479 | 1 | 84303 | CHCHD6 |
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| 0.114543118 | 0.504483581 | 0.494 | 1 | 85478 | CCDC65 |
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| 0.114543118 | 0.504483581 | 0.48 | 1 | 342132 | ZNF774 |
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| 0.114028312 | 0.506412804 | 0.477 | 1 | 53342 | IL17D |
| 0.114028312 | 0.506412804 | 0.487 | 1 | 84243 | ZDHHC18 |
| 0.113770917 | 0.507378578 | 0.495 | 1 | 3757 | KCNH2 |
| 0.113770917 | 0.507378578 | 0.514 | 1 | 9498 | SLC4A8 |
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| 0.113513507 | 0.508345306 | 0.466 | 1 | 2825 | GPR1 |
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| 0.113256112 | 0.509312928 | 0.507 | 1 | 163115 | ZNF781 |
| 0.113256112 | 0.509312928 | 0.516 | 1 | 283011 | FLJ37201 |
| 0.113256112 | 0.509312928 | 0.548 | 1 | 440051 | KRTAP5-11 |
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| 0.112998709 | 0.51028198 | 0.486 | 1 | 257240 | KLHL34 |
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| 0.112226509 | 0.513193309 | 0.511 | 1 | 4358 | MPV17 |
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| 0.112226509 | 0.513193309 | 0.502 | 1 | 79711 | IPO4 |
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| 0.063534744 | 5.3563E-09 | 642587 | MIR205HG |
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| 0.063514911 | 5.41527E-09 | 3191 | HNRNPL |

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| 0.111196913 | 0.517088532 | 0.533 | 1 | 408263 | C5orf40 |
| 0.11093951 | 0.518064916 | 0.509 | 1 | 266 | AMELY |
| 0.11093951 | 0.518064916 | 0.5 | 1 | 7020 | TFAP2A |
| 0.11093951 | 0.518064916 | 0.477 | 1 | 55856 | ACOT13 |
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| 0.110424712 | 0.52001977 | 0.475 | 1 | 49854 | ZNF295 |
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| 0.110424712 | 0.52001977 | 0.497 | 1 | 100131138 | AC002351.1 |
| 0.11016731 | 0.520998478 | 0.502 | 1 | 1366 | CLDN7 |
| 0.11016731 | 0.520998478 | 0.538 | 1 | 25876 | SPEF1 |
| 0.11016731 | 0.520998478 | 0.515 | 1 | 57549 | IGSF9 |
| 0.11016731 | 0.520998478 | 0.52 | 1 | 79674 | VEPH1 |
| 0.11016731 | 0.520998478 | 0.492 | 1 | 164592 | CCDC116 |
| 0.109909907 | 0.52197814 | 0.509 | 1 | 1896 | EDA |
| 0.109909907 | 0.52197814 | 0.492 | 1 | 5216 | PFN1 |
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| 0.109909907 | 0.52197814 | 0.499 | 1 | 115861 | NXNL1 |
| 0.109909907 | 0.52197814 | 0.514 | 1 | 727910 | TLCD2 |
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| 0.109652504 | 0.522959173 | 0.485 | 1 | 6789 | STK4 |
| 0.109652504 | 0.522959173 | 0.496 | 1 | 8392 | OR3A3 |
| 0.109652504 | 0.522959173 | 0.521 | 1 | 92591 | ASB16 |
| 0.109652504 | 0.522959173 | 0.487 | 1 | 200373 | AC069154.2 |
| 0.109395109 | 0.523940682 | 0.515 | 1 | 4257 | MGST1 |
| 0.109395109 | 0.523940682 | 0.492 | 1 | 10135 | PBEF1 |
| 0.109395109 | 0.523940682 | 0.493 | 1 | 26750 | RPS6KC1 |
| 0.109395109 | 0.523940682 | 0.503 | 1 | 53820 | DSCR6 |
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| 0.109137706 | 0.524923146 | 0.487 | 1 | 1353 | COX11 |
| 0.109137706 | 0.524923146 | 0.516 | 1 | 5134 | PDCD2 |
| 0.109137706 | 0.524923146 | 0.527 | 1 | 22925 | PLA2R1 |
| 0.109137706 | 0.524923146 | 0.485 | 1 | 55929 | DMAP1 |
| 0.109137706 | 0.524923146 | 0.522 | 1 | 653548 | DUX4L3 |
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| 0.108880304 | 0.525906384 | 0.539 | 1 | 5892 | RAD51L3 |
| 0.108880304 | 0.525906384 | 0.515 | 1 | 8335 | HIST1H2AB |
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| 0.108880304 | 0.525906384 | 0.509 | 1 | 54839 | LRRC49 |
| 0.108880304 | 0.525906384 | 0.527 | 1 | 55316 | RSAD1 |
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| 0.108880304 | 0.525906384 | 0.526 | 1 | 84727 | SPSB2 |
| 0.108622909 | 0.526891112 | 0.477 | 1 | 8074 | FGF23 |
| 0.108622909 | 0.526891112 | 0.49 | 1 | 80816 | ASXL3 |
| 0.108622909 | 0.526891112 | 0.524 | 1 | 154790 | CLEC2L |
| 0.108365506 | 0.527876258 | 0.491 | 1 | 39 | ACAT2 |
| 0.108365506 | 0.527876258 | 0.492 | 1 | 2158 | F9 |
| 0.108365506 | 0.527876258 | 0.522 | 1 | 4324 | MMP15 |
| 0.108365506 | 0.527876258 | 0.502 | 1 | 23097 | CDC2L6 |
| 0.108365506 | 0.527876258 | 0.511 | 1 | 23269 | MGA |
| 0.108365506 | 0.527876258 | 0.514 | 1 | 23677 | SH3BP4 |
| 0.108365506 | 0.527876258 | 0.509 | 1 | 80776 | B9D2 |
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| 0.108108111 | 0.528862298 | 0.499 | 1 | 80740 | LY6G6C |
| 0.108108111 | 0.528862298 | 0.52 | 1 | 284656 | RP4-783C10.1 |
| 0.108108111 | 0.528862298 | 0.511 | 1 | 338755 | OR2AG2 |
| 0.108108111 | 0.528862298 | 0.52 | 1 | 729501 | ZNF962P |
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| 0.107850708 | 0.529849291 | 0.55 | 1 | 140807 | KRT72 |
| 0.107850708 | 0.529849291 | 0.523 | 1 | 442720 | EIF3IP1 |
| 0.107593305 | 0.530837536 | 0.484 | 1 | 1577 | CYP3A5 |
| 0.107593305 | 0.530837536 | 0.507 | 1 | 9141 | PDCD5 |
| 0.107593305 | 0.530837536 | 0.525 | 1 | 10683 | DLL3 |
| 0.107593305 | 0.530837536 | 0.501 | 1 | 10990 | LILRB5 |
| 0.107593305 | 0.530837536 | 0.511 | 1 | 91319 | DERL3 |
| 0.107593305 | 0.530837536 | 0.532 | 1 | 139599 | MAGEE2 |
| 0.107593305 | 0.530837536 | 0.503 | 1 | 267004 | PGBD3 |
| 0.10733591 | 0.531826317 | 0.537 | 1 | 6196 | RPS6KA2 |
| 0.10733591 | 0.531826317 | 0.506 | 1 | 9925 | ZBTB5 |
| 0.10733591 | 0.531826317 | 0.52 | 1 | 147710 | AC138472.2 |
| 0.10733591 | 0.531826317 | 0.483 | 1 | 284382 | ACTL9 |
| 0.107078508 | 0.532815993 | 0.495 | 1 | 999 | CDH1 |

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| 0.063512936 | 5.42115E-09 | 140686 | WFDC3 |
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| 0.063405067 | 5.75342E-09 | 11209 | RP5-1182A14.1 |
| 0.063345991 | 5.94368E-09 | 3163 | HMOX2 |
| 0.063323937 | 6.01627E-09 | 90634 | N4BP2L1 |
| 0.063318752 | 6.03344E-09 | 54831 | BEST2 |
| 0.063285761 | 6.14397E-09 | 8915 | BCL10 |
| 0.063221991 | 6.36317E-09 | 84832 | ANKRD36BL1 |
| 0.063212864 | 6.39514E-09 | 8200 | GDF5 |
| 0.063164726 | 6.56647E-09 | 55824 | PAG1 |
| 0.063159131 | 6.58667E-09 | 116512 | MRGPRD |
| 0.063110836 | 6.76355E-09 | 151835 | CPNE9 |
| 0.063108116 | 6.77366E-09 | 128178 | EDARADD |
| 0.063107379 | 6.7764E-09 | 10766 | TOB2 |
| 0.063105814 | 6.78222E-09 | 64759 | TNS3 |
| 0.063098162 | 6.81073E-09 | 25794 | FSCN2 |
| 0.063084587 | 6.86161E-09 | 79981 | FRMD1 |
| 0.063058585 | 6.96014E-09 | 7388 | UQCRH |
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| 0.063041963 | 7.02381E-09 | 79873 | NUDT18 |
| 0.063037194 | 7.04222E-09 | 408263 | C5orf40 |
| 0.06301374 | 7.13326E-09 | 554 | AVPR2 |
| 0.0629768 | 7.27902E-09 | 9344 | TAOK2 |
| 0.062972851 | 7.2948E-09 | 2623 | GATA1 |
| 0.062952362 | 7.37702E-09 | 4724 | NDUFS4 |
| 0.062927432 | 7.47834E-09 | 54756 | IL17RD |
| 0.062926523 | 7.48208E-09 | 127428 | C1orf83 |
| 0.062830918 | 7.88348E-09 | 81697 | OR2B2 |
| 0.062816024 | 7.94785E-09 | 220070 | SHANK2-AS3 |
| 0.062804833 | 7.99657E-09 | 6612 | SUMO3 |
| 0.062786728 | 8.076E-09 | 728327 | LOC728327 |
| 0.062769778 | 8.15105E-09 | 201266 | SLC39A11 |
| 0.062698528 | 8.47404E-09 | 201625 | DNAH12 |
| 0.062693916 | 8.49537E-09 | 2020 | EN2 |
| 0.06267187 | 8.59805E-09 | 148930 | KNCN |
| 0.062661335 | 8.64756E-09 | 26103 | LRIT1 |
| 0.062660351 | 8.65218E-09 | 3915 | LAMC1 |
| 0.062657304 | 8.66655E-09 | 65987 | KCTD14 |
| 0.062635995 | 8.76772E-09 | 7221 | TRPC2 |
| 0.062601186 | 8.93549E-09 | 599 | BCL2L2 |
| 0.062597983 | 8.9511E-09 | 55143 | CDCA8 |
| 0.062578067 | 9.04863E-09 | 4923 | NTSR1 |
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| 0.06256301 | 9.12306E-09 | 2192 | FBLN1 |
| 0.062539481 | 9.24058E-09 | 57507 | ZNF608 |
| 0.062521622 | 9.33072E-09 | 90196 | SYS1 |
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| 0.062405199 | 9.93982E-09 | 275 | AMT |
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| 0.062372696 | 1.01167E-08 | 23136 | EPB41L3 |
| 0.062365457 | 1.01564E-08 | 6369 | CCL24 |
| 0.062357556 | 1.02001E-08 | 80820 | EEPD1 |
| 0.062340692 | 1.02937E-08 | 84618 | NT5C1A |
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| 0.062287617 | 1.05941E-08 | 5796 | PTPRK |
| 0.062284824 | 1.06102E-08 | 56120 | PCDHGB8P |
| 0.062247384 | 1.08275E-08 | 8074 | FGF23 |
| 0.062201638 | 1.10989E-08 | 23520 | ANP32C |
| 0.062179092 | 1.1235E-08 | 7879 | RAB7A |
| 0.062154327 | 1.13865E-08 | 10723 | SLC12A7 |
| 0.062153995 | 1.13886E-08 | 56655 | POLE4 |
| 0.062144533 | 1.14469E-08 | 9051 | PSTPIP1 |
| 0.062119603 | 1.16022E-08 | 5639 | PRRG2 |
| 0.062112939 | 1.16441E-08 | 25871 | C3orf17 |
| 0.062099032 | 1.17319E-08 | 1761 | DMRT1 |
| 0.062078297 | 1.1864E-08 | 65009 | NDRG4 |
| 0.062070977 | 1.1911E-08 | 51649 | MRPS23 |
| 0.062047195 | 1.20649E-08 | 284912 | LOC284912 |
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| 0.061994702 | 1.24114E-08 | 390892 | OR7A10 |
| 0.061984744 | 1.24782E-08 | 140689 | CBLN4 |
| 0.061971169 | 1.25699E-08 | 948 | CD36 |
| 0.061953396 | 1.26909E-08 | 840 | CASP7 |
| 0.061945993 | 1.27416E-08 | 728591 | C13orf38 |
| 0.06194336 | 1.27597E-08 | 9044 | BTAF1 |
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| 0.061860915 | 1.3339E-08 | 8341 | HIST1H2BN |
| 0.061760616 | 1.40781E-08 | 10810 | WASF3 |

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| 0.107078508 | 0.532815993 | 0.534 | 1 | 5329 | PLAUR |
| 0.107078508 | 0.532815993 | 0.524 | 1 | 23439 | ATP1B4 |
| 0.107078508 | 0.532815993 | 0.526 | 1 | 134285 | TMEM171 |
| 0.107078508 | 0.532815993 | 0.518 | 1 | 139324 | HDX |
| 0.107078508 | 0.532815993 | 0.533 | 1 | 100144596 | LINC00029 |
| 0.106821112 | 0.533806503 | 0.525 | 1 | 5029 | P2RY2 |
| 0.106821112 | 0.533806503 | 0.505 | 1 | 5066 | PAM |
| 0.106821112 | 0.533806503 | 0.536 | 1 | 29992 | PILRA |
| 0.106821112 | 0.533806503 | 0.535 | 1 | 51117 | COQ4 |
| 0.106821112 | 0.533806503 | 0.516 | 1 | 84279 | C2orf7 |
| 0.106821112 | 0.533806503 | 0.529 | 1 | 285600 | C5orf36 |
| 0.106563702 | 0.534798026 | 0.538 | 1 | 5002 | SLC22A18 |
| 0.106563702 | 0.534798026 | 0.536 | 1 | 116349 | C5orf55 |
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| 0.1063063 | 0.535790801 | 0.511 | 1 | 2021 | ENDOG |
| 0.1063063 | 0.535790801 | 0.546 | 1 | 7627 | ZNF75A |
| 0.1063063 | 0.535790801 | 0.536 | 1 | 57156 | TMEM63C |
| 0.1063063 | 0.535790801 | 0.5 | 1 | 128872 | HMGB3P1 |
| 0.1063063 | 0.535790801 | 0.514 | 1 | 344387 | CDKL4 |
| 0.106048904 | 0.536784053 | 0.542 | 1 | 1675 | CFD |
| 0.106048904 | 0.536784053 | 0.54 | 1 | 5223 | PGAM1 |
| 0.106048904 | 0.536784053 | 0.519 | 1 | 8366 | HIST1H4B |
| 0.106048904 | 0.536784053 | 0.526 | 1 | 9617 | MTRF1 |
| 0.106048904 | 0.536784053 | 0.533 | 1 | 26135 | SERBP1 |
| 0.106048904 | 0.536784053 | 0.52 | 1 | 57003 | CCDC47 |
| 0.106048904 | 0.536784053 | 0.545 | 1 | 57182 | ANKRD50 |
| 0.106048904 | 0.536784053 | 0.548 | 1 | 112609 | MRAP2 |
| 0.106048904 | 0.536784053 | 0.501 | 1 | 152926 | PPM1K |
| 0.105791502 | 0.537778258 | 0.553 | 1 | 10590 | SCGN |
| 0.105791502 | 0.537778258 | 0.528 | 1 | 80854 | SETD7 |
| 0.105791502 | 0.537778258 | 0.544 | 1 | 116535 | MRGPRF |
| 0.105791502 | 0.537778258 | 0.525 | 1 | 151313 | FAHD2B |
| 0.105791502 | 0.537778258 | 0.512 | 1 | 221336 | BEND6 |
| 0.105534099 | 0.538773239 | 0.54 | 1 | 1488 | CTBP2 |
| 0.105534099 | 0.538773239 | 0.512 | 1 | 10609 | AC130686.2 |
| 0.105534099 | 0.538773239 | 0.54 | 1 | 11007 | CCDC85B |
| 0.105534099 | 0.538773239 | 0.536 | 1 | 23338 | PHF15 |
| 0.105534099 | 0.538773239 | 0.503 | 1 | 51475 | CABP2 |
| 0.105534099 | 0.538773239 | 0.528 | 1 | 93081 | C13orf27 |
| 0.105534099 | 0.538773239 | 0.516 | 1 | 150677 | OTOS |
| 0.105534099 | 0.538773239 | 0.512 | 1 | 220032 | GDPD4 |
| 0.105276704 | 0.53976965 | 0.529 | 1 | 2739 | GLO1 |
| 0.105276704 | 0.53976965 | 0.516 | 1 | 6932 | TCF7 |
| 0.105276704 | 0.53976965 | 0.52 | 1 | 56105 | PCDHGA11 |
| 0.105276704 | 0.53976965 | 0.509 | 1 | 196792 | FAM24B |
| 0.105019301 | 0.540766478 | 0.476 | 1 | 4035 | LRP1 |
| 0.105019301 | 0.540766478 | 0.515 | 1 | 10314 | LANCL1 |
| 0.105019301 | 0.540766478 | 0.525 | 1 | 50832 | TAS2R4 |
| 0.105019301 | 0.540766478 | 0.55 | 1 | 55527 | FEM1A |
| 0.105019301 | 0.540766478 | 0.531 | 1 | 55798 | METTL2B |
| 0.105019301 | 0.540766478 | 0.508 | 1 | 161003 | STOML3 |
| 0.105019301 | 0.540766478 | 0.482 | 1 | 100130331 | RP11-193H5.1 |
| 0.104761906 | 0.541764259 | 0.522 | 1 | 8092 | ALX1 |
| 0.104761906 | 0.541764259 | 0.515 | 1 | 10406 | WFDC2 |
| 0.104761906 | 0.541764259 | 0.517 | 1 | 23608 | MKRN1 |
| 0.104761906 | 0.541764259 | 0.555 | 1 | 79087 | ALG12 |
| 0.104761906 | 0.541764259 | 0.55 | 1 | 127933 | UHMK1 |
| 0.104761906 | 0.541764259 | 0.527 | 1 | 339479 | FAM5C |
| 0.104504503 | 0.542762816 | 0.517 | 1 | 6578 | SLCO2A1 |
| 0.104504503 | 0.542762816 | 0.511 | 1 | 79228 | THOC6 |
| 0.104504503 | 0.542762816 | 0.532 | 1 | 79644 | SRD5A3 |
| 0.104504503 | 0.542762816 | 0.537 | 1 | 83983 | TSSK6 |
| 0.104504503 | 0.542762816 | 0.518 | 1 | 90835 | C16orf93 |
| 0.104504503 | 0.542762816 | 0.546 | 1 | 117245 | HRASLS5 |
| 0.104504503 | 0.542762816 | 0.53 | 1 | 124773 | C17orf64 |
| 0.104504503 | 0.542762816 | 0.535 | 1 | 644762 | LOC644762 |
| 0.104504503 | 0.542762816 | 0.528 | 1 | 100506742 | CASP12 |
| 0.104247101 | 0.543762803 | 0.535 | 1 | 2254 | FGF9 |
| 0.104247101 | 0.543762803 | 0.529 | 1 | 3841 | KPNA5 |
| 0.104247101 | 0.543762803 | 0.54 | 1 | 83551 | TAAR8 |
| 0.104247101 | 0.543762803 | 0.533 | 1 | 92241 | RCSD1 |
| 0.104247101 | 0.543762803 | 0.548 | 1 | 113091 | PTH2 |
| 0.104247101 | 0.543762803 | 0.547 | 1 | 124637 | CYB5D1 |
| 0.104247101 | 0.543762803 | 0.539 | 1 | 125931 | CEACAM20 |
| 0.104247101 | 0.543762803 | 0.525 | 1 | 150678 | MYEOV2 |
| 0.103989705 | 0.544763148 | 0.544 | 1 | 6827 | SUPT4H1 |
| 0.103989705 | 0.544763148 | 0.515 | 1 | 7421 | VDR |
| 0.103989705 | 0.544763148 | 0.513 | 1 | 10144 | FAM13A |
| 0.103989705 | 0.544763148 | 0.523 | 1 | 56918 | C2orf83 |
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| 0.103989705 | 0.544763148 | 0.543 | 1 | 392617 | PPP1R28 |
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| 0.061584864 | 1.54705E-08 | 190 | NR0B1 |
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| 0.06148769 | 1.62968E-08 | 200186 | CRTC2 |
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| 0.061412815 | 1.69625E-08 | 946 | SIGLEC6 |
| 0.061359581 | 1.74518E-08 | 3418 | IDH2 |
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| 0.061331358 | 1.77167E-08 | 4500 | MT1L |
| 0.061329879 | 1.77308E-08 | 10901 | DHRS4 |
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| 0.061256647 | 1.84371E-08 | 8498 | RANBP3 |
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| 0.061218634 | 1.88145E-08 | 548645 | DNAJC25 |
| 0.061218143 | 1.88194E-08 | 94234 | FOXQ1 |
| 0.06119971 | 1.90052E-08 | 54956 | PARP16 |
| 0.061192304 | 1.90803E-08 | 1271 | CNTFR |
| 0.061174531 | 1.92617E-08 | 23085 | ERC1 |
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| 0.061072506 | 2.03361E-08 | 9945 | GFPT2 |
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| 0.060755726 | 2.40562E-08 | 494197 | SPANXN5 |
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| 0.060097318 | 3.40181E-08 | 124583 | CANT1 |
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| 0.103474908 | 0.546766579 | 0.567 | 1 | 9202 | ZMYM4 |
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| 0.102960095 | 0.548773944 | 0.537 | 1 | 84970 | C1orf94 |
| 0.102960095 | 0.548773944 | 0.519 | 1 | 155061 | ZNF746 |
| 0.102960095 | 0.548773944 | 0.563 | 1 | 723972 | ANP32AP1 |
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| 0.102960095 | 0.548773944 | 0.509 | 1 | 768096 | HAR1A |
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| 0.1027027 | 0.549778759 | 0.537 | 1 | 79572 | ATP13A3 |
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| 0.1027027 | 0.549778759 | 0.536 | 1 | 93487 | MAPK1IP1L |
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| 0.1027027 | 0.549778759 | 0.525 | 1 | 127579 | DCST2 |
| 0.1027027 | 0.549778759 | 0.526 | 1 | 645249 | RP5-1121A15.1 |
| 0.1027027 | 0.549778759 | 0.52 | 1 | 646424 | SPINK8 |
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| 0.102445297 | 0.550784349 | 0.533 | 1 | 9689 | BZW1 |
| 0.102445297 | 0.550784349 | 0.513 | 1 | 10867 | TSPAN9 |
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| 0.101930499 | 0.552798748 | 0.543 | 1 | 353131 | LCE1A |
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| 0.101673096 | 0.55380702 | 0.516 | 1 | 2262 | GPC5 |
| 0.101673096 | 0.55380702 | 0.521 | 1 | 4799 | NFX1 |
| 0.101673096 | 0.55380702 | 0.515 | 1 | 90075 | ZNF30 |
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| 0.101415701 | 0.554816127 | 0.533 | 1 | 6863 | TAC1 |
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| 0.101415701 | 0.554816127 | 0.563 | 1 | 56848 | SPHK2 |
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| 0.101158299 | 0.555826128 | 0.539 | 1 | 11284 | PNKP |
| 0.101158299 | 0.555826128 | 0.553 | 1 | 83259 | PCDH11Y |
| 0.101158299 | 0.555826128 | 0.559 | 1 | 83868 | TTTY13 |
| 0.101158299 | 0.555826128 | 0.557 | 1 | 147172 | LRRC37BP1 |
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| 0.100900903 | 0.556837559 | 0.528 | 1 | 5306 | PITPNA |
| 0.100900903 | 0.556837559 | 0.528 | 1 | 29944 | PNMA3 |
| 0.100900903 | 0.556837559 | 0.541 | 1 | 90199 | WFDC8 |
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| 0.100643501 | 0.557849288 | 0.536 | 1 | 116987 | AGAP1 |
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| 0.100386098 | 0.558861852 | 0.531 | 1 | 8027 | STAM |
| 0.100386098 | 0.558861852 | 0.553 | 1 | 23787 | MTCH1 |
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| 0.100386098 | 0.558861852 | 0.555 | 1 | 50486 | G0S2 |
| 0.100386098 | 0.558861852 | 0.529 | 1 | 378825 | LINC00162 |
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| 0.100128703 | 0.559875369 | 0.578 | 1 | 144453 | BEST3 |
| 0.100128703 | 0.559875369 | 0.537 | 1 | 155382 | VPS37D |
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| 0.059591297 | 4.42899E-08 | 50810 | AC024270.1 |
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| 0.059428383 | 4.81952E-08 | 1010 | CDH12 |
| 0.059413817 | 4.85602E-08 | 401172 | CTD-2324F15.2 |
| 0.059410032 | 4.86554E-08 | 147495 | APCDD1 |
| 0.059403449 | 4.88216E-08 | 100132249 | LOC100132249 |
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| 0.059315 | 5.11079E-08 | 55718 | POLR3E |
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| 0.059218071 | 5.37325E-08 | 222229 | LRWD1 |
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| 0.0998713 | 0.560889661 | 0.553 | 1 | 80036 | TRPM3 |
| 0.0998713 | 0.560889661 | 0.53 | 1 | 219623 | TMEM26 |
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| 0.099613898 | 0.561905384 | 0.523 | 1 | 23274 | CLEC16A |
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| 0.099613898 | 0.561905384 | 0.545 | 1 | 286826 | LIN9 |
| 0.099356495 | 0.562921405 | 0.545 | 1 | 3266 | ERAS |
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| 0.098584294 | 0.56597513 | 0.559 | 1 | 169044 | COL22A1 |
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| 0.098326899 | 0.566994607 | 0.561 | 1 | 440689 | HIST2H2BF |
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| 0.098069496 | 0.56801492 | 0.548 | 1 | 649946 | RPL23AP64 |
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| 0.097812094 | 0.569036067 | 0.547 | 1 | 2689 | GH2 |
| 0.097812094 | 0.569036067 | 0.557 | 1 | 4160 | MC4R |
| 0.097812094 | 0.569036067 | 0.565 | 1 | 5009 | OTC |
| 0.097812094 | 0.569036067 | 0.548 | 1 | 8417 | STX7 |
| 0.097812094 | 0.569036067 | 0.556 | 1 | 51031 | GLOD4 |
| 0.097812094 | 0.569036067 | 0.541 | 1 | 81872 | KRTAP2-3 |
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| 0.097554699 | 0.570058048 | 0.569 | 1 | 23481 | PES1 |
| 0.097554699 | 0.570058048 | 0.545 | 1 | 26747 | NUFIP1 |
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| 0.097554699 | 0.570058048 | 0.576 | 1 | 92736 | OTOP2 |
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| 0.096525095 | 0.574155033 | 0.574 | 1 | 63027 | SLC22A23 |
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| 0.057757352 | 1.1322E-07 | 282966 | C10orf53 |
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| 0.057698108 | 1.16651E-07 | 132430 | PABPC4L |
| 0.057688896 | 1.17193E-07 | 84154 | RPF2 |
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| 0.057274368 | 1.44299E-07 | 387646 | RP11-85G18.4 |
| 0.057266466 | 1.4487E-07 | 5889 | RAD51C |
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| 0.056334563 | 2.30062E-07 | 285761 | DCBLD1 |
| 0.05632576 | 2.31061E-07 | 2675 | GFRA2 |
| 0.056321315 | 2.31568E-07 | 653509 | SFTPA1 |

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| 0.095752895 | 0.577236712 | 0.562 | 1 | 51776 | ZAK |
| 0.095752895 | 0.577236712 | 0.553 | 1 | 80256 | KIAA1539 |
| 0.095752895 | 0.577236712 | 0.537 | 1 | 115265 | DDIT4L |
| 0.095495492 | 0.578265488 | 0.55 | 1 | 533 | ATP6V0B |
| 0.095495492 | 0.578265488 | 0.569 | 1 | 23650 | TRIM29 |
| 0.095495492 | 0.578265488 | 0.583 | 1 | 203510 | HMGB3P30 |
| 0.095495492 | 0.578265488 | 0.562 | 1 | 347240 | KIF24 |
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| 0.09523809 | 0.579295456 | 0.552 | 1 | 23348 | DOCK9 |
| 0.09523809 | 0.579295456 | 0.586 | 1 | 50856 | CLEC4A |
| 0.09523809 | 0.579295456 | 0.56 | 1 | 54511 | HMGCLL1 |
| 0.09523809 | 0.579295456 | 0.564 | 1 | 60558 | GUF1 |
| 0.09523809 | 0.579295456 | 0.584 | 1 | 79154 | DHRS11 |
| 0.09523809 | 0.579295456 | 0.569 | 1 | 144717 | FAM109A |
| 0.09523809 | 0.579295456 | 0.562 | 1 | 171389 | NLRP6 |
| 0.09523809 | 0.579295456 | 0.576 | 1 | 283150 | FOXR1 |
| 0.09523809 | 0.579295456 | 0.572 | 1 | 386674 | KRTAP10-6 |
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| 0.094980694 | 0.580325902 | 0.54 | 1 | 23143 | LRCH1 |
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| 0.094980694 | 0.580325902 | 0.571 | 1 | 84630 | TTBK1 |
| 0.094980694 | 0.580325902 | 0.568 | 1 | 222537 | HS3ST5 |
| 0.094980694 | 0.580325902 | 0.574 | 1 | 442444 | FAM47C |
| 0.094723292 | 0.581357121 | 0.571 | 1 | 3598 | IL13RA2 |
| 0.094723292 | 0.581357121 | 0.595 | 1 | 11052 | CPSF6 |
| 0.094723292 | 0.581357121 | 0.519 | 1 | 55957 | LIN37 |
| 0.094723292 | 0.581357121 | 0.583 | 1 | 79906 | MORN1 |
| 0.094723292 | 0.581357121 | 0.558 | 1 | 93109 | TMEM44 |
| 0.094723292 | 0.581357121 | 0.559 | 1 | 405753 | DUOXA2 |
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| 0.094465896 | 0.582389176 | 0.588 | 1 | 54662 | TBC1D13 |
| 0.094465896 | 0.582389176 | 0.577 | 1 | 389813 | AL355987.1 |
| 0.094208494 | 0.583422065 | 0.558 | 1 | 1634 | DCN |
| 0.094208494 | 0.583422065 | 0.55 | 1 | 1964 | EIF1AX |
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| 0.094208494 | 0.583422065 | 0.566 | 1 | 56971 | CEACAM19 |
| 0.094208494 | 0.583422065 | 0.579 | 1 | 64975 | MRPL41 |
| 0.094208494 | 0.583422065 | 0.569 | 1 | 79629 | OCEL1 |
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| 0.094208494 | 0.583422065 | 0.58 | 1 | 112597 | LINC00152 |
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| 0.093951091 | 0.584456265 | 0.536 | 1 | 83461 | CDCA3 |
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| 0.093693696 | 0.585490823 | 0.579 | 1 | 6045 | RNF2 |
| 0.093693696 | 0.585490823 | 0.543 | 1 | 54995 | OXSM |
| 0.093436293 | 0.586526096 | 0.586 | 1 | 2862 | MLNR |
| 0.093436293 | 0.586526096 | 0.547 | 1 | 3196 | TLX2 |
| 0.093436293 | 0.586526096 | 0.576 | 1 | 3242 | HPD |
| 0.093436293 | 0.586526096 | 0.585 | 1 | 10432 | RBM14 |
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| 0.093178898 | 0.587562323 | 0.605 | 1 | 6978 | TRGV5 |
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| 0.093178898 | 0.587562323 | 0.566 | 1 | 10673 | TNFSF13B |
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| 0.093178898 | 0.587562323 | 0.557 | 1 | 121340 | SP7 |
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| 0.092921495 | 0.588599801 | 0.586 | 1 | 441461 | RP11-60I3.5 |
| 0.092664085 | 0.589637578 | 0.589 | 1 | 3430 | IFI35 |
| 0.092664085 | 0.589637578 | 0.558 | 1 | 7776 | ZNF236 |
| 0.092664085 | 0.589637578 | 0.566 | 1 | 8991 | SELENBP1 |
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| 0.055169474 | 4.06071E-07 | 4063 | LY9 |
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| 0.09240669 | 0.590676188 | 0.561 | 1 | 4522 | MTHFD1 |
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| 0.09240669 | 0.590676188 | 0.606 | 1 | 57161 | PELI2 |
| 0.09240669 | 0.590676188 | 0.567 | 1 | 85439 | STON2 |
| 0.09240669 | 0.590676188 | 0.594 | 1 | 126549 | ANKLE1 |
| 0.092149287 | 0.591715634 | 0.532 | 1 | 112 | ADCY6 |
| 0.092149287 | 0.591715634 | 0.563 | 1 | 2301 | FOXE3 |
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| 0.091891885 | 0.592756331 | 0.586 | 1 | 25782 | RAB3GAP2 |
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| 0.091891885 | 0.592756331 | 0.598 | 1 | 283373 | ANKRD52 |
| 0.091891885 | 0.592756331 | 0.579 | 1 | 284306 | ZNF547 |
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| 0.09163449 | 0.593797386 | 0.577 | 1 | 93129 | ORAI3 |
| 0.09163449 | 0.593797386 | 0.596 | 1 | 140902 | R3HDML |
| 0.091377087 | 0.594839275 | 0.608 | 1 | 220 | ALDH1A3 |
| 0.091377087 | 0.594839275 | 0.561 | 1 | 3454 | IFNAR1 |
| 0.091377087 | 0.594839275 | 0.583 | 1 | 63950 | DMRTA2 |
| 0.091377087 | 0.594839275 | 0.578 | 1 | 80823 | BHLHB9 |
| 0.091119692 | 0.595881999 | 0.551 | 1 | 949 | SCARB1 |
| 0.091119692 | 0.595881999 | 0.585 | 1 | 1810 | DR1 |
| 0.091119692 | 0.595881999 | 0.578 | 1 | 27086 | FOXP1 |
| 0.091119692 | 0.595881999 | 0.587 | 1 | 29935 | RPA4 |
| 0.091119692 | 0.595881999 | 0.576 | 1 | 79133 | C20orf7 |
| 0.090862289 | 0.596925437 | 0.565 | 1 | 759 | CA1 |
| 0.090862289 | 0.596925437 | 0.571 | 1 | 3096 | HIVEP1 |
| 0.090862289 | 0.596925437 | 0.59 | 1 | 7117 | TMSB4XP8 |
| 0.090862289 | 0.596925437 | 0.585 | 1 | 10295 | BCKDK |
| 0.090862289 | 0.596925437 | 0.579 | 1 | 84162 | KIAA1109 |
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| 0.090862289 | 0.596925437 | 0.563 | 1 | 140832 | WFDC10A |
| 0.090862289 | 0.596925437 | 0.58 | 1 | 161582 | DYX1C1-CCPG1 |
| 0.090862289 | 0.596925437 | 0.593 | 1 | 253512 | SLC25A30 |
| 0.090604886 | 0.597970247 | 0.579 | 1 | 1446 | CSN1S1 |
| 0.090604886 | 0.597970247 | 0.583 | 1 | 10203 | CALCRL |
| 0.090604886 | 0.597970247 | 0.599 | 1 | 51666 | ASB4 |
| 0.090604886 | 0.597970247 | 0.598 | 1 | 64798 | DEPDC6 |
| 0.090604886 | 0.597970247 | 0.603 | 1 | 116969 | ART5 |
| 0.090604886 | 0.597970247 | 0.558 | 1 | 284067 | C17orf105 |
| 0.090347491 | 0.599015236 | 0.6 | 1 | 2516 | NR5A1 |
| 0.090347491 | 0.599015236 | 0.574 | 1 | 90853 | SPOCD1 |
| 0.090347491 | 0.599015236 | 0.577 | 1 | 259282 | BOD1L |
| 0.090347491 | 0.599015236 | 0.6 | 1 | 644943 | RASSF10 |
| 0.090090089 | 0.600061238 | 0.584 | 1 | 1036 | CDO1 |
| 0.090090089 | 0.600061238 | 0.602 | 1 | 1129 | CHRM2 |
| 0.090090089 | 0.600061238 | 0.598 | 1 | 3697 | ITIH1 |
| 0.090090089 | 0.600061238 | 0.584 | 1 | 6934 | TCF7L2 |
| 0.090090089 | 0.600061238 | 0.593 | 1 | 54897 | CASZ1 |
| 0.090090089 | 0.600061238 | 0.604 | 1 | 84343 | HPS3 |
| 0.090090089 | 0.600061238 | 0.588 | 1 | 121053 | C12orf45 |
| 0.090090089 | 0.600061238 | 0.608 | 1 | 147700 | KLC3 |
| 0.089832693 | 0.601107895 | 0.568 | 1 | 7784 | ZP3 |
| 0.089832693 | 0.601107895 | 0.567 | 1 | 92305 | TMEM129 |
| 0.089575291 | 0.602155805 | 0.609 | 1 | 925 | CD8A |
| 0.089575291 | 0.602155805 | 0.587 | 1 | 2248 | FGF3 |
| 0.089575291 | 0.602155805 | 0.558 | 1 | 5948 | RBP2 |
| 0.089575291 | 0.602155805 | 0.63 | 1 | 8630 | HSD17B6 |
| 0.089575291 | 0.602155805 | 0.588 | 1 | 143678 | AC068385.1 |
| 0.089575291 | 0.602155805 | 0.593 | 1 | 150763 | GPAT2 |
| 0.089575291 | 0.602155805 | 0.58 | 1 | 408186 | OVOS |
| 0.089317888 | 0.603204131 | 0.582 | 1 | 23591 | FAM215A |
| 0.089317888 | 0.603204131 | 0.606 | 1 | 25939 | SAMHD1 |
| 0.089317888 | 0.603204131 | 0.582 | 1 | 28952 | CCDC22 |
| 0.089317888 | 0.603204131 | 0.616 | 1 | 54905 | CYP2W1 |
| 0.089317888 | 0.603204131 | 0.572 | 1 | 146853 | C17orf50 |
| 0.089317888 | 0.603204131 | 0.623 | 1 | 147804 | CTD-2224J9.2 |
| 0.089317888 | 0.603204131 | 0.566 | 1 | 152485 | ZNF827 |
| 0.089060485 | 0.604253113 | 0.59 | 1 | 1071 | CETP |
| 0.089060485 | 0.604253113 | 0.624 | 1 | 1513 | CTSK |
| 0.089060485 | 0.604253113 | 0.592 | 1 | 5717 | PSMD11 |
| 0.089060485 | 0.604253113 | 0.62 | 1 | 338440 | ANO9 |
| 0.089060485 | 0.604253113 | 0.606 | 1 | 400966 | RGPD1 |
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| 0.054456349 | 5.71798E-07 | 196483 | FAM86A |
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| 0.054444585 | 5.75015E-07 | 642757 | FLJ32756 |
| 0.054443188 | 5.75396E-07 | 8727 | CTNNAL1 |
| 0.054403611 | 5.86357E-07 | 1041 | CDSN |
| 0.054352514 | 6.00804E-07 | 54825 | PCDH24 |
| 0.054305613 | 6.14367E-07 | 6620 | SNCB |
| 0.054274019 | 6.23669E-07 | 4773 | NFATC2 |
| 0.054246865 | 6.31773E-07 | 26093 | CCDC9 |
| 0.054228105 | 6.37431E-07 | 79581 | GPR172A |
| 0.054202762 | 6.45151E-07 | 30968 | STOML2 |
| 0.054188281 | 6.49602E-07 | 26276 | VPS33B |
| 0.05416327 | 6.57361E-07 | 23291 | FBXW11 |
| 0.054162446 | 6.57619E-07 | 23002 | DAAM1 |
| 0.054154381 | 6.60139E-07 | 10083 | USH1C |
| 0.05414566 | 6.62877E-07 | 10943 | MSL3 |
| 0.054105591 | 6.75595E-07 | 132660 | LIN54 |
| 0.054090206 | 6.80539E-07 | 220963 | SLC16A9 |
| 0.054083373 | 6.82748E-07 | 7317 | UBA1 |
| 0.05408214 | 6.83148E-07 | 84444 | DOT1L |
| 0.054040097 | 6.96891E-07 | 89932 | PAPLN |
| 0.053957321 | 7.24733E-07 | 199223 | TTC21A |
| 0.053950246 | 7.27161E-07 | 5739 | PTGIR |
| 0.053936586 | 7.31871E-07 | 83959 | SLC4A11 |
| 0.053908035 | 7.41815E-07 | 2888 | GRB14 |
| 0.053892072 | 7.47432E-07 | 84896 | ATAD1 |
| 0.053881049 | 7.51333E-07 | 54361 | WNT4 |
| 0.05386591 | 7.56721E-07 | 64241 | ABCG8 |
| 0.053858995 | 7.59198E-07 | 339059 | AC138028.2 |
| 0.053857435 | 7.59757E-07 | 83887 | TTLL2 |
| 0.053781983 | 7.8729E-07 | 286023 | AC009365.1 |
| 0.053774249 | 7.90164E-07 | 140612 | ZFP28 |
| 0.05377005 | 7.91729E-07 | 4591 | TRIM37 |
| 0.053735904 | 8.04572E-07 | 257218 | SHPRH |
| 0.053657409 | 8.34859E-07 | 54922 | RASIP1 |
| 0.05365634 | 8.35279E-07 | 91050 | CCDC149 |
| 0.053636346 | 8.43172E-07 | 167838 | TXLNB |
| 0.053625979 | 8.47292E-07 | 64207 | C14orf4 |
| 0.053621948 | 8.48899E-07 | 129563 | DIS3L2 |
| 0.053612486 | 8.52685E-07 | 729059 | RP4-805N21.1 |
| 0.053603023 | 8.56485E-07 | 158326 | FREM1 |
| 0.053483471 | 9.05933E-07 | 3902 | LAG3 |
| 0.053469069 | 9.12072E-07 | 740 | MRPL49 |
| 0.053391811 | 9.457E-07 | 100130449 | AC110619.2 |
| 0.053377658 | 9.51987E-07 | 3074 | HEXB |
| 0.053371485 | 9.54742E-07 | 337967 | KRTAP6-2 |
| 0.05330015 | 9.8714E-07 | 286016 | TPI1P2 |
| 0.053292498 | 9.90677E-07 | 4674 | NAP1L2 |
| 0.053283118 | 9.95029E-07 | 5329 | PLAUR |
| 0.053265758 | 1.00313E-06 | 154743 | C7orf60 |
| 0.053240001 | 1.01528E-06 | 126668 | TDRD10 |
| 0.053202316 | 1.0333E-06 | 85026 | C9orf37 |
| 0.053180762 | 1.04374E-06 | 56907 | SPIRE1 |
| 0.053179525 | 1.04434E-06 | 133874 | AC034199.2 |
| 0.053178538 | 1.04483E-06 | 64218 | SEMA4A |
| 0.053157721 | 1.05502E-06 | 10412 | NSA2 |
| 0.053036604 | 1.11626E-06 | 26528 | DAZAP1 |
| 0.05301974 | 1.12505E-06 | 252995 | FNDC5 |
| 0.053001966 | 1.13439E-06 | 54681 | P4HTM |
| 0.052983042 | 1.14442E-06 | 26035 | GLCE |
| 0.052980985 | 1.14551E-06 | 8833 | GMPS |
| 0.052979831 | 1.14612E-06 | 23127 | GLT25D2 |
| 0.05292495 | 1.17573E-06 | 3067 | HDC |
| 0.052898455 | 1.19028E-06 | 85290 | KRTAP4-3 |
| 0.052820537 | 1.23409E-06 | 57109 | REXO4 |
| 0.052818645 | 1.23518E-06 | 2615 | LRRC32 |
| 0.052759074 | 1.26974E-06 | 27123 | DKK2 |
| 0.052748706 | 1.27585E-06 | 202299 | C5ORF27 |
| 0.052715793 | 1.29544E-06 | 10642 | IGF2BP1 |
| 0.052659843 | 1.32939E-06 | 8483 | CILP |
| 0.052653261 | 1.33345E-06 | 84923 | FAM104A |
| 0.052650135 | 1.33538E-06 | 339829 | CCDC39 |
| 0.052639768 | 1.34179E-06 | 286042 | AC068020.3 |
| 0.052622076 | 1.3528E-06 | 729515 | TMEM242 |
| 0.052614756 | 1.35738E-06 | 170575 | GIMAP1 |
| 0.052606691 | 1.36245E-06 | 8547 | FCN3 |
| 0.052604139 | 1.36406E-06 | 10544 | PROCR |
| 0.052590236 | 1.37284E-06 | 9861 | PSMD6 |
| 0.052570324 | 1.38552E-06 | 55753 | OGDHL |
| 0.052515112 | 1.42126E-06 | 4850 | CNOT4 |
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| 0.088803083 | 0.605302989 | 0.587 | 1 | 3855 | KRT7 |
| 0.088803083 | 0.605302989 | 0.583 | 1 | 89891 | WDR34 |
| 0.088803083 | 0.605302989 | 0.575 | 1 | 386653 | IL31 |
| 0.088545687 | 0.606354117 | 0.559 | 1 | 4232 | MEST |
| 0.088545687 | 0.606354117 | 0.586 | 1 | 7409 | VAV1 |
| 0.088545687 | 0.606354117 | 0.594 | 1 | 11244 | ZHX1 |
| 0.088545687 | 0.606354117 | 0.611 | 1 | 64150 | DIO3OS |
| 0.088545687 | 0.606354117 | 0.604 | 1 | 136259 | KLF14 |
| 0.088545687 | 0.606354117 | 0.548 | 1 | 767846 | PFN1P2 |
| 0.088288285 | 0.607405543 | 0.586 | 1 | 3235 | HOXD9 |
| 0.088288285 | 0.607405543 | 0.611 | 1 | 4829 | NMBR |
| 0.088288285 | 0.607405543 | 0.588 | 1 | 6397 | SEC14L1 |
| 0.088288285 | 0.607405543 | 0.59 | 1 | 7454 | WAS |
| 0.088288285 | 0.607405543 | 0.568 | 1 | 10560 | SLC19A2 |
| 0.088288285 | 0.607405543 | 0.597 | 1 | 51458 | RHCG |
| 0.088288285 | 0.607405543 | 0.62 | 1 | 57062 | DDX24 |
| 0.088288285 | 0.607405543 | 0.588 | 1 | 84865 | CCDC142 |
| 0.088288285 | 0.607405543 | 0.614 | 1 | 91408 | BTF3L4 |
| 0.088288285 | 0.607405543 | 0.579 | 1 | 221914 | GPC2 |
| 0.088288285 | 0.607405543 | 0.607 | 1 | 353141 | LCE2D |
| 0.088030882 | 0.608457804 | 0.578 | 1 | 3217 | HOXB7 |
| 0.088030882 | 0.608457804 | 0.599 | 1 | 8449 | DHX16 |
| 0.088030882 | 0.608457804 | 0.579 | 1 | 9657 | IQCB1 |
| 0.088030882 | 0.608457804 | 0.597 | 1 | 51309 | ARMCX1 |
| 0.088030882 | 0.608457804 | 0.608 | 1 | 79175 | ZNF343 |
| 0.088030882 | 0.608457804 | 0.608 | 1 | 338879 | RNASE10 |
| 0.087516084 | 0.61056459 | 0.61 | 1 | 3061 | HCRTR1 |
| 0.087516084 | 0.61056459 | 0.591 | 1 | 54906 | C10orf18 |
| 0.087516084 | 0.61056459 | 0.613 | 1 | 92659 | MAFG-AS1 |
| 0.087258689 | 0.611619651 | 0.598 | 1 | 317 | APAF1 |
| 0.087258689 | 0.611619651 | 0.597 | 1 | 51755 | CRKRS |
| 0.087258689 | 0.611619651 | 0.591 | 1 | 55007 | FAM118A |
| 0.087258689 | 0.611619651 | 0.571 | 1 | 56992 | KIF15 |
| 0.087258689 | 0.611619651 | 0.596 | 1 | 57381 | RHOJ |
| 0.087258689 | 0.611619651 | 0.586 | 1 | 79230 | ZNF557 |
| 0.087258689 | 0.611619651 | 0.596 | 1 | 83538 | TTC25 |
| 0.087258689 | 0.611619651 | 0.618 | 1 | 643783 | USP46-AS1 |
| 0.087001286 | 0.612675011 | 0.604 | 1 | 4107 | MAGEA8 |
| 0.087001286 | 0.612675011 | 0.59 | 1 | 26341 | OR5H1 |
| 0.087001286 | 0.612675011 | 0.587 | 1 | 85360 | SYDE1 |
| 0.087001286 | 0.612675011 | 0.599 | 1 | 91768 | CABLES1 |
| 0.087001286 | 0.612675011 | 0.592 | 1 | 140706 | C20orf160 |
| 0.086743884 | 0.613731146 | 0.591 | 1 | 105 | ADARB2 |
| 0.086743884 | 0.613731146 | 0.604 | 1 | 923 | CD6 |
| 0.086743884 | 0.613731146 | 0.594 | 1 | 3481 | IGF2 |
| 0.086743884 | 0.613731146 | 0.593 | 1 | 5080 | PAX6 |
| 0.086743884 | 0.613731146 | 0.603 | 1 | 7549 | ZNF2 |
| 0.086743884 | 0.613731146 | 0.581 | 1 | 286514 | MAGEB18 |
| 0.086743884 | 0.613731146 | 0.604 | 1 | 340888 | LOC340888 |
| 0.086743884 | 0.613731146 | 0.614 | 1 | 373863 | DND1 |
| 0.086486489 | 0.614787996 | 0.587 | 1 | 1774 | DNASE1L1 |
| 0.086486489 | 0.614787996 | 0.595 | 1 | 11211 | FZD10 |
| 0.086486489 | 0.614787996 | 0.592 | 1 | 55003 | PAK1IP1 |
| 0.086486489 | 0.614787996 | 0.645 | 1 | 128308 | MRPL55 |
| 0.086229086 | 0.615846217 | 0.607 | 1 | 5373 | PMM2 |
| 0.086229086 | 0.615846217 | 0.596 | 1 | 9702 | CEP57 |
| 0.086229086 | 0.615846217 | 0.6 | 1 | 23284 | LPHN3 |
| 0.086229086 | 0.615846217 | 0.601 | 1 | 130074 | FAM168B |
| 0.086229086 | 0.615846217 | 0.594 | 1 | 402665 | IGLON5 |
| 0.086229086 | 0.615846217 | 0.609 | 1 | 100289350 | LOC100289350 |
| 0.085971691 | 0.616904616 | 0.599 | 1 | 291 | SLC25A4 |
| 0.085971691 | 0.616904616 | 0.604 | 1 | 6330 | SCN4B |
| 0.085971691 | 0.616904616 | 0.603 | 1 | 7048 | TGFBR2 |
| 0.085971691 | 0.616904616 | 0.595 | 1 | 59352 | LGR6 |
| 0.085971691 | 0.616904616 | 0.611 | 1 | 79754 | ASB13 |
| 0.085971691 | 0.616904616 | 0.603 | 1 | 80310 | PDGFD |
| 0.085714288 | 0.61796385 | 0.604 | 1 | 2637 | GBX2 |
| 0.085714288 | 0.61796385 | 0.595 | 1 | 4151 | MB |
| 0.085714288 | 0.61796385 | 0.602 | 1 | 6434 | TRA2B |
| 0.085714288 | 0.61796385 | 0.614 | 1 | 6911 | TBX6 |
| 0.085714288 | 0.61796385 | 0.579 | 1 | 9108 | MTMR7 |
| 0.085714288 | 0.61796385 | 0.609 | 1 | 9771 | RAPGEF5 |
| 0.085714288 | 0.61796385 | 0.594 | 1 | 23580 | CDC42EP4 |
| 0.085714288 | 0.61796385 | 0.595 | 1 | 51107 | APH1A |
| 0.085714288 | 0.61796385 | 0.592 | 1 | 89958 | C9orf140 |
| 0.085456878 | 0.619023919 | 0.571 | 1 | 5676 | PSG7 |
| 0.085456878 | 0.619023919 | 0.621 | 1 | 10092 | ARPC5 |
| 0.085456878 | 0.619023919 | 0.623 | 1 | 56158 | TEX12 |
| 0.085456878 | 0.619023919 | 0.622 | 1 | 59342 | SCPEP1 |
| 0.085456878 | 0.619023919 | 0.6 | 1 | 157869 | C8orf84 |
| 0.085199483 | 0.620085061 | 0.603 | 1 | 3801 | KIFC3 |
| 0.085199483 | 0.620085061 | 0.606 | 1 | 22948 | CCT5 |

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| 0.052428473 | 1.47914E-06 | 60673 | C12orf44 |
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| 0.05230061 | 1.56871E-06 | 734 | OSGIN2 |
| 0.052296083 | 1.57198E-06 | 2027 | ENO3 |
| 0.052252062 | 1.60407E-06 | 80183 | C13orf18 |
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| 0.052233715 | 1.61763E-06 | 54749 | EPDR1 |
| 0.052192822 | 1.64825E-06 | 729830 | FAM160A1 |
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| 0.05212453 | 1.70064E-06 | 114928 | GPRASP2 |
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| 0.051987778 | 1.81039E-06 | 6495 | SIX1 |
| 0.051976673 | 1.81959E-06 | 441212 | RP9P |
| 0.051938493 | 1.85159E-06 | 2071 | ERCC3 |
| 0.051890854 | 1.89227E-06 | 84874 | ZNF514 |
| 0.051882133 | 1.8998E-06 | 3990 | LIPC |
| 0.05188131 | 1.90051E-06 | 445577 | C9orf129 |
| 0.051881146 | 1.90066E-06 | 7220 | TRPC1 |
| 0.051857036 | 1.92166E-06 | 112802 | KRT71 |
| 0.051816802 | 1.9572E-06 | 644135 | RP13-143G15.3 |
| 0.051774919 | 1.99487E-06 | 151887 | CCDC80 |
| 0.051737729 | 2.02891E-06 | 5863 | RGL2 |
| 0.051732548 | 2.03369E-06 | 6307 | SC4MOL |
| 0.051711563 | 2.05318E-06 | 6160 | RPL31 |
| 0.051696341 | 2.06744E-06 | 285877 | POM121L12 |
| 0.051657178 | 2.10454E-06 | 57551 | TAOK1 |
| 0.051647138 | 2.11416E-06 | 83659 | TEKT1 |
| 0.051616859 | 2.14341E-06 | 3625 | INHBB |
| 0.051608961 | 2.1511E-06 | 9829 | DNAJC6 |
| 0.051598676 | 2.16116E-06 | 10287 | RGS19 |
| 0.051586829 | 2.1728E-06 | 84529 | C15orf41 |
| 0.051581562 | 2.178E-06 | 220992 | ZNF485 |
| 0.051580738 | 2.17881E-06 | 55130 | ARMC4 |
| 0.051560085 | 2.19931E-06 | 26152 | ZNF337 |
| 0.0515512 | 2.20818E-06 | 4017 | LOXL2 |
| 0.051543713 | 2.21569E-06 | 51438 | MAGEC2 |
| 0.051541161 | 2.21825E-06 | 7773 | ZNF230 |
| 0.051534496 | 2.22496E-06 | 56925 | LXN |
| 0.051528163 | 2.23135E-06 | 1415 | CRYBB2 |
| 0.051520593 | 2.23902E-06 | 338674 | OR5F1 |
| 0.051517714 | 2.24194E-06 | 53826 | FXYD6 |
| 0.051515572 | 2.24412E-06 | 400512 | AC106739.1 |
| 0.051471554 | 2.28928E-06 | 116988 | AGAP3 |
| 0.051414285 | 2.34935E-06 | 277 | AMY1B |
| 0.051396679 | 2.36813E-06 | 3093 | UBE2K |
| 0.051351506 | 2.41694E-06 | 6338 | SCNN1B |
| 0.051329456 | 2.44112E-06 | 84787 | SUV420H2 |
| 0.051324848 | 2.44621E-06 | 84268 | RPAIN |
| 0.051318675 | 2.45303E-06 | 337963 | KRTAP23-1 |
| 0.051308226 | 2.46463E-06 | 9987 | HNRPDL |
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| 0.051290702 | 2.48419E-06 | 59348 | ZNF350 |
| 0.051243637 | 2.53746E-06 | 114907 | FBXO32 |
| 0.051191799 | 2.59741E-06 | 60672 | MIIP |
| 0.051163413 | 2.63081E-06 | 4987 | OPRL1 |
| 0.051161192 | 2.63344E-06 | 1191 | CLU |
| 0.051142432 | 2.65576E-06 | 83850 | ESYT3 |
| 0.05113906 | 2.65979E-06 | 64137 | ABCG4 |
| 0.051132806 | 2.66729E-06 | 64848 | YTHDC2 |
| 0.051073153 | 2.73978E-06 | 1000 | CDH2 |
| 0.05103695 | 2.78469E-06 | 646096 | CHEK2P2 |
| 0.050936237 | 2.91338E-06 | 4139 | MARK1 |
| 0.050909661 | 2.94827E-06 | 8294 | HIST1H4I |
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| 0.050856836 | 3.01882E-06 | 158228 | FAM201A |
| 0.050849348 | 3.02896E-06 | 8289 | ARID1A |
| 0.050766986 | 3.14258E-06 | 131177 | FAM3D |
| 0.050743867 | 3.17521E-06 | 158798 | AKAP14 |
| 0.050739672 | 3.18115E-06 | 25906 | C11orf51 |
| 0.050731197 | 3.19321E-06 | 767846 | PFN1P2 |
| 0.050698694 | 3.23987E-06 | 389741 | MGC21881 |
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| 0.08494208 | 0.621146619 | 0.637 | 1 | 246329 | STAC3 |
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| 0.084684685 | 0.622208893 | 0.619 | 1 | 10744 | PTTG2 |
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| 0.084684685 | 0.622208893 | 0.594 | 1 | 81839 | VANGL1 |
| 0.084684685 | 0.622208893 | 0.615 | 1 | 83463 | MXD3 |
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| 0.084427282 | 0.623271942 | 0.602 | 1 | 23012 | STK38L |
| 0.084427282 | 0.623271942 | 0.603 | 1 | 54106 | TLR9 |
| 0.084427282 | 0.623271942 | 0.593 | 1 | 400553 | AC134312.1 |
| 0.08416988 | 0.624335706 | 0.614 | 1 | 1938 | EEF2 |
| 0.08416988 | 0.624335706 | 0.62 | 1 | 7150 | TOP1 |
| 0.08416988 | 0.624335706 | 0.592 | 1 | 7265 | TTC1 |
| 0.08416988 | 0.624335706 | 0.637 | 1 | 9375 | TM9SF2 |
| 0.08416988 | 0.624335706 | 0.594 | 1 | 56915 | EXOSC5 |
| 0.08416988 | 0.624335706 | 0.608 | 1 | 64759 | TNS3 |
| 0.08416988 | 0.624335706 | 0.626 | 1 | 84933 | C8orf76 |
| 0.08416988 | 0.624335706 | 0.586 | 1 | 152185 | CCDC52 |
| 0.08416988 | 0.624335706 | 0.624 | 1 | 200726 | LOC200726 |
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| 0.083912484 | 0.625400782 | 0.634 | 1 | 4842 | NOS1 |
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| 0.083912484 | 0.625400782 | 0.611 | 1 | 100038246 | TLX1NB |
| 0.083655082 | 0.626466155 | 0.616 | 1 | 268 | AMH |
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| 0.083655082 | 0.626466155 | 0.613 | 1 | 7046 | TGFBR1 |
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| 0.083655082 | 0.626466155 | 0.643 | 1 | 138799 | OR13C5 |
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| 0.083397686 | 0.627532184 | 0.611 | 1 | 29922 | NME7 |
| 0.083140284 | 0.628598988 | 0.584 | 1 | 154091 | SLC2A12 |
| 0.082882881 | 0.629667103 | 0.622 | 1 | 719 | C3AR1 |
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| 0.082882881 | 0.629667103 | 0.617 | 1 | 23212 | RRS1 |
| 0.082882881 | 0.629667103 | 0.641 | 1 | 116412 | ZNF837 |
| 0.082625486 | 0.630735397 | 0.618 | 1 | 2622 | GAS8 |
| 0.082625486 | 0.630735397 | 0.59 | 1 | 10489 | LRRC41 |
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| 0.082625486 | 0.630735397 | 0.618 | 1 | 353142 | LCE3A |
| 0.082368083 | 0.631804466 | 0.624 | 1 | 795 | S100G |
| 0.082368083 | 0.631804466 | 0.63 | 1 | 6801 | STRN |
| 0.082368083 | 0.631804466 | 0.611 | 1 | 7517 | XRCC3 |
| 0.082368083 | 0.631804466 | 0.611 | 1 | 9287 | TAAR2 |
| 0.082368083 | 0.631804466 | 0.621 | 1 | 57547 | ZNF624 |
| 0.082368083 | 0.631804466 | 0.646 | 1 | 93627 | AC004053.1 |
| 0.082368083 | 0.631804466 | 0.615 | 1 | 159090 | FAM122B |
| 0.082368083 | 0.631804466 | 0.603 | 1 | 100128124 | HGC6.3 |
| 0.082110681 | 0.63287431 | 0.612 | 1 | 4074 | M6PR |
| 0.082110681 | 0.63287431 | 0.6 | 1 | 7258 | TSPY1 |
| 0.082110681 | 0.63287431 | 0.624 | 1 | 10100 | TSPAN2 |
| 0.082110681 | 0.63287431 | 0.623 | 1 | 22950 | SLC4A1AP |
| 0.082110681 | 0.63287431 | 0.618 | 1 | 342510 | CD300E |
| 0.082110681 | 0.63287431 | 0.592 | 1 | 653657 | AC010606.4 |
| 0.081853278 | 0.633945346 | 0.622 | 1 | 2864 | FFAR1 |
| 0.081853278 | 0.633945346 | 0.61 | 1 | 3109 | HLA-DMB |
| 0.081853278 | 0.633945346 | 0.63 | 1 | 64968 | MRPS6 |
| 0.081853278 | 0.633945346 | 0.601 | 1 | 90557 | CCDC74A |
| 0.081853278 | 0.633945346 | 0.62 | 1 | 91782 | CHMP7 |
| 0.081595875 | 0.63501668 | 0.6 | 1 | 3925 | STMN1 |
| 0.081595875 | 0.63501668 | 0.619 | 1 | 9868 | TOMM70A |
| 0.081595875 | 0.63501668 | 0.619 | 1 | 57658 | CALCOCO1 |
| 0.081595875 | 0.63501668 | 0.629 | 1 | 613038 | RP11-347C12.3 |
| 0.08133848 | 0.636088729 | 0.644 | 1 | 590 | BCHE |
| 0.08133848 | 0.636088729 | 0.612 | 1 | 1382 | CRABP2 |
| 0.08133848 | 0.636088729 | 0.612 | 1 | 4316 | MMP7 |
| 0.08133848 | 0.636088729 | 0.617 | 1 | 5626 | PROP1 |
| 0.08133848 | 0.636088729 | 0.644 | 1 | 5733 | PTGER3 |
| 0.08133848 | 0.636088729 | 0.631 | 1 | 6261 | RYR1 |
| 0.08133848 | 0.636088729 | 0.616 | 1 | 27159 | CHIA |

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| 0.050458435 | 3.60565E-06 | 3373 | HYAL1 |
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| 0.050442394 | 3.63143E-06 | 145483 | FAM161B |
| 0.050373606 | 3.74401E-06 | 23657 | SLC7A11 |
| 0.050355341 | 3.77446E-06 | 200845 | KCTD6 |
| 0.050342504 | 3.796E-06 | 84707 | BEX2 |
| 0.050340116 | 3.80003E-06 | 114044 | MCM3AP-AS1 |
| 0.050329175 | 3.8185E-06 | 29765 | TMOD4 |
| 0.050304737 | 3.86007E-06 | 114784 | CSMD2 |
| 0.050303668 | 3.8619E-06 | 162333 | MARCHF10 |
| 0.050300047 | 3.8681E-06 | 91833 | WDR20 |
| 0.050287459 | 3.88972E-06 | 40 | ACCN1 |
| 0.050284907 | 3.89411E-06 | 60685 | ZFAND3 |
| 0.050263681 | 3.93089E-06 | 1805 | DPT |
| 0.050241545 | 3.96959E-06 | 727701 | LINC00165 |
| 0.050230931 | 3.98827E-06 | 100130311 | AC233723.1 |
| 0.050179753 | 4.07955E-06 | 90378 | SAMD1 |
| 0.050170701 | 4.09591E-06 | 26233 | FBXL6 |
| 0.050166588 | 4.10335E-06 | 57666 | FBRSL1 |
| 0.050159842 | 4.1156E-06 | 27294 | DHDH |
| 0.050134663 | 4.16163E-06 | 7125 | TNNC2 |
| 0.050133184 | 4.16435E-06 | 6653 | SORL1 |
| 0.050120018 | 4.18862E-06 | 8106 | PABPN1 |
| 0.050097968 | 4.22959E-06 | 10054 | UBA2 |
| 0.050073776 | 4.27497E-06 | 57488 | ESYT2 |
| 0.050011571 | 4.39383E-06 | 3764 | KCNJ8 |
| 0.049927648 | 4.5592E-06 | 43847 | KLK14 |
| 0.049919091 | 4.5764E-06 | 284106 | CISD3 |
| 0.049900331 | 4.61431E-06 | 79934 | ADCK4 |
| 0.049867582 | 4.6812E-06 | 55920 | RCC2 |
| 0.049833436 | 4.75195E-06 | 79022 | TMEM106C |
| 0.049808834 | 4.80355E-06 | 22823 | MTF2 |
| 0.04978193 | 4.86061E-06 | 7325 | UBE2E2 |
| 0.04977008 | 4.88594E-06 | 25875 | LETMD1 |
| 0.049726389 | 4.98042E-06 | 83607 | AMMECR1L |
| 0.049713638 | 5.00835E-06 | 4495 | MT1G |
| 0.049656779 | 5.13462E-06 | 118 | ADD1 |
| 0.049645919 | 5.15908E-06 | 643037 | LOC643037 |
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| 0.049581904 | 5.30555E-06 | 79785 | RERGL |
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| 0.049554095 | 5.37043E-06 | 222171 | PRR15 |
| 0.049548008 | 5.38473E-06 | 26219 | OR1J4 |
| 0.049518548 | 5.45444E-06 | 57863 | CADM3 |
| 0.049513776 | 5.46581E-06 | 24140 | FTSJ1 |
| 0.049460541 | 5.59425E-06 | 79896 | THNSL1 |
| 0.049452066 | 5.61497E-06 | 64115 | C10orf54 |
| 0.049433142 | 5.66148E-06 | 96610 | LL22NC03-80A10.2 |
| 0.049409691 | 5.71963E-06 | 119695 | OR52R1 |
| 0.049399983 | 5.74386E-06 | 5926 | ARID4A |
| 0.049373325 | 5.81095E-06 | 79805 | VASH2 |
| 0.049360573 | 5.84329E-06 | 4316 | MMP7 |
| 0.04932626 | 5.93118E-06 | 390284 | SRP14P1 |
| 0.049221188 | 6.20829E-06 | 390598 | SKOR1 |
| 0.049213126 | 6.23007E-06 | 2287 | FKBP3 |
| 0.049207859 | 6.24432E-06 | 83547 | RILP |
| 0.049191404 | 6.28907E-06 | 8913 | CACNA1G |
| 0.049151417 | 6.39909E-06 | 148430 | LOC148430 |
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| 0.049093902 | 6.56058E-06 | 9551 | ATP5J2 |
| 0.049084276 | 6.588E-06 | 344 | APOC2 |
| 0.049066257 | 6.63958E-06 | 90060 | CCDC120 |
| 0.049056627 | 6.66732E-06 | 23170 | TTLL12 |
| 0.048975252 | 6.90612E-06 | 728264 | MIR143HG |
| 0.048968919 | 6.92506E-06 | 136895 | C7orf31 |
| 0.048966944 | 6.93096E-06 | 8165 | AKAP1 |
| 0.048961349 | 6.94774E-06 | 150142 | ZNF295-AS1 |
| 0.048898321 | 7.1394E-06 | 84913 | ATOH8 |
| 0.04889651 | 7.14498E-06 | 57544 | TXNDC16 |
| 0.048878409 | 7.20099E-06 | 114821 | SCAND3 |
| 0.048868041 | 7.23329E-06 | 283902 | HTA |
| 0.04884484 | 7.30599E-06 | 55322 | C5orf22 |
| 0.048840806 | 7.3187E-06 | 2580 | GAK |
| 0.048835211 | 7.33638E-06 | 50813 | COPS7A |
| 0.048814561 | 7.40195E-06 | 266629 | SEC14L3 |
| 0.048797529 | 7.45646E-06 | 10955 | SERINC3 |
| 0.048788559 | 7.48532E-06 | 51763 | INPP5K |
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| 0.08133848 | 0.636088729 | 0.63 | 1 | 27258 | LSM3 |
| 0.08133848 | 0.636088729 | 0.628 | 1 | 80097 | FAM128B |
| 0.08133848 | 0.636088729 | 0.606 | 1 | 91687 | CENPL |
| 0.08133848 | 0.636088729 | 0.637 | 1 | 161291 | TMEM30B |
| 0.08133848 | 0.636088729 | 0.592 | 1 | 386683 | KRTAP12-3 |
| 0.081081077 | 0.637161493 | 0.65 | 1 | 226 | ALDOA |
| 0.081081077 | 0.637161493 | 0.628 | 1 | 2837 | UTS2R |
| 0.081081077 | 0.637161493 | 0.601 | 1 | 56001 | NXF2 |
| 0.081081077 | 0.637161493 | 0.637 | 1 | 83896 | KRTAP3-1 |
| 0.081081077 | 0.637161493 | 0.629 | 1 | 162466 | PHOSPHO1 |
| 0.081081077 | 0.637161493 | 0.618 | 1 | 376132 | LRRC10 |
| 0.080823682 | 0.638235033 | 0.64 | 1 | 1912 | PHC2 |
| 0.080823682 | 0.638235033 | 0.633 | 1 | 51232 | CRIM1 |
| 0.080823682 | 0.638235033 | 0.64 | 1 | 83953 | FCAMR |
| 0.080823682 | 0.638235033 | 0.656 | 1 | 85569 | GALP |
| 0.080823682 | 0.638235033 | 0.65 | 1 | 148753 | FAM163A |
| 0.080823682 | 0.638235033 | 0.671 | 1 | 390928 | AC011443.1 |
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| 0.08056628 | 0.639309764 | 0.621 | 1 | 257019 | FRMD3 |
| 0.08056628 | 0.639309764 | 0.605 | 1 | 440348 | NPIPL2 |
| 0.08056628 | 0.639309764 | 0.638 | 1 | 100506084 | AC005829.1 |
| 0.080308877 | 0.640384734 | 0.656 | 1 | 271 | AMPD2 |
| 0.080308877 | 0.640384734 | 0.628 | 1 | 64220 | STRA6 |
| 0.080308877 | 0.640384734 | 0.603 | 1 | 112950 | MED8 |
| 0.080308877 | 0.640384734 | 0.633 | 1 | 121981 | PPIAP26 |
| 0.080051482 | 0.641460419 | 0.644 | 1 | 1380 | CR2 |
| 0.080051482 | 0.641460419 | 0.606 | 1 | 7042 | TGFB2 |
| 0.080051482 | 0.641460419 | 0.623 | 1 | 7691 | ZNF132 |
| 0.080051482 | 0.641460419 | 0.614 | 1 | 22995 | CEP152 |
| 0.080051482 | 0.641460419 | 0.616 | 1 | 153743 | PPP1R2P3 |
| 0.080051482 | 0.641460419 | 0.604 | 1 | 392376 | OR13C2 |
| 0.079794079 | 0.642536819 | 0.619 | 1 | 1286 | COL4A4 |
| 0.079794079 | 0.642536819 | 0.628 | 1 | 5133 | PDCD1 |
| 0.079794079 | 0.642536819 | 0.639 | 1 | 25945 | PVRL3 |
| 0.079794079 | 0.642536819 | 0.624 | 1 | 80320 | SP6 |
| 0.079536684 | 0.643614531 | 0.629 | 1 | 1775 | DNASE1L2 |
| 0.079536684 | 0.643614531 | 0.614 | 1 | 3626 | INHBC |
| 0.079536684 | 0.643614531 | 0.652 | 1 | 10382 | TUBB4 |
| 0.079536684 | 0.643614531 | 0.594 | 1 | 64850 | AGXT2L1 |
| 0.079536684 | 0.643614531 | 0.613 | 1 | 91695 | RRP7B |
| 0.079536684 | 0.643614531 | 0.63 | 1 | 198437 | C20orf201 |
| 0.079536684 | 0.643614531 | 0.626 | 1 | 404281 | YY2 |
| 0.079536684 | 0.643614531 | 0.65 | 1 | 728806 | NSFP1 |
| 0.079279281 | 0.644692421 | 0.648 | 1 | 4720 | NDUFS2 |
| 0.079279281 | 0.644692421 | 0.611 | 1 | 6874 | TAF4 |
| 0.079279281 | 0.644692421 | 0.638 | 1 | 9823 | ARMCX2 |
| 0.079279281 | 0.644692421 | 0.645 | 1 | 29028 | ATAD2 |
| 0.079279281 | 0.644692421 | 0.612 | 1 | 54531 | MIER2 |
| 0.079279281 | 0.644692421 | 0.62 | 1 | 55361 | PI4K2A |
| 0.079279281 | 0.644692421 | 0.638 | 1 | 79672 | FN3KRP |
| 0.079279281 | 0.644692421 | 0.631 | 1 | 84895 | FAM73B |
| 0.079279281 | 0.644692421 | 0.615 | 1 | 147183 | KRT25 |
| 0.079279281 | 0.644692421 | 0.624 | 1 | 378884 | NHLRC1 |
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| 0.079021879 | 0.645771027 | 0.636 | 1 | 84914 | ZNF587 |
| 0.078764483 | 0.646850407 | 0.638 | 1 | 5266 | PI3 |
| 0.078764483 | 0.646850407 | 0.636 | 1 | 10052 | GJC1 |
| 0.078764483 | 0.646850407 | 0.656 | 1 | 23219 | FBXO28 |
| 0.078764483 | 0.646850407 | 0.647 | 1 | 23404 | EXOSC2 |
| 0.078764483 | 0.646850407 | 0.657 | 1 | 728739 | LOC728739 |
| 0.078507073 | 0.64793098 | 0.626 | 1 | 92 | ACVR2A |
| 0.078507073 | 0.64793098 | 0.614 | 1 | 1869 | E2F1 |
| 0.078507073 | 0.64793098 | 0.629 | 1 | 3860 | KRT13 |
| 0.078507073 | 0.64793098 | 0.641 | 1 | 5298 | PI4KB |
| 0.078507073 | 0.64793098 | 0.642 | 1 | 6398 | SECTM1 |
| 0.078507073 | 0.64793098 | 0.628 | 1 | 6891 | TAP2 |
| 0.078507073 | 0.64793098 | 0.631 | 1 | 8404 | SPARCL1 |
| 0.078507073 | 0.64793098 | 0.635 | 1 | 9699 | RIMS2 |
| 0.078507073 | 0.64793098 | 0.638 | 1 | 55048 | VPS37C |
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| 0.078249671 | 0.649011731 | 0.627 | 1 | 4810 | NHS |
| 0.078249671 | 0.649011731 | 0.656 | 1 | 6002 | RGS12 |
| 0.078249671 | 0.649011731 | 0.615 | 1 | 7027 | TFDP1 |
| 0.078249671 | 0.649011731 | 0.64 | 1 | 10237 | SLC35B1 |
| 0.078249671 | 0.649011731 | 0.639 | 1 | 85289 | KRTAP4-5 |
| 0.078249671 | 0.649011731 | 0.651 | 1 | 340146 | SLC35D3 |
| 0.078249671 | 0.649011731 | 0.647 | 1 | 644844 | AC013356.1 |
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| 0.077992275 | 0.650093257 | 0.666 | 1 | 79728 | PALB2 |
| 0.077992275 | 0.650093257 | 0.648 | 1 | 113451 | ADC |
| 0.077992275 | 0.650093257 | 0.635 | 1 | 284340 | CXCL17 |
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| 0.048582859 | 8.17718E-06 | 9158 | FIBP |
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| 0.048416488 | 8.78105E-06 | 649 | BMP1 |
| 0.048348524 | 9.03981E-06 | 56964 | WDR93 |
| 0.048346713 | 9.04682E-06 | 8799 | PEX11B |
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| 0.04821375 | 9.57462E-06 | 131055 | LOC131055 |
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| 0.048200421 | 9.62913E-06 | 27249 | MMADHC |
| 0.048154507 | 9.81914E-06 | 392 | ARHGAP1 |
| 0.048131142 | 9.91724E-06 | 284467 | FAM19A3 |
| 0.048127357 | 9.9332E-06 | 5959 | RDH5 |
| 0.048114683 | 9.98687E-06 | 54839 | LRRC49 |
| 0.048070006 | 1.01783E-05 | 283578 | TMED8 |
| 0.048039645 | 1.03104E-05 | 400916 | CHCHD10 |
| 0.048001632 | 1.0478E-05 | 2981 | GUCA2B |
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| 0.070785068 | 0.680660427 | 0.678 | 1 | 26512 | INTS6 |
| 0.070785068 | 0.680660427 | 0.664 | 1 | 57453 | DSCAML1 |
| 0.070785068 | 0.680660427 | 0.671 | 1 | 100130717 | CECR5-AS1 |
| 0.070527665 | 0.681762338 | 0.686 | 1 | 3588 | IL10RB |
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| 0.045506977 | 2.94361E-05 | 55110 | MAGOHB |
| 0.045481551 | 2.97399E-05 | 283933 | ZNF843 |
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| 0.045421075 | 3.04745E-05 | 5009 | OTC |
| 0.045407664 | 3.06397E-05 | 8643 | PTCH2 |
| 0.045367677 | 3.11374E-05 | 84436 | ZNF528 |
| 0.045344885 | 3.14245E-05 | 4656 | MYOG |
| 0.045333035 | 3.15748E-05 | 6392 | SDHD |
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| 0.045108493 | 3.45545E-05 | 354 | KLK3 |
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| 0.045010746 | 3.59335E-05 | 11076 | TPPP |
| 0.045010582 | 3.59358E-05 | 57469 | PNMAL2 |
| 0.044938009 | 3.69933E-05 | 5608 | MAP2K6 |
| 0.044868648 | 3.80315E-05 | 328 | APEX1 |
| 0.044842072 | 3.84366E-05 | 9421 | HAND1 |
| 0.044814836 | 3.88559E-05 | 85457 | KIAA1737 |
| 0.044784144 | 3.93337E-05 | 79728 | PALB2 |
| 0.044772789 | 3.95119E-05 | 51517 | NCKIPSD |
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| 0.044719554 | 4.03575E-05 | 8326 | FZD9 |
| 0.044716921 | 4.03998E-05 | 7167 | TPI1 |
| 0.044675864 | 4.10643E-05 | 1286 | COL4A4 |
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| 0.044493366 | 4.41456E-05 | 138009 | DCAF4L2 |
| 0.044480696 | 4.43675E-05 | 1757 | SARDH |
| 0.044472795 | 4.45064E-05 | 1584 | CYP11B1 |
| 0.044462264 | 4.46922E-05 | 4354 | MPP1 |
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| 0.0443957 | 4.58835E-05 | 8888 | MCM3AP |
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| 0.04428602 | 4.79124E-05 | 2877 | GPX2 |
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| 0.044222336 | 4.91291E-05 | 27324 | TOX3 |
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| 0.044214685 | 4.92772E-05 | 100130331 | RP11-193H5.1 |
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| 0.043841295 | 5.70438E-05 | 55074 | OXR1 |
| 0.04381768 | 5.75721E-05 | 23528 | ZNF281 |
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| 0.043772839 | 5.85879E-05 | 117154 | DACH2 |
| 0.043749142 | 5.91317E-05 | 10626 | TRIM16 |
| 0.04373252 | 5.95159E-05 | 401634 | GOLGA2P3Y |
| 0.043726679 | 5.96515E-05 | 55323 | LARP6 |
| 0.043706439 | 6.01236E-05 | 84875 | PARP10 |
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| 0.043645717 | 6.1561E-05 | 10717 | AP4B1 |

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| 0.070527665 | 0.681762338 | 0.684 | 1 | 283383 | GPR133 |
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| 0.07027027 | 0.682864368 | 0.685 | 1 | 9310 | ZNF235 |
| 0.07027027 | 0.682864368 | 0.685 | 1 | 170626 | XAGE3 |
| 0.07027027 | 0.682864368 | 0.665 | 1 | 646405 | TPTE2P1 |
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| 0.069755472 | 0.685070455 | 0.69 | 1 | 4259 | MGST3 |
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| 0.069755472 | 0.685070455 | 0.661 | 1 | 647309 | RP11-332P22.1 |
| 0.069755472 | 0.685070455 | 0.688 | 1 | 728695 | SPANXB1 |
| 0.06949807 | 0.686174929 | 0.662 | 1 | 60 | ACTB |
| 0.06949807 | 0.686174929 | 0.704 | 1 | 56110 | PCDHGA5 |
| 0.06949807 | 0.686174929 | 0.678 | 1 | 80835 | TAS1R1 |
| 0.06949807 | 0.686174929 | 0.668 | 1 | 81603 | TRIM8 |
| 0.06949807 | 0.686174929 | 0.676 | 1 | 399806 | FLJ41350 |
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| 0.069240667 | 0.687279582 | 0.673 | 1 | 25884 | CHRDL2 |
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| 0.069240667 | 0.687279582 | 0.664 | 1 | 160428 | ALDH1L2 |
| 0.069240667 | 0.687279582 | 0.667 | 1 | 283237 | TTC9C |
| 0.069240667 | 0.687279582 | 0.679 | 1 | 389634 | RP11-90D4.2 |
| 0.069240667 | 0.687279582 | 0.65 | 1 | 100134713 | RP4-726N20.2 |
| 0.068983272 | 0.688384891 | 0.657 | 1 | 1814 | DRD3 |
| 0.068983272 | 0.688384891 | 0.689 | 1 | 2354 | FOSB |
| 0.068983272 | 0.688384891 | 0.676 | 1 | 6524 | SLC5A2 |
| 0.068983272 | 0.688384891 | 0.659 | 1 | 54619 | CCNJ |
| 0.068983272 | 0.688384891 | 0.68 | 1 | 57551 | TAOK1 |
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| 0.068725869 | 0.689490855 | 0.699 | 1 | 10652 | YKT6 |
| 0.068725869 | 0.689490855 | 0.647 | 1 | 23248 | RPRD2 |
| 0.068725869 | 0.689490855 | 0.683 | 1 | 51588 | PIAS4 |
| 0.068725869 | 0.689490855 | 0.685 | 1 | 146923 | RUNDC1 |
| 0.068468474 | 0.690597415 | 0.692 | 1 | 2208 | FCER2 |
| 0.068468474 | 0.690597415 | 0.697 | 1 | 8861 | LDB1 |
| 0.068468474 | 0.690597415 | 0.68 | 1 | 9040 | UBE2M |
| 0.068468474 | 0.690597415 | 0.669 | 1 | 10528 | NOP56 |
| 0.068211071 | 0.691705108 | 0.675 | 1 | 2167 | FABP4 |
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| 0.068211071 | 0.691705108 | 0.66 | 1 | 80731 | THSD7B |
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| 0.068211071 | 0.691705108 | 0.662 | 1 | 389816 | LRRC26 |
| 0.067953661 | 0.692812979 | 0.676 | 1 | 9465 | AKAP7 |
| 0.067953661 | 0.692812979 | 0.689 | 1 | 11144 | DMC1 |
| 0.067953661 | 0.692812979 | 0.674 | 1 | 79940 | LINC00472 |
| 0.067953661 | 0.692812979 | 0.679 | 1 | 285641 | SLC36A3 |
| 0.067953661 | 0.692812979 | 0.685 | 1 | 347252 | IGFBPL1 |
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| 0.067438863 | 0.69503063 | 0.68 | 1 | 57693 | ZNF317 |
| 0.067438863 | 0.69503063 | 0.692 | 1 | 64816 | CYP3A43 |
| 0.067438863 | 0.69503063 | 0.699 | 1 | 222487 | GPR97 |
| 0.067181468 | 0.696140885 | 0.677 | 1 | 6607 | SMN2 |
| 0.067181468 | 0.696140885 | 0.664 | 1 | 126259 | TMIGD2 |
| 0.066924065 | 0.69725126 | 0.697 | 1 | 55835 | CENPJ |
| 0.066924065 | 0.69725126 | 0.697 | 1 | 65094 | JMJD4 |
| 0.066924065 | 0.69725126 | 0.705 | 1 | 146456 | TMED6 |
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| 0.043640859 | 6.16775E-05 | 3376 | IARS |
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| 0.043154586 | 7.44439E-05 | 5162 | PDHB |
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| 0.043109 | 7.57611E-05 | 3399 | ID3 |
| 0.043102831 | 7.5941E-05 | 3976 | LIF |
| 0.043051489 | 7.74542E-05 | 3954 | LETM1 |
| 0.043048527 | 7.75424E-05 | 54332 | GDAP1 |
| 0.043008126 | 7.87544E-05 | 10221 | TRIB1 |
| 0.042986076 | 7.94235E-05 | 29091 | STXBP6 |
| 0.04297464 | 7.97726E-05 | 56113 | PCDHGA2 |
| 0.042907663 | 8.18464E-05 | 81551 | STMN4 |
| 0.042871129 | 8.29991E-05 | 8328 | GFI1B |
| 0.042844966 | 8.38338E-05 | 150379 | PNPLA5 |
| 0.042843319 | 8.38867E-05 | 162494 | RHBDL3 |
| 0.042797159 | 8.53799E-05 | 598 | BCL2L1 |
| 0.042767867 | 8.63404E-05 | 774 | CACNA1B |
| 0.042766634 | 8.63812E-05 | 54674 | LRRN3 |
| 0.042760544 | 8.65821E-05 | 1810 | DR1 |
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| 0.04275215 | 8.68599E-05 | 4701 | NDUFA7 |
| 0.04270805 | 8.83336E-05 | 3747 | KCNC2 |
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| 0.042450842 | 9.74102E-05 | 9159 | PCSK7 |
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| 0.042420071 | 9.85532E-05 | 439933 | MGC42157 |
| 0.042411018 | 9.88918E-05 | 414157 | C10orf62 |
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| 0.042073339 | 0.000112339 | 84314 | TMEM107 |
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| 0.042012371 | 0.000114944 | 55435 | C4orf16 |
| 0.041995257 | 0.000115685 | 2296 | FOXC1 |
| 0.041961439 | 0.000117163 | 131540 | ZDHHC19 |
| 0.04191561 | 0.000119195 | 125950 | RAVER1 |
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| 0.041884426 | 0.000120596 | 26257 | NKX2-8 |
| 0.041795645 | 0.000124671 | 128308 | MRPL55 |
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| 0.041696496 | 0.000129375 | 83888 | FGFBP2 |
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| 0.066409267 | 0.699473917 | 0.676 | 1 | 10908 | PNPLA6 |
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| 0.066151865 | 0.700586677 | 0.689 | 1 | 10484 | SEC23A |
| 0.066151865 | 0.700586677 | 0.665 | 1 | 25809 | TTLL1 |
| 0.066151865 | 0.700586677 | 0.719 | 1 | 55108 | BSDC1 |
| 0.066151865 | 0.700586677 | 0.677 | 1 | 57414 | RHBDD2 |
| 0.066151865 | 0.700586677 | 0.683 | 1 | 284723 | SLC25A34 |
| 0.066151865 | 0.700586677 | 0.665 | 1 | 284912 | LOC284912 |
| 0.066151865 | 0.700586677 | 0.672 | 1 | 100132977 | LOC100132977 |
| 0.06589447 | 0.701699555 | 0.691 | 1 | 1645 | AKR1C1 |
| 0.06589447 | 0.701699555 | 0.698 | 1 | 1974 | EIF4A2 |
| 0.06589447 | 0.701699555 | 0.664 | 1 | 5590 | PRKCZ |
| 0.06589447 | 0.701699555 | 0.659 | 1 | 6573 | SLC19A1 |
| 0.06589447 | 0.701699555 | 0.705 | 1 | 79161 | C7orf23 |
| 0.065637067 | 0.702813089 | 0.711 | 1 | 10197 | PSME3 |
| 0.065637067 | 0.702813089 | 0.709 | 1 | 54807 | ZNF586 |
| 0.065637067 | 0.702813089 | 0.688 | 1 | 55778 | ZNF839 |
| 0.065637067 | 0.702813089 | 0.714 | 1 | 84649 | DGAT2 |
| 0.065637067 | 0.702813089 | 0.684 | 1 | 254783 | OR6C74 |
| 0.065637067 | 0.702813089 | 0.704 | 1 | 342897 | NCCRP1 |
| 0.065379664 | 0.703927219 | 0.681 | 1 | 552 | AVPR1A |
| 0.065379664 | 0.703927219 | 0.677 | 1 | 1650 | DDOST |
| 0.065379664 | 0.703927219 | 0.706 | 1 | 3954 | LETM1 |
| 0.065379664 | 0.703927219 | 0.707 | 1 | 51132 | RLIM |
| 0.065379664 | 0.703927219 | 0.695 | 1 | 221091 | LRRN4CL |
| 0.065379664 | 0.703927219 | 0.697 | 1 | 390151 | OR8H2 |
| 0.065122269 | 0.705041945 | 0.702 | 1 | 116519 | APOA5 |
| 0.065122269 | 0.705041945 | 0.698 | 1 | 389432 | SAMD5 |
| 0.064607456 | 0.707273722 | 0.707 | 1 | 495 | ATP4A |
| 0.064607456 | 0.707273722 | 0.697 | 1 | 2066 | ERBB4 |
| 0.064607456 | 0.707273722 | 0.696 | 1 | 3960 | LGALS4 |
| 0.064607456 | 0.707273722 | 0.698 | 1 | 6623 | SNCG |
| 0.064607456 | 0.707273722 | 0.716 | 1 | 9232 | PTTG1 |
| 0.064607456 | 0.707273722 | 0.686 | 1 | 10512 | SEMA3C |
| 0.064607456 | 0.707273722 | 0.658 | 1 | 54751 | FBLIM1 |
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| 0.056628056 | 0.74216342 | 0.724 | 1 | 8527 | DGKD |
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| 0.037247274 | 0.000628712 | 4986 | OPRK1 |
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| 0.054568853 | 0.751254499 | 0.719 | 1 | 4284 | MIP |
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| 0.053796653 | 0.754672468 | 0.757 | 1 | 1017 | CDK2 |
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| 0.053281851 | 0.756953359 | 0.751 | 1 | 2130 | EWSR1 |
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| 0.034819677 | 0.001393727 | 5529 | PPP2R5E |
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| 0.034764882 | 0.001418232 | 2539 | G6PD |
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| 0.03448768 | 0.001548399 | 7430 | VIL2 |
| 0.034481589 | 0.001551378 | 219738 | C10orf35 |
| 0.034387626 | 0.001598023 | 57018 | CCNL1 |
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| 0.051737454 | 0.763808727 | 0.756 | 1 | 79065 | ATG9A |
| 0.051737454 | 0.763808727 | 0.758 | 1 | 90355 | C5orf30 |
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| 0.051480047 | 0.764953434 | 0.768 | 1 | 8439 | NSMAF |
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| 0.051222648 | 0.766098201 | 0.753 | 1 | 1641 | DCX |
| 0.051222648 | 0.766098201 | 0.764 | 1 | 9641 | IKBKE |
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| 0.051222648 | 0.766098201 | 0.768 | 1 | 79682 | MLF1IP |
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| 0.05096525 | 0.767243445 | 0.766 | 1 | 1285 | COL4A3 |
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| 0.05096525 | 0.767243445 | 0.752 | 1 | 56925 | LXN |
| 0.05096525 | 0.767243445 | 0.769 | 1 | 57666 | FBRSL1 |
| 0.05096525 | 0.767243445 | 0.765 | 1 | 144097 | C11orf84 |
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| 0.050707851 | 0.768389165 | 0.765 | 1 | 23251 | KIAA1024 |
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| 0.050707851 | 0.768389165 | 0.78 | 1 | 94005 | PIGS |
| 0.050707851 | 0.768389165 | 0.76 | 1 | 157567 | ANKRD46 |
| 0.050450452 | 0.769535899 | 0.753 | 1 | 85441 | RP4-697K14.1 |
| 0.050450452 | 0.769535899 | 0.766 | 1 | 90850 | ZNF598 |
| 0.050450452 | 0.769535899 | 0.765 | 1 | 90865 | IL33 |
| 0.050450452 | 0.769535899 | 0.761 | 1 | 169522 | KCNV2 |
| 0.050450452 | 0.769535899 | 0.791 | 1 | 338674 | OR5F1 |
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| 0.050193049 | 0.770682633 | 0.764 | 1 | 23196 | FAM120A |
| 0.050193049 | 0.770682633 | 0.732 | 1 | 147968 | CAPN12 |
| 0.050193049 | 0.770682633 | 0.74 | 1 | 100129138 | RP11-364B6.1 |
| 0.04993565 | 0.771829724 | 0.76 | 1 | 2138 | EYA1 |
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| 0.04993565 | 0.771829724 | 0.776 | 1 | 10200 | MPHOSPH6 |
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| 0.049678247 | 0.772977412 | 0.787 | 1 | 4763 | NF1 |
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| 0.049678247 | 0.772977412 | 0.733 | 1 | 388533 | KRTDAP |
| 0.049420848 | 0.774125576 | 0.733 | 1 | 22821 | RASA3 |
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| 0.04916345 | 0.775274694 | 0.779 | 1 | 100289341 | LOC100289341 |
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| 0.048906047 | 0.776423812 | 0.777 | 1 | 6627 | SNRPA1 |
| 0.048906047 | 0.776423812 | 0.794 | 1 | 10396 | ATP8A1 |
| 0.048906047 | 0.776423812 | 0.771 | 1 | 26658 | OR7C2 |
| 0.048906047 | 0.776423812 | 0.769 | 1 | 54869 | EPS8L1 |
| 0.048906047 | 0.776423812 | 0.764 | 1 | 83887 | TTLL2 |
| 0.048906047 | 0.776423812 | 0.767 | 1 | 89872 | AQP10 |
| 0.048906047 | 0.776423812 | 0.733 | 1 | 151306 | GPBAR1 |
| 0.048906047 | 0.776423812 | 0.779 | 1 | 339501 | MPN2 |
| 0.048648648 | 0.777573407 | 0.765 | 1 | 598 | BCL2L1 |
| 0.048648648 | 0.777573407 | 0.765 | 1 | 9343 | EFTUD2 |
| 0.048648648 | 0.777573407 | 0.77 | 1 | 9844 | ELMO1 |
| 0.048648648 | 0.777573407 | 0.782 | 1 | 127064 | OR2T12 |
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| 0.048391249 | 0.778723419 | 0.759 | 1 | 4043 | LRPAP1 |
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| 0.033307698 | 0.002234969 | 5883 | RAD9A |
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| 0.033285316 | 0.002250343 | 83416 | FCRL5 |
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| 0.033041108 | 0.002424501 | 1511 | CTSG |
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| 0.048391249 | 0.778723419 | 0.755 | 1 | 55257 | C20orf20 |
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| 0.04813385 | 0.779874504 | 0.779 | 1 | 4800 | NFYA |
| 0.04813385 | 0.779874504 | 0.77 | 1 | 5936 | RBM4 |
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| 0.047876447 | 0.781025469 | 0.79 | 1 | 3394 | IRF8 |
| 0.047876447 | 0.781025469 | 0.766 | 1 | 10842 | C7orf16 |
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| 0.047876447 | 0.781025469 | 0.762 | 1 | 84922 | FIZ1 |
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| 0.047361646 | 0.783328772 | 0.775 | 1 | 54328 | GPR173 |
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| 0.046332043 | 0.787941575 | 0.784 | 1 | 23457 | ABCB9 |
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| 0.045559846 | 0.791405916 | 0.771 | 1 | 170302 | ARX |
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| 0.045045044 | 0.793717384 | 0.776 | 1 | 5460 | POU5F1 |
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| 0.044530243 | 0.796031177 | 0.811 | 1 | 6369 | CCL24 |
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| 0.031817272 | 0.003497805 | 7067 | THRA |
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| 0.027943272 | 0.01033202 | 79154 | DHRS11 |
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| 0.027867986 | 0.010539639 | 83933 | HDAC10 |
| 0.027858771 | 0.010565311 | 619189 | SERINC4 |
| 0.027798789 | 0.010733739 | 120 | ADD3 |
| 0.027784061 | 0.010775459 | 84695 | LOXL3 |
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| 0.027725231 | 0.010943549 | 64170 | CARD9 |
| 0.027674053 | 0.011091665 | 442459 | LOC442459 |
| 0.027660476 | 0.011131254 | 359821 | MRPL42P5 |
| 0.027655538 | 0.011145686 | 83706 | FERMT3 |
| 0.027649121 | 0.01116446 | 147 | ADRA1B |
| 0.027545778 | 0.011470764 | 135927 | C7orf34 |
| 0.027475921 | 0.01168201 | 286006 | C7orf53 |
| 0.027467446 | 0.01170787 | 1965 | EIF2S1 |
| 0.027421864 | 0.011847845 | 9759 | HDAC4 |
| 0.027415775 | 0.01186666 | 346653 | FAM71F2 |
| 0.027413553 | 0.01187353 | 8704 | B4GALT2 |
| 0.027410921 | 0.011881666 | 441054 | C4orf47 |
| 0.02735538 | 0.012054657 | 81577 | GFOD2 |
| 0.027348552 | 0.012076087 | 127062 | OR2M3 |
| 0.027341722 | 0.012097537 | 79866 | C13orf34 |
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| 0.02730914 | 0.01220038 | 654434 | LINC00338 |
| 0.027307248 | 0.012206375 | 6565 | SLC15A2 |
| 0.027293259 | 0.012250789 | 85285 | KRTAP4-1 |
| 0.027250309 | 0.012388038 | 200197 | C1orf126 |
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| 0.027220853 | 0.012482945 | 8030 | CCDC6 |
| 0.027203985 | 0.01253759 | 138864 | LOC138864 |
| 0.027184403 | 0.012601292 | 4983 | OPHN1 |
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| 0.026863098 | 0.013688152 | 84690 | SPATA22 |
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| 0.026729064 | 0.014165488 | 27032 | ATP2C1 |
| 0.026705449 | 0.014251091 | 60 | ACTB |
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| 0.026668999 | 0.014384124 | 57181 | SLC39A10 |
| 0.026663404 | 0.014404642 | 374868 | ATP9B |
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| 0.026327947 | 0.015682846 | 22983 | MAST1 |
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| 0.026270434 | 0.015911721 | 535 | ATP6V0A1 |
| 0.026268542 | 0.015919296 | 5495 | PPM1B |
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| 0.026149645 | 0.016402006 | 83758 | RBP5 |
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| 0.026080366 | 0.016689165 | 23301 | EHBP1 |
| 0.026052391 | 0.01680636 | 57602 | USP36 |
| 0.026035605 | 0.016877029 | 11320 | MGAT4A |
| 0.026031492 | 0.016894395 | 2567 | GABRG3 |
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| 0.036808237 | 0.830930889 | 0.828 | 1 | 25807 | RHBDD3 |
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| 0.036808237 | 0.830930889 | 0.817 | 1 | 54509 | RHOF |
| 0.036808237 | 0.830930889 | 0.83 | 1 | 285525 | YIPF7 |
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| 0.036808237 | 0.830930889 | 0.827 | 1 | 390261 | OR6M1 |
| 0.036808237 | 0.830930889 | 0.85 | 1 | 729739 | LOC729739 |
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| 0.036550835 | 0.832100034 | 0.799 | 1 | 51715 | RAB23 |
| 0.036293436 | 0.833269536 | 0.802 | 1 | 4697 | NDUFA4 |
| 0.036293436 | 0.833269536 | 0.827 | 1 | 221188 | GPR114 |
| 0.036293436 | 0.833269536 | 0.823 | 1 | 285489 | DOK7 |
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| 0.036036037 | 0.834439456 | 0.83 | 1 | 3904 | LAIR2 |
| 0.036036037 | 0.834439456 | 0.818 | 1 | 9913 | SUPT7L |
| 0.036036037 | 0.834439456 | 0.816 | 1 | 10974 | C10orf116 |
| 0.036036037 | 0.834439456 | 0.826 | 1 | 23135 | KDM6B |
| 0.036036037 | 0.834439456 | 0.84 | 1 | 400456 | CTD-2536I1.1 |
| 0.035778634 | 0.835610271 | 0.836 | 1 | 8367 | HIST1H4E |
| 0.035778634 | 0.835610271 | 0.824 | 1 | 64377 | CHST8 |
| 0.035778634 | 0.835610271 | 0.836 | 1 | 339352 | LOC339352 |
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| 0.035521235 | 0.836780846 | 0.837 | 1 | 9244 | CRLF1 |
| 0.035263833 | 0.837951779 | 0.83 | 1 | 83959 | SLC4A11 |
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| 0.035006434 | 0.83912307 | 0.839 | 1 | 4887 | NPY2R |
| 0.035006434 | 0.83912307 | 0.832 | 1 | 9772 | KIAA0195 |
| 0.035006434 | 0.83912307 | 0.848 | 1 | 10196 | PRMT3 |
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| 0.034491636 | 0.841467202 | 0.828 | 1 | 830 | CAPZA2 |
| 0.034491636 | 0.841467202 | 0.834 | 1 | 79802 | HHIPL2 |
| 0.034491636 | 0.841467202 | 0.826 | 1 | 168455 | C7ORF74 |
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| 0.034234237 | 0.842639565 | 0.814 | 1 | 5998 | RGS3 |
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| 0.034234237 | 0.842639565 | 0.83 | 1 | 117156 | SCGB3A2 |
| 0.034234237 | 0.842639565 | 0.836 | 1 | 219844 | HYLS1 |
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| 0.033976831 | 0.843812227 | 0.85 | 1 | 8800 | PEX11A |
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| 0.033204634 | 0.847332716 | 0.838 | 1 | 284904 | SEC14L4 |
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| 0.032947235 | 0.848506689 | 0.874 | 1 | 6095 | RORA |
| 0.032947235 | 0.848506689 | 0.852 | 1 | 80195 | RP11-369J21.1 |
| 0.032947235 | 0.848506689 | 0.831 | 1 | 116154 | PHACTR3 |
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| 0.02548869 | 0.019326791 | 114134 | SLC2A13 |
| 0.025446726 | 0.01952699 | 284422 | AC005551.1 |
| 0.025405668 | 0.019724624 | 112609 | MRAP2 |
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| 0.025127478 | 0.021110237 | 653240 | KRTAP4-14 |
| 0.025070952 | 0.021401923 | 5179 | PENK |
| 0.0250438 | 0.02154329 | 6876 | TAGLN |
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| 0.02483267 | 0.022670435 | 845 | CASQ2 |
| 0.024756806 | 0.023087788 | 643226 | GRXCR2 |
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| 0.024707356 | 0.023363382 | 2108 | ETFA |
| 0.024676254 | 0.023538189 | 339456 | TMEM52 |
| 0.024652803 | 0.023670731 | 10940 | POP1 |
| 0.024631741 | 0.023790352 | 10128 | LRPPRC |
| 0.024619069 | 0.023862563 | 9902 | MRC2 |
| 0.024585253 | 0.024056185 | 892 | CCNC |
| 0.024550529 | 0.024256445 | 222537 | HS3ST5 |
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| 0.024538681 | 0.024325095 | 146439 | CCDC64B |
| 0.024536543 | 0.024337512 | 56941 | C3orf37 |
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| 0.024518523 | 0.024442304 | 51547 | SIRT7 |
| 0.024516219 | 0.024455717 | 124093 | CCDC78 |
| 0.024503054 | 0.024532558 | 129530 | LYG1 |
| 0.024466686 | 0.024745919 | 57447 | NDRG2 |
| 0.024433775 | 0.024940381 | 401232 | RP1-90J20.7 |
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| 0.024357911 | 0.025393665 | 79750 | ZNF385D |
| 0.024330596 | 0.025558621 | 644890 | MEIG1 |
| 0.024245599 | 0.026077829 | 390928 | AC011443.1 |
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| 0.024144724 | 0.026705833 | 221322 | C6orf170 |
| 0.024140939 | 0.026729673 | 10489 | LRRC41 |
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| 0.023908086 | 0.028230542 | 2701 | GJA4 |
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| 0.023813052 | 0.028863635 | 1453 | CSNK1D |
| 0.02378631 | 0.02904398 | 1666 | DECR1 |
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| 0.023771418 | 0.029144816 | 11021 | RAB35 |
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| 0.023757759 | 0.029237576 | 54765 | TRIM44 |
| 0.023748709 | 0.02929919 | 5738 | PTGFRN |
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| 0.032689832 | 0.84968096 | 0.825 | 1 | 441728 | GOLGA6B |
| 0.032432433 | 0.850856185 | 0.848 | 1 | 1113 | CHGA |
| 0.032432433 | 0.850856185 | 0.849 | 1 | 2877 | GPX2 |
| 0.032432433 | 0.850856185 | 0.838 | 1 | 79639 | TMEM53 |
| 0.032432433 | 0.850856185 | 0.847 | 1 | 84302 | TMEM246 |
| 0.032432433 | 0.850856185 | 0.853 | 1 | 135941 | OR2A14 |
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| 0.031917632 | 0.853206336 | 0.839 | 1 | 1187 | CLCNKA |
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| 0.031917632 | 0.853206336 | 0.856 | 1 | 317649 | EIF4E3 |
| 0.031660229 | 0.854381919 | 0.863 | 1 | 10422 | UBAC1 |
| 0.031660229 | 0.854381919 | 0.853 | 1 | 23682 | RAB38 |
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| 0.031660229 | 0.854381919 | 0.855 | 1 | 284358 | MAMSTR |
| 0.03140283 | 0.855558395 | 0.852 | 1 | 6512 | SLC1A7 |
| 0.03140283 | 0.855558395 | 0.828 | 1 | 8111 | GPR68 |
| 0.03140283 | 0.855558395 | 0.852 | 1 | 8916 | HERC3 |
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| 0.03140283 | 0.855558395 | 0.844 | 1 | 81551 | STMN4 |
| 0.03140283 | 0.855558395 | 0.84 | 1 | 84132 | USP42 |
| 0.03140283 | 0.855558395 | 0.854 | 1 | 145748 | LYSMD4 |
| 0.03140283 | 0.855558395 | 0.858 | 1 | 154150 | HDGFL1 |
| 0.03140283 | 0.855558395 | 0.852 | 1 | 283297 | OR10A4 |
| 0.03140283 | 0.855558395 | 0.841 | 1 | 643418 | LIPN |
| 0.031145431 | 0.856734633 | 0.846 | 1 | 771 | CA12 |
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| 0.031145431 | 0.856734633 | 0.853 | 1 | 10905 | MAN1A2 |
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| 0.031145431 | 0.856734633 | 0.859 | 1 | 51246 | SHISA5 |
| 0.031145431 | 0.856734633 | 0.838 | 1 | 55998 | NXF5 |
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| 0.03088803 | 0.85791105 | 0.853 | 1 | 338321 | NLRP9 |
| 0.03063063 | 0.859087884 | 0.856 | 1 | 6472 | SHMT2 |
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| 0.03063063 | 0.859087884 | 0.848 | 1 | 25792 | CIZ1 |
| 0.03063063 | 0.859087884 | 0.857 | 1 | 55362 | TMEM63B |
| 0.03063063 | 0.859087884 | 0.876 | 1 | 85397 | RGS8 |
| 0.03063063 | 0.859087884 | 0.868 | 1 | 94122 | SYTL5 |
| 0.03063063 | 0.859087884 | 0.846 | 1 | 259307 | IL4I1 |
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| 0.030373231 | 0.860265017 | 0.866 | 1 | 1653 | DDX1 |
| 0.030373231 | 0.860265017 | 0.854 | 1 | 3880 | KRT19 |
| 0.030373231 | 0.860265017 | 0.86 | 1 | 11017 | SNRNP27 |
| 0.030373231 | 0.860265017 | 0.854 | 1 | 25909 | AHCTF1 |
| 0.030373231 | 0.860265017 | 0.859 | 1 | 142891 | SAMD8 |
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| 0.030115828 | 0.861442983 | 0.868 | 1 | 10487 | CAP1 |
| 0.029858429 | 0.862620711 | 0.841 | 1 | 3938 | LCT |
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| 0.029858429 | 0.862620711 | 0.857 | 1 | 54955 | C1orf109 |
| 0.029858429 | 0.862620711 | 0.853 | 1 | 60506 | NYX |
| 0.029858429 | 0.862620711 | 0.852 | 1 | 84964 | ALKBH6 |
| 0.029858429 | 0.862620711 | 0.868 | 1 | 203429 | FAM226A |
| 0.02960103 | 0.863798738 | 0.855 | 1 | 189 | AGXT |
| 0.02960103 | 0.863798738 | 0.871 | 1 | 2251 | FGF6 |
| 0.02960103 | 0.863798738 | 0.866 | 1 | 4076 | CAPRIN1 |
| 0.02960103 | 0.863798738 | 0.846 | 1 | 5048 | PAFAH1B1 |
| 0.02960103 | 0.863798738 | 0.869 | 1 | 7356 | SCGB1A1 |
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| 0.02960103 | 0.863798738 | 0.866 | 1 | 9811 | KIAA0427 |
| 0.02960103 | 0.863798738 | 0.869 | 1 | 79627 | OGFRL1 |
| 0.02960103 | 0.863798738 | 0.878 | 1 | 91893 | FDXACB1 |
| 0.02960103 | 0.863798738 | 0.86 | 1 | 150135 | LINC00479 |
| 0.02960103 | 0.863798738 | 0.849 | 1 | 223075 | CCDC129 |
| 0.029343629 | 0.864977062 | 0.846 | 1 | 25816 | TNFAIP8 |
| 0.029343629 | 0.864977062 | 0.883 | 1 | 50853 | VILL |

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| 0.023694815 | 0.029668352 | 10516 | FBLN5 |
| 0.023692511 | 0.029684208 | 286436 | H2BFM |
| 0.023681322 | 0.029761387 | 1591 | CYP24A1 |
| 0.023670049 | 0.029839313 | 11001 | SLC27A2 |
| 0.02360406 | 0.030299038 | 8241 | RBM10 |
| 0.02358423 | 0.030438339 | 273 | AMPH |
| 0.023564484 | 0.030577635 | 50856 | CLEC4A |
| 0.023511002 | 0.03095763 | 54084 | C21orf29 |
| 0.023479158 | 0.031185806 | 8538 | BARX2 |
| 0.023470437 | 0.031248545 | 9295 | SFRS11 |
| 0.023379188 | 0.031911548 | 1362 | CPD |
| 0.023325788 | 0.032305107 | 643382 | C14orf176 |
| 0.023313776 | 0.032394189 | 134701 | C6orf59 |
| 0.023310566 | 0.032418054 | 64282 | PAPD5 |
| 0.023307193 | 0.032443114 | 7032 | TFF2 |
| 0.023290079 | 0.032570578 | 5740 | PTGIS |
| 0.023289585 | 0.032574262 | 9108 | MTMR7 |
| 0.023281028 | 0.032638162 | 5498 | PPOX |
| 0.023268275 | 0.032733619 | 337977 | KRTAP21-1 |
| 0.023240712 | 0.032940686 | 7559 | ZNF12 |
| 0.023227464 | 0.033040628 | 10962 | MLLT11 |
| 0.023218002 | 0.03311215 | 23014 | FBXO21 |
| 0.023194633 | 0.033289399 | 442721 | LMOD2 |
| 0.023124531 | 0.033825919 | 728361 | OVOL3 |
| 0.023123214 | 0.033836085 | 1017 | CDK2 |
| 0.023059694 | 0.03432874 | 23348 | DOCK9 |
| 0.023009339 | 0.034723636 | 441208 | ZNRF2P1 |
| 0.023004813 | 0.034759328 | 81029 | WNT5B |
| 0.0229942 | 0.034843113 | 140465 | MYL6B |
| 0.022984656 | 0.034918629 | 9826 | ARHGEF11 |
| 0.022980541 | 0.03495121 | 3251 | HPRT1 |
| 0.02290114 | 0.035585299 | 6643 | SNX2 |
| 0.022821905 | 0.036227804 | 7137 | TNNI3 |
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| 0.022786688 | 0.036516555 | 112970 | KTI12 |
| 0.022765048 | 0.036694922 | 9609 | RAB36 |
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| 0.022649363 | 0.037661202 | 4053 | LTBP2 |
| 0.022602957 | 0.038054854 | 388531 | RGS9BP |
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| 0.022518784 | 0.038777802 | 84634 | KISS1R |
| 0.022505043 | 0.038896937 | 5795 | PTPRJ |
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| 0.022450985 | 0.039368588 | 9419 | CRIPT |
| 0.02244506 | 0.039420575 | 55765 | C1orf106 |
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| 0.02243527 | 0.039506603 | 130497 | OSR1 |
| 0.022434035 | 0.039517466 | 57478 | USP31 |
| 0.022427371 | 0.039576117 | 57597 | BAHCC1 |
| 0.022421036 | 0.039631989 | 7593 | MZF1 |
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| 0.022343116 | 0.040324241 | 284837 | AP001053.11 |
| 0.022312261 | 0.040601224 | 135138 | PACRG |
| 0.022306584 | 0.040652338 | 9901 | SRGAP3 |
| 0.022305019 | 0.040666461 | 440044 | SLC22A20 |
| 0.022278691 | 0.040904365 | 64240 | ABCG5 |
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| 0.02220941 | 0.041536074 | 285313 | IGSF10 |
| 0.022185549 | 0.04175552 | 339488 | TFAP2E |
| 0.022150416 | 0.042080458 | 4584 | MUC3A |
| 0.022134535 | 0.042228032 | 80199 | FUZ |
| 0.022129517 | 0.042274743 | 55018 | LINC00483 |
| 0.022124909 | 0.042317703 | 283970 | PDXDC2 |
| 0.022083439 | 0.042705812 | 348094 | ANKDD1A |
| 0.022077844 | 0.042758439 | 646892 | SH2D7 |
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| 0.022041971 | 0.043096937 | 644172 | LOC644172 |
| 0.021988817 | 0.043602694 | 64208 | POPDC3 |
| 0.02195064 | 0.043969054 | 1031 | CDKN2C |
| 0.021937802 | 0.044092815 | 374655 | ZNF710 |
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| 0.021830592 | 0.045137942 | 4141 | MARS |

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| 0.029343629 | 0.864977062 | 0.867 | 1 | 53917 | RAB24 |
| 0.029343629 | 0.864977062 | 0.87 | 1 | 90273 | CEACAM21 |
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| 0.029086228 | 0.866156161 | 0.867 | 1 | 5806 | PTX3 |
| 0.029086228 | 0.866156161 | 0.867 | 1 | 6910 | TBX5 |
| 0.029086228 | 0.866156161 | 0.857 | 1 | 7626 | ZNF75D |
| 0.029086228 | 0.866156161 | 0.861 | 1 | 56311 | ANKRD7 |
| 0.029086228 | 0.866156161 | 0.847 | 1 | 57835 | SLC4A5 |
| 0.029086228 | 0.866156161 | 0.864 | 1 | 64841 | GNPNAT1 |
| 0.029086228 | 0.866156161 | 0.868 | 1 | 79954 | NOL10 |
| 0.029086228 | 0.866156161 | 0.888 | 1 | 84650 | EBPL |
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| 0.028828828 | 0.867335081 | 0.862 | 1 | 5453 | POU3F1 |
| 0.028828828 | 0.867335081 | 0.875 | 1 | 7260 | TSSC1 |
| 0.028828828 | 0.867335081 | 0.854 | 1 | 51286 | CEND1 |
| 0.028828828 | 0.867335081 | 0.861 | 1 | 55920 | RCC2 |
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| 0.028828828 | 0.867335081 | 0.886 | 1 | 340485 | ACER2 |
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| 0.028571429 | 0.86851424 | 0.854 | 1 | 83482 | SCRT1 |
| 0.028571429 | 0.86851424 | 0.85 | 1 | 286530 | P2RY8 |
| 0.028571429 | 0.86851424 | 0.851 | 1 | 360023 | ZBTB41 |
| 0.028314028 | 0.869693696 | 0.863 | 1 | 1213 | CLTC |
| 0.028314028 | 0.869693696 | 0.867 | 1 | 4613 | MYCN |
| 0.028314028 | 0.869693696 | 0.853 | 1 | 55633 | TBC1D22B |
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| 0.028056627 | 0.870873988 | 0.892 | 1 | 4430 | MYO1B |
| 0.028056627 | 0.870873988 | 0.866 | 1 | 9871 | SEC24D |
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| 0.028056627 | 0.870873988 | 0.882 | 1 | 391013 | PLA2G2C |
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| 0.027541827 | 0.873234272 | 0.853 | 1 | 1137 | CHRNA4 |
| 0.027541827 | 0.873234272 | 0.885 | 1 | 51157 | ZNF580 |
| 0.027541827 | 0.873234272 | 0.871 | 1 | 79931 | TNIP3 |
| 0.027541827 | 0.873234272 | 0.887 | 1 | 338667 | LOC338667 |
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| 0.027284427 | 0.874414861 | 0.869 | 1 | 79184 | BRCC3 |
| 0.027027028 | 0.875595689 | 0.862 | 1 | 412 | STS |
| 0.027027028 | 0.875595689 | 0.867 | 1 | 5891 | RAGE |
| 0.027027028 | 0.875595689 | 0.875 | 1 | 53834 | FGFRL1 |
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| 0.027027028 | 0.875595689 | 0.879 | 1 | 93624 | TADA2B |
| 0.026769627 | 0.876777291 | 0.89 | 1 | 293 | SLC25A6 |
| 0.026769627 | 0.876777291 | 0.873 | 1 | 547 | KIF1A |
| 0.026769627 | 0.876777291 | 0.876 | 1 | 1013 | CDH15 |
| 0.026769627 | 0.876777291 | 0.878 | 1 | 27113 | BBC3 |
| 0.026769627 | 0.876777291 | 0.873 | 1 | 126382 | NR2C2AP |
| 0.026769627 | 0.876777291 | 0.86 | 1 | 401236 | RP3-486B10.1 |
| 0.026769627 | 0.876777291 | 0.869 | 1 | 440119 | RP11-143E21.7 |
| 0.026512226 | 0.877958715 | 0.884 | 1 | 3228 | HOXC12 |
| 0.026512226 | 0.877958715 | 0.87 | 1 | 3587 | IL10RA |
| 0.026512226 | 0.877958715 | 0.873 | 1 | 7001 | PRDX2 |
| 0.026512226 | 0.877958715 | 0.879 | 1 | 9582 | APOBEC3B |
| 0.026512226 | 0.877958715 | 0.905 | 1 | 10598 | AHSA1 |
| 0.026512226 | 0.877958715 | 0.873 | 1 | 51761 | ATP8A2 |
| 0.026512226 | 0.877958715 | 0.877 | 1 | 63976 | PRDM16 |
| 0.026254825 | 0.879140317 | 0.87 | 1 | 5778 | PTPN7 |
| 0.026254825 | 0.879140317 | 0.854 | 1 | 11094 | C9orf7 |
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| 0.025997426 | 0.880322218 | 0.886 | 1 | 429 | ASCL1 |
| 0.025997426 | 0.880322218 | 0.859 | 1 | 6091 | ROBO1 |
| 0.025997426 | 0.880322218 | 0.86 | 1 | 94032 | CAMK2N2 |
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| 0.025740024 | 0.881504893 | 0.87 | 1 | 10651 | MTX2 |
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| 0.025482625 | 0.88268733 | 0.85 | 1 | 25974 | MMACHC |
| 0.025482625 | 0.88268733 | 0.868 | 1 | 64096 | GFRA4 |
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| 0.021729387 | 0.046143651 | 728927 | RP11-468B6.3 |
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| 0.021674013 | 0.046701856 | 147804 | CTD-2224J9.2 |
| 0.021655336 | 0.046891402 | 6750 | SST |
| 0.021637233 | 0.047075734 | 9647 | PPM1F |
| 0.021611726 | 0.047336515 | 10625 | IVNS1ABP |
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| 0.021599961 | 0.047457211 | 8459 | TPST2 |
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| 0.021409646 | 0.049445748 | 3679 | ITGA7 |
| 0.021388995 | 0.049665656 | 169611 | OLFML2A |
| 0.021381507 | 0.049745612 | 114294 | LACTB |
| 0.021366697 | 0.049904045 | 78989 | COLEC11 |
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| 0.021361925 | 0.049955171 | 29766 | TMOD3 |
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| 0.021350486 | 0.05007793 | 341 | APOC1 |
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| 0.021313708 | 0.050474375 | 90070 | LACRT |
| 0.021265903 | 0.050993573 | 64123 | ELTD1 |
| 0.021253314 | 0.051131044 | 29986 | SLC39A2 |
| 0.021249365 | 0.051174238 | 10483 | SEC23B |
| 0.021219414 | 0.051502764 | 2520 | GAST |
| 0.021206414 | 0.051645909 | 3884 | KRT33B |
| 0.021204768 | 0.051664066 | 84433 | CARD11 |
| 0.021192592 | 0.051798489 | 2264 | FGFR4 |
| 0.021159597 | 0.052164208 | 6880 | TAF9 |
| 0.02115285 | 0.052239258 | 29087 | THYN1 |
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| 0.021030992 | 0.053610347 | 6146 | RPL22 |
| 0.021025974 | 0.053667445 | 54886 | PPAPR3 |
| 0.021006802 | 0.053886048 | 4709 | NDUFB3 |
| 0.02100417 | 0.053916134 | 8034 | SLC25A16 |
| 0.020989688 | 0.054081835 | 6780 | STAU1 |
| 0.020974219 | 0.054259319 | 3883 | KRT33A |
| 0.020919256 | 0.054893825 | 55691 | FRMD4A |
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| 0.020819122 | 0.056065705 | 8568 | RRP1 |
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| 0.020812703 | 0.056141533 | 26031 | OSBPL3 |
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| 0.02079493 | 0.05635193 | 27091 | CACNG5 |
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| 0.020632591 | 0.058304232 | 2524 | FUT2 |
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| 0.020481443 | 0.060172163 | 646891 | SDCCAG3P2 |
| 0.020469347 | 0.060323779 | 22852 | ANKRD26 |
| 0.020428043 | 0.060843855 | 8079 | MLF2 |
| 0.020417018 | 0.060983285 | 3866 | KRT15 |
| 0.020378016 | 0.061478715 | 9337 | CNOT8 |
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| 0.019252753 | 0.077269346 | 9332 | CD163 |
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| 0.018560199 | 0.088532463 | 6991 | TCTE3 |
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| 0.021106821 | 0.902826905 | 0.893 | 1 | 138428 | PTRH1 |
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| 0.01981982 | 0.908762395 | 0.903 | 1 | 55509 | BATF3 |
| 0.01981982 | 0.908762395 | 0.889 | 1 | 60675 | PROK2 |
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| 0.009915426 | 0.362906694 | 79712 | GTDC1 |
| 0.00987692 | 0.364773452 | 81706 | PPP1R14C |
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| 0.007151222 | 0.511702478 | 9031 | BAZ1B |
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| -0.027541827 | 0.873234272 | 0.872 | 1 | 51764 | GNG13 |
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| -0.028571429 | 0.86851424 | 0.866 | 1 | 3851 | KRT4 |
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| -0.005528245 | 0.611969829 | 400668 | PRSSL1 |
| -0.005585347 | 0.608298779 | 4001 | LMNB1 |
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| -0.005932899 | 0.586169839 | 84279 | C2orf7 |
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| -0.006041509 | 0.579331934 | 653140 | AC008073.2 |
| -0.006067098 | 0.577726305 | 10445 | MCRS1 |
| -0.006080098 | 0.576911449 | 55798 | METTL2B |
| -0.006091206 | 0.576215625 | 4117 | MAK |
| -0.006093181 | 0.576091945 | 388662 | SLC6A17 |
| -0.006125517 | 0.574068725 | 10783 | NEK6 |
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| -0.00624507 | 0.566617846 | 23519 | ANP32D |
| -0.00629847 | 0.563304842 | 440905 | AC018865.8 |
| -0.006310729 | 0.562545598 | 84070 | FAM186B |
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| -0.006826791 | 0.531040251 | 645974 | PABPC1L2B |
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| -0.006864558 | 0.528770208 | 92305 | TMEM129 |
| -0.006894672 | 0.526963711 | 145389 | SLC38A6 |
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| -0.006930218 | 0.524835467 | 259285 | TAS2R39 |
| -0.006957205 | 0.523222506 | 6563 | SLC14A1 |
| -0.007001061 | 0.520607054 | 7141 | TNP1 |
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| -0.00725794 | 0.50542289 | 161 | AP2A2 |
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| -0.031145431 | 0.856734633 | 0.846 | 1 | 84651 | SPINK7 |
| -0.031145431 | 0.856734633 | 0.837 | 1 | 90809 | TMEM55B |
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| -0.033462033 | 0.846159041 | 0.863 | 1 | 22949 | PTGR1 |
| -0.033462033 | 0.846159041 | 0.838 | 1 | 29109 | FHOD1 |
| -0.033462033 | 0.846159041 | 0.839 | 1 | 84203 | TXNDC2 |
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| -0.007645479 | 0.482964277 | 9443 | MED7 |
| -0.007682176 | 0.480866104 | 9047 | SH2D2A |
| -0.007709247 | 0.47932151 | 79642 | ARSJ |
| -0.007890839 | 0.46903041 | 84299 | MIEN1 |
| -0.007973366 | 0.464394152 | 116832 | RPL39L |
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| -0.008020184 | 0.461775392 | 7763 | ZFAND5 |
| -0.008042317 | 0.460540295 | 219960 | OR10Q1 |
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| -0.008080084 | 0.458436936 | 91947 | ARRDC4 |
| -0.008088065 | 0.45799315 | 23367 | LARP1 |
| -0.008119167 | 0.456265986 | 151 | ADRA2B |
| -0.008170428 | 0.453427404 | 83891 | SNX25 |
| -0.008247113 | 0.449199617 | 340385 | ZNF517 |
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| -0.008344862 | 0.443843067 | 81442 | OR6N2 |
| -0.008398673 | 0.440909922 | 56937 | PMEPA1 |
| -0.008412413 | 0.440162718 | 181 | AGRP |
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| -0.00850613 | 0.435085922 | 90668 | LRRC16B |
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| -0.009421416 | 0.387308985 | 96764 | TGS1 |
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| -0.009478684 | 0.384429932 | 1022 | CDK7 |
| -0.009508633 | 0.382929534 | 389432 | SAMD5 |
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| -0.017186366 | 0.114772432 | 51156 | SERPINA10 |
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| -0.04433218 | 4.70484E-05 | 123688 | AGPHD1 |
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| -0.063531451 | 5.36605E-09 | 80777 | CYB5B |
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| -0.144658953 | 0.398461342 | 0.383 | 1 | 3460 | IFNGR2 |
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| -0.145431146 | 0.395926267 | 0.35 | 1 | 84766 | EFCAB4B |
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| -0.095237561 | 1.97503E-18 | 4038 | LRP4 |
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| -0.095722519 | 1.32601E-18 | 57689 | LRRC4C |
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| -0.206177592 | 0.226764575 | 0.22 | 1 | 23505 | TMEM131 |
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| -0.206692412 | 0.225587204 | 0.196 | 1 | 23566 | LPAR3 |
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| -0.207207203 | 0.22441411 | 0.208 | 1 | 134187 | POU5F2 |
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| -0.207722008 | 0.22324492 | 0.197 | 1 | 51400 | PPME1 |
| -0.207722008 | 0.22324492 | 0.186 | 1 | 259266 | ASPM |
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| -0.207979411 | 0.222662032 | 0.188 | 1 | 2937 | GSS |
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| -0.095857874 | 1.18604E-18 | 23208 | SYT11 |
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| -0.097414941 | 3.24976E-19 | 126755 | LRRC38 |
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| -0.097471222 | 3.09995E-19 | 166 | AES |
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| -0.0981934 | 1.68799E-19 | 9929 | JOSD1 |
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| -0.098233141 | 1.63225E-19 | 9258 | MFHAS1 |
| -0.098280862 | 1.56772E-19 | 23102 | TBC1D2B |
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| -0.098335251 | 1.49723E-19 | 26696 | OR2T1 |
| -0.09834455 | 1.48549E-19 | 23389 | MED13L |
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| -0.211068198 | 0.215748876 | 0.207 | 1 | 54777 | C10orf92 |
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| -0.211068198 | 0.215748876 | 0.196 | 1 | 116983 | ACAP3 |
| -0.211325601 | 0.215179637 | 0.189 | 1 | 3046 | HBE1 |
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| -0.211583003 | 0.214611501 | 0.194 | 1 | 516 | ATP5G1 |
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| -0.212355196 | 0.212913007 | 0.208 | 1 | 1747 | DLX3 |
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| -0.213127404 | 0.211223945 | 0.199 | 1 | 64946 | CENPH |
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| -0.213384822 | 0.210663065 | 0.201 | 1 | 1159 | CKMT1B |
| -0.213384822 | 0.210663065 | 0.189 | 1 | 84101 | USP44 |
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| -0.101108424 | 1.38696E-20 | 728833 | FAM72D |
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| -0.225997418 | 0.184442386 | 0.187 | 1 | 29035 | C16orf72 |
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| -0.139087498 | 1.19176E-37 | 56135 | PCDHAC1 |
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| -0.145750225 | 3.26839E-41 | 55359 | STYK1 |
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| -0.307593286 | 0.06839966 | 0.057 | 1 | 287 | ANK2 |
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| -0.147496626 | 3.5649E-42 | 79986 | ZNF702P |
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| -0.148375377 | 1.15747E-42 | 169834 | ZNF883 |
| -0.148381382 | 1.14906E-42 | 56114 | PCDHGA1 |
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| -0.628314018 | 5.95329E-05 | < 0.001 | < 0.001 | 9572 | NR1D1 |
| -0.628828824 | 5.85059E-05 | < 0.001 | < 0.001 | 22865 | SLITRK3 |
| -0.628828824 | 5.85059E-05 | < 0.001 | < 0.001 | 401190 | RGS7BP |
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| -0.32234928 | < 0.001 | 4326 | MMP17 |
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| -0.395185053 | < 0.001 | 654502 | IQCJ |
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| -0.635521173 | 4.65459E-05 | < 0.001 | < 0.001 | 9462 | RASAL2 |
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| -0.639382243 | 4.07063E-05 | < 0.001 | < 0.001 | 2817 | GPC1 |
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| -0.647361636 | 3.07057E-05 | < 0.001 | < 0.001 | 9362 | CPNE6 |
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| -0.783526361 | 3.29643E-07 | < 0.001 | < 0.001 | 766 | CA7 |
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| -0.792792737 | 2.67902E-07 | < 0.001 | < 0.001 | 114088 | TRIM9 |

**Reward (single-site) Cortex**

| voxel-wise, cortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.548995435 | < 0.001 | 1845 | DUSP3 |
| 0.547527373 | < 0.001 | 56934 | CA10 |
| 0.542965055 | < 0.001 | 5293 | PIK3CD |
| 0.533551097 | < 0.001 | 2888 | GRB14 |
| 0.517677724 | < 0.001 | 445 | ASS1 |
| 0.517043889 | < 0.001 | 253782 | LASS6 |
| 0.505646586 | < 0.001 | 9734 | HDAC9 |
| 0.50457865 | < 0.001 | 25827 | FBXL2 |
| 0.497107208 | < 0.001 | 118427 | OLFM3 |
| 0.493009955 | < 0.001 | 441027 | TMEM150C |
| 0.477735013 | < 0.001 | 6464 | SHC1 |
| 0.474966705 | < 0.001 | 503542 | SPRN |
| 0.473842651 | < 0.001 | 64943 | NT5DC2 |
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| 0.463926971 | < 0.001 | 553158 | ARHGAP8 |
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| 0.462338775 | < 0.001 | 375790 | AGRN |
| 0.462135553 | < 0.001 | 5029 | P2RY2 |
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| 0.460576653 | < 0.001 | 7108 | TM7SF2 |
| 0.460026652 | < 0.001 | 3768 | KCNJ12 |
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| 0.457780778 | < 0.001 | 54894 | RNF43 |
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| 0.457005739 | < 0.001 | 128434 | VSTM2L |
| 0.455693781 | < 0.001 | 79183 | TTPAL |
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| 0.454948455 | < 0.001 | 50509 | COL5A3 |
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|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
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| 0.500098765 | < 0.001 | < 0.001 | < 0.001 | 80772 | GLTPD1 |
| 0.499952346 | < 0.001 | < 0.001 | < 0.001 | 84285 | EIF1AD |

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| 0.400784045 | < 0.001 | 10223 | GPA33 |
| 0.400479108 | < 0.001 | 129080 | EMID1 |
| 0.400184959 | < 0.001 | 55884 | WSB2 |
| 0.400148183 | < 0.001 | 4435 | CITED1 |
| 0.399600118 | < 0.001 | 1176 | AP3S1 |
| 0.399561048 | < 0.001 | 57613 | KIAA1467 |
| 0.399410248 | < 0.001 | 220164 | DOK6 |
| 0.399408847 | < 0.001 | 9148 | NEURL |
| 0.399285108 | < 0.001 | 8908 | GYG2 |
| 0.39897579 | < 0.001 | 25759 | SHC2 |
| 0.398842543 | < 0.001 | 2535 | FZD2 |
| 0.398746043 | < 0.001 | 2170 | FABP3 |
| 0.398560762 | < 0.001 | 3852 | KRT5 |
| 0.398556203 | < 0.001 | 51108 | METTL9 |
| 0.39847219 | < 0.001 | 574407 | C1orf145 |
| 0.398349196 | < 0.001 | 284611 | FAM102B |
| 0.398176908 | < 0.001 | 192111 | PGAM5 |
| 0.398115903 | < 0.001 | 25945 | PVRL3 |
| 0.398112416 | < 0.001 | 3782 | KCNN3 |
| 0.397892475 | < 0.001 | 160622 | GRASP |
| 0.397503555 | < 0.001 | 7975 | MAFK |
| 0.397273421 | < 0.001 | 84063 | KIRREL2 |
| 0.397049576 | < 0.001 | 55650 | PIGV |
| 0.396608204 | < 0.001 | 81552 | VOPP1 |
| 0.396405846 | < 0.001 | 9666 | DZIP3 |
| 0.396376938 | < 0.001 | 339559 | ZNF642 |
| 0.395609587 | < 0.001 | 401331 | RASA4CP |
| 0.395580649 | < 0.001 | 112950 | MED8 |
| 0.395555943 | < 0.001 | 221424 | C6orf154 |
| 0.395134449 | < 0.001 | 10858 | CYP46A1 |
| 0.394677937 | < 0.001 | 114800 | CCDC85A |
| 0.394660592 | < 0.001 | 8321 | FZD1 |
| 0.394462943 | < 0.001 | 6804 | STX1A |
| 0.394423664 | < 0.001 | 55545 | MSX2P1 |
| 0.394312799 | < 0.001 | 4597 | MVD |
| 0.394233793 | < 0.001 | 3714 | JAG2 |
| 0.394165814 | < 0.001 | 80115 | BAIAP2L2 |
| 0.394080937 | < 0.001 | 8938 | BAIAP3 |
| 0.393837154 | < 0.001 | 100170841 | C17orf96 |
| 0.393351525 | < 0.001 | 84536 | C21orf67 |
| 0.393116176 | < 0.001 | 613 | BCR |
| 0.393021166 | < 0.001 | 5002 | SLC22A18 |
| 0.392815948 | < 0.001 | 83445 | GSG1 |
| 0.391937613 | < 0.001 | 4353 | MPO |
| 0.391748458 | < 0.001 | 80020 | FOXRED2 |
| 0.391483188 | < 0.001 | 10555 | AGPAT2 |
| 0.391400903 | < 0.001 | 440672 | NUDT4P1 |
| 0.391308248 | < 0.001 | 389852 | SPACA5 |
| 0.390967488 | < 0.001 | 4488 | MSX2 |
| 0.390948832 | < 0.001 | 84067 | FAM160A2 |
| 0.39094469 | < 0.001 | 91695 | RRP7B |
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| 0.390248567 | < 0.001 | 29887 | SNX10 |
| 0.39020735 | < 0.001 | 201191 | SAMD14 |
| 0.390167981 | < 0.001 | 3269 | HRH1 |
| 0.389753401 | < 0.001 | 10383 | TUBB2C |
| 0.389417917 | < 0.001 | 3156 | HMGCR |
| 0.389269263 | < 0.001 | 220107 | DLEU7 |
| 0.389135063 | < 0.001 | 84285 | EIF1AD |
| 0.388817847 | < 0.001 | 869 | CBLN1 |
| 0.388576359 | < 0.001 | 57526 | PCDH19 |
| 0.388553649 | < 0.001 | 284422 | AC005551.1 |
| 0.388427287 | < 0.001 | 8310 | ACOX3 |
| 0.388390839 | < 0.001 | 1740 | DLG2 |
| 0.388202488 | < 0.001 | 6017 | RLBP1 |
| 0.388150841 | < 0.001 | 283310 | C12orf64 |
| 0.387746632 | < 0.001 | 398 | ARHGDIG |
| 0.387707204 | < 0.001 | 285220 | EPHA6 |
| 0.387659013 | < 0.001 | 81570 | CLPB |
| 0.387614131 | < 0.001 | 94160 | ABCC12 |
| 0.387473792 | < 0.001 | 80776 | B9D2 |
| 0.387450933 | < 0.001 | 55509 | BATF3 |
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| 0.387228578 | < 0.001 | 219348 | PLAC9 |
| 0.387051761 | < 0.001 | 9369 | NRXN3 |
| 0.386945873 | < 0.001 | 131408 | FAM131A |
| 0.386831731 | < 0.001 | 7070 | THY1 |

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|---|---|---|---|---|---|
| 0.499896646 | < 0.001 | < 0.001 | < 0.001 | 256281 | NUDT14 |
| 0.499481976 | < 0.001 | < 0.001 | < 0.001 | 81570 | CLPB |
| 0.499445707 | < 0.001 | < 0.001 | < 0.001 | 2906 | GRIN2D |
| 0.499038815 | < 0.001 | < 0.001 | < 0.001 | 100268168 | AC008429.1 |
| 0.498815984 | < 0.001 | < 0.001 | < 0.001 | 30000 | TNPO2 |
| 0.498344272 | < 0.001 | < 0.001 | < 0.001 | 100170841 | C17orf96 |
| 0.498336494 | < 0.001 | < 0.001 | < 0.001 | 131408 | FAM131A |
| 0.498308033 | < 0.001 | < 0.001 | < 0.001 | 201254 | STRA13 |
| 0.498217314 | < 0.001 | < 0.001 | < 0.001 | 256309 | CCDC110 |
| 0.498136967 | < 0.001 | < 0.001 | < 0.001 | 27160 | INGX |
| 0.498041093 | < 0.001 | < 0.001 | < 0.001 | 27345 | KCNMB4 |
| 0.497855783 | < 0.001 | < 0.001 | < 0.001 | 23335 | WDR7 |
| 0.497261018 | < 0.001 | < 0.001 | < 0.001 | 5603 | MAPK13 |
| 0.496872306 | < 0.001 | < 0.001 | < 0.001 | 29926 | GMPPA |
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| 0.495776027 | < 0.001 | < 0.001 | < 0.001 | 5196 | PF4 |
| 0.495553195 | < 0.001 | < 0.001 | < 0.001 | 4488 | MSX2 |
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| 0.494646132 | < 0.001 | < 0.001 | < 0.001 | 162989 | DEDD2 |
| 0.494278133 | < 0.001 | < 0.001 | < 0.001 | 11187 | PKP3 |
| 0.493831068 | < 0.001 | < 0.001 | < 0.001 | 10900 | RUNDC3A |
| 0.493253142 | < 0.001 | < 0.001 | < 0.001 | 207107 | SFTA1P |
| 0.493240207 | < 0.001 | < 0.001 | < 0.001 | 23760 | PITPNB |
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| 0.492285192 | < 0.001 | < 0.001 | < 0.001 | 8270 | LAGE3 |
| 0.491474032 | < 0.001 | < 0.001 | < 0.001 | 85352 | KIAA1644 |
| 0.491170824 | < 0.001 | < 0.001 | < 0.001 | 254263 | CNIH2 |
| 0.490969986 | < 0.001 | < 0.001 | < 0.001 | 5300 | PIN1 |
| 0.490778208 | < 0.001 | < 0.001 | < 0.001 | 5053 | PAH |
| 0.490502208 | < 0.001 | < 0.001 | < 0.001 | 114800 | CCDC85A |
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| 0.490405023 | < 0.001 | < 0.001 | < 0.001 | 284800 | C20orf91 |
| 0.489303619 | < 0.001 | < 0.001 | < 0.001 | 2629 | GBA |
| 0.489135116 | < 0.001 | < 0.001 | < 0.001 | 144108 | SPTY2D1 |
| 0.488783985 | < 0.001 | < 0.001 | < 0.001 | 144402 | CPNE8 |
| 0.487900257 | < 0.001 | < 0.001 | < 0.001 | 157378 | TMEM65 |
| 0.487730533 | < 0.001 | < 0.001 | < 0.001 | 7355 | SLC35A2 |
| 0.487459719 | < 0.001 | < 0.001 | < 0.001 | 90809 | TMEM55B |
| 0.487291247 | < 0.001 | < 0.001 | < 0.001 | 66000 | TMEM108 |
| 0.486973763 | < 0.001 | < 0.001 | < 0.001 | 80086 | TUBA4B |
| 0.486814409 | < 0.001 | < 0.001 | < 0.001 | 8703 | B4GALT3 |
| 0.486723691 | < 0.001 | < 0.001 | < 0.001 | 51298 | THEG |
| 0.486526728 | < 0.001 | < 0.001 | < 0.001 | 2887 | GRB10 |
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| 0.485953987 | < 0.001 | < 0.001 | < 0.001 | 10555 | AGPAT2 |
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| 0.485492676 | < 0.001 | < 0.001 | < 0.001 | 3995 | FADS3 |
| 0.485373497 | < 0.001 | < 0.001 | < 0.001 | 29106 | SCG3 |
| 0.485354036 | < 0.001 | < 0.001 | < 0.001 | 29903 | CCDC106 |
| 0.485271126 | < 0.001 | < 0.001 | < 0.001 | 92235 | DUSP27 |
| 0.485223174 | < 0.001 | < 0.001 | < 0.001 | 6623 | SNCG |
| 0.485198557 | < 0.001 | < 0.001 | < 0.001 | 51559 | NT5DC3 |
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| 0.484724283 | < 0.001 | < 0.001 | < 0.001 | 5524 | PPP2R4 |
| 0.484636188 | < 0.001 | < 0.001 | < 0.001 | 1871 | E2F3 |
| 0.48453638 | < 0.001 | < 0.001 | < 0.001 | 9666 | DZIP3 |
| 0.484391272 | < 0.001 | < 0.001 | < 0.001 | 366 | AQP9 |
| 0.484285027 | < 0.001 | < 0.001 | < 0.001 | 5368 | PNOC |
| 0.484220237 | < 0.001 | < 0.001 | < 0.001 | 7277 | TUBA4A |
| 0.484012902 | < 0.001 | < 0.001 | < 0.001 | 11022 | TDRKH |
| 0.483221173 | < 0.001 | < 0.001 | < 0.001 | 116835 | HSPA12B |
| 0.482823372 | < 0.001 | < 0.001 | < 0.001 | 23151 | GRAMD4 |
| 0.482805252 | < 0.001 | < 0.001 | < 0.001 | 8525 | DGKZ |
| 0.482744336 | < 0.001 | < 0.001 | < 0.001 | 11237 | RNF24 |
| 0.48230508 | < 0.001 | < 0.001 | < 0.001 | 220164 | DOK6 |
| 0.482162535 | < 0.001 | < 0.001 | < 0.001 | 157697 | ERICH1 |
| 0.4818995 | < 0.001 | < 0.001 | < 0.001 | 80776 | B9D2 |
| 0.481830806 | < 0.001 | < 0.001 | < 0.001 | 64866 | CDCP1 |
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| 0.481269717 | < 0.001 | < 0.001 | < 0.001 | 348262 | AC174470.1 |
| 0.481027395 | < 0.001 | < 0.001 | < 0.001 | 29985 | SLC39A3 |
| 0.480779916 | < 0.001 | < 0.001 | < 0.001 | 1662 | DDX10 |

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| 0.386610329 | < 0.001 | 57110 | HRASLS |
| 0.386328876 | < 0.001 | 5580 | PRKCD |
| 0.386326015 | < 0.001 | 202151 | RANBP3L |
| 0.386250377 | < 0.001 | 259236 | TMIE |
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| 0.385946244 | < 0.001 | 130612 | TMEM198 |
| 0.385883957 | < 0.001 | 79611 | ACSS3 |
| 0.385836005 | < 0.001 | 9609 | RAB36 |
| 0.385752439 | < 0.001 | 65997 | RASL11B |
| 0.385602027 | < 0.001 | 255631 | COL24A1 |
| 0.385520577 | < 0.001 | 7158 | TP53BP1 |
| 0.38550359 | < 0.001 | 10493 | VAT1 |
| 0.385426313 | < 0.001 | 55615 | PRR5 |
| 0.385309666 | < 0.001 | 23760 | PITPNB |
| 0.385154665 | < 0.001 | 11022 | TDRKH |
| 0.385153085 | < 0.001 | 8556 | CDC14A |
| 0.385004669 | < 0.001 | 58189 | WFDC1 |
| 0.384807378 | < 0.001 | 79016 | DDA1 |
| 0.384750873 | < 0.001 | 197257 | LDHD |
| 0.384486467 | < 0.001 | 10783 | NEK6 |
| 0.384412169 | < 0.001 | 91851 | CHRDL1 |
| 0.384407103 | < 0.001 | 27132 | CPNE7 |
| 0.384325325 | < 0.001 | 144108 | SPTY2D1 |
| 0.384164602 | < 0.001 | 57801 | HES4 |
| 0.384089589 | < 0.001 | 10197 | PSME3 |
| 0.384082168 | < 0.001 | 114987 | WDR31 |
| 0.384065241 | < 0.001 | 54932 | EXD3 |
| 0.383523881 | < 0.001 | 121665 | AC069234.1 |
| 0.3834216 | < 0.001 | 353189 | SLCO4C1 |
| 0.383373111 | < 0.001 | 6723 | SRM |
| 0.383216619 | < 0.001 | 29844 | TFPT |
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| 0.382788539 | < 0.001 | 116135 | LRRC3B |
| 0.382688046 | < 0.001 | 150147 | C21orf128 |
| 0.381984413 | < 0.001 | 2139 | EYA2 |
| 0.381911486 | < 0.001 | 83636 | C19orf12 |
| 0.381447405 | < 0.001 | 51454 | GULP1 |
| 0.381257772 | < 0.001 | 5276 | SERPINI2 |
| 0.381213635 | < 0.001 | 282969 | C10orf125 |
| 0.38117528 | < 0.001 | 5053 | PAH |
| 0.381082118 | < 0.001 | 33 | ACADL |
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| 0.380907744 | < 0.001 | 1534 | CYB561 |
| 0.380892783 | < 0.001 | 284184 | C17orf89 |
| 0.380687475 | < 0.001 | 81706 | PPP1R14C |
| 0.380548567 | < 0.001 | 93611 | FBXO44 |
| 0.380416274 | < 0.001 | 3797 | KIF3C |
| 0.380133986 | < 0.001 | 1871 | E2F3 |
| 0.380130202 | < 0.001 | 1392 | CRH |
| 0.380054355 | < 0.001 | 64743 | WDR13 |
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| 0.378397018 | < 0.001 | 8703 | B4GALT3 |
| 0.378282726 | < 0.001 | 6640 | SNTA1 |
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| 0.378166646 | < 0.001 | 79639 | TMEM53 |
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| 0.377922356 | < 0.001 | 8309 | ACOX2 |
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| 0.377086163 | < 0.001 | 201254 | STRA13 |
| 0.376836389 | < 0.001 | 64866 | CDCP1 |
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| 0.376781523 | < 0.001 | 5877 | RABIF |
| 0.376715511 | < 0.001 | 5475 | PPEF1 |
| 0.37669301 | < 0.001 | 355 | FAS |
| 0.376677513 | < 0.001 | 8764 | TNFRSF14 |
| 0.376577526 | < 0.001 | 113 | ADCY7 |
| 0.376482308 | < 0.001 | 128240 | APOA1BP |
| 0.376422375 | < 0.001 | 286256 | LCN12 |
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| 0.376278818 | < 0.001 | 8193 | DPF1 |
| 0.376263797 | < 0.001 | 1400 | CRMP1 |
| 0.375822663 | < 0.001 | 84439 | HHIPL1 |

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| 0.480777323 | < 0.001 | < 0.001 | < 0.001 | 54976 | C20orf27 |
| 0.480776042 | < 0.001 | < 0.001 | < 0.001 | 1397 | CRIP2 |
| 0.480172217 | < 0.001 | < 0.001 | < 0.001 | 28964 | GIT1 |
| 0.4799532 | < 0.001 | < 0.001 | < 0.001 | 7090 | TLE3 |
| 0.47994414 | < 0.001 | < 0.001 | < 0.001 | 3852 | KRT5 |
| 0.479920805 | < 0.001 | < 0.001 | < 0.001 | 55530 | SVOP |
| 0.479555428 | < 0.001 | < 0.001 | < 0.001 | 91851 | CHRDL1 |
| 0.479043573 | < 0.001 | < 0.001 | < 0.001 | 27352 | SGSM3 |
| 0.479020238 | < 0.001 | < 0.001 | < 0.001 | 121268 | RHEBL1 |
| 0.478561521 | < 0.001 | < 0.001 | < 0.001 | 84539 | MCHR2 |
| 0.478361994 | < 0.001 | < 0.001 | < 0.001 | 21 | ABCA3 |
| 0.478277743 | < 0.001 | < 0.001 | < 0.001 | 8453 | CUL2 |
| 0.477798313 | < 0.001 | < 0.001 | < 0.001 | 25880 | TMEM186 |
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| 0.477206171 | < 0.001 | < 0.001 | < 0.001 | 83445 | GSG1 |
| 0.477202266 | < 0.001 | < 0.001 | < 0.001 | 10493 | VAT1 |
| 0.477116734 | < 0.001 | < 0.001 | < 0.001 | 4150 | MAZ |
| 0.476572514 | < 0.001 | < 0.001 | < 0.001 | 10501 | SEMA6B |
| 0.476350933 | < 0.001 | < 0.001 | < 0.001 | 80169 | CTC1 |
| 0.476269275 | < 0.001 | < 0.001 | < 0.001 | 60673 | C12orf44 |
| 0.47614488 | < 0.001 | < 0.001 | < 0.001 | 10752 | CHL1 |
| 0.475590318 | < 0.001 | < 0.001 | < 0.001 | 90024 | AP001816.1 |
| 0.475554019 | < 0.001 | < 0.001 | < 0.001 | 23647 | ARFIP2 |
| 0.474827081 | < 0.001 | < 0.001 | < 0.001 | 5297 | PI4KA |
| 0.474824488 | < 0.001 | < 0.001 | < 0.001 | 10381 | RP11-566K11.2 |
| 0.474764884 | < 0.001 | < 0.001 | < 0.001 | 84790 | TUBA1C |
| 0.474729896 | < 0.001 | < 0.001 | < 0.001 | 7753 | ZNF202 |
| 0.474694908 | < 0.001 | < 0.001 | < 0.001 | 646808 | LOC646808 |
| 0.4743554 | < 0.001 | < 0.001 | < 0.001 | 55332 | DRAM1 |
| 0.474166214 | < 0.001 | < 0.001 | < 0.001 | 85369 | FAM40A |
| 0.47406128 | < 0.001 | < 0.001 | < 0.001 | 4236 | MFAP1 |
| 0.473992586 | < 0.001 | < 0.001 | < 0.001 | 25979 | DHRS7B |
| 0.473833203 | < 0.001 | < 0.001 | < 0.001 | 79007 | DBNDD1 |
| 0.473686785 | < 0.001 | < 0.001 | < 0.001 | 5029 | P2RY2 |
| 0.473612934 | < 0.001 | < 0.001 | < 0.001 | 10519 | CIB1 |
| 0.473431528 | < 0.001 | < 0.001 | < 0.001 | 10573 | MRPL28 |
| 0.47329545 | < 0.001 | < 0.001 | < 0.001 | 23507 | LRRC8B |
| 0.472994834 | < 0.001 | < 0.001 | < 0.001 | 5372 | PMM1 |
| 0.472893775 | < 0.001 | < 0.001 | < 0.001 | 4350 | MPG |
| 0.472803056 | < 0.001 | < 0.001 | < 0.001 | 3706 | ITPKA |
| 0.472365081 | < 0.001 | < 0.001 | < 0.001 | 5536 | PPP5C |
| 0.472333997 | < 0.001 | < 0.001 | < 0.001 | 285501 | AC021850.1 |
| 0.471854568 | < 0.001 | < 0.001 | < 0.001 | 148304 | C1orf74 |
| 0.471842885 | < 0.001 | < 0.001 | < 0.001 | 57124 | CD248 |
| 0.471822143 | < 0.001 | < 0.001 | < 0.001 | 5579 | PRKCB |
| 0.471804023 | < 0.001 | < 0.001 | < 0.001 | 55650 | PIGV |
| 0.47179234 | < 0.001 | < 0.001 | < 0.001 | 6861 | SYT5 |
| 0.471699059 | < 0.001 | < 0.001 | < 0.001 | 389740 | GPR116P1 |
| 0.471695185 | < 0.001 | < 0.001 | < 0.001 | 221424 | C6orf154 |
| 0.471355677 | < 0.001 | < 0.001 | < 0.001 | 5563 | PRKAA2 |
| 0.471337527 | < 0.001 | < 0.001 | < 0.001 | 9312 | KCNB2 |
| 0.471314192 | < 0.001 | < 0.001 | < 0.001 | 26468 | LHX6 |
| 0.471117258 | < 0.001 | < 0.001 | < 0.001 | 122525 | C14orf28 |
| 0.470447302 | < 0.001 | < 0.001 | < 0.001 | 26270 | FBXO6 |
| 0.470365673 | < 0.001 | < 0.001 | < 0.001 | 54931 | RG9MTD1 |
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| 0.469989896 | < 0.001 | < 0.001 | < 0.001 | 1477 | CSTF1 |
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| 0.469659507 | < 0.001 | < 0.001 | < 0.001 | 9810 | RNF40 |
| 0.469516933 | < 0.001 | < 0.001 | < 0.001 | 440934 | AC010980.2 |
| 0.46945864 | < 0.001 | < 0.001 | < 0.001 | 79135 | APOO |
| 0.469386071 | < 0.001 | < 0.001 | < 0.001 | 51651 | PTRH2 |
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| 0.468836665 | 1.21179E-14 | < 0.001 | < 0.001 | 116841 | SNAP47 |
| 0.468819827 | 1.35491E-14 | < 0.001 | < 0.001 | 80344 | WDR23 |
| 0.468817234 | 1.37754E-14 | < 0.001 | < 0.001 | 59349 | KLHL12 |
| 0.468516588 | 4.0609E-14 | < 0.001 | < 0.001 | 247 | ALOX15B |
| 0.468381852 | 5.31459E-14 | < 0.001 | < 0.001 | 100506581 | C16orf95 |
| 0.468307972 | 6.01177E-14 | < 0.001 | < 0.001 | 3269 | HRH1 |
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| 0.468092889 | 8.09535E-14 | < 0.001 | < 0.001 | 6804 | STX1A |
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| 0.46787259 | 1.03158E-13 | < 0.001 | < 0.001 | 5877 | RABIF |
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| 0.467682123 | 1.22962E-13 | < 0.001 | < 0.001 | 147381 | CBLN2 |
| 0.467500716 | 1.42519E-13 | < 0.001 | < 0.001 | 1118 | CHIT1 |
| 0.467342615 | 1.59981E-13 | < 0.001 | < 0.001 | 7874 | USP7 |
| 0.466845036 | 2.18289E-13 | < 0.001 | < 0.001 | 5301 | PIN1P1 |
| 0.466817826 | 2.21621E-13 | < 0.001 | < 0.001 | 122616 | C14orf79 |
| 0.466650665 | 2.42403E-13 | < 0.001 | < 0.001 | 10715 | LASS1 |

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| 0.375762463 | < 0.001 | 79047 | KCTD15 |
| 0.375653028 | < 0.001 | 85369 | FAM40A |
| 0.375642598 | < 0.001 | 10752 | CHL1 |
| 0.375617743 | < 0.001 | 8120 | AP3B2 |
| 0.375599027 | < 0.001 | 117154 | DACH2 |
| 0.375516325 | < 0.001 | 286002 | AC078937.4 |
| 0.375507236 | < 0.001 | 84277 | DNAJC30 |
| 0.375466734 | < 0.001 | 84221 | C21orf56 |
| 0.375421613 | < 0.001 | 26220 | DGCR5 |
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| 0.375328898 | < 0.001 | 10040 | TOM1L1 |
| 0.375137448 | < 0.001 | 11282 | MGAT4B |
| 0.375077248 | < 0.001 | 51559 | NT5DC3 |
| 0.374813318 | < 0.001 | 2630 | GBAP |
| 0.374704391 | < 0.001 | 6422 | SFRP1 |
| 0.374591172 | < 0.001 | 10573 | MRPL28 |
| 0.374465972 | < 0.001 | 59342 | SCPEP1 |
| 0.374461532 | < 0.001 | 9168 | TMSB10 |
| 0.374413908 | < 0.001 | 166614 | DCLK2 |
| 0.374345839 | < 0.001 | 10252 | SPRY1 |
| 0.374250531 | < 0.001 | 146556 | C16orf89 |
| 0.374175608 | < 0.001 | 126433 | FBXO27 |
| 0.373945475 | < 0.001 | 51298 | THEG |
| 0.373916119 | < 0.001 | 10882 | AC015936.3 |
| 0.373884976 | < 0.001 | 57576 | KIF17 |
| 0.373510987 | < 0.001 | 5413 | SEPTIN5 |
| 0.373472631 | < 0.001 | 256536 | TCERG1L |
| 0.373424321 | < 0.001 | 11092 | C9orf9 |
| 0.373408973 | < 0.001 | 56917 | MEIS3P2 |
| 0.373286843 | < 0.001 | 3781 | KCNN2 |
| 0.373245269 | < 0.001 | 50944 | SHANK1 |
| 0.373205751 | < 0.001 | 404636 | FAM45A |
| 0.373108417 | < 0.001 | 8001 | GLRA3 |
| 0.373054266 | < 0.001 | 286077 | FAM83H |
| 0.372989416 | < 0.001 | 2184 | FAH |
| 0.372752488 | < 0.001 | 5603 | MAPK13 |
| 0.372388631 | < 0.001 | 8601 | RGS20 |
| 0.372356206 | < 0.001 | 813 | CALU |
| 0.372347116 | < 0.001 | 11237 | RNF24 |
| 0.371970624 | < 0.001 | 29116 | MYLIP |
| 0.371944785 | < 0.001 | 65992 | DDRGK1 |
| 0.371926904 | < 0.001 | 10417 | SPON2 |
| 0.371898144 | < 0.001 | 84790 | TUBA1C |
| 0.371685058 | < 0.001 | 8945 | BTRC |
| 0.371673703 | < 0.001 | 79948 | AC006273.1 |
| 0.371475697 | < 0.001 | 3995 | FADS3 |
| 0.371284574 | < 0.001 | 1325 | CORT |
| 0.371153206 | < 0.001 | 56604 | TUBB7P |
| 0.371125937 | < 0.001 | 51473 | DCDC2 |
| 0.371034771 | < 0.001 | 29985 | SLC39A3 |
| 0.370928913 | < 0.001 | 8671 | SLC4A4 |
| 0.370795012 | < 0.001 | 55521 | TRIM36 |
| 0.370776504 | < 0.001 | 7753 | ZNF202 |
| 0.370663434 | < 0.001 | 114794 | LRRC62 |
| 0.370634586 | < 0.001 | 2247 | FGF2 |
| 0.370565563 | < 0.001 | 55907 | CMAS |
| 0.370421708 | < 0.001 | 85456 | TNKS1BP1 |
| 0.370348632 | < 0.001 | 84934 | C12orf52 |
| 0.37030223 | < 0.001 | 23031 | MAST3 |
| 0.369945139 | < 0.001 | 115703 | SNX26 |
| 0.369828284 | < 0.001 | 389740 | GPR116P1 |
| 0.369825006 | < 0.001 | 6920 | TCEA3 |
| 0.369764715 | < 0.001 | 5026 | P2RX5 |
| 0.369584441 | < 0.001 | 64757 | MOSC1 |
| 0.369278312 | < 0.001 | 1662 | DDX10 |
| 0.369273871 | < 0.001 | 10715 | LASS1 |
| 0.369156003 | < 0.001 | 7137 | TNNI3 |
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| 0.368659794 | < 0.001 | 642943 | LOC642943 |
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| 0.368343592 | < 0.001 | 284111 | SLC13A5 |
| 0.368314952 | < 0.001 | 2737 | GLI3 |
| 0.368310034 | < 0.001 | 81533 | ITFG1 |
| 0.368286818 | < 0.001 | 5361 | PLXNA1 |
| 0.368267596 | < 0.001 | 4862 | NPAS2 |
| 0.368247956 | < 0.001 | 8933 | FAM127A |
| 0.368166089 | < 0.001 | 57628 | DPP10 |
| 0.368092865 | < 0.001 | 57484 | RNF150 |
| 0.368071884 | < 0.001 | 5714 | PSMD8 |
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|---|---|---|---|---|---|
| 0.46650812 | 2.60569E-13 | < 0.001 | < 0.001 | 896 | CCND3 |
| 0.466405779 | 2.73833E-13 | < 0.001 | < 0.001 | 79047 | KCTD15 |
| 0.466236025 | 2.9643E-13 | < 0.001 | < 0.001 | 65985 | AACS |
| 0.466164768 | 3.06094E-13 | < 0.001 | < 0.001 | 5650 | KLK7 |
| 0.465563506 | 3.92148E-13 | < 0.001 | < 0.001 | 1176 | AP3S1 |
| 0.465505213 | 4.00981E-13 | < 0.001 | < 0.001 | 826 | CAPNS1 |
| 0.464902669 | 4.96709E-13 | < 0.001 | < 0.001 | 5361 | PLXNA1 |
| 0.464878023 | 5.0083E-13 | < 0.001 | < 0.001 | 10252 | SPRY1 |
| 0.464779556 | 5.17439E-13 | < 0.001 | < 0.001 | 7070 | THY1 |
| 0.464753628 | 5.21801E-13 | < 0.001 | < 0.001 | 7325 | UBE2E2 |
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| 0.464271605 | 6.07125E-13 | < 0.001 | < 0.001 | 65059 | RAPH1 |
| 0.464180887 | 6.23994E-13 | < 0.001 | < 0.001 | 6309 | SC5DL |
| 0.464167923 | 6.26298E-13 | < 0.001 | < 0.001 | 126321 | C19orf28 |
| 0.464139462 | 6.31743E-13 | < 0.001 | < 0.001 | 399697 | CTXN2 |
| 0.464122593 | 6.34827E-13 | < 0.001 | < 0.001 | 1173 | AP2M1 |
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| 0.463692397 | 7.18413E-13 | < 0.001 | < 0.001 | 7167 | TPI1 |
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| 0.463259608 | 8.08041E-13 | < 0.001 | < 0.001 | 55615 | PRR5 |
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| 0.462751657 | 9.20968E-13 | < 0.001 | < 0.001 | 23046 | KIF21B |
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| 0.462120593 | 1.07346E-12 | < 0.001 | < 0.001 | 100131176 | RP4-555L14.5 |
| 0.461927503 | 1.12308E-12 | < 0.001 | < 0.001 | 29969 | MDFIC |
| 0.46157378 | 1.21752E-12 | < 0.001 | < 0.001 | 7262 | PHLDA2 |
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| 0.458896697 | 2.10818E-12 | < 0.001 | < 0.001 | 284434 | NWD1 |
| 0.458594769 | 2.23099E-12 | < 0.001 | < 0.001 | 79096 | C11orf49 |
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| 0.457714945 | 2.6188E-12 | < 0.001 | < 0.001 | 613 | BCR |
| 0.457567215 | 2.68843E-12 | < 0.001 | < 0.001 | 56904 | SH3GLB2 |
| 0.457551658 | 2.69585E-12 | < 0.001 | < 0.001 | 79969 | C6orf134 |
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| 0.45664072 | 3.15858E-12 | < 0.001 | < 0.001 | 51560 | RAB6B |
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| 0.456018746 | 3.50793E-12 | < 0.001 | < 0.001 | 1501 | CTNND2 |
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| 0.455282748 | 3.95973E-12 | < 0.001 | < 0.001 | 33 | ACADL |
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| 0.454606354 | 4.41482E-12 | < 0.001 | < 0.001 | 340348 | TSPAN33 |
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| 0.367538393 | < 0.001 | 5582 | PRKCG |
| 0.367215961 | < 0.001 | 9896 | FIG4 |
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| 0.367091089 | < 0.001 | 91663 | MYADM |
| 0.367064178 | < 0.001 | 5055 | SERPINB2 |
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| 0.366697609 | < 0.001 | 5819 | PVRL2 |
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| 0.366542965 | < 0.001 | 196383 | RILPL2 |
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| 0.366410524 | < 0.001 | 219670 | ENKUR |
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| 0.366262257 | < 0.001 | 1006 | CDH8 |
| 0.366082549 | < 0.001 | 404217 | CTXN1 |
| 0.365998328 | < 0.001 | 221395 | GPR116 |
| 0.365965754 | < 0.001 | 27345 | KCNMB4 |
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| 0.365800768 | < 0.001 | 26468 | LHX6 |
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| 0.365243047 | < 0.001 | 55620 | STAP2 |
| 0.365168184 | < 0.001 | 122616 | C14orf79 |
| 0.365093678 | < 0.001 | 343450 | KCNT2 |
| 0.364998549 | < 0.001 | 5274 | SERPINI1 |
| 0.364907473 | < 0.001 | 79017 | GGCT |
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| 0.36389935 | < 0.001 | 118812 | MORN4 |
| 0.36374712 | < 0.001 | 199745 | THAP8 |
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| 0.363668352 | < 0.001 | 7301 | TYRO3 |
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| 0.363354206 | < 0.001 | 9070 | ASH2L |
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| 0.363151282 | < 0.001 | 58512 | DLGAP3 |
| 0.362760484 | < 0.001 | 5499 | PPP1CA |
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| 0.362482995 | < 0.001 | 8663 | EIF3S8 |
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| 0.454172254 | 4.72843E-12 | < 0.001 | < 0.001 | 5595 | MAPK3 |
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| 0.452863514 | 5.78586E-12 | < 0.001 | < 0.001 | 4897 | NRCAM |
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| 0.351482868 | < 0.001 | 10295 | BCKDK |
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| 0.351423025 | < 0.001 | 23022 | PALLD |
| 0.351408452 | < 0.001 | 51343 | FZR1 |
| 0.351399451 | < 0.001 | 55588 | MED29 |
| 0.351391792 | < 0.001 | 56884 | FSTL5 |
| 0.351328075 | < 0.001 | 64792 | RABL5 |
| 0.351243675 | < 0.001 | 7101 | NR2E1 |
| 0.350952864 | < 0.001 | 286042 | AC068020.3 |
| 0.350782156 | < 0.001 | 64777 | RMND5B |
| 0.350762725 | < 0.001 | 10955 | SERINC3 |
| 0.350757152 | < 0.001 | 80152 | CENPT |
| 0.350663394 | < 0.001 | 9836 | LCMT2 |
| 0.350513011 | < 0.001 | 11212 | PROSC |
| 0.350182086 | < 0.001 | 23462 | HEY1 |
| 0.349922687 | < 0.001 | 79158 | GNPTAB |
| 0.349788249 | < 0.001 | 440556 | RP1-163G9.1 |
| 0.349743605 | < 0.001 | 83468 | GLT8D2 |
| 0.34969604 | < 0.001 | 79135 | APOO |
| 0.349577308 | < 0.001 | 83879 | CDCA7 |
| 0.349496752 | < 0.001 | 4201 | MEA1 |
| 0.349480391 | < 0.001 | 79442 | LRRC2 |
| 0.349466383 | < 0.001 | 11279 | KLF8 |
| 0.34936583 | < 0.001 | 79645 | EFCAB1 |
| 0.349124044 | < 0.001 | 7010 | TEK |
| 0.349080175 | < 0.001 | 23743 | BHMT2 |
| 0.348993808 | < 0.001 | 5119 | CHMP1A |
| 0.348882467 | < 0.001 | 147381 | CBLN2 |
| 0.348881096 | < 0.001 | 9761 | MLEC |
| 0.348857194 | < 0.001 | 5176 | SERPINF1 |
| 0.348735034 | < 0.001 | 4681 | NBL1 |
| 0.348706394 | < 0.001 | 10025 | MED16 |
| 0.348668039 | < 0.001 | 23576 | DDAH1 |
| 0.348504394 | < 0.001 | 84417 | C2orf40 |
| 0.348345459 | < 0.001 | 389206 | BEND4 |
| 0.348211825 | < 0.001 | 91653 | BOC |
| 0.348150402 | < 0.001 | 23647 | ARFIP2 |
| 0.348124772 | < 0.001 | 55800 | SCN3B |
| 0.347930819 | < 0.001 | 8448 | DOC2A |
| 0.347757041 | < 0.001 | 23507 | LRRC8B |
| 0.347751319 | < 0.001 | 144406 | WDR66 |
| 0.347743899 | < 0.001 | 10413 | YAP1 |
| 0.347737342 | < 0.001 | 9547 | CXCL14 |
| 0.347690463 | < 0.001 | 6881 | TAF10 |
| 0.347654909 | < 0.001 | 399726 | C10orf114 |
| 0.347634822 | < 0.001 | 167681 | PRSS23 |
| 0.347599268 | < 0.001 | 863 | CBFA2T3 |
| 0.347558051 | < 0.001 | 114882 | OSBPL8 |

| | | | | | |
|---|---|---|---|---|---|
| 0.433018565 | 7.52163E-11 | < 0.001 | < 0.001 | 81929 | SEH1L |
| 0.432892889 | 7.632E-11 | < 0.001 | < 0.001 | 221074 | SLC39A12 |
| 0.432852685 | 7.66767E-11 | < 0.001 | < 0.001 | 400456 | CTD-2536I1.1 |
| 0.432799578 | 7.71489E-11 | < 0.001 | < 0.001 | 54480 | CSGLCA-T |
| 0.432615548 | 7.88066E-11 | < 0.001 | < 0.001 | 54039 | PCBP3 |
| 0.432579279 | 7.91373E-11 | < 0.001 | < 0.001 | 10237 | SLC35B1 |
| 0.432568908 | 7.92318E-11 | < 0.001 | < 0.001 | 55633 | TBC1D22B |
| 0.43254298 | 7.94713E-11 | < 0.001 | < 0.001 | 140893 | C20orf151 |
| 0.432491153 | 7.99466E-11 | < 0.001 | < 0.001 | 4201 | MEA1 |
| 0.432474315 | 8.01039E-11 | 0.001 | 1 | 8216 | LZTR1 |
| 0.432439327 | 8.04272E-11 | < 0.001 | < 0.001 | 79643 | CHMP6 |
| 0.432222933 | 8.24583E-11 | < 0.001 | < 0.001 | 54463 | FAM134B |
| 0.432182789 | 8.2842E-11 | < 0.001 | < 0.001 | 54758 | KLHDC4 |
| 0.432168514 | 8.29776E-11 | < 0.001 | < 0.001 | 64759 | TNS3 |
| 0.432162046 | 8.30384E-11 | 0.001 | 1 | 55290 | BRF2 |
| 0.43214649 | 8.31885E-11 | < 0.001 | < 0.001 | 10287 | RGS19 |
| 0.432105035 | 8.35864E-11 | 0.001 | 1 | 126567 | FAM148C |
| 0.432083011 | 8.37987E-11 | < 0.001 | < 0.001 | 368 | ABCC6 |
| 0.432053208 | 8.40856E-11 | < 0.001 | < 0.001 | 6499 | SKIV2L |
| 0.431660593 | 8.7967E-11 | < 0.001 | < 0.001 | 728175 | AC103540.1 |
| 0.431550413 | 8.90849E-11 | < 0.001 | < 0.001 | 79017 | GGCT |
| 0.431300342 | 9.16742E-11 | < 0.001 | < 0.001 | 91133 | L3MBTL4 |
| 0.431127995 | 9.34995E-11 | < 0.001 | < 0.001 | 25759 | SHC2 |
| 0.431028217 | 9.45716E-11 | < 0.001 | < 0.001 | 57470 | LRRC47 |
| 0.43093881 | 9.55423E-11 | < 0.001 | < 0.001 | 10874 | NMU |
| 0.430700392 | 9.8176E-11 | < 0.001 | < 0.001 | 8310 | ACOX3 |
| 0.430688739 | 9.83056E-11 | < 0.001 | < 0.001 | 7905 | REEP5 |
| 0.43062523 | 9.90198E-11 | < 0.001 | < 0.001 | 6863 | TAC1 |
| 0.430438638 | 1.01147E-10 | < 0.001 | < 0.001 | 4604 | MYBPC1 |
| 0.430401057 | 1.0158E-10 | < 0.001 | < 0.001 | 755 | C21orf2 |
| 0.43036738 | 1.01969E-10 | < 0.001 | < 0.001 | 53349 | ZFYVE1 |
| 0.430298716 | 1.02769E-10 | < 0.001 | < 0.001 | 57600 | FNIP2 |
| 0.430029184 | 1.05963E-10 | < 0.001 | < 0.001 | 29765 | TMOD4 |
| 0.430022717 | 1.06042E-10 | < 0.001 | < 0.001 | 83888 | FGFBP2 |
| 0.430018812 | 1.06088E-10 | < 0.001 | < 0.001 | 255022 | CALHM1 |
| 0.429942369 | 1.07012E-10 | < 0.001 | < 0.001 | 81620 | CDT1 |
| 0.429911256 | 1.07391E-10 | < 0.001 | < 0.001 | 79016 | DDA1 |
| 0.42969355 | 1.1007E-10 | < 0.001 | < 0.001 | 285590 | SH3PXD2B |
| 0.429355383 | 1.14363E-10 | 0.001 | 1 | 2275 | FHL3 |
| 0.42918694 | 1.1656E-10 | < 0.001 | < 0.001 | 25789 | TMEM59L |
| 0.429144174 | 1.17122E-10 | < 0.001 | < 0.001 | 84261 | FBXW9 |
| 0.428984791 | 1.19247E-10 | < 0.001 | < 0.001 | 25803 | SPDEF |
| 0.428816319 | 1.2153E-10 | < 0.001 | < 0.001 | 55199 | FAM86C |
| 0.42879042 | 1.21889E-10 | < 0.001 | < 0.001 | 63943 | FKBPL |
| 0.428768396 | 1.22191E-10 | < 0.001 | < 0.001 | 142940 | TRUB1 |
| 0.428719133 | 1.2287E-10 | < 0.001 | < 0.001 | 9274 | BCL7C |
| 0.42864266 | 1.23931E-10 | < 0.001 | < 0.001 | 114987 | WDR31 |
| 0.428583086 | 1.24764E-10 | < 0.001 | < 0.001 | 7216 | TRO |
| 0.428470343 | 1.26354E-10 | < 0.001 | < 0.001 | 121665 | AC069234.1 |
| 0.428417206 | 1.27109E-10 | < 0.001 | < 0.001 | 90637 | ZFAND2A |
| 0.428386122 | 1.27555E-10 | < 0.001 | < 0.001 | 55258 | THNSL2 |
| 0.428243577 | 1.29612E-10 | < 0.001 | < 0.001 | 6904 | TBCD |
| 0.42812565 | 1.31337E-10 | < 0.001 | < 0.001 | 1734 | DIO2 |
| 0.428119183 | 1.31433E-10 | < 0.001 | < 0.001 | 220001 | VWCE |
| 0.42807126 | 1.32139E-10 | 0.001 | 1 | 55509 | BATF3 |
| 0.428068638 | 1.32178E-10 | < 0.001 | < 0.001 | 374860 | C21orf110 |
| 0.428032368 | 1.32718E-10 | < 0.001 | < 0.001 | 57537 | SORCS2 |
| 0.427677304 | 1.38098E-10 | < 0.001 | < 0.001 | 7781 | SLC30A3 |
| 0.42764622 | 1.38577E-10 | < 0.001 | < 0.001 | 869 | CBLN1 |
| 0.427490741 | 1.41005E-10 | < 0.001 | < 0.001 | 54584 | GNB1L |
| 0.427476496 | 1.41231E-10 | < 0.001 | < 0.001 | 30010 | NXPH1 |
| 0.427247137 | 1.4489E-10 | < 0.001 | < 0.001 | 6019 | RLN2 |
| 0.427243233 | 1.44952E-10 | < 0.001 | < 0.001 | 1032 | CDKN2D |
| 0.427127928 | 1.46831E-10 | 0.001 | 1 | 79822 | ARHGAP28 |
| 0.427124023 | 1.46892E-10 | < 0.001 | < 0.001 | 8935 | SKAP2 |
| 0.4270657 | 1.47849E-10 | < 0.001 | < 0.001 | 1006 | CDH8 |
| 0.427038491 | 1.48299E-10 | < 0.001 | < 0.001 | 79084 | WDR77 |
| 0.427015185 | 1.48682E-10 | < 0.001 | < 0.001 | 83401 | ELOVL3 |
| 0.426902443 | 1.50562E-10 | < 0.001 | < 0.001 | 54932 | EXD3 |
| 0.426872641 | 1.51061E-10 | < 0.001 | < 0.001 | 441452 | FAM75C1 |
| 0.426866144 | 1.51169E-10 | < 0.001 | < 0.001 | 57381 | RHOJ |
| 0.426765114 | 1.52878E-10 | < 0.001 | < 0.001 | 6675 | UAP1 |
| 0.426717162 | 1.53696E-10 | < 0.001 | < 0.001 | 728666 | PRELID1P1 |
| 0.426625133 | 1.55276E-10 | < 0.001 | < 0.001 | 84342 | COG8 |
| 0.426559061 | 1.5642E-10 | < 0.001 | < 0.001 | 166614 | DCLK2 |
| 0.426525354 | 1.57006E-10 | 0.001 | 1 | 29916 | SNX11 |
| 0.426476151 | 1.57864E-10 | 0.001 | 1 | 57544 | TXNDC16 |
| 0.426393181 | 1.59326E-10 | < 0.001 | < 0.001 | 100144748 | AC063965.2 |
| 0.426362097 | 1.59874E-10 | < 0.001 | < 0.001 | 51253 | MRPL37 |
| 0.42627269 | 1.61467E-10 | < 0.001 | < 0.001 | 93611 | FBXO44 |
| 0.426262319 | 1.61652E-10 | 0.001 | 1 | 7846 | TUBA1A |
| 0.426237702 | 1.62094E-10 | < 0.001 | < 0.001 | 1415 | CRYBB2 |

| | | | |
|---|---|---|---|
| 0.347527266 | < 0.001 | 347688 | TUBB8 |
| 0.347430766 | < 0.001 | 11156 | PTP4A3 |
| 0.347382903 | < 0.001 | 80304 | C2orf44 |
| 0.347379625 | < 0.001 | 284217 | LAMA1 |
| 0.347272545 | < 0.001 | 6450 | SH3BGR |
| 0.34717828 | < 0.001 | 136 | ADORA2B |
| 0.346986771 | < 0.001 | 65263 | PYCRL |
| 0.346955568 | < 0.001 | 8715 | NOL4 |
| 0.346833199 | < 0.001 | 115265 | DDIT4L |
| 0.346605211 | < 0.001 | 54622 | ARL15 |
| 0.346556634 | < 0.001 | 9215 | LARGE |
| 0.346511841 | < 0.001 | 4897 | NRCAM |
| 0.346506923 | < 0.001 | 7534 | YWHAZ |
| 0.346483976 | < 0.001 | 112812 | FDX1L |
| 0.346462339 | < 0.001 | 2523 | FUT1 |
| 0.346433401 | < 0.001 | 2280 | FKBP1A |
| 0.346312553 | < 0.001 | 1211 | CLTA |
| 0.34630233 | < 0.001 | 23251 | KIAA1024 |
| 0.346256554 | < 0.001 | 114990 | VASN |
| 0.346045405 | < 0.001 | 652968 | GATSL3 |
| 0.345968693 | < 0.001 | 90809 | TMEM55B |
| 0.345856339 | < 0.001 | 220972 | MARCHF8 |
| 0.345810503 | < 0.001 | 162989 | DEDD2 |
| 0.345804125 | < 0.001 | 345079 | ANKRD56 |
| 0.34542501 | < 0.001 | 1155 | TBCB |
| 0.345413864 | < 0.001 | 116154 | PHACTR3 |
| 0.345394224 | < 0.001 | 1844 | DUSP2 |
| 0.345390856 | < 0.001 | 9274 | BCL7C |
| 0.345351279 | < 0.001 | 90956 | ADCK2 |
| 0.344919652 | < 0.001 | 22881 | ANKRD6 |
| 0.344900787 | < 0.001 | 401097 | AC112641.2 |
| 0.344860077 | < 0.001 | 4430 | MYO1B |
| 0.344785273 | < 0.001 | 6441 | SFTPD |
| 0.34476465 | < 0.001 | 284485 | C1orf230 |
| 0.344721496 | < 0.001 | 3175 | ONECUT1 |
| 0.344717294 | < 0.001 | 389073 | C2orf80 |
| 0.344700933 | < 0.001 | 23243 | ANKRD28 |
| 0.344611079 | < 0.001 | 389384 | C6orf222 |
| 0.344569921 | < 0.001 | 10776 | ARPP19 |
| 0.344482362 | < 0.001 | 51253 | MRPL37 |
| 0.34446916 | < 0.001 | 65123 | INTS3 |
| 0.344465017 | < 0.001 | 2281 | FKBP1B |
| 0.344450295 | < 0.001 | 84557 | MAP1LC3A |
| 0.344303221 | < 0.001 | 6508 | SLC4A3 |
| 0.344272017 | < 0.001 | 23161 | SNX13 |
| 0.344234139 | < 0.001 | 25789 | TMEM59L |
| 0.344232947 | < 0.001 | 1809 | DPYSL3 |
| 0.344201565 | < 0.001 | 2769 | GNA15 |
| 0.344118029 | < 0.001 | 153579 | BTNL9 |
| 0.34410271 | < 0.001 | 202051 | AC135457.3 |
| 0.343978643 | < 0.001 | 705 | BYSL |
| 0.343940079 | < 0.001 | 55697 | VAC14 |
| 0.343847573 | < 0.001 | 139728 | PNCK |
| 0.343722075 | < 0.001 | 80243 | PREX2 |
| 0.343694657 | < 0.001 | 389493 | RP4-725G10.1 |
| 0.343583524 | < 0.001 | 7477 | WNT7B |
| 0.343535811 | < 0.001 | 4988 | OPRM1 |
| 0.343498796 | < 0.001 | 1906 | EDN1 |
| 0.343291432 | < 0.001 | 154091 | SLC2A12 |
| 0.34310323 | < 0.001 | 440465 | AC013356.3 |
| 0.342987865 | < 0.001 | 30008 | EFEMP2 |
| 0.342900574 | < 0.001 | 1300 | COL10A1 |
| 0.34289223 | < 0.001 | 55290 | BRF2 |
| 0.342876881 | < 0.001 | 80258 | EFHC2 |
| 0.34273693 | < 0.001 | 1131 | CHRM3 |
| 0.342633367 | < 0.001 | 55225 | RAVER2 |
| 0.342599809 | < 0.001 | 81031 | SLC2A10 |
| 0.342589945 | < 0.001 | 729993 | AC092324.1 |
| 0.342579097 | < 0.001 | 84100 | ARL6 |
| 0.342558235 | < 0.001 | 55609 | ZNF280C |
| 0.34247151 | < 0.001 | 5831 | PYCR1 |
| 0.342420459 | < 0.001 | 29903 | CCDC106 |
| 0.342408746 | < 0.001 | 57348 | TTYH1 |
| 0.342341006 | < 0.001 | 59307 | SIGIRR |
| 0.342328578 | < 0.001 | 64410 | KLHL25 |
| 0.34229666 | < 0.001 | 2907 | GRINA |
| 0.342009604 | < 0.001 | 152006 | RNF38 |
| 0.341518372 | < 0.001 | 642273 | FAM110C |
| 0.341393232 | < 0.001 | 7216 | TRO |
| 0.341374606 | < 0.001 | 7923 | HSD17B8 |
| 0.341367185 | < 0.001 | 29969 | MDFIC |
| 0.341288388 | < 0.001 | 57707 | KIAA1609 |

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|---|---|---|---|---|---|
| 0.426126271 | 1.6411E-10 | < 0.001 | < 0.001 | 80258 | EFHC2 |
| 0.425996661 | 1.66481E-10 | < 0.001 | < 0.001 | 84259 | DCUN1D5 |
| 0.425821751 | 1.69736E-10 | < 0.001 | < 0.001 | 6915 | TBXA2R |
| 0.425797135 | 1.70196E-10 | < 0.001 | < 0.001 | 29099 | COMMD9 |
| 0.425777704 | 1.70561E-10 | < 0.001 | < 0.001 | 5833 | PCYT2 |
| 0.425773829 | 1.70634E-10 | < 0.001 | < 0.001 | 10376 | TUBA1B |
| 0.425602764 | 1.73891E-10 | < 0.001 | < 0.001 | 338761 | C1QL4 |
| 0.425501704 | 1.75841E-10 | < 0.001 | < 0.001 | 8325 | FZD8 |
| 0.425500393 | 1.75867E-10 | < 0.001 | < 0.001 | 27037 | TRMT2A |
| 0.425434321 | 1.77153E-10 | 0.001 | 1 | 343450 | KCNT2 |
| 0.425263256 | 1.80526E-10 | < 0.001 | < 0.001 | 65992 | DDRGK1 |
| 0.425234795 | 1.81094E-10 | < 0.001 | < 0.001 | 9114 | ATP6V0D1 |
| 0.425164789 | 1.82496E-10 | < 0.001 | < 0.001 | 50626 | CYHR1 |
| 0.424930245 | 1.8727E-10 | < 0.001 | < 0.001 | 84277 | DNAJC30 |
| 0.42478773 | 1.90228E-10 | < 0.001 | < 0.001 | 25804 | LSM4 |
| 0.424777359 | 1.90446E-10 | < 0.001 | < 0.001 | 5950 | RBP4 |
| 0.424774766 | 1.90497E-10 | < 0.001 | < 0.001 | 8321 | FZD1 |
| 0.424226642 | 2.02307E-10 | < 0.001 | < 0.001 | 80700 | UBXN6 |
| 0.424148917 | 2.04036E-10 | < 0.001 | < 0.001 | 1155 | TBCB |
| 0.423879385 | 2.10144E-10 | < 0.001 | < 0.001 | 140545 | RNF32 |
| 0.423802912 | 2.11911E-10 | < 0.001 | < 0.001 | 9508 | ADAMTS3 |
| 0.42370832 | 2.14109E-10 | < 0.001 | < 0.001 | 126526 | C19orf47 |
| 0.423666865 | 2.15084E-10 | < 0.001 | < 0.001 | 23743 | BHMT2 |
| 0.423661709 | 2.15206E-10 | < 0.001 | < 0.001 | 201191 | SAMD14 |
| 0.423639685 | 2.15724E-10 | < 0.001 | < 0.001 | 2038 | EPB42 |
| 0.423456937 | 2.20071E-10 | 0.002 | 1 | 728635 | DHRS4L1 |
| 0.423294991 | 2.23992E-10 | < 0.001 | < 0.001 | 7130 | TNFAIP6 |
| 0.423236668 | 2.25423E-10 | < 0.001 | < 0.001 | 11143 | MYST2 |
| 0.423061728 | 2.29757E-10 | < 0.001 | < 0.001 | 5331 | PLCB3 |
| 0.423003435 | 2.31219E-10 | < 0.001 | < 0.001 | 132112 | RTP1 |
| 0.422978789 | 2.3184E-10 | < 0.001 | < 0.001 | 644172 | LOC644172 |
| 0.422807783 | 2.36196E-10 | < 0.001 | < 0.001 | 124944 | C17ORF49 |
| 0.422739089 | 2.37964E-10 | < 0.001 | < 0.001 | 79958 | DENND1C |
| 0.422676891 | 2.39582E-10 | < 0.001 | < 0.001 | 25898 | RCHY1 |
| 0.422671705 | 2.39712E-10 | < 0.001 | < 0.001 | 4241 | MFI2 |
| 0.422630221 | 2.40797E-10 | < 0.001 | < 0.001 | 84334 | APOPT1 |
| 0.422568053 | 2.42429E-10 | 0.001 | 1 | 3042 | HBM |
| 0.422520101 | 2.43692E-10 | 0.001 | 1 | 10044 | SH2D3C |
| 0.422294617 | 2.49729E-10 | < 0.001 | < 0.001 | 84536 | C21orf67 |
| 0.422075659 | 2.55724E-10 | < 0.001 | < 0.001 | 84065 | TMEM222 |
| 0.422016054 | 2.57381E-10 | < 0.001 | < 0.001 | 57707 | KIAA1609 |
| 0.421984941 | 2.58253E-10 | < 0.001 | < 0.001 | 64792 | RABL5 |
| 0.42179054 | 2.63742E-10 | < 0.001 | < 0.001 | 55352 | C17orf79 |
| 0.421684325 | 2.66789E-10 | < 0.001 | < 0.001 | 339965 | CCDC158 |
| 0.421375901 | 2.75822E-10 | < 0.001 | < 0.001 | 57181 | SLC39A10 |
| 0.421281308 | 2.78653E-10 | < 0.001 | < 0.001 | 6450 | SH3BGR |
| 0.421278745 | 2.78732E-10 | < 0.001 | < 0.001 | 51108 | METTL9 |
| 0.421251506 | 2.79547E-10 | < 0.001 | < 0.001 | 5700 | PSMC1 |
| 0.421106398 | 2.83962E-10 | < 0.001 | < 0.001 | 283385 | MORN3 |
| 0.421022147 | 2.86549E-10 | < 0.001 | < 0.001 | 322 | APBB1 |
| 0.420967758 | 2.88235E-10 | 0.001 | 1 | 63933 | CCDC90A |
| 0.420940518 | 2.89075E-10 | < 0.001 | < 0.001 | 63976 | PRDM16 |
| 0.420880914 | 2.90939E-10 | < 0.001 | < 0.001 | 203068 | TUBB |
| 0.42085889 | 2.9163E-10 | < 0.001 | < 0.001 | 1741 | DLG3 |
| 0.420827806 | 2.9261E-10 | < 0.001 | < 0.001 | 1463 | NCAN |
| 0.420646399 | 2.98378E-10 | 0.001 | 1 | 202051 | AC135457.3 |
| 0.420541435 | 3.01758E-10 | < 0.001 | < 0.001 | 6618 | SNAPC2 |
| 0.420410544 | 3.06034E-10 | < 0.001 | < 0.001 | 8193 | DPF1 |
| 0.420243412 | 3.11576E-10 | < 0.001 | < 0.001 | 53981 | CPSF2 |
| 0.420230418 | 3.12007E-10 | < 0.001 | < 0.001 | 5358 | PLS3 |
| 0.419954419 | 3.21381E-10 | < 0.001 | < 0.001 | 64285 | RHBDF1 |
| 0.419833928 | 3.25553E-10 | < 0.001 | < 0.001 | 11079 | RER1 |
| 0.419769138 | 3.27826E-10 | < 0.001 | < 0.001 | 127281 | C1orf93 |
| 0.419765264 | 3.27958E-10 | < 0.001 | < 0.001 | 57801 | HES4 |
| 0.41964215 | 3.32308E-10 | 0.001 | 1 | 401720 | FIGNL2 |
| 0.419528157 | 3.36381E-10 | < 0.001 | < 0.001 | 572558 | RP11-561O23.6 |
| 0.419526815 | 3.36434E-10 | < 0.001 | < 0.001 | 91695 | RRP7B |
| 0.419442624 | 3.39475E-10 | < 0.001 | < 0.001 | 4139 | MARK1 |
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| 0.416778475 | 4.50495E-10 | < 0.001 | < 0.001 | 3747 | KCNC2 |
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| 0.412812054 | 6.82163E-10 | < 0.001 | < 0.001 | 79778 | MICALL2 |
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| 0.409647763 | 9.45028E-10 | < 0.001 | < 0.001 | 81533 | ITFG1 |
| 0.409641266 | 9.4566E-10 | < 0.001 | < 0.001 | 59342 | SCPEP1 |
| 0.409625739 | 9.47166E-10 | < 0.001 | < 0.001 | 51573 | GDE1 |
| 0.409615338 | 9.48182E-10 | 0.002 | 1 | 23640 | HSPBP1 |
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| 0.409458578 | 9.63498E-10 | 0.002 | 1 | 9896 | FIG4 |
| 0.409426183 | 9.66695E-10 | < 0.001 | < 0.001 | 5149 | PDE6H |
| 0.40934974 | 9.74287E-10 | < 0.001 | < 0.001 | 574407 | C1orf145 |
| 0.409327716 | 9.76485E-10 | < 0.001 | < 0.001 | 23580 | CDC42EP4 |
| 0.409291416 | 9.80101E-10 | < 0.001 | < 0.001 | 399947 | C11orf87 |
| 0.409051716 | 1.00441E-09 | 0.001 | 1 | 1592 | CYP26A1 |
| 0.409019291 | 1.00773E-09 | 0.001 | 1 | 84527 | ZNF559 |
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| 0.407856971 | 1.13434E-09 | 0.001 | 1 | 11188 | NISCH |
| 0.40785569 | 1.1345E-09 | 0.001 | 1 | 1142 | CHRNB3 |
| 0.407851785 | 1.13494E-09 | < 0.001 | < 0.001 | 51102 | MECR |
| 0.407806456 | 1.14019E-09 | < 0.001 | < 0.001 | 64881 | PCDH20 |
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| 0.407702804 | 1.15225E-09 | 0.001 | 1 | 9609 | RAB36 |
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| 0.407586187 | 1.16598E-09 | < 0.001 | < 0.001 | 57172 | CAMK1G |
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| 0.33138153 | < 0.001 | 23673 | STX12 |
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| 0.329108208 | < 0.001 | 79132 | DHX58 |
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| 0.32848677 | < 0.001 | 254778 | C8orf46 |
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| 0.39559105 | 3.83244E-09 | 0.002 | 1 | 8933 | FAM127A |
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| 0.314440906 | < 0.001 | 49855 | SCAPER |
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| 0.313875258 | < 0.001 | 168090 | C6orf118 |
| 0.31385383 | < 0.001 | 11264 | PXMP4 |
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| 0.313704193 | < 0.001 | 25880 | TMEM186 |
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| 0.31281662 | < 0.001 | 963 | CD53 |
| 0.312773913 | < 0.001 | 25809 | TTLL1 |
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| 0.312750846 | < 0.001 | 64130 | LIN7B |
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| 0.312041998 | < 0.001 | 1591 | CYP24A1 |
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| 0.311990976 | < 0.001 | 23400 | ATP13A2 |
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| 0.311923265 | < 0.001 | 57569 | ARHGAP20 |
| 0.311912477 | < 0.001 | 27000 | DNAJC2 |
| 0.311850995 | < 0.001 | 6307 | SC4MOL |
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| 0.311691344 | < 0.001 | 135138 | PACRG |
| 0.311687768 | < 0.001 | 2897 | GRIK1 |
| 0.311673701 | < 0.001 | 7068 | THRB |
| 0.311545134 | < 0.001 | 4351 | MPI |
| 0.311511844 | < 0.001 | 220074 | AP000812.2 |
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| 0.311447144 | < 0.001 | 79937 | CNTNAP3 |
| 0.311443478 | < 0.001 | 10487 | CAP1 |

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| 0.387149036 | 8.59086E-09 | < 0.001 | < 0.001 | 129293 | AC010087.3 |
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| 0.387041509 | 8.67832E-09 | 0.001 | 1 | 283643 | C14orf80 |
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| 0.386873037 | 8.81705E-09 | < 0.001 | < 0.001 | 728689 | EIF3CL |
| 0.386827677 | 8.85486E-09 | < 0.001 | < 0.001 | 59348 | ZNF350 |
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| 0.386520594 | 9.11438E-09 | 0.001 | 1 | 2817 | GPC1 |
| 0.386466146 | 9.1611E-09 | < 0.001 | < 0.001 | 6415 | SEPW1 |
| 0.386410415 | 9.20923E-09 | < 0.001 | < 0.001 | 27341 | RRP7A |
| 0.386087775 | 9.49257E-09 | < 0.001 | < 0.001 | 9317 | PTER |
| 0.386078715 | 9.50067E-09 | < 0.001 | < 0.001 | 57415 | C3orf14 |
| 0.385976374 | 9.59244E-09 | 0.003 | 1 | 90025 | UBE2CBP |
| 0.385664046 | 9.87762E-09 | < 0.001 | < 0.001 | 57226 | LYRM2 |
| 0.38564074 | 9.89916E-09 | < 0.001 | < 0.001 | 9939 | RBM8A |
| 0.385416567 | 1.01094E-08 | < 0.001 | < 0.001 | 27173 | SLC39A1 |
| 0.385077089 | 1.04359E-08 | < 0.001 | < 0.001 | 22926 | ATF6 |
| 0.385075778 | 1.04372E-08 | < 0.001 | < 0.001 | 57633 | LRRN1 |
| 0.385052443 | 1.04599E-08 | 0.001 | 1 | 84310 | C7orf50 |
| 0.38493064 | 1.05798E-08 | 0.001 | 1 | 28958 | CCDC56 |
| 0.384826988 | 1.06829E-08 | 0.001 | 1 | 5447 | POR |
| 0.38480109 | 1.07087E-08 | < 0.001 | < 0.001 | 10999 | SLC27A4 |
| 0.384788126 | 1.07218E-08 | 0.001 | 1 | 57221 | KIAA1244 |
| 0.384764761 | 1.07451E-08 | 0.001 | 1 | 79917 | MAGIX |
| 0.384665012 | 1.08458E-08 | 0.001 | 1 | 10654 | PMVK |
| 0.384549677 | 1.09633E-08 | < 0.001 | < 0.001 | 5523 | PPP2R3A |
| 0.384492666 | 1.10218E-08 | 0.001 | 1 | 8784 | TNFRSF18 |
| 0.384434372 | 1.10819E-08 | 0.001 | 1 | 284111 | SLC13A5 |
| 0.384343654 | 1.11762E-08 | < 0.001 | < 0.001 | 57630 | SH3RF1 |
| 0.384272397 | 1.12508E-08 | < 0.001 | < 0.001 | 435 | ASL |
| 0.384269804 | 1.12536E-08 | < 0.001 | < 0.001 | 2987 | GUK1 |
| 0.384168714 | 1.13601E-08 | 0.001 | 1 | 138428 | PTRH1 |
| 0.384160936 | 1.13684E-08 | < 0.001 | < 0.001 | 404217 | CTXN1 |
| 0.384154469 | 1.13753E-08 | < 0.001 | < 0.001 | 57348 | TTYH1 |
| 0.384045631 | 1.14913E-08 | 0.001 | 1 | 23113 | CUL9 |
| 0.38398084 | 1.1561E-08 | 0.001 | 1 | 10574 | CCT7 |
| 0.383969188 | 1.15734E-08 | < 0.001 | < 0.001 | 280636 | C11orf31 |
| 0.383958787 | 1.15846E-08 | 0.002 | 1 | 10211 | FLOT1 |
| 0.383900493 | 1.16479E-08 | < 0.001 | < 0.001 | 8663 | EIF3S8 |
| 0.383827925 | 1.17268E-08 | < 0.001 | < 0.001 | 3487 | IGFBP4 |
| 0.38369447 | 1.18736E-08 | 0.003 | 1 | 57514 | CDGAP |
| 0.383448273 | 1.21488E-08 | 0.002 | 1 | 80759 | KHDC1 |
| 0.383402914 | 1.22002E-08 | 0.001 | 1 | 4430 | MYO1B |
| 0.383397728 | 1.22061E-08 | 0.001 | 1 | 59285 | CACNG6 |
| 0.383349776 | 1.22607E-08 | < 0.001 | < 0.001 | 115703 | SNX26 |
| 0.383336842 | 1.22755E-08 | < 0.001 | < 0.001 | 5707 | PSMD1 |
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| 0.383230567 | 1.23973E-08 | < 0.001 | < 0.001 | 4645 | MYO5B |
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| 0.383121729 | 1.25234E-08 | < 0.001 | < 0.001 | 80142 | PTGES2 |
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| 0.382902741 | 1.27809E-08 | 0.001 | 1 | 149111 | CNIH3 |
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| 0.382756293 | 1.29559E-08 | < 0.001 | < 0.001 | 121053 | C12orf45 |
| 0.382674664 | 1.30544E-08 | < 0.001 | < 0.001 | 78990 | OTUB2 |
| 0.382615089 | 1.31267E-08 | 0.002 | 1 | 116 | ADCYAP1 |
| 0.382529557 | 1.32314E-08 | 0.001 | 1 | 5691 | PSMB3 |
| 0.382519186 | 1.32441E-08 | < 0.001 | < 0.001 | 57642 | COL20A1 |
| 0.382503659 | 1.32632E-08 | 0.001 | 1 | 8511 | MMP23A |
| 0.382459611 | 1.33175E-08 | 0.001 | 1 | 83439 | TCF7L1 |
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| 0.38240388 | 1.33865E-08 | < 0.001 | < 0.001 | 79134 | TMEM185B |
| 0.382201731 | 1.36398E-08 | 0.002 | 1 | 55048 | VPS37C |
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| 0.382074714 | 1.38011E-08 | 0.001 | 1 | 83733 | SLC25A18 |
| 0.382056594 | 1.38243E-08 | 0.001 | 1 | 10923 | SUB1 |
| 0.382011265 | 1.38826E-08 | < 0.001 | < 0.001 | 4889 | NPY5R |
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| 0.381845385 | 1.40974E-08 | 0.002 | 1 | 6588 | SLN |
| 0.381697685 | 1.42913E-08 | < 0.001 | < 0.001 | 284217 | LAMA1 |
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| 0.381494254 | 1.45628E-08 | 0.001 | 1 | 80114 | BICC1 |
| 0.381385356 | 1.47101E-08 | < 0.001 | < 0.001 | 51652 | VPS24 |
| 0.381302446 | 1.48233E-08 | 0.001 | 1 | 221264 | AKD1 |
| 0.381211758 | 1.49478E-08 | < 0.001 | < 0.001 | 7280 | TUBB2A |
| 0.381124943 | 1.50683E-08 | < 0.001 | < 0.001 | 23583 | SMUG1 |
| 0.381022543 | 1.52112E-08 | < 0.001 | < 0.001 | 58155 | PTBP2 |

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| 0.311436146 | < 0.001 | 23367 | LARP1 |
| 0.311372697 | < 0.001 | 51693 | TRAPPC2L |
| 0.311330497 | < 0.001 | 63947 | DMRTC1B |
| 0.311321408 | < 0.001 | 196051 | PPAPDC1A |
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| 0.311264277 | < 0.001 | 64850 | AGXT2L1 |
| 0.311173856 | < 0.001 | 11098 | AP000654.2 |
| 0.31114471 | < 0.001 | 85460 | ZNF518B |
| 0.311128408 | < 0.001 | 5991 | RFX3 |
| 0.311077625 | < 0.001 | 653145 | ANXA8 |
| 0.31100142 | < 0.001 | 6660 | SOX5 |
| 0.310928196 | < 0.001 | 79411 | GLB1L |
| 0.31090036 | < 0.001 | 8988 | HSPB3 |
| 0.310894966 | < 0.001 | 3912 | LAMB1 |
| 0.31086421 | < 0.001 | 9397 | NMT2 |
| 0.310838401 | < 0.001 | 50614 | GALNT9 |
| 0.310792565 | < 0.001 | 4502 | MT2A |
| 0.310788006 | < 0.001 | 3049 | HBQ1 |
| 0.310685426 | < 0.001 | 5149 | PDE6H |
| 0.310642928 | < 0.001 | 1840 | DTX1 |
| 0.310636282 | < 0.001 | 55971 | BAIAP2L1 |
| 0.310543299 | < 0.001 | 84779 | NAA11 |
| 0.310514867 | < 0.001 | 132001 | C3orf31 |
| 0.310500652 | < 0.001 | 2878 | GPX3 |
| 0.310453415 | < 0.001 | 1589 | CYP21A2 |
| 0.31037721 | < 0.001 | 143384 | C10orf46 |
| 0.310250133 | < 0.001 | 83539 | CHST9 |
| 0.310237229 | < 0.001 | 8425 | LTBP4 |
| 0.310215652 | < 0.001 | 283209 | PGM2L1 |
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| 0.309859425 | < 0.001 | 441416 | GPR116P2 |
| 0.309838086 | < 0.001 | 9750 | FAM65B |
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| 0.309701085 | < 0.001 | 376267 | RAB15 |
| 0.309567422 | < 0.001 | 152185 | CCDC52 |
| 0.30949235 | < 0.001 | 440184 | LINC00238 |
| 0.309448361 | < 0.001 | 128272 | ARHGEF19 |
| 0.30942151 | < 0.001 | 4968 | OGG1 |
| 0.309373856 | < 0.001 | 26872 | STEAP1 |
| 0.30936414 | < 0.001 | 55071 | C9orf40 |
| 0.309332162 | < 0.001 | 5836 | PYGL |
| 0.30925858 | < 0.001 | 63827 | BCAN |
| 0.309258372 | < 0.001 | 154 | ADRB2 |
| 0.309211642 | < 0.001 | 54733 | SLC35F2 |
| 0.309183925 | < 0.001 | 10485 | C1orf61 |
| 0.309182435 | < 0.001 | 22926 | ATF6 |
| 0.309180439 | < 0.001 | 51171 | HSD17B14 |
| 0.309096068 | < 0.001 | 55359 | STYK1 |
| 0.309080094 | < 0.001 | 80301 | PLEKHO2 |
| 0.309061795 | < 0.001 | 9616 | RNF7 |
| 0.308873445 | < 0.001 | 2870 | GRK6 |
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| 0.308038533 | < 0.001 | 220042 | C11orf82 |
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| 0.307911307 | < 0.001 | 26256 | CABYR |
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| 0.30771932 | < 0.001 | 5733 | PTGER3 |
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| 0.380956471 | 1.53044E-08 | < 0.001 | < 0.001 | 7137 | TNNI3 |
| 0.38095516 | 1.53063E-08 | < 0.001 | < 0.001 | 4489 | MT1A |
| 0.380922794 | 1.53519E-08 | < 0.001 | < 0.001 | 5471 | PPAT |
| 0.380878747 | 1.54145E-08 | < 0.001 | < 0.001 | 808 | CALM3 |
| 0.38084504 | 1.54626E-08 | < 0.001 | < 0.001 | 54733 | SLC35F2 |
| 0.380790591 | 1.55403E-08 | 0.001 | 1 | 5092 | PCBD1 |
| 0.38067916 | 1.57009E-08 | < 0.001 | < 0.001 | 64785 | GINS3 |
| 0.380497754 | 1.59656E-08 | 0.001 | 1 | 1635 | DCTD |
| 0.380359113 | 1.61708E-08 | < 0.001 | < 0.001 | 221938 | MMD2 |
| 0.380346149 | 1.61902E-08 | < 0.001 | < 0.001 | 8526 | DGKE |
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| 0.380160868 | 1.64687E-08 | < 0.001 | < 0.001 | 51582 | AZIN1 |
| 0.380120695 | 1.65297E-08 | 0.001 | 1 | 5156 | PDGFRA |
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| 0.380017042 | 1.6688E-08 | < 0.001 | < 0.001 | 79269 | WDR32 |
| 0.379958719 | 1.67778E-08 | 0.002 | 1 | 255374 | MBLAC1 |
| 0.379937977 | 1.68099E-08 | 0.002 | 1 | 79038 | ZFYVE21 |
| 0.379923731 | 1.68319E-08 | < 0.001 | < 0.001 | 100128511 | RP11-565H13.2 |
| 0.37973842 | 1.71209E-08 | 0.001 | 1 | 55959 | SULF2 |
| 0.379629582 | 1.72933E-08 | 0.003 | 1 | 10783 | NEK6 |
| 0.379619211 | 1.73096E-08 | 0.001 | 1 | 285533 | RNF175 |
| 0.379614025 | 1.73179E-08 | 0.001 | 1 | 9040 | UBE2M |
| 0.379585534 | 1.73632E-08 | < 0.001 | < 0.001 | 4355 | MPP2 |
| 0.379585534 | 1.73632E-08 | 0.001 | 1 | 10025 | MED16 |
| 0.379481882 | 1.75295E-08 | < 0.001 | < 0.001 | 4935 | GPR143 |
| 0.379462421 | 1.75608E-08 | < 0.001 | < 0.001 | 22937 | SCAP |
| 0.379361361 | 1.77245E-08 | 0.001 | 1 | 10238 | DCAF7 |
| 0.379261553 | 1.78875E-08 | 0.001 | 1 | 9201 | DCLK1 |
| 0.379128128 | 1.81077E-08 | < 0.001 | < 0.001 | 8715 | NOL4 |
| 0.379128128 | 1.81077E-08 | < 0.001 | < 0.001 | 51686 | OAZ3 |
| 0.379067212 | 1.82092E-08 | < 0.001 | < 0.001 | 81035 | COLEC12 |
| 0.379036099 | 1.82612E-08 | < 0.001 | < 0.001 | 83871 | RAB34 |
| 0.378975213 | 1.83635E-08 | < 0.001 | < 0.001 | 55152 | DALRD3 |
| 0.378964871 | 1.8381E-08 | < 0.001 | < 0.001 | 84779 | NAA11 |
| 0.378891021 | 1.85057E-08 | < 0.001 | < 0.001 | 50614 | GALNT9 |
| 0.378813237 | 1.86382E-08 | < 0.001 | < 0.001 | 7014 | TERF2 |
| 0.378780842 | 1.86934E-08 | 0.001 | 1 | 55039 | TRMT12 |
| 0.378704399 | 1.88249E-08 | 0.001 | 1 | 25809 | TTLL1 |
| 0.378617585 | 1.89751E-08 | < 0.001 | < 0.001 | 81553 | FAM49A |
| 0.378605902 | 1.89954E-08 | < 0.001 | < 0.001 | 433 | ASGR2 |
| 0.378342867 | 1.94581E-08 | 0.002 | 1 | 1645 | AKR1C1 |
| 0.378331214 | 1.94789E-08 | 0.002 | 1 | 834 | CASP1 |
| 0.378296256 | 1.95415E-08 | 0.002 | 1 | 254778 | C8orf46 |
| 0.378236622 | 1.96483E-08 | < 0.001 | < 0.001 | 57596 | BEGAIN |
| 0.378219783 | 1.96785E-08 | < 0.001 | < 0.001 | 4636 | MYL5 |
| 0.378212005 | 1.96925E-08 | 0.001 | 1 | 50628 | GEMIN4 |
| 0.378191262 | 1.97299E-08 | 0.002 | 1 | 5702 | PSMC3 |
| 0.377950251 | 2.01694E-08 | < 0.001 | < 0.001 | 4862 | NPAS2 |
| 0.377894521 | 2.02722E-08 | < 0.001 | < 0.001 | 762 | CA4 |
| 0.377808988 | 2.04313E-08 | < 0.001 | < 0.001 | 124454 | EARS2 |
| 0.377796024 | 2.04553E-08 | 0.001 | 1 | 23518 | R3HDM1 |
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| 0.377565414 | 2.08905E-08 | < 0.001 | < 0.001 | 84246 | MED10 |
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| 0.376111537 | 2.38463E-08 | < 0.001 | < 0.001 | 8859 | STK19 |
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| 0.291395217 | < 0.001 | 2209 | FCGR1A |
| 0.291344583 | < 0.001 | 9016 | SLC25A14 |
| 0.291321665 | < 0.001 | 318 | NUDT2 |
| 0.291301429 | < 0.001 | 79065 | ATG9A |
| 0.291182011 | < 0.001 | 2018 | EMX2 |
| 0.291144729 | < 0.001 | 84058 | WDR54 |
| 0.29106921 | < 0.001 | 8900 | CCNA1 |
| 0.290967733 | < 0.001 | 240 | ALOX5 |
| 0.29096216 | < 0.001 | 256380 | SCML4 |
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| 0.290937454 | < 0.001 | 3958 | LGALS3 |
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| 0.2908158 | < 0.001 | 56954 | NIT2 |

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| 0.362091124 | 8.2737E-08 | 0.004 | 1 | 51222 | ZNF219 |
| 0.362054855 | 8.29973E-08 | 0.001 | 1 | 6258 | RXRG |
| 0.362054855 | 8.29973E-08 | 0.002 | 1 | 644168 | DRGX |
| 0.362034112 | 8.31464E-08 | 0.004 | 1 | 9992 | KCNE2 |
| 0.361969322 | 8.36153E-08 | 0.002 | 1 | 79078 | C1orf50 |
| 0.361918777 | 8.39814E-08 | 0.001 | 1 | 6509 | SLC1A4 |
| 0.361879915 | 8.42653E-08 | 0.003 | 1 | 51191 | HERC5 |
| 0.361593544 | 8.63812E-08 | < 0.001 | < 0.001 | 374387 | AC044839.2 |
| 0.361590952 | 8.64005E-08 | 0.002 | 1 | 6633 | SNRPD2 |
| 0.36155206 | 8.66916E-08 | 0.001 | 1 | 6567 | SLC16A2 |
| 0.361473024 | 8.72867E-08 | 0.002 | 1 | 124936 | CYB5D2 |
| 0.361425102 | 8.76493E-08 | 0.001 | 1 | 26471 | NUPR1 |
| 0.361401767 | 8.78266E-08 | 0.003 | 1 | 116138 | KLHDC3 |
| 0.361366779 | 8.80924E-08 | < 0.001 | < 0.001 | 84216 | TMEM117 |
| 0.361289024 | 8.86865E-08 | < 0.001 | < 0.001 | 26515 | FXC1 |
| 0.361261815 | 8.88961E-08 | < 0.001 | < 0.001 | 9456 | HOMER1 |
| 0.361222953 | 8.91952E-08 | 0.001 | 1 | 54734 | RAB39 |
| 0.361216456 | 8.92449E-08 | 0.003 | 1 | 57463 | AMIGO1 |
| 0.361114115 | 9.00384E-08 | 0.001 | 1 | 1131 | CHRM3 |
| 0.361094654 | 9.01897E-08 | < 0.001 | < 0.001 | 1901 | S1PR1 |
| 0.361071348 | 9.03711E-08 | 0.001 | 1 | 5525 | PPP2R5A |
| 0.361032486 | 9.0675E-08 | 0.001 | 1 | 26502 | NARF |
| 0.361003965 | 9.08993E-08 | 0.003 | 1 | 83877 | TM2D2 |
| 0.360997498 | 9.09499E-08 | 0.002 | 1 | 55860 | ACTR10 |
| 0.360968977 | 9.11737E-08 | 0.001 | 1 | 3758 | KCNJ1 |
| 0.360954732 | 9.12866E-08 | 0.001 | 1 | 79369 | B3GNT4 |
| 0.360913247 | 9.16134E-08 | 0.002 | 1 | 51027 | BOLA1 |
| 0.360902905 | 9.16955E-08 | 0.003 | 1 | 1910 | EDNRB |
| 0.360842019 | 9.21792E-08 | 0.002 | 1 | 116988 | AGAP3 |
| 0.360770732 | 9.27481E-08 | 0.001 | 1 | 389073 | C2orf80 |
| 0.36074999 | 9.29144E-08 | 0.001 | 1 | 25837 | RAB26 |
| 0.360746086 | 9.29458E-08 | 0.004 | 1 | 5786 | PTPRA |
| 0.360735744 | 9.30289E-08 | 0.001 | 1 | 55365 | TMEM176A |
| 0.36067614 | 9.3509E-08 | 0.003 | 1 | 9570 | GOSR2 |
| 0.360650212 | 9.37179E-08 | < 0.001 | < 0.001 | 284485 | C1orf230 |
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| 0.360451967 | 9.5334E-08 | 0.002 | 1 | 203069 | R3HCC1 |
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| 0.360050261 | 9.86921E-08 | < 0.001 | < 0.001 | 118924 | C10orf4 |
| 0.359988064 | 9.92226E-08 | 0.002 | 1 | 6764 | ST5 |
| 0.359986752 | 9.92327E-08 | 0.003 | 1 | 79042 | TSEN34 |
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| 0.359648585 | 1.02163E-07 | 0.004 | 1 | 10673 | TNFSF13B |
| 0.359550089 | 1.03033E-07 | 0.003 | 1 | 93973 | ACTR8 |
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| 0.359491765 | 1.0355E-07 | 0.001 | 1 | 66036 | MTMR9 |
| 0.359379053 | 1.04558E-07 | 0.001 | 1 | 375757 | C9orf119 |
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| 0.359226167 | 1.0594E-07 | 0.001 | 1 | 88745 | C6orf153 |
| 0.359197646 | 1.062E-07 | < 0.001 | < 0.001 | 388815 | C21orf34 |
| 0.35913673 | 1.06757E-07 | 0.001 | 1 | 55030 | FBXO34 |
| 0.359012336 | 1.07903E-07 | 0.002 | 1 | 10082 | GPC6 |
| 0.359012336 | 1.07903E-07 | 0.005 | 1 | 155368 | WBSCR27 |
| 0.35897997 | 1.08203E-07 | 0.003 | 1 | 8558 | CDK10 |
| 0.358872414 | 1.09206E-07 | 0.001 | 1 | 56477 | CCL28 |
| 0.358858138 | 1.0934E-07 | 0.001 | 1 | 729535 | FAM207BP |
| 0.358762264 | 1.10242E-07 | 0.002 | 1 | 414 | ARSD |
| 0.358658582 | 1.11227E-07 | 0.001 | 1 | 6660 | SOX5 |
| 0.35858345 | 1.11945E-07 | < 0.001 | < 0.001 | 3175 | ONECUT1 |
| 0.358574361 | 1.12034E-07 | 0.001 | 1 | 56970 | ATXN7L3 |
| 0.35850957 | 1.12656E-07 | 0.001 | 1 | 55800 | SCN3B |
| 0.358460337 | 1.13133E-07 | 0.004 | 1 | 6547 | SLC8A3 |
| 0.358460337 | 1.13133E-07 | 0.003 | 1 | 641455 | AL589182.2 |
| 0.358392954 | 1.13787E-07 | 0.001 | 1 | 10056 | FARSB |
| 0.358365744 | 1.14054E-07 | 0.001 | 1 | 60672 | MIIP |
| 0.358299673 | 1.14701E-07 | < 0.001 | < 0.001 | 7142 | TNP2 |
| 0.358173996 | 1.15941E-07 | < 0.001 | < 0.001 | 4968 | OGG1 |
| 0.358091027 | 1.16767E-07 | 0.003 | 1 | 79090 | TRAPPC6A |
| 0.35805732 | 1.17104E-07 | < 0.001 | < 0.001 | 22907 | DHX30 |
| 0.357945919 | 1.18225E-07 | 0.001 | 1 | 25907 | TMEM158 |
| 0.357921302 | 1.18475E-07 | 0.002 | 1 | 23549 | DNPEP |
| 0.35780856 | 1.19622E-07 | 0.003 | 1 | 55957 | LIN37 |

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| 0.290782303 | < 0.001 | 28986 | MAGEH1 |
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| 0.290661722 | < 0.001 | 84696 | ABHD1 |
| 0.290627033 | < 0.001 | 285973 | ATG9B |
| 0.290600091 | < 0.001 | 81620 | CDT1 |
| 0.290413886 | < 0.001 | 1973 | EIF4A1 |
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| 0.290161729 | < 0.001 | 57511 | COG6 |
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| 0.290033728 | < 0.001 | 6252 | RTN1 |
| 0.289937943 | < 0.001 | 30061 | SLC40A1 |
| 0.28991431 | < 0.001 | 4037 | LRP3 |
| 0.28987202 | < 0.001 | 51582 | AZIN1 |
| 0.289798528 | < 0.001 | 283267 | LINC00294 |
| 0.289730042 | < 0.001 | 2786 | GNG4 |
| 0.289609671 | < 0.001 | 25796 | PGLS |
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| 0.289338738 | < 0.001 | 23309 | SIN3B |
| 0.289303392 | < 0.001 | 5912 | RAP2B |
| 0.289275527 | < 0.001 | 9535 | GMFG |
| 0.28915602 | < 0.001 | 84870 | RSPO3 |
| 0.289088905 | < 0.001 | 79363 | C1orf89 |
| 0.289052755 | < 0.001 | 653639 | LYPLA2P1 |
| 0.289044827 | < 0.001 | 64579 | NDST4 |
| 0.2890279 | < 0.001 | 90378 | SAMD1 |
| 0.289022177 | < 0.001 | 26521 | TIMM8B |
| 0.288981974 | < 0.001 | 441168 | FAM26F |
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| 0.288888901 | < 0.001 | 221662 | RBM24 |
| 0.288804471 | < 0.001 | 286257 | C9orf142 |
| 0.288731098 | < 0.001 | 6565 | SLC15A2 |
| 0.288730681 | < 0.001 | 23552 | CCRK |
| 0.288698971 | < 0.001 | 55256 | ADI1 |
| 0.28864333 | < 0.001 | 170850 | KCNG3 |
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| 0.288520247 | < 0.001 | 83648 | FAM167A |
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| 0.288490385 | < 0.001 | 8909 | AC004241.1 |
| 0.28839767 | < 0.001 | 125988 | C19orf70 |
| 0.288378835 | < 0.001 | 117854 | TRIM6 |
| 0.288331956 | < 0.001 | 55128 | TRIM68 |
| 0.288323253 | < 0.001 | 64778 | FNDC3B |
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| 0.2881971 | < 0.001 | 79613 | TMCO7 |
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| 0.357684165 | 1.20901E-07 | 0.003 | 1 | 1857 | DVL3 |
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| 0.357576609 | 1.22016E-07 | 0.003 | 1 | 85395 | C21orf70 |
| 0.35756883 | 1.22098E-07 | < 0.001 | < 0.001 | 30061 | SLC40A1 |
| 0.357479423 | 1.23034E-07 | 0.002 | 1 | 5032 | P2RY11 |
| 0.357386142 | 1.24017E-07 | 0.001 | 1 | 130617 | ZFAND2B |
| 0.357322633 | 1.24692E-07 | < 0.001 | < 0.001 | 57586 | SYT13 |
| 0.357291549 | 1.25023E-07 | 0.002 | 1 | 445347 | TARP |
| 0.357266903 | 1.25286E-07 | 0.002 | 1 | 89846 | FGD3 |
| 0.357141227 | 1.26637E-07 | 0.002 | 1 | 389033 | AC079776.2 |
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| 0.356818587 | 1.30168E-07 | 0.002 | 1 | 1717 | DHCR7 |
| 0.356813401 | 1.30226E-07 | 0.002 | 1 | 6610 | SMPD2 |
| 0.356686383 | 1.31642E-07 | < 0.001 | < 0.001 | 51458 | RHCG |
| 0.356659204 | 1.31947E-07 | 0.004 | 1 | 152006 | RNF38 |
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| 0.356629372 | 1.32282E-07 | 0.002 | 1 | 7247 | TSN |
| 0.356598288 | 1.32633E-07 | < 0.001 | < 0.001 | 26047 | CNTNAP2 |
| 0.356524438 | 1.3347E-07 | 0.002 | 1 | 83862 | TMEM120A |
| 0.356437624 | 1.3446E-07 | 0.002 | 1 | 64326 | RFWD2 |
| 0.356306732 | 1.35965E-07 | 0.002 | 1 | 22998 | LIMCH1 |
| 0.356284708 | 1.3622E-07 | 0.002 | 1 | 54221 | SNTG2 |
| 0.356094241 | 1.38444E-07 | 0.003 | 1 | 4709 | NDUFB3 |
| 0.356011301 | 1.39423E-07 | 0.005 | 1 | 138050 | HGSNAT |
| 0.355977625 | 1.39824E-07 | < 0.001 | < 0.001 | 100131187 | RP11-544M22.1 |
| 0.355972439 | 1.39884E-07 | 0.002 | 1 | 100191040 | AL589765.4 |
| 0.355967253 | 1.39947E-07 | < 0.001 | < 0.001 | 2897 | GRIK1 |
| 0.355879128 | 1.40998E-07 | 0.001 | 1 | 145226 | RDH12 |
| 0.355815619 | 1.4176E-07 | 0.002 | 1 | 11147 | HHLA3 |
| 0.355801374 | 1.41932E-07 | 0.003 | 1 | 130574 | LYPD6 |
| 0.355785817 | 1.42119E-07 | 0.004 | 1 | 202500 | TCTE1 |
| 0.355733991 | 1.42746E-07 | 0.002 | 1 | 51284 | TLR7 |
| 0.355568141 | 1.4477E-07 | 0.004 | 1 | 51375 | SNX7 |
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| 0.3555215 | 1.45344E-07 | 0.001 | 1 | 3423 | IDS |
| 0.355495572 | 1.45663E-07 | 0.004 | 1 | 6878 | TAF6 |
| 0.355390638 | 1.46967E-07 | 0.002 | 1 | 23161 | SNX13 |
| 0.355367273 | 1.47257E-07 | 0.004 | 1 | 10436 | EMG1 |
| 0.355262339 | 1.48574E-07 | 0.002 | 1 | 5777 | PTPN6 |
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| 0.354794532 | 1.54578E-07 | 0.005 | 1 | 643332 | AL355922.1 |
| 0.354664981 | 1.56283E-07 | 0.001 | 1 | 55359 | STYK1 |
| 0.354600191 | 1.57141E-07 | 0.001 | 1 | 10552 | ARPC1A |
| 0.354584664 | 1.57349E-07 | 0.001 | 1 | 8724 | SNX3 |
| 0.354583323 | 1.57366E-07 | 0.004 | 1 | 10969 | EBNA1BP2 |
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| 0.354325503 | 1.60834E-07 | 0.002 | 1 | 57591 | MKL1 |
| 0.354309946 | 1.61045E-07 | 0.003 | 1 | 64788 | LMF1 |
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| 0.353931546 | 1.66274E-07 | 0.001 | 1 | 6778 | STAT6 |
| 0.353922486 | 1.66401E-07 | 0.002 | 1 | 653513 | LOC653513 |
| 0.353812367 | 1.67955E-07 | 0.007 | 1 | 100137047 | JMJD7 |
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| 0.35373202 | 1.69097E-07 | < 0.001 | < 0.001 | 29122 | TSP50 |
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| 0.353597254 | 1.7103E-07 | 0.002 | 1 | 10073 | SNUPN |
| 0.353513032 | 1.72248E-07 | 0.002 | 1 | 5537 | PPP6C |
| 0.353397697 | 1.73931E-07 | 0.003 | 1 | 6810 | STX4 |
| 0.353384733 | 1.7412E-07 | 0.001 | 1 | 6494 | SIPA1 |
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| 0.287274539 | < 0.001 | 9348 | NDST3 |
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| 0.287256628 | < 0.001 | 10611 | PDLIM5 |
| 0.287242472 | < 0.001 | 5000 | ORC4 |
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| 0.286969066 | < 0.001 | 54784 | ALKBH4 |
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| 0.286751062 | < 0.001 | 7431 | VIM |
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| 0.286571622 | < 0.001 | 51629 | SLC25A39 |
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| 0.286462843 | < 0.001 | 197187 | MGC23284 |
| 0.286447346 | < 0.001 | 11017 | SNRNP27 |
| 0.28642112 | < 0.001 | 29799 | YPEL1 |
| 0.286359549 | < 0.001 | 1266 | CNN3 |
| 0.286344349 | < 0.001 | 23559 | WBP1 |
| 0.286271989 | < 0.001 | 2182 | ACSL4 |
| 0.286250412 | < 0.001 | 164781 | WDR69 |
| 0.286108911 | < 0.001 | 7884 | SLBP |
| 0.285999209 | < 0.001 | 10466 | COG5 |
| 0.285897911 | < 0.001 | 198437 | C20orf201 |
| 0.285887927 | < 0.001 | 163720 | CYP4Z2P |
| 0.285803199 | < 0.001 | 22845 | DOLK |
| 0.285801262 | < 0.001 | 23583 | SMUG1 |
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| 0.293534994 | 1.672E-05 | 0.023 | 1 | 8313 | AXIN2 |
| 0.293487042 | 1.67752E-05 | 0.009 | 1 | 10802 | SEC24A |
| 0.293318599 | 1.69701E-05 | 0.007 | 1 | 2558 | GABRA5 |
| 0.293261588 | 1.70365E-05 | 0.014 | 1 | 23671 | TMEFF2 |
| 0.293258965 | 1.70395E-05 | 0.013 | 1 | 57555 | NLGN2 |
| 0.293256402 | 1.70425E-05 | 0.012 | 1 | 23418 | CRB1 |
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| 0.293224007 | 1.70804E-05 | 0.003 | 1 | 51231 | VRK3 |
| 0.293086648 | 1.72418E-05 | 0.015 | 1 | 57146 | TMEM159 |
| 0.293081462 | 1.7248E-05 | 0.009 | 1 | 84225 | ZMYND15 |
| 0.293063343 | 1.72694E-05 | 0.007 | 1 | 3672 | ITGA1 |
| 0.293030918 | 1.73078E-05 | 0.013 | 1 | 10242 | KCNMB2 |
| 0.292971343 | 1.73786E-05 | 0.008 | 1 | 2830 | GPR6 |
| 0.292931139 | 1.74264E-05 | 0.009 | 1 | 65018 | PINK1 |
| 0.292927265 | 1.7431E-05 | 0.01 | 1 | 54796 | BNC2 |
| 0.29291302 | 1.74481E-05 | 0.012 | 1 | 51050 | PI15 |
| 0.292906553 | 1.74558E-05 | 0.011 | 1 | 5330 | PLCB2 |
| 0.29289487 | 1.74698E-05 | 0.012 | 1 | 51083 | GAL |
| 0.292758793 | 1.76331E-05 | 0.009 | 1 | 84525 | HOPX |
| 0.292726427 | 1.76723E-05 | 0.012 | 1 | 7546 | ZIC2 |
| 0.292726427 | 1.76723E-05 | 0.004 | 1 | 26015 | RPAP1 |
| 0.292705685 | 1.76974E-05 | 0.013 | 1 | 72 | ACTG2 |
| 0.292656451 | 1.77571E-05 | 0.015 | 1 | 123624 | AGBL1 |
| 0.292524278 | 1.79183E-05 | 0.014 | 1 | 10329 | TMEM5 |
| 0.292513907 | 1.7931E-05 | 0.008 | 1 | 64927 | TTC23 |
| 0.292508721 | 1.79373E-05 | 0.012 | 1 | 84268 | RPAIN |
| 0.292458206 | 1.79993E-05 | 0.013 | 1 | 66005 | CHID1 |
| 0.292446524 | 1.80137E-05 | 0.011 | 1 | 5931 | RBBP7 |
| 0.292445242 | 1.80153E-05 | 0.014 | 1 | 9854 | C2CD2L |
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| 0.292394698 | 1.80776E-05 | 0.016 | 1 | 10239 | AP3S2 |
| 0.292336375 | 1.81498E-05 | 0.009 | 1 | 1798 | DPAGT1 |
| 0.292205513 | 1.83127E-05 | 0.012 | 1 | 49861 | CLDN20 |
| 0.292196453 | 1.83241E-05 | 0.005 | 1 | 113130 | CDCA5 |
| 0.292171836 | 1.83548E-05 | 0.012 | 1 | 1363 | CPE |
| 0.292153686 | 1.83777E-05 | 0.016 | 1 | 10856 | RUVBL2 |
| 0.292065561 | 1.84885E-05 | 0.014 | 1 | 51807 | TUBA8 |
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| 0.231319442 | < 0.001 | 811 | CALR |
| 0.231311291 | < 0.001 | 5575 | PRKAR1B |
| 0.23124522 | < 0.001 | 728294 | D2HGDH |
| 0.231169865 | < 0.001 | 25902 | MTHFD1L |
| 0.231153578 | < 0.001 | 121457 | AC013283.1 |
| 0.231013089 | < 0.001 | 8733 | GPAA1 |
| 0.230871022 | < 0.001 | 54921 | CHTF8 |
| 0.230857447 | < 0.001 | 9588 | PRDX6 |
| 0.230810732 | < 0.001 | 254887 | ZDHHC23 |
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| 0.230770737 | < 0.001 | 51458 | RHCG |
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| 0.23074609 | < 0.001 | 7087 | ICAM5 |
| 0.230741665 | < 0.001 | 27095 | TRAPPC3 |
| 0.230741441 | < 0.001 | 10885 | WDR3 |
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| 0.230612159 | < 0.001 | 146923 | RUNDC1 |
| 0.230550379 | < 0.001 | 124930 | ANKRD13B |
| 0.23050952 | < 0.001 | 7549 | ZNF2 |
| 0.230508164 | < 0.001 | 3155 | HMGCL |
| 0.230500236 | < 0.001 | 23284 | LPHN3 |
| 0.230292022 | < 0.001 | 140689 | CBLN4 |
| 0.230270952 | < 0.001 | 10474 | TADA3L |
| 0.230232373 | < 0.001 | 4330 | MN1 |
| 0.230099306 | < 0.001 | 400043 | RP11-834C11.4 |
| 0.230088949 | < 0.001 | 9143 | SYNGR3 |
| 0.230053097 | < 0.001 | 330 | BIRC3 |
| 0.230002016 | < 0.001 | 6809 | STX3 |
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| 0.229958236 | < 0.001 | 4504 | MT3 |
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| 0.229921594 | < 0.001 | 146433 | IL34 |
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| 0.229805946 | < 0.001 | 645996 | NAP1L6 |
| 0.229708523 | < 0.001 | 11063 | SOX30 |
| 0.229577884 | < 0.001 | 1894 | ECT2 |
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| 0.229541034 | < 0.001 | 4849 | CNOT3 |
| 0.229447529 | < 0.001 | 145783 | RP11-323F24.1 |
| 0.229400024 | < 0.001 | 84967 | LSM10 |
| 0.22937195 | < 0.001 | 407738 | FAM19A1 |
| 0.22936745 | < 0.001 | 28952 | CCDC22 |
| 0.229362607 | < 0.001 | 759 | CA1 |
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| 0.229280382 | < 0.001 | 375133 | PI1KAP2 |
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| 0.228878245 | < 0.001 | 27006 | FGF22 |
| 0.228857249 | < 0.001 | 58 | ACTA1 |
| 0.228775889 | < 0.001 | 4185 | ADAM11 |
| 0.228754818 | < 0.001 | 344967 | AC098591.2 |
| 0.228687748 | < 0.001 | 23002 | DAAM1 |
| 0.228672251 | < 0.001 | 23566 | LPAR3 |
| 0.228606895 | < 0.001 | 1384 | CRAT |
| 0.228502393 | < 0.001 | 80727 | TTYH3 |
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| 0.228263184 | < 0.001 | 9040 | UBE2M |
| 0.228111893 | < 0.001 | 64978 | MRPL38 |
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| 0.228005186 | < 0.001 | 55879 | GABRQ |
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| 0.227964759 | < 0.001 | 2820 | GPD2 |
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| 0.227905676 | < 0.001 | 64968 | MRPS6 |
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| 0.291719586 | 1.89299E-05 | 0.016 | 1 | 84968 | PNMA6A |
| 0.291713119 | 1.89382E-05 | 0.018 | 1 | 55012 | PPP2R3C |
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| 0.291628897 | 1.90472E-05 | 0.012 | 1 | 5534 | PPP3R1 |
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| 0.291469514 | 1.92552E-05 | 0.012 | 1 | 64283 | AC093283.3 |
| 0.291389167 | 1.93608E-05 | 0.01 | 1 | 122786 | FRMD6 |
| 0.29137364 | 1.93812E-05 | 0.01 | 1 | 3779 | KCNMB1 |
| 0.291324377 | 1.94463E-05 | 0.012 | 1 | 400043 | RP11-834C11.4 |
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| 0.291293263 | 1.94875E-05 | 0.009 | 1 | 2533 | FYB |
| 0.291201293 | 1.96099E-05 | 0.016 | 1 | 2821 | GPI |
| 0.291000456 | 1.98796E-05 | 0.01 | 1 | 81892 | C14orf156 |
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| 0.290843636 | 2.00925E-05 | 0.01 | 1 | 899 | CCNF |
| 0.29083845 | 2.00997E-05 | 0.014 | 1 | 401251 | C6orf26 |
| 0.290812552 | 2.0135E-05 | 0.013 | 1 | 375444 | C5orf34 |
| 0.290747762 | 2.02237E-05 | 0.012 | 1 | 51024 | FIS1 |
| 0.290647984 | 2.03612E-05 | 0.007 | 1 | 57761 | TRIB3 |
| 0.290645391 | 2.03648E-05 | 0.005 | 1 | 123879 | DCUN1D3 |
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| 0.290463984 | 2.06172E-05 | 0.012 | 1 | 91875 | TTC5 |
| 0.290364206 | 2.07572E-05 | 0.016 | 1 | 27253 | PCDH17 |
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| 0.290079117 | 2.11621E-05 | 0.019 | 1 | 728698 | EIF4A1P4 |
| 0.290042847 | 2.12143E-05 | 0.016 | 1 | 175 | AGA |
| 0.290038943 | 2.12198E-05 | 0.011 | 1 | 550 | AUP1 |
| 0.290002674 | 2.12721E-05 | 0.013 | 1 | 55052 | MRPL20 |
| 0.289954722 | 2.13413E-05 | 0.016 | 1 | 6746 | SSR2 |
| 0.289818674 | 2.15387E-05 | 0.013 | 1 | 5680 | PSG11 |
| 0.289762944 | 2.16201E-05 | 0.015 | 1 | 144110 | TMEM86A |
| 0.289761662 | 2.16219E-05 | 0.01 | 1 | 10666 | CD226 |
| 0.289683938 | 2.17361E-05 | 0.018 | 1 | 4329 | ALDH6A1 |
| 0.289656699 | 2.17761E-05 | 0.011 | 1 | 1806 | DPYD |
| 0.289655417 | 2.17781E-05 | 0.015 | 1 | 284417 | TMEM150B |
| 0.289646327 | 2.17914E-05 | 0.025 | 1 | 54993 | ZSCAN2 |
| 0.289576381 | 2.18948E-05 | 0.008 | 1 | 3958 | LGALS3 |
| 0.289496034 | 2.20141E-05 | 0.015 | 1 | 646450 | C3orf71 |
| 0.28948307 | 2.20333E-05 | 0.011 | 1 | 817 | CAMK2D |
| 0.289446801 | 2.20875E-05 | 0.013 | 1 | 51291 | GMIP |
| 0.289414406 | 2.21358E-05 | 0.014 | 1 | 8444 | DYRK3 |
| 0.289375514 | 2.21941E-05 | 0.015 | 1 | 79885 | HDAC11 |
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| 0.288884431 | 2.29423E-05 | 0.01 | 1 | 8577 | TMEFF1 |
| 0.288832605 | 2.30227E-05 | 0.015 | 1 | 54968 | TMEM70 |
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| 0.288161367 | 2.40876E-05 | 0.01 | 1 | 25819 | CCRN4L |
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| 0.288131565 | 2.4136E-05 | 0.008 | 1 | 4185 | ADAM11 |
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| 0.226967618 | < 0.001 | 55851 | PSENEN |
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| 0.226702258 | < 0.001 | 11077 | HSF2BP |
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| 0.223955855 | < 0.001 | 252839 | TMEM9 |

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| 0.287937194 | 2.44534E-05 | 0.017 | 1 | 84154 | RPF2 |
| 0.287934601 | 2.44577E-05 | 0.01 | 1 | 80237 | ELL3 |
| 0.287908703 | 2.45003E-05 | 0.012 | 1 | 201266 | SLC39A11 |
| 0.287808925 | 2.46652E-05 | 0.01 | 1 | 122481 | AK7 |
| 0.287754476 | 2.47556E-05 | 0.013 | 1 | 9577 | BRE |
| 0.287744105 | 2.47729E-05 | 0.013 | 1 | 7416 | VDAC1 |
| 0.287692279 | 2.48591E-05 | 0.02 | 1 | 57685 | CACHD1 |
| 0.287611961 | 2.49936E-05 | 0.012 | 1 | 55315 | SLC29A3 |
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| 0.279326707 | 4.32325E-05 | 0.009 | 1 | 119391 | GSTO2 |
| 0.279307246 | 4.32872E-05 | 0.013 | 1 | 9985 | REC8 |
| 0.279252857 | 4.34412E-05 | 0.017 | 1 | 126328 | NDUFA11 |
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| 0.278243423 | 4.63865E-05 | 0.011 | 1 | 54331 | GNG2 |
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| 0.278102189 | 4.68134E-05 | 0.015 | 1 | 2356 | FPGS |
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| 0.27602762 | 5.35262E-05 | 0.016 | 1 | 8564 | KMO |
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| 0.215369865 | < 0.001 | 147011 | PROCA1 |
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| 0.27546525 | 5.54961E-05 | 0.014 | 1 | 55856 | ACOT13 |
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| 0.275199622 | 5.64505E-05 | 0.019 | 1 | 4795 | NFKBIL1 |
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| 0.275186658 | 5.64972E-05 | 0.013 | 1 | 10067 | SCAMP3 |
| 0.275185376 | 5.6502E-05 | 0.029 | 1 | 7414 | VCL |
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| 0.274966389 | 5.73008E-05 | 0.012 | 1 | 64092 | SAMSN1 |
| 0.274936587 | 5.74103E-05 | 0.005 | 1 | 238 | ALK |
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| 0.274924934 | 5.74534E-05 | 0.021 | 1 | 10261 | IGSF6 |
| 0.274924934 | 5.74534E-05 | 0.022 | 1 | 80011 | C16orf94 |
| 0.274909347 | 5.75104E-05 | 0.025 | 1 | 645191 | LINGO3 |
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| 0.274730533 | 5.81729E-05 | 0.027 | 1 | 63891 | RNF123 |
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| 0.274673551 | 5.83859E-05 | 0.029 | 1 | 3381 | IBSP |
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| 0.274407893 | 5.93866E-05 | 0.013 | 1 | 2313 | FLI1 |
| 0.274326265 | 5.96975E-05 | 0.019 | 1 | 51338 | MS4A4A |
| 0.274292558 | 5.9826E-05 | 0.02 | 1 | 8875 | VNN2 |
| 0.27427572 | 5.98908E-05 | 0.017 | 1 | 3454 | IFNAR1 |
| 0.274252385 | 5.99799E-05 | 0.025 | 1 | 51073 | MRPL4 |
| 0.274243325 | 6.0015E-05 | 0.013 | 1 | 114818 | KLHL29 |
| 0.274173379 | 6.02841E-05 | 0.012 | 1 | 3140 | MR1 |
| 0.274161696 | 6.03286E-05 | 0.015 | 1 | 1633 | DCK |
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| 0.273901254 | 6.13405E-05 | 0.014 | 1 | 8531 | CSDAP1 |
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| 0.273779452 | 6.18193E-05 | 0.018 | 1 | 1312 | COMT |
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| 0.251992106 | 0.000234693 | 0.027 | 1 | 388564 | TMEM238 |
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| 0.251830131 | 0.000236934 | 0.03 | 1 | 752 | FMNL1 |
| 0.2518107 | 0.000237204 | 0.036 | 1 | 11137 | PWP1 |
| 0.25179255 | 0.000237457 | 0.029 | 1 | 26610 | ELP4 |
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| 0.251541167 | 0.000240982 | 0.022 | 1 | 8728 | ADAM19 |
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| 0.250337362 | 0.000258547 | 0.033 | 1 | 7203 | CCT3 |
| 0.250293314 | 0.000259213 | 0.024 | 1 | 55779 | WDR52 |
| 0.250178009 | 0.00026096 | 0.038 | 1 | 7260 | TSSC1 |
| 0.25016892 | 0.000261098 | 0.021 | 1 | 2134 | EXTL1 |
| 0.250093758 | 0.000262244 | 0.033 | 1 | 9659 | PDE4DIP |
| 0.250034183 | 0.000263157 | 0.035 | 1 | 3052 | HCCS |
| 0.250013441 | 0.000263475 | 0.035 | 1 | 3925 | STMN1 |
| 0.249905884 | 0.000265129 | 0.034 | 1 | 151056 | PLB1 |
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| 0.249751687 | 0.000267518 | 0.031 | 1 | 29911 | HOOK2 |
| 0.249732256 | 0.000267821 | 0.031 | 1 | 284297 | AC008735.3 |
| 0.249719292 | 0.000268023 | 0.036 | 1 | 10591 | C6orf108 |
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| 0.249653205 | 0.000269055 | 0.04 | 1 | 23379 | KIAA0947 |
| 0.249605268 | 0.000269807 | 0.024 | 1 | 152404 | IGSF11 |
| 0.249580637 | 0.000270192 | 0.036 | 1 | 183 | AGT |
| 0.249554724 | 0.000270601 | 0.033 | 1 | 3598 | IL13RA2 |
| 0.249544352 | 0.000270764 | 0.025 | 1 | 150372 | NFAM1 |
| 0.249500304 | 0.000271457 | 0.031 | 1 | 1393 | CRHBP |
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| 0.249337032 | 0.000274045 | 0.047 | 1 | 284904 | SEC14L4 |
| 0.24932538 | 0.000274231 | 0.042 | 1 | 52 | ACP1 |
| 0.249195799 | 0.000276302 | 0.028 | 1 | 56943 | ENY2 |
| 0.249086946 | 0.000278053 | 0.018 | 1 | 84299 | MIEN1 |
| 0.249061033 | 0.00027847 | 0.037 | 1 | 84680 | ACCS |
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| 0.190023139 | < 0.001 | 57706 | DENND1A |
| 0.189979136 | < 0.001 | 8462 | KLF11 |
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| 0.189381152 | < 0.001 | 78995 | C17orf53 |
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| 0.189328 | < 0.001 | 80148 | PQLC1 |
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| 0.189209282 | < 0.001 | 4649 | MYO9A |
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| 0.248647675 | 0.000285223 | 0.039 | 1 | 24145 | PANX1 |
| 0.2486386 | 0.000285374 | 0.04 | 1 | 25973 | PARS2 |
| 0.24862437 | 0.000285609 | 0.037 | 1 | 9262 | STK17B |
| 0.248568639 | 0.000286533 | 0.04 | 1 | 79091 | C16orf68 |
| 0.248544008 | 0.000286941 | 0.035 | 1 | 3622 | ING2 |
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| 0.24841702 | 0.000289057 | 0.031 | 1 | 22921 | MSRB2 |
| 0.24835743 | 0.000290056 | 0.023 | 1 | 51147 | ING4 |
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| 0.248243392 | 0.000291976 | 0.047 | 1 | 6598 | SMARCB1 |
| 0.248233035 | 0.000292151 | 0.035 | 1 | 29760 | BLNK |
| 0.248182476 | 0.000293006 | 0.038 | 1 | 221656 | AOF1 |
| 0.248157874 | 0.000293422 | 0.025 | 1 | 11062 | DUS4L |
| 0.248113826 | 0.000294172 | 0.043 | 1 | 80335 | WDR82 |
| 0.248049036 | 0.000295274 | 0.029 | 1 | 3775 | KCNK1 |
| 0.248049036 | 0.000295274 | 0.03 | 1 | 25858 | C11orf20 |
| 0.24799718 | 0.00029616 | 0.034 | 1 | 8021 | NUP214 |
| 0.247989416 | 0.000296292 | 0.036 | 1 | 6159 | RPL29 |
| 0.247989416 | 0.000296292 | 0.025 | 1 | 653857 | RP5-820A21.1 |
| 0.24798812 | 0.000296315 | 0.034 | 1 | 81627 | C1orf25 |
| 0.247960925 | 0.00029678 | 0.045 | 1 | 28973 | MRPS18B |
| 0.247824863 | 0.000299123 | 0.037 | 1 | 4916 | NTRK3 |
| 0.247762665 | 0.000300199 | 0.039 | 1 | 29070 | CCDC113 |
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| 0.247657701 | 0.000302022 | 0.039 | 1 | 2047 | EPHB1 |
| 0.247626603 | 0.000302565 | 0.034 | 1 | 654346 | LGALS9C |
| 0.247550145 | 0.000303901 | 0.036 | 1 | 440738 | MAP1LC3C |
| 0.247544974 | 0.000303993 | 0.03 | 1 | 9636 | ISG15 |
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| 0.247474983 | 0.000305222 | 0.036 | 1 | 348021 | LINC00442 |
| 0.247471094 | 0.000305289 | 0.026 | 1 | 63916 | ELMO2 |
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| 0.247336343 | 0.00030767 | 0.04 | 1 | 5393 | EXOSC9 |
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| 0.24511148 | 0.000349553 | 0.027 | 1 | 10361 | NPM2 |
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| 0.244821236 | 0.000355392 | 0.043 | 1 | 10634 | GAS2L1 |
| 0.244796604 | 0.000355893 | 0.041 | 1 | 79005 | SCNM1 |
| 0.244747356 | 0.000356893 | 0.035 | 1 | 23547 | LILRA4 |
| 0.244742185 | 0.000356998 | 0.035 | 1 | 163 | AP2B1 |
| 0.244742185 | 0.000356998 | 0.039 | 1 | 223 | ALDH9A1 |
| 0.244738296 | 0.000357078 | 0.032 | 1 | 115827 | RAB3C |
| 0.244665727 | 0.000358557 | 0.035 | 1 | 24148 | PRPF6 |
| 0.24462685 | 0.000359354 | 0.036 | 1 | 56171 | DNAH7 |
| 0.244582802 | 0.000360256 | 0.018 | 1 | 650655 | ABCA17P |
| 0.244577616 | 0.000360364 | 0.034 | 1 | 9551 | ATP5J2 |
| 0.244577616 | 0.000360364 | 0.041 | 1 | 165257 | C1QL2 |
| 0.244497269 | 0.000362018 | 0.052 | 1 | 390212 | GPR152 |
| 0.244458392 | 0.00036282 | 0.027 | 1 | 3957 | LGALS2 |
| 0.244431198 | 0.000363382 | 0.036 | 1 | 7188 | TRAF5 |
| 0.244394913 | 0.000364133 | 0.034 | 1 | 284948 | SH2D6 |
| 0.244393617 | 0.00036416 | 0.03 | 1 | 6923 | TCEB2 |
| 0.244374171 | 0.000364563 | 0.048 | 1 | 23333 | DPY19L1 |
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| 0.244314581 | 0.000365803 | 0.041 | 1 | 221830 | TWISTNB |
| 0.244279578 | 0.000366533 | 0.041 | 1 | 80145 | THOC7 |
| 0.244273096 | 0.000366667 | 0.031 | 1 | 197407 | ZNF48 |
| 0.244229048 | 0.000367589 | 0.04 | 1 | 7252 | TSHB |
| 0.244178504 | 0.000368647 | 0.029 | 1 | 10137 | RBM12 |
| 0.244143531 | 0.000369381 | 0.057 | 1 | 84933 | C8orf76 |
| 0.244024321 | 0.000371894 | 0.034 | 1 | 1819 | DRG2 |
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| 0.243039519 | 0.00039327 | 0.049 | 1 | 57213 | C13orf1 |
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| 0.242841259 | 0.000397709 | 0.044 | 1 | 3840 | KPNA4 |
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| 0.242569149 | 0.000403878 | 0.034 | 1 | 1356 | CP |
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| 0.237506509 | 0.000536142 | 0.049 | 1 | 83985 | SPNS1 |
| 0.237431347 | 0.000538381 | 0.043 | 1 | 7468 | WHSC1 |
| 0.237400264 | 0.000539309 | 0.05 | 1 | 57096 | RPGRIP1 |
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| 0.163977861 | < 0.001 | 51614 | ERGIC3 |
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| 0.163809642 | < 0.001 | 211 | ALAS1 |
| 0.163763717 | < 0.001 | 79710 | MORC4 |
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| 0.163711354 | < 0.001 | 10962 | MLLT11 |
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| 0.163530782 | < 0.001 | 4522 | MTHFD1 |
| 0.163436502 | < 0.001 | 79036 | C19orf50 |
| 0.163409069 | < 0.001 | 8890 | EIF2B4 |
| 0.163404867 | < 0.001 | 1774 | DNASE1L1 |
| 0.163237795 | < 0.001 | 10817 | FRS3 |
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| 0.163154364 | < 0.001 | 51035 | UBXN1 |

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| 0.222512975 | 0.001199498 | 0.066 | 1 | 644192 | RP11-327J17.3 |
| 0.222477987 | 0.001201689 | 0.05 | 1 | 128866 | CHMP4B |
| 0.222253814 | 0.001215775 | 0.047 | 1 | 9804 | TOMM20 |
| 0.222203285 | 0.001218975 | 0.057 | 1 | 1062 | CENPE |
| 0.222169593 | 0.001221115 | 0.055 | 1 | 155006 | TMEM213 |
| 0.222168297 | 0.001221196 | 0.081 | 1 | 343171 | OR2W3 |
| 0.222156629 | 0.001221931 | 0.044 | 1 | 4522 | MTHFD1 |
| 0.222126827 | 0.001223825 | 0.073 | 1 | 5715 | PSMD9 |
| 0.222117767 | 0.001224409 | 0.057 | 1 | 788 | SLC25A20 |
| 0.222085372 | 0.001226465 | 0.067 | 1 | 140686 | WFDC3 |
| 0.222045198 | 0.001229027 | 0.073 | 1 | 79161 | C7orf23 |
| 0.221976519 | 0.001233417 | 0.064 | 1 | 10800 | CYSLTR1 |
| 0.221962273 | 0.001234334 | 0.068 | 1 | 93 | ACVR2B |
| 0.221894875 | 0.001238658 | 0.048 | 1 | 84002 | B3GNT5 |
| 0.221879333 | 0.001239661 | 0.064 | 1 | 6604 | SMARCD3 |
| 0.221850827 | 0.001241495 | 0.05 | 1 | 2009 | EML1 |
| 0.221813262 | 0.001243918 | 0.072 | 1 | 8195 | MKKS |
| 0.221760124 | 0.001247353 | 0.052 | 1 | 463 | ATBF1 |
| 0.221722543 | 0.001249785 | 0.074 | 1 | 5664 | PSEN2 |
| 0.221627966 | 0.001255926 | 0.067 | 1 | 116540 | MRPL53 |
| 0.221615002 | 0.001256774 | 0.048 | 1 | 9413 | C9orf61 |
| 0.221612394 | 0.001256944 | 0.071 | 1 | 1545 | CYP1B1 |
| 0.221587792 | 0.001258546 | 0.061 | 1 | 9791 | PTDSS1 |
| 0.221585199 | 0.001258716 | 0.06 | 1 | 2158 | F9 |
| 0.221576124 | 0.001259308 | 0.055 | 1 | 56776 | FMN2 |
| 0.221495777 | 0.001264563 | 0.068 | 1 | 648771 | LOC648771 |
| 0.221491888 | 0.001264821 | 0.069 | 1 | 1272 | CNTN1 |
| 0.22135973 | 0.001273505 | 0.056 | 1 | 221935 | SDK1 |
| 0.221328631 | 0.001275558 | 0.047 | 1 | 7048 | TGFBR2 |
| 0.221315682 | 0.001276416 | 0.062 | 1 | 283219 | KCTD21 |
| 0.221311778 | 0.001276677 | 0.062 | 1 | 51596 | CUTA |
| 0.221262544 | 0.001279935 | 0.075 | 1 | 55843 | ARHGAP15 |
| 0.221218497 | 0.001282853 | 0.066 | 1 | 84279 | C2orf7 |
| 0.221180901 | 0.001285348 | 0.064 | 1 | 79651 | RHBDF2 |
| 0.221078545 | 0.001292175 | 0.066 | 1 | 340508 | RP11-520B13.4 |
| 0.221020237 | 0.001296078 | 0.064 | 1 | 2895 | GRID2 |
| 0.221009865 | 0.001296774 | 0.067 | 1 | 132851 | SPATA4 |
| 0.220961928 | 0.00129999 | 0.073 | 1 | 143941 | TTC36 |
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| 0.220938608 | 0.001301561 | 0.054 | 1 | 389856 | USP27X |
| 0.22089453 | 0.001304532 | 0.063 | 1 | 25999 | CLIP3 |
| 0.220880285 | 0.00130549 | 0.055 | 1 | 127428 | C1orf83 |
| 0.220831051 | 0.001308814 | 0.058 | 1 | 11201 | POLI |
| 0.22081162 | 0.001310128 | 0.072 | 1 | 54825 | PCDH24 |
| 0.220762372 | 0.001313467 | 0.07 | 1 | 142913 | CFL1P1 |
| 0.220759779 | 0.001313644 | 0.056 | 1 | 114036 | LINC00310 |
| 0.220709234 | 0.001317077 | 0.047 | 1 | 5992 | RFX4 |
| 0.220639274 | 0.001321846 | 0.073 | 1 | 22836 | RHOBTB3 |
| 0.220597818 | 0.001324679 | 0.076 | 1 | 4040 | LRP6 |
| 0.220596507 | 0.00132477 | 0.054 | 1 | 6091 | ROBO1 |
| 0.220570594 | 0.001326538 | 0.045 | 1 | 64208 | POPDC3 |
| 0.22053431 | 0.001329024 | 0.059 | 1 | 11001 | SLC27A2 |
| 0.220478594 | 0.001332855 | 0.061 | 1 | 55061 | SUSD4 |
| 0.220466927 | 0.001333657 | 0.063 | 1 | 1557 | CYP2C19 |
| 0.220451385 | 0.001334724 | 0.069 | 1 | 4726 | NDUFS6 |
| 0.220421582 | 0.001336778 | 0.061 | 1 | 51011 | FAHD2A |
| 0.220363274 | 0.001340803 | 0.06 | 1 | 283902 | HTA |
| 0.220333472 | 0.001342865 | 0.056 | 1 | 170591 | S100Z |
| 0.22025831 | 0.001348082 | 0.073 | 1 | 90050 | FAM181A |
| 0.220157236 | 0.001355123 | 0.051 | 1 | 90134 | KCNH7 |
| 0.220041916 | 0.001363194 | 0.048 | 1 | 219621 | C10orf107 |
| 0.220035434 | 0.001363646 | 0.058 | 1 | 94097 | SFXN5 |
| 0.220008224 | 0.001365565 | 0.057 | 1 | 51714 | SELT |
| 0.219962865 | 0.001368753 | 0.066 | 1 | 64407 | RGS18 |
| 0.21976462 | 0.001382788 | 0.072 | 1 | 91703 | ACY3 |
| 0.219575435 | 0.001396304 | 0.063 | 1 | 146395 | GSG1L |
| 0.21950157 | 0.001401619 | 0.076 | 1 | 57819 | LSM2 |
| 0.219451025 | 0.001405263 | 0.069 | 1 | 23168 | RTF1 |
| 0.219379768 | 0.001410416 | 0.051 | 1 | 5153 | PDE1B |
| 0.219365522 | 0.001411444 | 0.052 | 1 | 11255 | HRH3 |
| 0.219309792 | 0.001415484 | 0.076 | 1 | 1605 | DAG1 |
| 0.219277397 | 0.001417842 | 0.081 | 1 | 26007 | DAK |
| 0.219263136 | 0.001418884 | 0.062 | 1 | 255275 | MYADML2 |
| 0.219247594 | 0.001420012 | 0.082 | 1 | 256006 | ANKRD31 |
| 0.219182804 | 0.001424747 | 0.066 | 1 | 57562 | KIAA1377 |
| 0.219154298 | 0.00142683 | 0.049 | 1 | 728294 | D2HGDH |
| 0.219141349 | 0.001427783 | 0.076 | 1 | 1738 | DLD |
| 0.219130978 | 0.001428541 | 0.066 | 1 | 400710 | AC010624.2 |
| 0.219098583 | 0.001430912 | 0.063 | 1 | 128637 | TBC1D20 |
| 0.21905452 | 0.001434151 | 0.069 | 1 | 27434 | POLM |
| 0.218971595 | 0.001440265 | 0.077 | 1 | 8736 | MYOM1 |
| 0.218851089 | 0.001449179 | 0.065 | 1 | 6388 | SDF2 |

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| 0.163040578 | < 0.001 | 171023 | ASXL1 |
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| 0.162833869 | < 0.001 | 170302 | ARX |
| 0.162825942 | < 0.001 | 91949 | COG7 |
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| 0.162645802 | < 0.001 | 2137 | EXTL3 |
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| 0.1618478 | < 0.001 | 5686 | PSMA5 |
| 0.16182059 | < 0.001 | 159 | ADSS |
| 0.161804095 | < 0.001 | 283106 | CSNK2A1P |
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| 0.161716953 | < 0.001 | 7706 | TRIM25 |
| 0.161716655 | < 0.001 | 6836 | SURF4 |
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| 0.161698952 | < 0.001 | 7525 | YES1 |
| 0.161643013 | < 0.001 | 125476 | INO80C |
| 0.161641583 | < 0.001 | 54881 | TEX10 |
| 0.161460266 | < 0.001 | 2731 | GLDC |
| 0.161379591 | < 0.001 | 25851 | TECPR1 |
| 0.161312953 | < 0.001 | 221443 | C6orf130 |
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| 0.161288023 | < 0.001 | 283489 | ZNF828 |
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| 0.161208451 | < 0.001 | 81854 | MGC3771 |
| 0.161152661 | < 0.001 | 25906 | C11orf51 |
| 0.161030665 | < 0.001 | 387486 | LINC00320 |
| 0.160875946 | < 0.001 | 1385 | CREB1 |
| 0.160855949 | < 0.001 | 26534 | OR10G2 |
| 0.160829663 | < 0.001 | 11313 | LYPLA2 |
| 0.160759389 | < 0.001 | 22859 | LPHN1 |
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| 0.160294607 | < 0.001 | 26276 | VPS33B |
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| 0.218774632 | 0.001454873 | 0.068 | 1 | 137872 | ADHFE1 |
| 0.218733162 | 0.001457967 | 0.065 | 1 | 2823 | GPM6A |
| 0.218708545 | 0.001459801 | 0.062 | 1 | 27433 | TOR2A |
| 0.218658 | 0.001463585 | 0.083 | 1 | 4990 | SIX6 |
| 0.218642458 | 0.001464746 | 0.059 | 1 | 51533 | PHF7 |
| 0.218578979 | 0.001469517 | 0.056 | 1 | 1435 | CSF1 |
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| 0.218537495 | 0.00147264 | 0.063 | 1 | 1398 | CRK |
| 0.218527138 | 0.001473423 | 0.066 | 1 | 7515 | XRCC1 |
| 0.218409225 | 0.001482335 | 0.08 | 1 | 5708 | PSMD2 |
| 0.21838589 | 0.001484106 | 0.075 | 1 | 254958 | REXO1L1 |
| 0.21837163 | 0.001485184 | 0.072 | 1 | 162 | AP1B1 |
| 0.218356088 | 0.001486372 | 0.078 | 1 | 55437 | STRADB |
| 0.218323693 | 0.001488828 | 0.066 | 1 | 54495 | TMX3 |
| 0.218234301 | 0.001495646 | 0.08 | 1 | 4082 | MARCKS |
| 0.218198016 | 0.001498428 | 0.067 | 1 | 123803 | NTAN1 |
| 0.218122855 | 0.001504188 | 0.072 | 1 | 51362 | CDC40 |
| 0.218045101 | 0.001510169 | 0.056 | 1 | 132989 | C4orf36 |
| 0.218002349 | 0.001513472 | 0.055 | 1 | 999 | CDH1 |
| 0.217976436 | 0.001515483 | 0.066 | 1 | 8690 | JRKL |
| 0.217732817 | 0.00153443 | 0.059 | 1 | 92312 | MEX3A |
| 0.217680991 | 0.001538492 | 0.075 | 1 | 25903 | OLFML2B |
| 0.217651188 | 0.001540831 | 0.064 | 1 | 353149 | TBC1D26 |
| 0.217345372 | 0.001565021 | 0.072 | 1 | 27013 | C2orf24 |
| 0.217338905 | 0.001565543 | 0.087 | 1 | 346389 | MACC1 |
| 0.217283174 | 0.001569985 | 0.071 | 1 | 57449 | PLEKHG5 |
| 0.217208028 | 0.001575996 | 0.067 | 1 | 440101 | RP11-834C11.3 |
| 0.217180818 | 0.001578188 | 0.067 | 1 | 30820 | KCNIP1 |
| 0.217135474 | 0.001581826 | 0.056 | 1 | 648740 | ACTG1P4 |
| 0.21713157 | 0.001582143 | 0.075 | 1 | 134548 | ANKRD43 |
| 0.217077166 | 0.001586523 | 0.084 | 1 | 3028 | HSD17B10 |
| 0.217017546 | 0.001591339 | 0.061 | 1 | 5134 | PDCD2 |
| 0.216846511 | 0.001605232 | 0.069 | 1 | 3298 | HSF2 |
| 0.21683225 | 0.001606398 | 0.049 | 1 | 51031 | GLOD4 |
| 0.216773942 | 0.001611162 | 0.062 | 1 | 8741 | TNFSF13 |
| 0.216748029 | 0.001613281 | 0.066 | 1 | 3126 | HLA-DRB4 |
| 0.216680646 | 0.001618806 | 0.064 | 1 | 199920 | C1orf168 |
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| 0.21662882 | 0.001623071 | 0.062 | 1 | 1307 | COL16A1 |
| 0.216514781 | 0.001632494 | 0.066 | 1 | 4116 | MAGOH |
| 0.216468126 | 0.001636359 | 0.065 | 1 | 387911 | RP11-45B20.3 |
| 0.216455176 | 0.001637438 | 0.063 | 1 | 23625 | FAM89B |
| 0.216368362 | 0.001644659 | 0.071 | 1 | 342931 | RFPL4A |
| 0.216363162 | 0.001645094 | 0.072 | 1 | 390424 | ATP5G1P5 |
| 0.216360584 | 0.001645304 | 0.083 | 1 | 283951 | C16orf91 |
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| 0.21629709 | 0.001650611 | 0.071 | 1 | 10975 | UQCR11 |
| 0.216264695 | 0.001653327 | 0.065 | 1 | 9177 | HTR3B |
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| 0.216231003 | 0.001656145 | 0.062 | 1 | 9047 | SH2D2A |
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| 0.216164917 | 0.001661705 | 0.058 | 1 | 647589 | AC226150.1 |
| 0.216135129 | 0.001664213 | 0.043 | 1 | 23129 | PLXND1 |
| 0.216098845 | 0.00166727 | 0.072 | 1 | 10283 | SDCCAG10 |
| 0.216085881 | 0.001668369 | 0.061 | 1 | 29970 | IQCJ-SCHIP1 |
| 0.216015905 | 0.001674289 | 0.07 | 1 | 5531 | PPP4C |
| 0.216014609 | 0.00167439 | 0.061 | 1 | 7205 | TRIP6 |
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| 0.215872079 | 0.001686513 | 0.059 | 1 | 116496 | FAM129A |
| 0.215861708 | 0.001687399 | 0.077 | 1 | 57107 | PDSS2 |
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| 0.215058327 | 0.001757255 | 0.058 | 1 | 170302 | ARX |
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| 0.159102112 | < 0.001 | 55593 | OTUD5 |
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| 0.158890605 | < 0.001 | 25824 | PRDX5 |
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| 0.157822475 | < 0.001 | 120863 | DEPDC4 |
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| 0.157686055 | < 0.001 | 55324 | ABCF3 |
| 0.157652915 | < 0.001 | 1182 | CLCN3 |
| 0.157649696 | < 0.001 | 1509 | CTSD |
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| 0.157487839 | < 0.001 | 388387 | AC100793.3 |
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| 0.15607585 | < 0.001 | 57407 | NMRAL1 |
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| 0.155180216 | < 0.001 | 5713 | PSMD7 |

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| 0.214801759 | 0.001780125 | 0.064 | 1 | 202309 | GAPT |
| 0.214768067 | 0.00178314 | 0.062 | 1 | 4323 | MMP14 |
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| 0.21461387 | 0.001797037 | 0.066 | 1 | 28989 | NTMT1 |
| 0.214569807 | 0.001801018 | 0.062 | 1 | 84924 | ZNF566 |
| 0.21453613 | 0.001804078 | 0.08 | 1 | 2954 | GSTZ1 |
| 0.214533523 | 0.001804315 | 0.081 | 1 | 8293 | SERF1A |
| 0.214492053 | 0.001808084 | 0.07 | 1 | 440574 | C1orf151 |
| 0.21446614 | 0.001810436 | 0.078 | 1 | 5520 | PPP2R2A |
| 0.214463562 | 0.001810674 | 0.066 | 1 | 64779 | MTHFSD |
| 0.214409143 | 0.00181563 | 0.074 | 1 | 2203 | FBP1 |
| 0.214378029 | 0.001818471 | 0.06 | 1 | 643201 | RP11-844P9.2 |
| 0.214321017 | 0.001823686 | 0.054 | 1 | 54587 | MXRA8 |
| 0.214275673 | 0.001827853 | 0.062 | 1 | 26289 | AK5 |
| 0.214234188 | 0.001831667 | 0.067 | 1 | 1869 | E2F1 |
| 0.21418497 | 0.001836202 | 0.085 | 1 | 8269 | TMEM187 |
| 0.214151278 | 0.001839303 | 0.057 | 1 | 1033 | CDKN3 |
| 0.213936165 | 0.001859273 | 0.075 | 1 | 257313 | UTS2D |
| 0.213910252 | 0.001861687 | 0.062 | 1 | 64802 | NMNAT1 |
| 0.213901192 | 0.001862534 | 0.097 | 1 | 84337 | ELOF1 |
| 0.213871375 | 0.001865319 | 0.074 | 1 | 51150 | SDF4 |
| 0.213846773 | 0.001867628 | 0.071 | 1 | 811 | CALR |
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| 0.213708103 | 0.001880655 | 0.074 | 1 | 127540 | HMGB4 |
| 0.213704228 | 0.001881013 | 0.081 | 1 | 80177 | MYCT1 |
| 0.213630363 | 0.001887992 | 0.071 | 1 | 23493 | HEY2 |
| 0.213610917 | 0.00188983 | 0.073 | 1 | 26074 | C20orf26 |
| 0.213573352 | 0.00189339 | 0.077 | 1 | 5146 | PDE6C |
| 0.213511154 | 0.001899297 | 0.08 | 1 | 55304 | SPTLC3 |
| 0.21348393 | 0.001901885 | 0.077 | 1 | 646127 | LOC646127 |
| 0.213470981 | 0.001903122 | 0.066 | 1 | 100128062 | SLC2A3P1 |
| 0.213452846 | 0.001904849 | 0.072 | 1 | 7917 | BAT3 |
| 0.213311598 | 0.001918361 | 0.076 | 1 | 7706 | TRIM25 |
| 0.213301226 | 0.001919357 | 0.069 | 1 | 2902 | GRIN1 |
| 0.2132494 | 0.001924341 | 0.064 | 1 | 23205 | ACSBG1 |
| 0.213235155 | 0.001925709 | 0.071 | 1 | 9310 | ZNF235 |
| 0.213217005 | 0.001927455 | 0.08 | 1 | 7517 | XRCC3 |
| 0.213171646 | 0.001931836 | 0.077 | 1 | 6594 | SMARCA1 |
| 0.213156104 | 0.001933335 | 0.08 | 1 | 7982 | ST7 |
| 0.213156104 | 0.001933335 | 0.057 | 1 | 50807 | ASAP1 |
| 0.213136673 | 0.001935213 | 0.076 | 1 | 145407 | C14orf37 |
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| 0.212801054 | 0.001967937 | 0.062 | 1 | 111 | ADCY5 |
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| 0.212684438 | 0.001979421 | 0.076 | 1 | 8648 | NCOA1 |
| 0.212674066 | 0.001980446 | 0.069 | 1 | 29951 | PDZRN4 |
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| 0.212600216 | 0.001987759 | 0.071 | 1 | 27348 | TOR1B |
| 0.212545797 | 0.001993157 | 0.08 | 1 | 8291 | DYSF |
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| 0.212439537 | 0.002003736 | 0.068 | 1 | 6302 | TSPAN31 |
| 0.212429181 | 0.002004773 | 0.062 | 1 | 128611 | ZNF831 |
| 0.212421387 | 0.00200556 | 0.074 | 1 | 60675 | PROK2 |
| 0.21237345 | 0.002010353 | 0.094 | 1 | 255809 | C19orf38 |
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| 0.212238684 | 0.002023888 | 0.085 | 1 | 9533 | POLR1C |
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| 0.212028772 | 0.002045145 | 0.064 | 1 | 10459 | MAD2L2 |
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| 0.211838305 | 0.002064612 | 0.079 | 1 | 8649 | MAPKSP1 |
| 0.21172297 | 0.002076472 | 0.084 | 1 | 8834 | TMEM11 |
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| 0.155118853 | < 0.001 | 340526 | RGAG4 |
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| 0.154085651 | < 0.001 | 1652 | DDT |
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| 0.153096586 | < 0.001 | 51147 | ING4 |
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| 0.210276872 | 0.002230646 | 0.074 | 1 | 81890 | QTRT1 |
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| 0.210042328 | 0.002256619 | 0.071 | 1 | 8496 | PPFIBP1 |
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| 0.209656194 | 0.002299965 | 0.079 | 1 | 81573 | ANKRD13C |
| 0.209653601 | 0.002300263 | 0.081 | 1 | 2885 | GRB2 |
| 0.209566772 | 0.002310111 | 0.072 | 1 | 150678 | MYEOV2 |
| 0.209521413 | 0.002315266 | 0.079 | 1 | 84343 | HPS3 |
| 0.209503293 | 0.002317331 | 0.061 | 1 | 153572 | IRX2 |
| 0.209470898 | 0.00232103 | 0.077 | 1 | 126308 | MOBKL2A |
| 0.209468305 | 0.002321328 | 0.092 | 1 | 151194 | FAM119A |
| 0.209385365 | 0.002330822 | 0.064 | 1 | 5577 | PRKAR2B |
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| 0.209245414 | 0.002346915 | 0.059 | 1 | 440278 | CATSPER2P1 |
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| 0.209130108 | 0.002360244 | 0.08 | 1 | 54541 | DDIT4 |
| 0.209029034 | 0.002371992 | 0.078 | 1 | 60558 | GUF1 |
| 0.208997935 | 0.002375618 | 0.075 | 1 | 51378 | ANGPT4 |
| 0.208833367 | 0.002394873 | 0.076 | 1 | 307 | ANXA4 |
| 0.208829477 | 0.002395336 | 0.097 | 1 | 78986 | DUSP26 |
| 0.208649367 | 0.002416587 | 0.073 | 1 | 1184 | CLCN5 |
| 0.208641589 | 0.002417505 | 0.078 | 1 | 51309 | ARMCX1 |
| 0.208514601 | 0.002432593 | 0.07 | 1 | 503693 | LOH12CR2 |
| 0.208495155 | 0.002434909 | 0.071 | 1 | 80309 | SPHKAP |
| 0.208486095 | 0.002435989 | 0.089 | 1 | 150684 | COMMD1 |
| 0.208470553 | 0.002437854 | 0.094 | 1 | 116093 | DIRC1 |
| 0.208420008 | 0.002443895 | 0.08 | 1 | 92129 | RIPPLY1 |
| 0.208400562 | 0.002446221 | 0.08 | 1 | 4725 | NDUFS5 |
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| 0.208340973 | 0.002453371 | 0.082 | 1 | 55554 | KLK15 |
| 0.208285257 | 0.002460065 | 0.09 | 1 | 7485 | WRB |
| 0.208199725 | 0.002470376 | 0.074 | 1 | 54858 | PGPEP1 |
| 0.208198428 | 0.002470534 | 0.096 | 1 | 6576 | SLC25A1 |
| 0.208180293 | 0.002472739 | 0.067 | 1 | 8857 | FCGBP |
| 0.208166033 | 0.002474454 | 0.073 | 1 | 6239 | RREB1 |
| 0.208132342 | 0.002478539 | 0.083 | 1 | 23193 | GANAB |
| 0.207984626 | 0.002496502 | 0.1 | 1 | 138799 | OR13C5 |
| 0.207979441 | 0.002497128 | 0.077 | 1 | 80351 | TNKS2 |
| 0.2078408 | 0.002514102 | 0.079 | 1 | 64776 | C11orf1 |
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| 0.207706034 | 0.002530706 | 0.095 | 1 | 140689 | CBLN4 |
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| 0.207546651 | 0.002550465 | 0.08 | 1 | 51734 | SEPX1 |
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| 0.152212948 | < 0.001 | 10765 | KDM5B |
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| 0.190799922 | 0.005602454 | 0.121 | 1 | 79004 | CUEDC2 |
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| 0.190736428 | 0.005618539 | 0.116 | 1 | 64241 | ABCG8 |
| 0.190674216 | 0.005634366 | 0.12 | 1 | 84125 | LRRIQ1 |
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| 0.190501884 | 0.005678408 | 0.129 | 1 | 11245 | GPR176 |
| 0.190448761 | 0.005692024 | 0.107 | 1 | 56928 | SPPL2B |
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| 0.19043839 | 0.005694686 | 0.096 | 1 | 375612 | LHFPL3 |
| 0.190425441 | 0.005698029 | 0.115 | 1 | 55294 | FBXW7 |
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| 0.138744995 | < 0.001 | 56133 | PCDHB2 |
| 0.138685212 | < 0.001 | 9947 | MAGEC1 |
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| 0.138149142 | < 0.001 | 57713 | SFMBT2 |
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| 0.189444527 | 0.005955391 | 0.113 | 1 | 51663 | ZFR |
| 0.189436749 | 0.005957466 | 0.1 | 1 | 56924 | PAK6 |
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| 0.189377144 | 0.005973438 | 0.091 | 1 | 643161 | FAM25A |
| 0.189349934 | 0.005980736 | 0.109 | 1 | 6847 | SYCP1 |
| 0.189338267 | 0.005983872 | 0.112 | 1 | 8220 | DGCR14 |
| 0.189243674 | 0.006009328 | 0.11 | 1 | 6678 | SPARC |
| 0.189234599 | 0.00601177 | 0.121 | 1 | 645317 | CHCHD2P6 |
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| 0.188882157 | 0.006107565 | 0.119 | 1 | 23348 | DOCK9 |
| 0.188832924 | 0.006121057 | 0.109 | 1 | 126170 | LOC126170 |
| 0.188691676 | 0.006159904 | 0.122 | 1 | 2949 | GSTM5 |
| 0.18867223 | 0.006165268 | 0.102 | 1 | 84152 | PPP1R1B |
| 0.188670948 | 0.006165628 | 0.102 | 1 | 11236 | RNF139 |
| 0.188630775 | 0.006176726 | 0.108 | 1 | 7107 | GPR137B |
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| 0.188367724 | 0.006249816 | 0.098 | 1 | 403313 | PPAPDC2 |
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| 0.187669307 | 0.00644771 | 0.135 | 1 | 1716 | DGUOK |
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| 0.186250404 | 0.006867091 | 0.114 | 1 | 646096 | CHEK2P2 |
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| 0.185594738 | 0.00706898 | 0.116 | 1 | 8795 | TNFRSF10B |
| 0.185445726 | 0.0071156 | 0.131 | 1 | 389158 | PLSCR5 |
| 0.18539001 | 0.007133087 | 0.14 | 1 | 9361 | LONP1 |
| 0.185362786 | 0.007141675 | 0.109 | 1 | 6557 | SLC12A1 |
| 0.185215086 | 0.007188302 | 0.13 | 1 | 10269 | ZMPSTE24 |
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| 0.185163245 | 0.0072047 | 0.107 | 1 | 1340 | COX6B1 |
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| 0.185104936 | 0.007223254 | 0.122 | 1 | 391257 | SUMO1P1 |
| 0.185101047 | 0.007224466 | 0.117 | 1 | 23704 | KCNE4 |
| 0.184993505 | 0.007258734 | 0.119 | 1 | 113691 | AC002472.8 |
| 0.184976652 | 0.007264147 | 0.147 | 1 | 651430 | FLJ38576 |
| 0.184945554 | 0.007274093 | 0.126 | 1 | 901 | CCNG2 |
| 0.184830233 | 0.007311062 | 0.102 | 1 | 440275 | EIF2AK4 |
| 0.184815988 | 0.007315667 | 0.109 | 1 | 6175 | RPLP0P3 |
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| 0.184642345 | 0.007371676 | 0.124 | 1 | 9427 | ECEL1 |
| 0.184631974 | 0.007375034 | 0.132 | 1 | 51399 | TRAPPC4 |
| 0.18449074 | 0.007420927 | 0.128 | 1 | 2643 | GCH1 |
| 0.184473887 | 0.007426403 | 0.119 | 1 | 790955 | C11orf83 |
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| 0.182937086 | 0.007942681 | 0.122 | 1 | 7739 | ZNF185 |
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| 0.178190619 | 0.009744746 | 0.13 | 1 | 1629 | DBT |
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| 0.177867964 | 0.009879497 | 0.113 | 1 | 84436 | ZNF528 |
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| 0.177667126 | 0.009964203 | 0.138 | 1 | 339803 | AC016747.3 |
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| 0.177572533 | 0.010004291 | 0.156 | 1 | 221545 | C6orf136 |
| 0.177568644 | 0.010005957 | 0.156 | 1 | 8685 | MARCO |
| 0.177554399 | 0.010011988 | 0.144 | 1 | 26255 | PTTG3 |
| 0.177327633 | 0.010108788 | 0.138 | 1 | 375190 | C2orf84 |
| 0.177258953 | 0.010138313 | 0.146 | 1 | 5479 | PPIB |
| 0.17720452 | 0.010161705 | 0.146 | 1 | 2091 | AC005393.1 |
| 0.177143618 | 0.010187965 | 0.131 | 1 | 1627 | DBN1 |
| 0.177141041 | 0.010189102 | 0.146 | 1 | 10049 | DNAJB6 |
| 0.177130669 | 0.010193579 | 0.144 | 1 | 51092 | SIDT2 |
| 0.177089214 | 0.010211464 | 0.137 | 1 | 3814 | KISS1 |
| 0.17685467 | 0.010313393 | 0.122 | 1 | 27248 | C2orf30 |
| 0.176782101 | 0.010345115 | 0.127 | 1 | 7462 | LAT2 |
| 0.176748425 | 0.010359841 | 0.153 | 1 | 11012 | KLK11 |
| 0.176747113 | 0.010360414 | 0.143 | 1 | 113444 | C1orf212 |
| 0.176639557 | 0.01040762 | 0.166 | 1 | 317 | APAF1 |
| 0.176585138 | 0.010431617 | 0.13 | 1 | 54971 | BANP |
| 0.176534623 | 0.010453913 | 0.149 | 1 | 56912 | C11orf60 |
| 0.176503509 | 0.010467667 | 0.124 | 1 | 728858 | C12orf71 |
| 0.176463351 | 0.010485444 | 0.126 | 1 | 10801 | SEPTIN9 |
| 0.176432237 | 0.010499174 | 0.127 | 1 | 91646 | TDRD12 |
| 0.176376522 | 0.010523933 | 0.142 | 1 | 51097 | SCCPDH |
| 0.17637524 | 0.01052452 | 0.136 | 1 | 26091 | HERC4 |
| 0.176309139 | 0.010553896 | 0.139 | 1 | 55153 | SDAD1 |
| 0.176281929 | 0.010566009 | 0.134 | 1 | 23075 | SWAP70 |
| 0.176271573 | 0.010570632 | 0.129 | 1 | 64112 | MOAP1 |
| 0.176156238 | 0.01062221 | 0.139 | 1 | 440712 | C1orf186 |
| 0.176100522 | 0.010647179 | 0.15 | 1 | 83640 | FAM103A1 |
| 0.176092759 | 0.010650655 | 0.13 | 1 | 2066 | ERBB4 |
| 0.176051274 | 0.010669294 | 0.14 | 1 | 392360 | CTSL3 |
| 0.176022768 | 0.010682118 | 0.133 | 1 | 55810 | FOXJ2 |
| 0.175999448 | 0.010692643 | 0.13 | 1 | 6540 | SLC6A13 |
| 0.175877646 | 0.01074766 | 0.131 | 1 | 440132 | LINC00545 |
| 0.175728634 | 0.010815297 | 0.135 | 1 | 2217 | FCGRT |
| 0.17568846 | 0.010833596 | 0.149 | 1 | 139411 | PTCHD1 |
| 0.175671622 | 0.010841257 | 0.148 | 1 | 6597 | SMARCA4 |
| 0.175661251 | 0.010845986 | 0.132 | 1 | 81567 | TXNDC5 |
| 0.175593868 | 0.010876758 | 0.15 | 1 | 715 | C1R |
| 0.17555888 | 0.010892798 | 0.127 | 1 | 28227 | PPP2R3B |
| 0.175508335 | 0.010915974 | 0.143 | 1 | 56133 | PCDHB2 |
| 0.175483733 | 0.010927243 | 0.138 | 1 | 205860 | TRIML2 |
| 0.175301015 | 0.011011465 | 0.117 | 1 | 85439 | STON2 |
| 0.175297126 | 0.011013228 | 0.16 | 1 | 221823 | PRPS1L1 |
| 0.175246596 | 0.01103663 | 0.15 | 1 | 421 | ARVCF |
| 0.17517145 | 0.01107153 | 0.139 | 1 | 441061 | MARCHF11 |
| 0.175158486 | 0.011077568 | 0.138 | 1 | 147429 | CHST9-AS1 |
| 0.175096288 | 0.011106474 | 0.143 | 1 | 152098 | ZCWPW2 |
| 0.17498225 | 0.011159749 | 0.128 | 1 | 120 | ADD3 |
| 0.17489934 | 0.011198578 | 0.139 | 1 | 3776 | KCNK2 |
| 0.174866945 | 0.011213804 | 0.134 | 1 | 2079 | ERH |
| 0.174773633 | 0.011257742 | 0.148 | 1 | 64601 | VPS16A |
| 0.174672559 | 0.011305496 | 0.155 | 1 | 6687 | SPG7 |
| 0.174658313 | 0.01131222 | 0.153 | 1 | 79730 | NSUN7 |
| 0.174629807 | 0.011325713 | 0.149 | 1 | 1394 | CRHR1 |
| 0.174577981 | 0.011350315 | 0.119 | 1 | 541565 | C8orf58 |
| 0.174571499 | 0.011353433 | 0.15 | 1 | 9755 | TBKBP1 |
| 0.174500242 | 0.01138729 | 0.158 | 1 | 2521 | FUS |
| 0.174448386 | 0.011412016 | 0.137 | 1 | 202052 | DNAJC18 |
| 0.174435437 | 0.011418223 | 0.149 | 1 | 3108 | HLA-DMA |
| 0.174331769 | 0.011467773 | 0.151 | 1 | 27098 | CLUL1 |
| 0.174316227 | 0.011475266 | 0.144 | 1 | 283651 | HMGN2P46 |
| 0.174303263 | 0.011481497 | 0.141 | 1 | 100129291 | LOC100129291 |
| 0.174291611 | 0.011487043 | 0.148 | 1 | 440043 | PGAM1P8 |
| 0.174209967 | 0.011526309 | 0.147 | 1 | 10248 | POP7 |
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| 0.12559782 | < 0.001 | 375061 | FAM89A |
| 0.125520393 | < 0.001 | 111 | ADCY5 |
| 0.125425532 | < 0.001 | 83878 | USHBP1 |
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| 0.125338107 | < 0.001 | 6678 | SPARC |
| 0.125329956 | < 0.001 | 137695 | TMEM68 |
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| 0.125169605 | < 0.001 | 331 | XIAP |
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| 0.124826252 | < 0.001 | 7738 | ZNF184 |
| 0.124805324 | < 0.001 | 1807 | DPYS |
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| 0.123497337 | < 0.001 | 26260 | FBXO25 |
| 0.123443909 | < 0.001 | 388762 | OR2M1P |
| 0.123366475 | < 0.001 | 489 | ATP2A3 |
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| 0.12333148 | < 0.001 | 51150 | SDF4 |
| 0.123291261 | < 0.001 | 9837 | GINS1 |
| 0.123271406 | < 0.001 | 342931 | RFPL4A |
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| 0.123223975 | < 0.001 | 494118 | SPANXN1 |
| 0.123117551 | < 0.001 | 5908 | RAP1B |
| 0.123025268 | < 0.001 | 157310 | PEBP4 |
| 0.123012982 | < 0.001 | 11034 | DSTN |
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| 0.122942984 | < 0.001 | 27154 | BRPF3 |
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| 0.122826986 | < 0.001 | 124583 | CANT1 |
| 0.122790195 | < 0.001 | 23024 | PDZRN3 |
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| 0.122329555 | < 0.001 | 727837 | SSX2B |
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| 0.122138508 | < 0.001 | 80177 | MYCT1 |
| 0.122120842 | < 0.001 | 153527 | ZMAT2 |
| 0.122115277 | < 0.001 | 80235 | PIGZ |
| 0.122074202 | < 0.001 | 7168 | TPM1 |
| 0.122062415 | < 0.001 | 23240 | KIAA0922 |
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| 0.17418924 | 0.01153629 | 0.17 | 1 | 1514 | CTSL1 |
| 0.174181476 | 0.011540026 | 0.14 | 1 | 90701 | SEC11C |
| 0.174141288 | 0.011559404 | 0.131 | 1 | 9693 | RAPGEF2 |
| 0.174107596 | 0.011575698 | 0.156 | 1 | 4124 | MAN2A1 |
| 0.174085572 | 0.01158636 | 0.141 | 1 | 9701 | SAPS2 |
| 0.174029857 | 0.011613321 | 0.127 | 1 | 3321 | IGSF3 |
| 0.173953414 | 0.011650404 | 0.138 | 1 | 10633 | RASL10A |
| 0.17389898 | 0.01167691 | 0.125 | 1 | 84187 | TMEM164 |
| 0.173896387 | 0.011678189 | 0.142 | 1 | 2583 | B4GALNT1 |
| 0.173823833 | 0.01171353 | 0.139 | 1 | 1152 | CKB |
| 0.173743486 | 0.011752827 | 0.143 | 1 | 126074 | C19orf39 |
| 0.173690364 | 0.011778898 | 0.145 | 1 | 6468 | FBXW4 |
| 0.173673511 | 0.011787148 | 0.136 | 1 | 157638 | FAM84B |
| 0.17359966 | 0.011823492 | 0.137 | 1 | 79934 | ADCK4 |
| 0.173530981 | 0.011857349 | 0.128 | 1 | 124402 | FAM100A |
| 0.173523203 | 0.011861167 | 0.171 | 1 | 1380 | CR2 |
| 0.173385844 | 0.011929158 | 0.127 | 1 | 2703 | GJA8 |
| 0.173341796 | 0.011951058 | 0.166 | 1 | 54538 | ROBO4 |
| 0.173321053 | 0.01196138 | 0.123 | 1 | 9672 | SDC3 |
| 0.173309401 | 0.011967189 | 0.166 | 1 | 7024 | TFCP2 |
| 0.173247203 | 0.011998191 | 0.137 | 1 | 7852 | CXCR4 |
| 0.173190191 | 0.012026649 | 0.134 | 1 | 2948 | GSTM4 |
| 0.1731565 | 0.012043457 | 0.151 | 1 | 84885 | ZDHHC12 |
| 0.173153907 | 0.012044771 | 0.16 | 1 | 5346 | PLIN |
| 0.173058018 | 0.012092886 | 0.163 | 1 | 23550 | PSD4 |
| 0.173037291 | 0.012103258 | 0.141 | 1 | 9457 | FHL5 |
| 0.173030809 | 0.012106546 | 0.135 | 1 | 151242 | PPP1R1C |
| 0.173010066 | 0.012116982 | 0.128 | 1 | 56892 | C8orf4 |
| 0.1729725 | 0.012135888 | 0.146 | 1 | 81628 | TSC22D4 |
| 0.172897339 | 0.012173785 | 0.148 | 1 | 51023 | MRPS18C |
| 0.172892153 | 0.01217643 | 0.133 | 1 | 11177 | BAZ1A |
| 0.172851995 | 0.012196747 | 0.136 | 1 | 64789 | DEM1 |
| 0.172832564 | 0.012206582 | 0.159 | 1 | 2512 | FTL |
| 0.17281571 | 0.012215095 | 0.121 | 1 | 26251 | KCNG2 |
| 0.172770351 | 0.012238132 | 0.152 | 1 | 388677 | NOTCH2NL |
| 0.172709435 | 0.012269088 | 0.123 | 1 | 1728 | NQO1 |
| 0.17268613 | 0.012280917 | 0.151 | 1 | 5251 | PHEX |
| 0.172595426 | 0.012327187 | 0.136 | 1 | 25976 | TIPARP |
| 0.172531933 | 0.012359679 | 0.17 | 1 | 8639 | AOC3 |
| 0.172498226 | 0.012376904 | 0.141 | 1 | 332 | BIRC5 |
| 0.17245549 | 0.012398861 | 0.144 | 1 | 126859 | C1orf125 |
| 0.172432154 | 0.01241086 | 0.164 | 1 | 1571 | CYP2E1 |
| 0.172406241 | 0.012424164 | 0.141 | 1 | 138307 | LCN8 |
| 0.172363475 | 0.012446196 | 0.145 | 1 | 4881 | NPR1 |
| 0.172301278 | 0.012478289 | 0.136 | 1 | 26873 | OPLAH |
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| 0.172226116 | 0.012517121 | 0.137 | 1 | 113091 | PTH2 |
| 0.172207981 | 0.012526514 | 0.142 | 1 | 138802 | OR13C8 |
| 0.172206685 | 0.012527185 | 0.161 | 1 | 1327 | COX4I1 |
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| 0.171775192 | 0.012752547 | 0.176 | 1 | 84733 | CBX2 |
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| 0.170803353 | 0.013273153 | 0.157 | 1 | 220929 | ZNF438 |

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| 0.120107003 | < 0.001 | 23659 | PLA2G15 |
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| 0.17065303 | 0.013355331 | 0.173 | 1 | 8528 | DDO |
| 0.170539007 | 0.013417926 | 0.157 | 1 | 7789 | ZXDA |
| 0.170497537 | 0.013440779 | 0.172 | 1 | 28983 | TMPRSS11E2 |
| 0.170383513 | 0.013503796 | 0.137 | 1 | 9388 | LIPG |
| 0.170374453 | 0.013508813 | 0.165 | 1 | 6657 | SOX2 |
| 0.170344636 | 0.013525317 | 0.139 | 1 | 2323 | FLT3LG |
| 0.170330375 | 0.013533245 | 0.148 | 1 | 442517 | LOC442517 |
| 0.170318723 | 0.013539667 | 0.184 | 1 | 79718 | TBL1XR1 |
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| 0.170218959 | 0.013595123 | 0.158 | 1 | 157922 | CAMSAP1 |
| 0.170168415 | 0.013623295 | 0.142 | 1 | 10220 | GDF11 |
| 0.170142502 | 0.013637788 | 0.149 | 1 | 116512 | MRGPRD |
| 0.170139909 | 0.013639188 | 0.127 | 1 | 5649 | RELN |
| 0.17009066 | 0.01366671 | 0.16 | 1 | 11152 | WDR45 |
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| 0.170053095 | 0.013687794 | 0.176 | 1 | 7353 | UFD1L |
| 0.170028463 | 0.013701556 | 0.166 | 1 | 219557 | C7orf62 |
| 0.169964984 | 0.013737207 | 0.179 | 1 | 5303 | PIN4 |
| 0.169913143 | 0.013766381 | 0.144 | 1 | 55321 | C20orf46 |
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| 0.169856131 | 0.013798489 | 0.161 | 1 | 219770 | GJD4 |
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| 0.169762835 | 0.013851237 | 0.154 | 1 | 10308 | ZNF267 |
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| 0.16973044 | 0.01386953 | 0.164 | 1 | 55854 | ZC3H15 |
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| 0.169676021 | 0.013900425 | 0.171 | 1 | 1603 | DAD1 |
| 0.169676021 | 0.013900425 | 0.158 | 1 | 4086 | SMAD1 |
| 0.169668242 | 0.013904829 | 0.154 | 1 | 1135 | CHRNA2 |
| 0.169666946 | 0.013905577 | 0.164 | 1 | 24 | ABCA4 |
| 0.169624195 | 0.013929903 | 0.138 | 1 | 57523 | KIAA1305 |
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| 0.169209525 | 0.014167493 | 0.17 | 1 | 92579 | G6PC3 |
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| 0.16901128 | 0.014282358 | 0.174 | 1 | 64419 | MTMR14 |
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| 0.168447614 | 0.014613379 | 0.156 | 1 | 2000 | ELF4 |
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| 0.16825065 | 0.014730681 | 0.166 | 1 | 401067 | IQCF3 |
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| 0.168110698 | 0.014814495 | 0.186 | 1 | 219965 | OR5B17 |
| 0.168053687 | 0.014848744 | 0.151 | 1 | 3885 | KRT34 |
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| 0.167755663 | 0.01502899 | 0.168 | 1 | 55191 | NADSYN1 |
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| 0.167032614 | 0.015474236 | 0.154 | 1 | 2904 | GRIN2B |
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| 0.166532442 | 0.015788987 | 0.163 | 1 | 8804 | CREG1 |
| 0.166509107 | 0.015803827 | 0.184 | 1 | 64145 | ZFYVE20 |
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| 0.166335493 | 0.01591444 | 0.163 | 1 | 51466 | EVL |
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| 0.166233107 | 0.015980013 | 0.17 | 1 | 7385 | UQCRC2 |
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| 0.166172221 | 0.016019138 | 0.177 | 1 | 4649 | MYO9A |
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| 0.16597265 | 0.016147878 | 0.167 | 1 | 55255 | WDR41 |
| 0.16594933 | 0.016162938 | 0.167 | 1 | 79848 | CSPP1 |
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| 0.165799037 | 0.0162606 | 0.165 | 1 | 157869 | C8orf84 |
| 0.165779591 | 0.016273258 | 0.167 | 1 | 9104 | RGN |
| 0.16569148 | 0.01633084 | 0.187 | 1 | 11164 | NUDT5 |
| 0.165662959 | 0.016349485 | 0.189 | 1 | 7411 | VBP1 |
| 0.165539861 | 0.016430169 | 0.187 | 1 | 374395 | TMEM179B |
| 0.165526897 | 0.01643871 | 0.192 | 1 | 64218 | SEMA4A |
| 0.165488034 | 0.016464286 | 0.178 | 1 | 6626 | SNRPA |
| 0.165476382 | 0.01647198 | 0.169 | 1 | 152302 | CIDECP |
| 0.165455639 | 0.016485654 | 0.157 | 1 | 692312 | PPAN-P2RY11 |
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| 0.16492179 | 0.016840857 | 0.151 | 1 | 127018 | LYPLAL1 |
| 0.164917901 | 0.016843498 | 0.168 | 1 | 1141 | CHRNB2 |
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| 0.163673922 | 0.017697385 | 0.177 | 1 | 3359 | HTR3A |
| 0.163623407 | 0.017732861 | 0.179 | 1 | 2053 | EPHX2 |
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| 0.163149148 | 0.018068753 | 0.162 | 1 | 3248 | HPGD |
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| 0.162950888 | 0.018210808 | 0.136 | 1 | 153571 | C5orf38 |
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| 0.109043606 | 0.115100645 | 0.353 | 1 | 144577 | C12orf66 |
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| 0.099908322 | 0.148980394 | 0.394 | 1 | 219855 | SLC37A2 |
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| 0.099829271 | 0.149303451 | 0.419 | 1 | 57680 | CHD8 |
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| 0.099174902 | 0.151998281 | 0.389 | 1 | 57497 | LRFN2 |
| 0.099136032 | 0.152159452 | 0.383 | 1 | 23102 | TBC1D2B |
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| 0.096974663 | 0.161330059 | 0.429 | 1 | 3267 | AGFG1 |
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| 0.09683083 | 0.161954999 | 0.441 | 1 | 2 | A2M |
| 0.096810095 | 0.162044719 | 0.417 | 1 | 2219 | FCN1 |
| 0.096778996 | 0.162180156 | 0.44 | 1 | 55515 | ACCN4 |
| 0.096759558 | 0.162264779 | 0.425 | 1 | 23639 | LRRC6 |
| 0.096629985 | 0.162829906 | 0.432 | 1 | 285097 | FLJ38379 |
| 0.096579447 | 0.163050756 | 0.406 | 1 | 3801 | KIFC3 |
| 0.096574262 | 0.163073674 | 0.416 | 1 | 926 | CD8B |
| 0.096562602 | 0.163124785 | 0.424 | 1 | 2287 | FKBP3 |
| 0.096526317 | 0.163283333 | 0.413 | 1 | 54072 | LINC00158 |
| 0.096499108 | 0.163402289 | 0.427 | 1 | 130355 | C2orf76 |
| 0.096477076 | 0.163498864 | 0.463 | 1 | 255031 | FLJ35390 |
| 0.09645246 | 0.163606986 | 0.417 | 1 | 8451 | CUL4A |
| 0.096444681 | 0.163640991 | 0.449 | 1 | 27250 | PDCD4 |
| 0.0964408 | 0.16365768 | 0.433 | 1 | 139431 | FTH1P14 |
| 0.096416183 | 0.163765892 | 0.431 | 1 | 729338 | CETN4P |
| 0.096391559 | 0.163873613 | 0.442 | 1 | 3675 | ITGA3 |
| 0.096391559 | 0.163873613 | 0.414 | 1 | 134285 | TMEM171 |
| 0.096381187 | 0.163919166 | 0.431 | 1 | 23786 | BCL2L13 |
| 0.096287899 | 0.164329186 | 0.416 | 1 | 2115 | ETV1 |
| 0.096278824 | 0.164369017 | 0.426 | 1 | 23065 | KIAA0090 |
| 0.096204966 | 0.164694324 | 0.418 | 1 | 54840 | APTX |
| 0.096088342 | 0.165208429 | 0.39 | 1 | 6672 | SP100 |
| 0.095903039 | 0.166027799 | 0.431 | 1 | 7163 | TPD52 |
| 0.095883608 | 0.166113913 | 0.433 | 1 | 498 | ATP5A1 |
| 0.095827892 | 0.166361392 | 0.449 | 1 | 140885 | SIRPA |
| 0.095717743 | 0.166850746 | 0.408 | 1 | 126259 | TMIGD2 |
| 0.095712572 | 0.16687353 | 0.44 | 1 | 375061 | FAM89A |
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| 0.095409349 | 0.16822657 | 0.42 | 1 | 22986 | SORCS3 |
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| 0.095176116 | 0.169272453 | 0.417 | 1 | 3033 | HADH |
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| 0.094411597 | 0.172736034 | 0.441 | 1 | 29953 | TRHDE |
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| 0.093391813 | 0.177436858 | 0.452 | 1 | 64224 | HERPUD2 |
| 0.093384042 | 0.177472904 | 0.468 | 1 | 6712 | SPTBN2 |
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| 0.093376264 | 0.177509531 | 0.417 | 1 | 56475 | RPRM |
| 0.093333505 | 0.177708387 | 0.408 | 1 | 158747 | MOSPD2 |
| 0.093321845 | 0.177762881 | 0.479 | 1 | 84056 | KATNAL1 |
| 0.09325964 | 0.178053156 | 0.458 | 1 | 9817 | KEAP1 |
| 0.093257055 | 0.178065389 | 0.448 | 1 | 118980 | SFXN2 |
| 0.093166344 | 0.178488672 | 0.44 | 1 | 9793 | CKAP5 |
| 0.093123585 | 0.178688899 | 0.415 | 1 | 114884 | OSBPL10 |
| 0.093118399 | 0.178713471 | 0.449 | 1 | 8339 | HIST1H2BG |
| 0.093030289 | 0.179126158 | 0.415 | 1 | 79726 | WDR59 |
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| 0.093027696 | 0.179138452 | 0.44 | 1 | 9837 | GINS1 |
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| 0.092968084 | 0.179418117 | 0.416 | 1 | 92241 | RCSD1 |
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| 0.092705041 | 0.180655733 | 0.434 | 1 | 730 | C7 |
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| 0.09238369 | 0.182176828 | 0.435 | 1 | 114881 | OSBPL7 |
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| 0.092171185 | 0.18318741 | 0.429 | 1 | 11168 | PSIP1 |
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| 0.089393012 | 0.19678624 | 0.448 | 1 | 23229 | ARHGEF9 |
| 0.08937747 | 0.196864665 | 0.475 | 1 | 83851 | SYT16 |
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| 0.089333415 | 0.197085828 | 0.459 | 1 | 285315 | C3orf33 |
| 0.08916755 | 0.197921664 | 0.458 | 1 | 1628 | DBP |
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| 0.089087218 | 0.198327303 | 0.436 | 1 | 79796 | ALG9 |
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| 0.0889991 | 0.198772728 | 0.48 | 1 | 337971 | KRTAP19-4 |
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| 0.088706255 | 0.200258389 | 0.407 | 1 | 152007 | GLIPR2 |
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| 0.088167205 | 0.203014806 | 0.488 | 1 | 79685 | SAP30L |
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| 0.088125736 | 0.203228071 | 0.435 | 1 | 6192 | RPS4Y1 |
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| 0.08737807 | 0.207099482 | 0.483 | 1 | 57636 | ARHGAP23 |
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| 0.08639846 | 0.212252304 | 0.503 | 1 | 11184 | MAP4K1 |
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| 0.08612635 | 0.213699326 | 0.501 | 1 | 79031 | PDCL3 |
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| 0.080288835 | 0.246471673 | 0.486 | 1 | 864 | RUNX3 |
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| 0.080137223 | 0.247367248 | 0.499 | 1 | 166 | AES |
| 0.080029674 | 0.248003662 | 0.527 | 1 | 196883 | ADCY4 |
| 0.079957113 | 0.248434007 | 0.518 | 1 | 84222 | TMEM191A |
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| 0.079929888 | 0.248595223 | 0.488 | 1 | 439949 | LOC439949 |
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| 0.079861224 | 0.249002904 | 0.496 | 1 | 29080 | CCDC59 |
| 0.079848267 | 0.249080136 | 0.532 | 1 | 282679 | AQP11 |
| 0.079802915 | 0.249349415 | 0.509 | 1 | 10042 | HMGXB4 |
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| 0.079656489 | 0.250220954 | 0.486 | 1 | 4603 | MYBL1 |
| 0.079556711 | 0.250816196 | 0.543 | 1 | 80832 | APOL4 |
| 0.079526901 | 0.250994176 | 0.498 | 1 | 27300 | ZNF544 |
| 0.079478964 | 0.251281261 | 0.514 | 1 | 84657 | GHRLOS2 |
| 0.07935068 | 0.252048969 | 0.49 | 1 | 8739 | HRK |
| 0.079301439 | 0.252344072 | 0.515 | 1 | 441481 | GPX1P1 |
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| 0.079188712 | 0.253020138 | 0.465 | 1 | 994 | CDC25B |
| 0.079175755 | 0.25309822 | 0.479 | 1 | 64754 | SMYD3 |
| 0.079127803 | 0.253386259 | 0.529 | 1 | 9586 | CREB5 |
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| 0.079048768 | 0.253861815 | 0.506 | 1 | 160140 | C11orf65 |
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| 0.078910112 | 0.254697502 | 0.514 | 1 | 1649 | DDIT3 |
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| 0.078728706 | 0.255793989 | 0.499 | 1 | 730755 | KRTAP2-1 |
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| 0.078666508 | 0.256170869 | 0.525 | 1 | 30813 | VSX1 |
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| 0.078426778 | 0.257626146 | 0.513 | 1 | 26993 | AKAP8L |
| 0.078321822 | 0.25826478 | 0.545 | 1 | 80346 | REEP4 |
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| 0.077863112 | 0.261070132 | 0.517 | 1 | 79368 | FCRL2 |
| 0.077740021 | 0.261826813 | 0.516 | 1 | 386674 | KRTAP10-6 |
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| 0.077638946 | 0.262449086 | 0.488 | 1 | 55063 | ZCWPW1 |
| 0.077616923 | 0.262584955 | 0.532 | 1 | 51654 | CDK5RAP1 |
| 0.077611737 | 0.262616545 | 0.487 | 1 | 148170 | CDC42EP5 |
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| 0.039544672 | 4.755E-40 | 65005 | MRPL9 |
| 0.039526172 | 5.16435E-40 | 100506658 | OCLN |
| 0.039502457 | 5.74084E-40 | 644242 | LOC644242 |
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| 0.039272819 | 1.59427E-39 | 3609 | ILF3 |
| 0.039228819 | 1.93759E-39 | 26511 | CHIC2 |
| 0.039211389 | 2.09308E-39 | 221150 | C13orf3 |
| 0.039204888 | 2.15421E-39 | 10846 | PDE10A |
| 0.039199248 | 2.20871E-39 | 391257 | SUMO1P1 |
| 0.039170962 | 2.50322E-39 | 255783 | PRR24 |
| 0.039155174 | 2.68427E-39 | 10537 | UBD |
| 0.039103746 | 3.36913E-39 | 119369 | NUDT9P1 |
| 0.039088175 | 3.60889E-39 | 55137 | FIGN |
| 0.039086461 | 3.63639E-39 | 1056 | CEL |
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| 0.038973231 | 8.57276E-39 | 10723 | SLC12A7 |
| 0.038873322 | 9.29295E-39 | 157657 | C8orf37 |
| 0.038872108 | 9.34263E-39 | 9423 | NTN1 |
| 0.038857322 | 9.96892E-39 | 4731 | NDUFV3 |
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| 0.038698681 | 1.99709E-38 | 57862 | ZNF410 |
| 0.038675252 | 2.21234E-38 | 7385 | UQCRC2 |
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| 0.03861675 | 2.85595E-38 | 9978 | RBX1 |
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| 0.038394824 | 7.49765E-38 | 152816 | C4orf26 |
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| 0.038271755 | 1.27746E-37 | 10284 | SAP18 |
| 0.038263682 | 1.32281E-37 | 63928 | AC130454.1 |
| 0.038253613 | 1.38164E-37 | 6747 | SSR3 |
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| 0.037611544 | 2.1639E-36 | 56945 | MRPS22 |
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| 0.077276126 | 0.264690429 | 0.523 | 1 | 55967 | NDUFA12 |
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| 0.077191897 | 0.265213042 | 0.517 | 1 | 256949 | KANK3 |
| 0.07715562 | 0.265437961 | 0.521 | 1 | 6635 | SNRPE |
| 0.077137478 | 0.265550464 | 0.514 | 1 | 58490 | RPRD1B |
| 0.077127106 | 0.265614897 | 0.518 | 1 | 140771 | AL135932.1 |
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| 0.076541416 | 0.269269884 | 0.513 | 1 | 27257 | LSM1 |
| 0.076423496 | 0.270010501 | 0.538 | 1 | 79694 | MANEA |
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| 0.076378144 | 0.270295173 | 0.522 | 1 | 10742 | RAI2 |
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| 0.076287441 | 0.270865858 | 0.541 | 1 | 55179 | FAIM |
| 0.076255046 | 0.271070063 | 0.544 | 1 | 4624 | MYH6 |
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| 0.07600107 | 0.272672504 | 0.537 | 1 | 5602 | MAPK10 |
| 0.075971268 | 0.272861004 | 0.54 | 1 | 122046 | TEX26 |
| 0.07595443 | 0.272968113 | 0.521 | 1 | 256329 | C11orf35 |
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| 0.075810589 | 0.273878962 | 0.544 | 1 | 1876 | E2F6 |
| 0.075796336 | 0.27396974 | 0.522 | 1 | 3166 | HMX1 |
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| 0.075268961 | 0.277329385 | 0.534 | 1 | 80740 | LY6G6C |
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| 0.075224899 | 0.277610868 | 0.557 | 1 | 6407 | SEMG2 |
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| 0.074706584 | 0.280942231 | 0.518 | 1 | 126075 | AC024575.3 |
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| 0.034805071 | 2.10279E-31 | 26696 | OR2T1 |
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| 0.034702141 | 3.15098E-31 | 11153 | FICD |
| 0.034672856 | 3.5345E-31 | 25771 | TBC1D22A |
| 0.03460481 | 5.53978E-31 | 10777 | ARPP-21 |
| 0.034587786 | 4.93171E-31 | 6727 | SRP14 |
| 0.034556713 | 5.5686E-31 | 6993 | DYNLT1 |
| 0.034492359 | 7.15915E-31 | 4000 | LMNA |
| 0.034461286 | 8.08108E-31 | 54877 | ZCCHC2 |
| 0.034401286 | 1.02075E-30 | 283659 | PRTG |
| 0.034372285 | 1.1426E-30 | 4700 | NDUFA6 |
| 0.034353431 | 1.22945E-30 | 2121 | EVC |
| 0.03435313 | 1.49162E-30 | 146325 | C16orf11 |
| 0.034336288 | 1.31411E-30 | 3141 | HLCS |
| 0.034274217 | 1.67188E-30 | 113178 | SCAMP4 |
| 0.034267575 | 1.71547E-30 | 3764 | KCNJ8 |

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| 0.07364922 | 0.287821621 | 0.52 | 1 | 5051 | PAFAH2 |
| 0.073629782 | 0.287949055 | 0.55 | 1 | 2257 | FGF12 |
| 0.073605165 | 0.288111031 | 0.544 | 1 | 84639 | IL1F10 |
| 0.073596098 | 0.288170487 | 0.544 | 1 | 11247 | NXPH4 |
| 0.07345356 | 0.289106667 | 0.549 | 1 | 9635 | CLCA2 |
| 0.073432826 | 0.289243102 | 0.519 | 1 | 375748 | C9orf102 |
| 0.073336937 | 0.28987509 | 0.559 | 1 | 127707 | KLHDC7A |
| 0.073241048 | 0.290507168 | 0.547 | 1 | 3002 | GZMB |
| 0.073216431 | 0.290669292 | 0.534 | 1 | 6853 | SYN1 |
| 0.073156819 | 0.291063815 | 0.505 | 1 | 58530 | LY6G6D |
| 0.073147751 | 0.291123688 | 0.545 | 1 | 8747 | ADAM21 |
| 0.073028542 | 0.291912317 | 0.552 | 1 | 8480 | RAE1 |
| 0.0730104 | 0.292032242 | 0.53 | 1 | 29761 | USP25 |
| 0.073000036 | 0.292100996 | 0.533 | 1 | 2177 | FANCD2 |
| 0.072989665 | 0.29216969 | 0.539 | 1 | 114569 | MAL2 |
| 0.072949499 | 0.292435914 | 0.561 | 1 | 5375 | PMP2 |
| 0.072902851 | 0.292744994 | 0.551 | 1 | 1735 | DIO3 |
| 0.072898962 | 0.292771101 | 0.555 | 1 | 283149 | BCL9L |
| 0.072813436 | 0.293338567 | 0.546 | 1 | 29895 | MYLPF |
| 0.07276161 | 0.293683082 | 0.532 | 1 | 9074 | CLDN6 |
| 0.072729215 | 0.293898761 | 0.512 | 1 | 89910 | UBE3B |
| 0.072716258 | 0.293984413 | 0.524 | 1 | 51107 | APH1A |
| 0.072674796 | 0.294260472 | 0.571 | 1 | 653 | BMP5 |
| 0.072668314 | 0.294303328 | 0.52 | 1 | 7093 | TLL2 |
| 0.072550394 | 0.295089722 | 0.55 | 1 | 28999 | KLF15 |
| 0.072503746 | 0.295400709 | 0.562 | 1 | 285175 | C2orf21 |
| 0.072466172 | 0.295651406 | 0.56 | 1 | 83933 | HDAC10 |
| 0.072419524 | 0.295962751 | 0.541 | 1 | 3176 | HNMT |
| 0.072388425 | 0.296170682 | 0.548 | 1 | 641 | BLM |
| 0.072385833 | 0.296188205 | 0.561 | 1 | 3017 | HIST1H2BD |
| 0.072309375 | 0.296699405 | 0.542 | 1 | 720 | C4A |
| 0.072174616 | 0.297602803 | 0.538 | 1 | 347516 | DGAT2L6 |
| 0.072130561 | 0.297897875 | 0.566 | 1 | 3399 | ID3 |
| 0.072124086 | 0.297941953 | 0.548 | 1 | 337976 | KRTAP20-2 |
| 0.072082616 | 0.298220485 | 0.549 | 1 | 80764 | THAP7 |
| 0.072051518 | 0.298428625 | 0.532 | 1 | 79931 | TNIP3 |
| 0.072041154 | 0.298498333 | 0.545 | 1 | 29914 | UBIAD1 |
| 0.072028197 | 0.298585683 | 0.559 | 1 | 79602 | ADIPOR2 |
| 0.072017826 | 0.298655421 | 0.571 | 1 | 6161 | RPL32 |
| 0.071991913 | 0.298829406 | 0.536 | 1 | 9531 | BAG3 |
| 0.071951747 | 0.299099654 | 0.536 | 1 | 9252 | RPS6KA5 |
| 0.07194785 | 0.299126118 | 0.563 | 1 | 339344 | MYPOP |
| 0.071923234 | 0.299292147 | 0.536 | 1 | 203054 | ADCK5 |
| 0.071884364 | 0.299553901 | 0.547 | 1 | 143279 | HECTD2 |
| 0.071724981 | 0.300628811 | 0.596 | 1 | 29065 | ASAP1-IT1 |
| 0.071718507 | 0.300672293 | 0.515 | 1 | 10184 | LHFPL2 |
| 0.071715914 | 0.300689965 | 0.539 | 1 | 387893 | SETD8 |
| 0.071483962 | 0.302258462 | 0.57 | 1 | 2692 | GHRHR |
| 0.071472302 | 0.302337646 | 0.579 | 1 | 124599 | CD300LB |
| 0.071382895 | 0.302944005 | 0.541 | 1 | 28966 | SNX24 |
| 0.071281821 | 0.303630561 | 0.56 | 1 | 192134 | B3GNT6 |
| 0.071268864 | 0.303718895 | 0.528 | 1 | 26585 | GREM1 |
| 0.071235172 | 0.303947538 | 0.514 | 1 | 3603 | IL16 |
| 0.071226105 | 0.304009944 | 0.556 | 1 | 6427 | SFRS2 |
| 0.071198888 | 0.304194868 | 0.543 | 1 | 374900 | ZNF568 |
| 0.071184643 | 0.304291368 | 0.574 | 1 | 22990 | PCNX |
| 0.071137987 | 0.304609597 | 0.567 | 1 | 7033 | TFF3 |
| 0.07111726 | 0.30475089 | 0.585 | 1 | 27120 | DKKL1 |
| 0.071110778 | 0.304794729 | 0.526 | 1 | 9058 | SLC13A2 |
| 0.071088754 | 0.304945052 | 0.553 | 1 | 85294 | KRTAP2-4 |
| 0.071056359 | 0.305166095 | 0.571 | 1 | 140876 | C20orf175 |
| 0.070959173 | 0.305829138 | 0.567 | 1 | 10695 | CNPY3 |
| 0.07094492 | 0.305926025 | 0.549 | 1 | 253143 | C22orf30 |
| 0.070921592 | 0.306085676 | 0.57 | 1 | 7879 | RAB7A |
| 0.07078813 | 0.306998819 | 0.561 | 1 | 23629 | BRD7P3 |
| 0.070736296 | 0.307353199 | 0.566 | 1 | 84891 | ZSCAN10 |
| 0.07072334 | 0.307442218 | 0.54 | 1 | 84280 | BTBD10 |
| 0.070690945 | 0.307664484 | 0.516 | 1 | 23158 | TBC1D9 |
| 0.070548408 | 0.308642238 | 0.556 | 1 | 5885 | RAD21 |
| 0.070517309 | 0.30885604 | 0.558 | 1 | 54058 | C21orf58 |
| 0.070408463 | 0.309604734 | 0.576 | 1 | 7001 | PRDX2 |
| 0.070404574 | 0.309631854 | 0.548 | 1 | 57456 | KIAA1143 |
| 0.0703981 | 0.309676141 | 0.545 | 1 | 145773 | FAM81A |
| 0.070396796 | 0.3096852 | 0.521 | 1 | 641649 | TMEM91 |
| 0.070394203 | 0.309703261 | 0.534 | 1 | 283460 | HNF1A-AS1 |
| 0.070387729 | 0.309747547 | 0.502 | 1 | 286464 | CXorf59 |
| 0.070306093 | 0.310310245 | 0.568 | 1 | 85360 | SYDE1 |
| 0.070217982 | 0.310918063 | 0.543 | 1 | 3988 | LIPA |
| 0.070155784 | 0.311347842 | 0.509 | 1 | 7320 | UBE2B |
| 0.070090994 | 0.311796188 | 0.589 | 1 | 84545 | MRPL43 |
| 0.070079334 | 0.311876118 | 0.532 | 1 | 3125 | HLA-DRB3 |
| 0.070074148 | 0.311912447 | 0.528 | 1 | 444 | ASPH |

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| 0.034185361 | 2.35818E-30 | 84928 | TMEM209 |
| 0.034172647 | 2.47699E-30 | 3013 | HIST1H2AD |
| 0.034011859 | 4.60419E-30 | 56673 | C11orf16 |
| 0.033992503 | 4.96001E-30 | 23030 | KDM4B |
| 0.033974934 | 5.30646E-30 | 27141 | CIDEB |
| 0.033852719 | 8.4799E-30 | 27013 | C2orf24 |
| 0.033836506 | 9.02285E-30 | 1794 | DOCK2 |
| 0.033766504 | 1.17916E-29 | 254228 | FAM26E |
| 0.033730008 | 1.35542E-29 | 645453 | RLIMP3 |
| 0.0337146 | 1.67704E-29 | 22837 | COBLL1 |
| 0.033712722 | 1.4478E-29 | 51096 | UTP18 |
| 0.033712294 | 1.45017E-29 | 28957 | MRPS28 |
| 0.033706363 | 1.48332E-29 | 150372 | NFAM1 |
| 0.033692863 | 1.56166E-29 | 149986 | LSM14B |
| 0.033578292 | 2.41491E-29 | 22878 | KIAA1012 |
| 0.033553366 | 2.6546E-29 | 127343 | DMBX1 |
| 0.03355258 | 2.66251E-29 | 728327 | LOC728327 |
| 0.033488292 | 3.39745E-29 | 79081 | C11orf48 |
| 0.033485938 | 3.42792E-29 | 10335 | MRVI1 |
| 0.033482581 | 3.47174E-29 | 286205 | SCAI |
| 0.033478364 | 3.52761E-29 | 57223 | SMEK2 |
| 0.033432223 | 4.20068E-29 | 8742 | TNFSF12 |
| 0.03342358 | 4.34025E-29 | 2516 | NR5A1 |
| 0.033415794 | 4.46984E-29 | 7265 | TTC1 |
| 0.033391081 | 4.90738E-29 | 8808 | IL1RL2 |
| 0.033380724 | 5.10313E-29 | 339287 | MSL1 |
| 0.03333801 | 5.9958E-29 | 25994 | HIGD1A |
| 0.033261582 | 7.99615E-29 | 147804 | CTD-2224J9.2 |
| 0.033248939 | 8.38566E-29 | 9953 | HS3ST3B1 |
| 0.033211295 | 9.66046E-29 | 633 | BGN |
| 0.033111226 | 1.40618E-28 | 131474 | CHCHD4 |
| 0.033001442 | 2.1201E-28 | 4831 | NME2 |
| 0.032942228 | 2.64416E-28 | 55554 | KLK15 |
| 0.032922156 | 2.84949E-28 | 1859 | DYRK1A |
| 0.032846943 | 3.76968E-28 | 5089 | PBX2 |
| 0.032760587 | 5.19411E-28 | 5717 | PSMD11 |
| 0.032674372 | 7.14697E-28 | 54477 | PLEKHA5 |
| 0.032644659 | 7.9765E-28 | 7857 | SCG2 |
| 0.032503303 | 1.34309E-27 | 253190 | SERHL2 |
| 0.032486446 | 1.42897E-27 | 10988 | METAP2 |
| 0.032479517 | 1.46585E-27 | 116093 | DIRC1 |
| 0.032476731 | 1.48094E-27 | 57597 | BAHCC1 |
| 0.032469086 | 1.52312E-27 | 6526 | SLC5A3 |
| 0.032441873 | 1.68324E-27 | 4990 | SIX6 |
| 0.032400232 | 1.96108E-27 | 58530 | LY6G6D |
| 0.032381874 | 2.09761E-27 | 7809 | BSND |
| 0.032375947 | 2.14365E-27 | 728409 | C21orf54 |
| 0.032372948 | 2.16732E-27 | 121512 | FGD4 |
| 0.032334447 | 2.49543E-27 | 8498 | RANBP3 |
| 0.032261163 | 3.26201E-27 | 79759 | ZNF668 |
| 0.032165878 | 4.61698E-27 | 196883 | ADCY4 |
| 0.03216359 | 4.65556E-27 | 100130746 | LOC100130746 |
| 0.032145161 | 4.97853E-27 | 283130 | SLC25A45 |
| 0.032122876 | 5.39886E-27 | 389123 | IQCF2 |
| 0.032078713 | 8.26854E-27 | 4298 | MLLT1 |
| 0.032056734 | 6.86484E-27 | 23174 | ZCCHC14 |
| 0.032013662 | 8.02523E-27 | 6304 | SATB1 |
| 0.031999163 | 8.45812E-27 | 65996 | AC016629.3 |
| 0.031985734 | 8.87954E-27 | 55150 | C19orf73 |
| 0.031970948 | 9.36765E-27 | 85025 | TMEM60 |
| 0.031844806 | 1.47739E-26 | 283298 | OLFML1 |
| 0.031813022 | 1.65665E-26 | 115992 | RNF166 |
| 0.03170431 | 2.4489E-26 | 375341 | C3orf62 |
| 0.03164345 | 3.0461E-26 | 100289361 | LOC100289361 |
| 0.031448167 | 6.11838E-26 | 127665 | ZNF648 |
| 0.031429954 | 6.52816E-26 | 5433 | POLR2D |
| 0.031409241 | 7.02731E-26 | 89845 | ABCC10 |
| 0.031406384 | 7.09913E-26 | 3843 | IPO5 |
| 0.031394884 | 7.39531E-26 | 8091 | HMGA2 |
| 0.031390812 | 7.50317E-26 | 3875 | KRT18P19 |
| 0.03138217 | 7.73712E-26 | 4437 | MSH3 |
| 0.031363312 | 8.27326E-26 | 5069 | PAPPA |
| 0.03131317 | 9.88416E-26 | 7576 | ZNF28 |
| 0.031265385 | 1.17075E-25 | 114783 | LMTK3 |
| 0.031260028 | 1.19315E-25 | 55783 | FTSJD1 |
| 0.031256884 | 1.20651E-25 | 9554 | SEC22B |
| 0.03124967 | 1.23772E-25 | 54938 | SARS2 |
| 0.031232599 | 1.31475E-25 | 116328 | C8orf34 |
| 0.031164028 | 1.67513E-25 | 5602 | MAPK10 |
| 0.0311576 | 1.71354E-25 | 22822 | PHLDA1 |
| 0.031131884 | 1.87623E-25 | 7225 | TRPC6 |
| 0.031128528 | 1.89856E-25 | 9380 | GRHPR |

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| 0.070062488 | 0.311993271 | 0.553 | 1 | 654466 | KGFLP2 |
| 0.070052117 | 0.312065065 | 0.537 | 1 | 892 | CCNC |
| 0.070052117 | 0.312065065 | 0.558 | 1 | 22807 | IKZF2 |
| 0.069957532 | 0.312719673 | 0.561 | 1 | 7547 | ZIC3 |
| 0.069931611 | 0.312899858 | 0.571 | 1 | 83850 | ESYT3 |
| 0.06983313 | 0.313582927 | 0.572 | 1 | 56920 | SEMA3G |
| 0.069790371 | 0.313879341 | 0.549 | 1 | 2625 | GATA3 |
| 0.069785193 | 0.313915759 | 0.52 | 1 | 387849 | REP15 |
| 0.069659501 | 0.314789444 | 0.554 | 1 | 152926 | PPM1K |
| 0.069627106 | 0.315015137 | 0.587 | 1 | 55778 | ZNF839 |
| 0.069602482 | 0.315186232 | 0.549 | 1 | 84132 | USP42 |
| 0.06954547 | 0.315584064 | 0.545 | 1 | 25851 | TECPR1 |
| 0.069497526 | 0.315918326 | 0.58 | 1 | 442721 | LMOD2 |
| 0.069459945 | 0.316180348 | 0.552 | 1 | 6711 | SPTBN1 |
| 0.069397748 | 0.316614866 | 0.572 | 1 | 8930 | MBD4 |
| 0.069393866 | 0.316642344 | 0.567 | 1 | 64318 | NOC3L |
| 0.069389977 | 0.316669017 | 0.578 | 1 | 56259 | CTNNBL1 |
| 0.069360174 | 0.316877276 | 0.592 | 1 | 4710 | NDUFB4 |
| 0.069334254 | 0.31705901 | 0.576 | 1 | 6728 | SRP19 |
| 0.069308341 | 0.317239881 | 0.553 | 1 | 257101 | ZNF683 |
| 0.06929668 | 0.317321628 | 0.565 | 1 | 346653 | FAM71F2 |
| 0.069222815 | 0.317838222 | 0.549 | 1 | 6663 | SOX10 |
| 0.069176167 | 0.3181656 | 0.565 | 1 | 2108 | ETFA |
| 0.069152847 | 0.31832853 | 0.574 | 1 | 1147 | CHUK |
| 0.069152847 | 0.31832853 | 0.543 | 1 | 84795 | PYROXD2 |
| 0.069112681 | 0.318610251 | 0.554 | 1 | 6259 | RYK |
| 0.069099717 | 0.318701416 | 0.572 | 1 | 10106 | CTDSP2 |
| 0.069066025 | 0.318938196 | 0.574 | 1 | 113278 | C20orf54 |
| 0.069063433 | 0.318955779 | 0.582 | 1 | 337975 | KRTAP20-1 |
| 0.069023266 | 0.319237888 | 0.585 | 1 | 169166 | SNX31 |
| 0.068888508 | 0.320185781 | 0.559 | 1 | 643438 | LOC643438 |
| 0.068878137 | 0.320258737 | 0.537 | 1 | 100192379 | AC079341.1 |
| 0.068854816 | 0.320422411 | 0.576 | 1 | 8352 | HIST1H3C |
| 0.068822421 | 0.320650756 | 0.55 | 1 | 353143 | LCE3B |
| 0.068714872 | 0.321408778 | 0.575 | 1 | 94240 | EPSTI1 |
| 0.068655267 | 0.321829438 | 0.563 | 1 | 6443 | SGCB |
| 0.068621576 | 0.322067708 | 0.532 | 1 | 2896 | GRN |
| 0.068538643 | 0.322654217 | 0.573 | 1 | 1455 | CSNK1G2 |
| 0.068536051 | 0.32267189 | 0.569 | 1 | 151647 | FAM19A4 |
| 0.068533458 | 0.322690457 | 0.563 | 1 | 56905 | C15orf39 |
| 0.068463489 | 0.323185652 | 0.605 | 1 | 126669 | SHE |
| 0.068402588 | 0.32361716 | 0.544 | 1 | 4056 | LTC4S |
| 0.068402588 | 0.32361716 | 0.572 | 1 | 401546 | C9orf152 |
| 0.06838315 | 0.323754847 | 0.563 | 1 | 149986 | LSM14B |
| 0.068368897 | 0.323856294 | 0.564 | 1 | 100129827 | AC009532.1 |
| 0.068311878 | 0.324260384 | 0.582 | 1 | 154043 | CNKSR3 |
| 0.068307996 | 0.324287504 | 0.58 | 1 | 26258 | PLDN |
| 0.06814602 | 0.32543835 | 0.563 | 1 | 23239 | PHLPP1 |
| 0.068089001 | 0.325843781 | 0.598 | 1 | 10961 | ERP29 |
| 0.068072163 | 0.325964332 | 0.558 | 1 | 5935 | RBM3 |
| 0.068025514 | 0.32629624 | 0.56 | 1 | 64856 | VWA1 |
| 0.067991823 | 0.326536626 | 0.57 | 1 | 212 | ALAS2 |
| 0.067907594 | 0.327136904 | 0.539 | 1 | 6916 | TBXAS1 |
| 0.067876495 | 0.327358991 | 0.56 | 1 | 2357 | FPR1 |
| 0.067838915 | 0.327627152 | 0.574 | 1 | 11116 | FGFR1OP |
| 0.067825958 | 0.327719927 | 0.57 | 1 | 84447 | SYVN1 |
| 0.067805231 | 0.327868134 | 0.574 | 1 | 92304 | SCGB3A1 |
| 0.067604385 | 0.329305679 | 0.587 | 1 | 3661 | IRF3 |
| 0.067565508 | 0.329584271 | 0.578 | 1 | 340602 | CXorf67 |
| 0.067460552 | 0.330337048 | 0.556 | 1 | 302 | ANXA2 |
| 0.067404829 | 0.330737799 | 0.576 | 1 | 145567 | TTC7B |
| 0.067325786 | 0.331306159 | 0.606 | 1 | 829 | CAPZA1 |
| 0.067323193 | 0.331324995 | 0.588 | 1 | 10489 | LRRC41 |
| 0.067311533 | 0.331408203 | 0.574 | 1 | 10712 | C1orf2 |
| 0.067254521 | 0.331819296 | 0.571 | 1 | 60592 | SCOC |
| 0.067220829 | 0.33206141 | 0.579 | 1 | 57664 | PLEKHA4 |
| 0.067209169 | 0.332145602 | 0.589 | 1 | 6601 | SMARCC2 |
| 0.067198798 | 0.332220346 | 0.547 | 1 | 29068 | ZBTB44 |
| 0.067143083 | 0.332621783 | 0.558 | 1 | 1793 | DOCK1 |
| 0.06710162 | 0.332921088 | 0.609 | 1 | 2932 | GSK3B |
| 0.067089953 | 0.333005369 | 0.591 | 1 | 56287 | GKN1 |
| 0.067079589 | 0.333080262 | 0.542 | 1 | 57730 | ANKRD36B |
| 0.067027763 | 0.333454728 | 0.581 | 1 | 221150 | C13orf3 |
| 0.066978514 | 0.333810538 | 0.563 | 1 | 22933 | SIRT2 |
| 0.066977225 | 0.333820045 | 0.565 | 1 | 8986 | RPS6KA4 |
| 0.066931874 | 0.334147632 | 0.553 | 1 | 6386 | SDCBP |
| 0.066806175 | 0.335058272 | 0.557 | 1 | 23621 | BACE1 |
| 0.06674657 | 0.335490376 | 0.552 | 1 | 399694 | SHC4 |
| 0.066674009 | 0.336016327 | 0.578 | 1 | 8396 | PIP5K2B |
| 0.066659749 | 0.336120188 | 0.574 | 1 | 9699 | RIMS2 |
| 0.066619582 | 0.336411983 | 0.58 | 1 | 80173 | IFT74 |
| 0.066611812 | 0.336468279 | 0.602 | 1 | 9337 | CNOT8 |

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| 0.031088527 | 2.18583E-25 | 266675 | BEST4 |
| 0.031045886 | 2.53964E-25 | 137075 | CLDN23 |
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| 0.030992029 | 3.06853E-25 | 22807 | IKZF2 |
| 0.030947173 | 3.59129E-25 | 9586 | CREB5 |
| 0.030877458 | 4.58404E-25 | 260429 | PRSS33 |
| 0.030874101 | 4.63814E-25 | 255928 | SYT14 |
| 0.030838029 | 5.2612E-25 | 7079 | TIMP4 |
| 0.030774174 | 6.5742E-25 | 80350 | LPAL2 |
| 0.03077203 | 6.62354E-25 | 5885 | RAD21 |
| 0.030755674 | 7.0119E-25 | 115024 | NT5C3L |
| 0.030692032 | 8.75029E-25 | 132660 | LIN54 |
| 0.030627389 | 1.09524E-24 | 51088 | KLHL5 |
| 0.030619889 | 1.1241E-24 | 387338 | NSUN4 |
| 0.030583533 | 1.27508E-24 | 9188 | DDX21 |
| 0.030566961 | 1.3504E-24 | 122618 | PLD4 |
| 0.030562961 | 1.36922E-24 | 399665 | FAM102A |
| 0.030555319 | 1.40594E-24 | 100129434 | AC007743.1 |
| 0.030554604 | 1.40941E-24 | 4927 | NUP88 |
| 0.03051289 | 1.62814E-24 | 8639 | AOC3 |
| 0.030497177 | 1.719E-24 | 9401 | RECQL4 |
| 0.030495577 | 2.24846E-24 | 64772 | ENGASE |
| 0.030473033 | 1.86845E-24 | 343171 | OR2W3 |
| 0.030465748 | 1.91604E-24 | 3122 | HLA-DRA |
| 0.030464534 | 1.92408E-24 | 4173 | MCM4 |
| 0.030433891 | 2.13857E-24 | 55975 | KLHL7 |
| 0.030401748 | 2.38904E-24 | 10411 | RAPGEF3 |
| 0.030326607 | 3.09367E-24 | 153020 | RASGEF1B |
| 0.030313464 | 3.23654E-24 | 26251 | KCNG2 |
| 0.030273035 | 3.71824E-24 | 8352 | HIST1H3C |
| 0.030272463 | 3.72552E-24 | 10916 | MAGED2 |
| 0.030267892 | 3.78438E-24 | 118980 | SFXN2 |
| 0.030228535 | 4.33083E-24 | 7410 | VAV2 |
| 0.030189035 | 4.95769E-24 | 10439 | OLFM1 |
| 0.030156964 | 5.53216E-24 | 5294 | PIK3CG |
| 0.030112822 | 6.43198E-24 | 55924 | C1orf183 |
| 0.03002918 | 8.55272E-24 | 8456 | FOXN1 |
| 0.030004252 | 9.30946E-24 | 200933 | FBXO45 |
| 0.030002465 | 9.36624E-24 | 401 | PHOX2A |
| 0.029925538 | 1.21617E-23 | 8634 | RTCD1 |
| 0.029898396 | 1.33335E-23 | 57515 | SERINC1 |
| 0.029839752 | 1.62608E-23 | 7813 | EVI5 |
| 0.029818324 | 1.74824E-23 | 6233 | RPS27A |
| 0.029791325 | 1.91515E-23 | 23112 | TNRC6B |
| 0.029764539 | 2.09632E-23 | 439953 | LOC439953 |
| 0.029694682 | 2.65259E-23 | 387715 | ARMS2 |
| 0.029678682 | 2.7993E-23 | 10544 | PROCR |
| 0.029639183 | 3.19674E-23 | 3680 | ITGA9 |
| 0.029620897 | 3.39918E-23 | 401992 | OR2T2 |
| 0.029619683 | 3.41302E-23 | 1511 | CTSG |
| 0.029611398 | 3.50928E-23 | 127550 | A3GALT2P |
| 0.029609326 | 3.53375E-23 | 6184 | RPN1 |
| 0.029585611 | 3.82636E-23 | 9744 | ACAP1 |
| 0.029585611 | 3.82636E-23 | 442720 | EIF3IP1 |
| 0.029572397 | 3.99966E-23 | 55789 | DEPDC1B |
| 0.029559756 | 4.17271E-23 | 23007 | PLCH1 |
| 0.029556898 | 4.21282E-23 | 83440 | ADPGK |
| 0.029521398 | 4.74451E-23 | 8840 | WISP1 |
| 0.029521327 | 4.74565E-23 | 790 | CAD |
| 0.029496042 | 5.16439E-23 | 8451 | CUL4A |
| 0.029458042 | 5.86347E-23 | 89 | ACTN3 |
| 0.029440112 | 6.22514E-23 | 1144 | CHRND |
| 0.029361114 | 8.09987E-23 | 441478 | NRARP |
| 0.029319758 | 9.29415E-23 | 55154 | MSTO1 |
| 0.029206615 | 1.3527E-22 | 10730 | YME1L1 |
| 0.029110258 | 1.86006E-22 | 84251 | SGIP1 |
| 0.029102188 | 1.91027E-22 | 55278 | QRSL1 |
| 0.029097402 | 1.94064E-22 | 3142 | HLX |
| 0.029093973 | 1.96274E-22 | 100130109 | SNRPEP4 |
| 0.029086472 | 2.01189E-22 | 10581 | IFITM2 |
| 0.029015189 | 2.5443E-22 | 79699 | ZYG11B |
| 0.028989974 | 2.76423E-22 | 9516 | LITAF |
| 0.028925404 | 3.41694E-22 | 60490 | PPCDC |
| 0.028833762 | 4.61274E-22 | 151525 | WDSUB1 |
| 0.028827047 | 4.71517E-22 | 23600 | AMACR |
| 0.02873419 | 6.38408E-22 | 8512 | MBL1P |
| 0.028731762 | 6.43479E-22 | 55074 | OXR1 |
| 0.028694334 | 7.26871E-22 | 846 | CASR |
| 0.028676977 | 7.69092E-22 | 4776 | NFATC4 |
| 0.028618906 | 9.28774E-22 | 8334 | HIST1H2AC |
| 0.028584406 | 1.03875E-21 | 56928 | SPPL2B |
| 0.028540121 | 1.19896E-21 | 80762 | NDFIP1 |

| | | | | | |
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| 0.066591077 | 0.33661902 | 0.604 | 1 | 56949 | XAB2 |
| 0.066552207 | 0.336901575 | 0.564 | 1 | 23118 | MAP3K7IP2 |
| 0.066418737 | 0.337873429 | 0.598 | 1 | 84832 | ANKRD36BL1 |
| 0.06640967 | 0.337939411 | 0.595 | 1 | 3195 | TLX1 |
| 0.066407077 | 0.33795765 | 0.586 | 1 | 25833 | POU2F3 |
| 0.066377275 | 0.33817485 | 0.573 | 1 | 112869 | CCDC101 |
| 0.066353947 | 0.338345259 | 0.567 | 1 | 833 | CARS |
| 0.066271022 | 0.338950604 | 0.563 | 1 | 84458 | LCOR |
| 0.066267133 | 0.33897844 | 0.594 | 1 | 7784 | ZP3 |
| 0.06622567 | 0.33928138 | 0.563 | 1 | 81794 | ADAMTS10 |
| 0.066164762 | 0.339726597 | 0.583 | 1 | 284325 | C19orf54 |
| 0.066098683 | 0.340210527 | 0.584 | 1 | 81542 | TMX1 |
| 0.066089608 | 0.340276837 | 0.561 | 1 | 10178 | ODZ1 |
| 0.066070169 | 0.340419084 | 0.577 | 1 | 7251 | TSG101 |
| 0.066046849 | 0.340589255 | 0.578 | 1 | 4734 | NEDD4 |
| 0.066001497 | 0.340921968 | 0.559 | 1 | 10186 | LHFP |
| 0.065953553 | 0.341273218 | 0.537 | 1 | 2051 | EPHB6 |
| 0.065910786 | 0.341587096 | 0.597 | 1 | 9028 | RHBDL1 |
| 0.065893948 | 0.341710448 | 0.584 | 1 | 100130967 | C6orf99 |
| 0.065831743 | 0.342167288 | 0.581 | 1 | 388 | RHOB |
| 0.065681435 | 0.343272507 | 0.543 | 1 | 64221 | ROBO3 |
| 0.06562572 | 0.343682379 | 0.563 | 1 | 5648 | MASP1 |
| 0.065528534 | 0.344398439 | 0.575 | 1 | 152206 | CCDC13 |
| 0.06550391 | 0.344580472 | 0.558 | 1 | 22839 | DLGAP4 |
| 0.065466337 | 0.344857514 | 0.584 | 1 | 8626 | TP63 |
| 0.065466337 | 0.344857514 | 0.553 | 1 | 114790 | STK11IP |
| 0.065461151 | 0.344895393 | 0.602 | 1 | 54521 | WDR44 |
| 0.065314732 | 0.345977932 | 0.578 | 1 | 4654 | MYOD1 |
| 0.06531214 | 0.345997363 | 0.578 | 1 | 54478 | FAM64A |
| 0.065301768 | 0.34607318 | 0.606 | 1 | 5062 | PAK2 |
| 0.065279745 | 0.346236318 | 0.572 | 1 | 9555 | H2AFY |
| 0.065277152 | 0.346255749 | 0.575 | 1 | 4756 | NEO1 |
| 0.065200701 | 0.346821517 | 0.556 | 1 | 6935 | ZEB1 |
| 0.065195516 | 0.346860349 | 0.58 | 1 | 8074 | FGF23 |
| 0.065172188 | 0.347032607 | 0.552 | 1 | 7388 | UQCRH |
| 0.065161824 | 0.347109437 | 0.582 | 1 | 84908 | FAM136A |
| 0.065130726 | 0.347340107 | 0.595 | 1 | 7644 | ZNF91 |
| 0.065019287 | 0.348167211 | 0.585 | 1 | 171177 | RHOV |
| 0.06492988 | 0.348831534 | 0.58 | 1 | 5919 | RARRES2 |
| 0.064909145 | 0.348985791 | 0.528 | 1 | 122042 | RXFP2 |
| 0.064902671 | 0.349033654 | 0.627 | 1 | 65265 | C8orf33 |
| 0.064832695 | 0.34955436 | 0.573 | 1 | 22802 | CLCA4 |
| 0.064818442 | 0.349660844 | 0.615 | 1 | 27178 | IL1F7 |
| 0.064793825 | 0.34984374 | 0.596 | 1 | 117156 | SCGB3A2 |
| 0.064775683 | 0.349979609 | 0.574 | 1 | 23228 | PLCL2 |
| 0.064774387 | 0.349988461 | 0.581 | 1 | 158158 | RASEF |
| 0.064752355 | 0.35015285 | 0.601 | 1 | 1286 | COL4A4 |
| 0.064705707 | 0.350501239 | 0.609 | 1 | 283377 | SPRYD4 |
| 0.064554103 | 0.351632267 | 0.584 | 1 | 4437 | MSH3 |
| 0.064520411 | 0.351884425 | 0.591 | 1 | 1537 | CYC1 |
| 0.064519115 | 0.35189423 | 0.605 | 1 | 79746 | ECHDC3 |
| 0.064497091 | 0.352059096 | 0.577 | 1 | 2572 | GAD2 |
| 0.064482838 | 0.352165222 | 0.573 | 1 | 112616 | CMTM7 |
| 0.064472467 | 0.352242798 | 0.608 | 1 | 79006 | METRN |
| 0.064403795 | 0.352756679 | 0.599 | 1 | 203427 | SLC25A43 |
| 0.064388245 | 0.352873653 | 0.626 | 1 | 120379 | PIH1D2 |
| 0.064370096 | 0.353009373 | 0.608 | 1 | 286530 | P2RY8 |
| 0.064322159 | 0.353368431 | 0.62 | 1 | 1232 | CCR3 |
| 0.064232744 | 0.354039013 | 0.578 | 1 | 7786 | MAP3K12 |
| 0.06421072 | 0.354204535 | 0.597 | 1 | 339855 | KY |
| 0.064147227 | 0.354680836 | 0.58 | 1 | 256643 | CXorf23 |
| 0.064123899 | 0.354856372 | 0.611 | 1 | 4729 | NDUFV2 |
| 0.063963227 | 0.356065392 | 0.599 | 1 | 57695 | USP37 |
| 0.063875109 | 0.356729299 | 0.594 | 1 | 51569 | UFM1 |
| 0.063811615 | 0.35720858 | 0.592 | 1 | 283298 | OLFML1 |
| 0.06375201 | 0.357658595 | 0.582 | 1 | 81614 | NIPA2 |
| 0.063717023 | 0.357922494 | 0.578 | 1 | 9356 | SLC22A6 |
| 0.063697591 | 0.35806933 | 0.593 | 1 | 392392 | OR1K1 |
| 0.06358356 | 0.358932227 | 0.61 | 1 | 1050 | CEBPA |
| 0.063565418 | 0.359069407 | 0.592 | 1 | 59344 | ALOXE3 |
| 0.063543394 | 0.359236389 | 0.606 | 1 | 10842 | C7orf16 |
| 0.063499331 | 0.359569639 | 0.622 | 1 | 128488 | WFDC12 |
| 0.063422881 | 0.36014992 | 0.576 | 1 | 5430 | POLR2A |
| 0.063412517 | 0.360228568 | 0.573 | 1 | 84084 | RAB6C |
| 0.063346431 | 0.360729814 | 0.585 | 1 | 124602 | KIF19 |
| 0.063311443 | 0.360996008 | 0.599 | 1 | 653464 | SRGAP2C |
| 0.063294597 | 0.361123741 | 0.582 | 1 | 55273 | TMEM100 |
| 0.063246652 | 0.361487925 | 0.588 | 1 | 85481 | PSKH2 |
| 0.063242771 | 0.361517876 | 0.603 | 1 | 51289 | RXFP3 |
| 0.063040622 | 0.363056272 | 0.62 | 1 | 11067 | C10orf10 |
| 0.062899381 | 0.364134192 | 0.581 | 1 | 55658 | RNF126 |
| 0.062870875 | 0.364351839 | 0.61 | 1 | 155185 | AMZ1 |

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| 0.028485835 | 1.42903E-21 | 55739 | CARKD |
| 0.028434336 | 1.68746E-21 | 81491 | GPR63 |
| 0.028324272 | 2.61128E-21 | 926 | CD8B |
| 0.028303908 | 2.56741E-21 | 1141 | CHRNB2 |
| 0.028258052 | 2.97425E-21 | 8089 | YEATS4 |
| 0.028236838 | 3.18344E-21 | 286411 | RP1-177G6.1 |
| 0.028181266 | 3.80298E-21 | 388567 | ZNF749 |
| 0.028084554 | 5.17803E-21 | 10952 | SEC61B |
| 0.028081767 | 5.22428E-21 | 283458 | NME2P1 |
| 0.02807091 | 5.40806E-21 | 257364 | SNX33 |
| 0.027904911 | 9.16125E-21 | 8554 | PIAS1 |
| 0.027833341 | 1.14878E-20 | 6840 | SVIL |
| 0.027790412 | 1.31545E-20 | 6754 | SSTR4 |
| 0.027600629 | 2.38837E-20 | 64072 | CDH23 |
| 0.027575629 | 2.58284E-20 | 23596 | OPN3 |
| 0.027557343 | 2.73488E-20 | 5592 | PRKG1 |
| 0.027526915 | 3.00778E-20 | 6945 | MLX |
| 0.027326202 | 5.61807E-20 | 677769 | SCARNA17 |
| 0.027300917 | 6.07623E-20 | 114770 | PGLYRP2 |
| 0.027239274 | 7.35366E-20 | 2923 | PDIA3 |
| 0.027178274 | 8.87829E-20 | 360200 | TMPRSS9 |
| 0.02717549 | 8.9548E-20 | 79673 | ZNF329 |
| 0.02712699 | 1.03987E-19 | 80222 | TARS2 |
| 0.027068919 | 1.24327E-19 | 2643 | GCH1 |
| 0.027021563 | 1.43785E-19 | 2519 | FUCA2 |
| 0.02692242 | 1.94793E-19 | 8434 | RECK |
| 0.026918635 | 1.97059E-19 | 3767 | KCNJ11 |
| 0.026913419 | 2.00224E-19 | 25950 | RWDD3 |
| 0.026895991 | 2.11173E-19 | 525 | ATP6V1B1 |
| 0.026858278 | 2.36932E-19 | 51747 | AC005921.3 |
| 0.026857134 | 2.37761E-19 | 140739 | UBE2F |
| 0.02684992 | 2.43049E-19 | 22870 | SAPS1 |
| 0.026844777 | 2.4689E-19 | 8888 | MCM3AP |
| 0.026821421 | 2.65098E-19 | 137970 | UNC5D |
| 0.026759921 | 3.19641E-19 | 9530 | BAG4 |
| 0.026613494 | 4.98187E-19 | 8864 | PER2 |
| 0.026579781 | 5.51592E-19 | 27124 | INPP5J |
| 0.026574565 | 5.60345E-19 | 2051 | EPHB6 |
| 0.026551852 | 6.00091E-19 | 140691 | TRIM69 |
| 0.026536494 | 6.28527E-19 | 126119 | JOSD2 |
| 0.026512787 | 6.78188E-19 | 155185 | AMZ1 |
| 0.026478924 | 7.47489E-19 | 84902 | CCDC123 |
| 0.026469994 | 7.6782E-19 | 55234 | SMU1 |
| 0.026434781 | 8.53517E-19 | 2041 | EPHA1 |
| 0.026429638 | 8.66802E-19 | 5768 | QSOX1 |
| 0.026367852 | 1.04324E-18 | 51101 | ZC2HC1A |
| 0.026347211 | 1.10975E-18 | 56475 | RPRM |
| 0.026340567 | 1.13203E-18 | 83855 | KLF16 |
| 0.026329068 | 1.17165E-18 | 5998 | RGS3 |
| 0.026266711 | 1.41158E-18 | 51300 | TIMMDC1 |
| 0.026220212 | 1.62148E-18 | 150677 | OTOS |
| 0.026203783 | 1.70278E-18 | 920 | CD4 |
| 0.026138069 | 2.07023E-18 | 23420 | NOMO1 |
| 0.02611714 | 2.20294E-18 | 51122 | COMMD2 |
| 0.026092498 | 2.36999E-18 | 152118 | RP11-292E2.1 |
| 0.026040213 | 2.76693E-18 | 55556 | ENOSF1 |
| 0.025930928 | 3.82072E-18 | 8277 | TKTL1 |
| 0.025864571 | 4.64476E-18 | 79768 | C15orf29 |
| 0.025794785 | 5.70072E-18 | 23254 | RP1-21O18.1 |
| 0.025727715 | 6.93775E-18 | 57460 | PPM1H |
| 0.025698645 | 7.55289E-18 | 140885 | SIRPA |
| 0.025697358 | 7.58141E-18 | 30009 | TBX21 |
| 0.025681073 | 7.95061E-18 | 89781 | HPS4 |
| 0.025668001 | 8.25973E-18 | 133383 | C5orf35 |
| 0.025663644 | 8.36541E-18 | 9074 | CLDN6 |
| 0.025549216 | 1.16718E-17 | 4745 | NELL1 |
| 0.025548037 | 1.4161E-17 | 285596 | FAM153A |
| 0.025542147 | 1.29835E-17 | 5799 | PTPRN2 |
| 0.025534146 | 1.2194E-17 | 1044 | CDX1 |
| 0.025497718 | 1.3553E-17 | 3576 | IL8 |
| 0.025427433 | 1.66112E-17 | 23138 | AC136632.1 |
| 0.025414933 | 1.72222E-17 | 10951 | CBX1 |
| 0.025414933 | 1.72222E-17 | 441543 | TTTY6B |
| 0.025402147 | 1.78701E-17 | 56138 | PCDHA11 |
| 0.025393004 | 1.83482E-17 | 3227 | HOXC11 |
| 0.02535679 | 2.03691E-17 | 3709 | ITPR2 |
| 0.025331361 | 2.19176E-17 | 84302 | TMEM246 |
| 0.025133505 | 3.86677E-17 | 79753 | SNIP1 |
| 0.025111863 | 4.11342E-17 | 5834 | PYGB |
| 0.025010578 | 5.49008E-17 | 55110 | MAGOHB |
| 0.025008792 | 5.51807E-17 | 80896 | NPL |
| 0.02488558 | 7.82764E-17 | 4123 | MAN2C1 |

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| 0.062778875 | 0.365055442 | 0.603 | 1 | 55556 | ENOSF1 |
| 0.062774986 | 0.365085483 | 0.614 | 1 | 65999 | LRRC61 |
| 0.06277369 | 0.365095556 | 0.618 | 1 | 119587 | CPXM2 |
| 0.062703721 | 0.365630209 | 0.627 | 1 | 5214 | PFKP |
| 0.062659658 | 0.365968078 | 0.579 | 1 | 5999 | RGS4 |
| 0.062625974 | 0.366226614 | 0.611 | 1 | 474381 | H2AFB2 |
| 0.062575437 | 0.366614163 | 0.615 | 1 | 6293 | VPS52 |
| 0.062552117 | 0.36679244 | 0.631 | 1 | 951 | CD37 |
| 0.062540449 | 0.366882086 | 0.616 | 1 | 1296 | COL8A2 |
| 0.062515832 | 0.36707148 | 0.615 | 1 | 100130274 | CCDC166 |
| 0.062510647 | 0.367110819 | 0.608 | 1 | 23276 | KLHL18 |
| 0.062362928 | 0.368245751 | 0.614 | 1 | 128312 | HIST3H2BB |
| 0.062286478 | 0.368834615 | 0.671 | 1 | 127733 | UBXN10 |
| 0.062281296 | 0.368874133 | 0.588 | 1 | 80235 | PIGZ |
| 0.062191885 | 0.369562864 | 0.617 | 1 | 6158 | RPL28 |
| 0.062164672 | 0.369772375 | 0.591 | 1 | 619279 | ZNF704 |
| 0.062160786 | 0.369802743 | 0.604 | 1 | 100129478 | LOC100129478 |
| 0.062146533 | 0.369913071 | 0.592 | 1 | 23177 | CEP68 |
| 0.062053237 | 0.370632499 | 0.563 | 1 | 64787 | EPS8L2 |
| 0.062029909 | 0.370812923 | 0.613 | 1 | 23539 | SLC16A8 |
| 0.061926249 | 0.371613622 | 0.592 | 1 | 200162 | SPAG17 |
| 0.061722808 | 0.373189598 | 0.574 | 1 | 7267 | TTC3 |
| 0.061717629 | 0.373229355 | 0.628 | 1 | 8398 | PLA2G6 |
| 0.061680049 | 0.373521537 | 0.601 | 1 | 645453 | RLIMP3 |
| 0.061674863 | 0.373561352 | 0.605 | 1 | 2776 | GNAQ |
| 0.061654136 | 0.373722315 | 0.622 | 1 | 55216 | C11orf57 |
| 0.061556946 | 0.37447682 | 0.593 | 1 | 4712 | NDUFB6 |
| 0.061520666 | 0.374759436 | 0.595 | 1 | 90204 | ZSWIM1 |
| 0.061400156 | 0.375697255 | 0.579 | 1 | 93663 | ARHGAP18 |
| 0.061356105 | 0.376039833 | 0.605 | 1 | 2799 | GNS |
| 0.061344441 | 0.376130849 | 0.607 | 1 | 149371 | EXOC8 |
| 0.061332777 | 0.376221925 | 0.616 | 1 | 116986 | AGAP2 |
| 0.061295204 | 0.376514614 | 0.621 | 1 | 84717 | AC011498.3 |
| 0.061257623 | 0.376807481 | 0.587 | 1 | 6505 | SLC1A1 |
| 0.061205793 | 0.377212137 | 0.616 | 1 | 388569 | ZNF324B |
| 0.061187651 | 0.377353579 | 0.621 | 1 | 22913 | RALY |
| 0.061129343 | 0.377808899 | 0.631 | 1 | 285600 | C5orf36 |
| 0.061093058 | 0.378093064 | 0.631 | 1 | 2938 | GSTA1 |
| 0.061015312 | 0.378700942 | 0.611 | 1 | 170958 | ZNF525 |
| 0.060989395 | 0.378903359 | 0.629 | 1 | 84284 | NTPCR |
| 0.060955703 | 0.379167557 | 0.61 | 1 | 149603 | RNF187 |
| 0.060936268 | 0.379319668 | 0.63 | 1 | 390259 | BSX |
| 0.060845565 | 0.380030692 | 0.624 | 1 | 131177 | FAM3D |
| 0.060743198 | 0.380834162 | 0.592 | 1 | 79908 | BTNL8 |
| 0.060727648 | 0.380955875 | 0.633 | 1 | 653140 | AC008073.2 |
| 0.060709503 | 0.381098181 | 0.596 | 1 | 10765 | KDM5B |
| 0.060605843 | 0.381913364 | 0.614 | 1 | 4621 | MYH3 |
| 0.060574744 | 0.38215816 | 0.606 | 1 | 645426 | TMEM191C |
| 0.060517728 | 0.382606685 | 0.615 | 1 | 10335 | MRVI1 |
| 0.060506068 | 0.382698655 | 0.57 | 1 | 3204 | HOXA7 |
| 0.060467195 | 0.383004785 | 0.617 | 1 | 200933 | FBXO45 |
| 0.060389444 | 0.38361752 | 0.617 | 1 | 230 | ALDOC |
| 0.060381673 | 0.383678555 | 0.617 | 1 | 4242 | MFNG |
| 0.060363531 | 0.383821547 | 0.588 | 1 | 139596 | UPRT |
| 0.060318179 | 0.38417992 | 0.61 | 1 | 3361 | HTR5A |
| 0.060267642 | 0.384579033 | 0.6 | 1 | 387509 | GPR153 |
| 0.060258571 | 0.384650618 | 0.645 | 1 | 285636 | C5orf51 |
| 0.060138065 | 0.385603398 | 0.634 | 1 | 157769 | FAM91A1 |
| 0.060130287 | 0.385664731 | 0.607 | 1 | 90121 | TSR2 |
| 0.060097896 | 0.385921329 | 0.586 | 1 | 115209 | OMA1 |
| 0.06001626 | 0.38656801 | 0.623 | 1 | 64344 | HIF3A |
| 0.059965726 | 0.386967689 | 0.594 | 1 | 729566 | ZBTB8OSP1 |
| 0.05996054 | 0.387009293 | 0.598 | 1 | 657 | BMPR1A |
| 0.059944991 | 0.387132168 | 0.611 | 1 | 58526 | MID1IP1 |
| 0.059915189 | 0.38736856 | 0.604 | 1 | 133015 | PACRGL |
| 0.059758399 | 0.388614386 | 0.598 | 1 | 23624 | CBLC |
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| 0.051027395 | 0.461709768 | 0.671 | 1 | 51474 | LIMA1 |
| 0.051018324 | 0.461789399 | 0.678 | 1 | 5894 | RAF1 |
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| 0.013414318 | 7.06352E-06 | 646934 | LOC646934 |
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| 0.013403174 | 7.18834E-06 | 91107 | TRIM47 |
| 0.013380246 | 7.45188E-06 | 90060 | CCDC120 |
| 0.013361461 | 7.67466E-06 | 54344 | DPM3 |
| 0.013345604 | 7.86763E-06 | 79177 | ZNF576 |
| 0.013306033 | 8.36966E-06 | 168544 | ZNF467 |

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| 0.04756894 | 0.492647171 | 0.658 | 1 | 2852 | GPER |
| 0.047548212 | 0.492835969 | 0.659 | 1 | 3630 | INS |
| 0.047377165 | 0.494394749 | 0.683 | 1 | 7079 | TIMP4 |
| 0.047375869 | 0.4944067 | 0.702 | 1 | 53833 | IL20RB |
| 0.047362912 | 0.494525194 | 0.682 | 1 | 474344 | GIMAP6 |
| 0.047282577 | 0.495257258 | 0.688 | 1 | 27121 | DKK4 |
| 0.04718798 | 0.496121675 | 0.695 | 1 | 57184 | C15orf17 |
| 0.047167249 | 0.496311188 | 0.679 | 1 | 8354 | HIST1H3I |
| 0.047125787 | 0.496690392 | 0.734 | 1 | 646548 | LOC646548 |
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| 0.047055811 | 0.497330338 | 0.699 | 1 | 7379 | UPK2 |
| 0.047045447 | 0.497425199 | 0.697 | 1 | 26524 | LATS2 |
| 0.047044147 | 0.497436166 | 0.703 | 1 | 199964 | TMEM61 |
| 0.047005277 | 0.49779284 | 0.68 | 1 | 4071 | TM4SF1 |
| 0.046953443 | 0.498266548 | 0.704 | 1 | 2021 | ENDOG |
| 0.046937894 | 0.498409569 | 0.709 | 1 | 590 | BCHE |
| 0.046930119 | 0.498480529 | 0.722 | 1 | 23306 | TMEM194A |
| 0.046870515 | 0.499026626 | 0.683 | 1 | 3592 | IL12A |
| 0.046864036 | 0.499085635 | 0.692 | 1 | 1446 | CSN1S1 |
| 0.046852373 | 0.499192715 | 0.706 | 1 | 137695 | TMEM68 |
| 0.046796653 | 0.499704242 | 0.708 | 1 | 28968 | SLC6A16 |
| 0.046757784 | 0.500060737 | 0.705 | 1 | 64855 | FAM129B |
| 0.046750005 | 0.500131786 | 0.701 | 1 | 1295 | COL8A1 |
| 0.046747413 | 0.500155926 | 0.69 | 1 | 79982 | DNAJB14 |
| 0.046709839 | 0.5005005 | 0.699 | 1 | 9126 | SMC3 |
| 0.046698175 | 0.500607789 | 0.699 | 1 | 53 | ACP2 |
| 0.046686511 | 0.500715017 | 0.684 | 1 | 56288 | PARD3 |
| 0.046624314 | 0.501285434 | 0.697 | 1 | 116935 | RPL3P2 |
| 0.046479184 | 0.50262028 | 0.729 | 1 | 3765 | KCNJ9 |
| 0.046411805 | 0.503240108 | 0.698 | 1 | 7088 | TLE1 |
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| 0.046277042 | 0.504480958 | 0.705 | 1 | 5701 | PSMC2 |
| 0.046248537 | 0.504744709 | 0.701 | 1 | 440093 | RP11-428G5.1 |
| 0.046216141 | 0.505042672 | 0.706 | 1 | 8893 | EIF2B5 |
| 0.046213549 | 0.505066812 | 0.698 | 1 | 3293 | HSD17B3 |
| 0.046182454 | 0.505353808 | 0.691 | 1 | 79102 | RNF26 |
| 0.046128031 | 0.505855441 | 0.664 | 1 | 11160 | ERLIN2 |
| 0.046121553 | 0.505915999 | 0.701 | 1 | 140691 | TRIM69 |
| 0.046087857 | 0.506226361 | 0.679 | 1 | 7391 | USF1 |
| 0.04606583 | 0.50643003 | 0.711 | 1 | 440307 | TTLL13 |
| 0.046059351 | 0.506490588 | 0.712 | 1 | 8557 | TCAP |
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| 0.045950506 | 0.507496417 | 0.702 | 1 | 7042 | TGFB2 |
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| 0.045902561 | 0.507939696 | 0.688 | 1 | 55325 | UFSP2 |
| 0.04589349 | 0.508023441 | 0.744 | 1 | 642413 | CTSL1P6 |
| 0.045780759 | 0.509067297 | 0.679 | 1 | 23396 | PIP5K1C |
| 0.045761321 | 0.509247243 | 0.728 | 1 | 391104 | VHLL |
| 0.045750957 | 0.509343326 | 0.683 | 1 | 728882 | FAM182B |
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| 0.045718562 | 0.509642661 | 0.711 | 1 | 140701 | C20orf135 |
| 0.045717265 | 0.50965488 | 0.732 | 1 | 4063 | LY9 |
| 0.045715969 | 0.509667039 | 0.708 | 1 | 55096 | EBLN2 |
| 0.04566025 | 0.510183036 | 0.686 | 1 | 440577 | LOC440577 |
| 0.04564859 | 0.510291338 | 0.691 | 1 | 6925 | TCF4 |
| 0.045560475 | 0.511108577 | 0.726 | 1 | 51186 | WBP5 |
| 0.04555529 | 0.511157215 | 0.718 | 1 | 23315 | SLC9A8 |
| 0.045496982 | 0.511698425 | 0.715 | 1 | 149647 | FAM71A |
| 0.045468472 | 0.511963069 | 0.707 | 1 | 118424 | UBE2J2 |
| 0.045446444 | 0.512167931 | 0.689 | 1 | 51523 | CXXC5 |
| 0.045442559 | 0.512204528 | 0.681 | 1 | 79412 | KREMEN2 |
| 0.045406278 | 0.512541234 | 0.699 | 1 | 389203 | C4ORF52 |
| 0.045300022 | 0.513528883 | 0.721 | 1 | 64431 | ACTR6 |
| 0.045296133 | 0.513565481 | 0.72 | 1 | 133874 | AC034199.2 |
| 0.045285769 | 0.513661981 | 0.684 | 1 | 4213 | MEIS3P1 |
| 0.045283176 | 0.513686359 | 0.701 | 1 | 386678 | KRTAP10-11 |
| 0.045180809 | 0.514638543 | 0.697 | 1 | 26184 | OR1F2P |
| 0.045140643 | 0.515012801 | 0.697 | 1 | 653483 | C6orf124 |
| 0.045121204 | 0.51519388 | 0.694 | 1 | 9820 | CUL7 |
| 0.045027908 | 0.516064048 | 0.728 | 1 | 55080 | TAPBPL |
| 0.044978667 | 0.516523361 | 0.739 | 1 | 340980 | OR52B6 |
| 0.044974782 | 0.516560137 | 0.731 | 1 | 118856 | MMP21 |
| 0.044939794 | 0.516886055 | 0.74 | 1 | 5216 | PFN1 |
| 0.044899624 | 0.517261147 | 0.71 | 1 | 2532 | DARC |
| 0.044867229 | 0.517563999 | 0.714 | 1 | 5126 | PCSK2 |
| 0.044753201 | 0.518629074 | 0.722 | 1 | 10637 | LEFTY1 |
| 0.044601593 | 0.520048022 | 0.698 | 1 | 5616 | PRKY |
| 0.044566605 | 0.520376265 | 0.715 | 1 | 728642 | CDC2L2 |
| 0.044513483 | 0.520873308 | 0.709 | 1 | 1442 | CSH1 |
| 0.044380013 | 0.522125304 | 0.739 | 1 | 84328 | LZIC |
| 0.04437742 | 0.52214992 | 0.707 | 1 | 6886 | TAL1 |
| 0.044137701 | 0.524401844 | 0.739 | 1 | 4825 | NKX6-1 |

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| 0.013295604 | 8.50698E-06 | 53339 | BTBD1 |
| 0.01325139 | 9.11346E-06 | 730 | C7 |
| 0.013229319 | 9.43147E-06 | 341152 | OR2AT4 |
| 0.013132248 | 1.09602E-05 | 352909 | C19orf51 |
| 0.013100677 | 1.15065E-05 | 5158 | PDE6B |
| 0.013073606 | 1.19955E-05 | 387597 | ILDR2 |
| 0.012976178 | 1.39249E-05 | 1786 | DNMT1 |
| 0.012958536 | 1.43045E-05 | 112724 | RDH13 |
| 0.012875607 | 1.62251E-05 | 729305 | RP11-469N6.1 |
| 0.012839394 | 1.71387E-05 | 55034 | MOCOS |
| 0.012811679 | 1.78708E-05 | 84106 | PRAM1 |
| 0.012797608 | 1.82539E-05 | 387820 | LOC387820 |
| 0.012787751 | 1.85269E-05 | 2779 | GNAT1 |
| 0.012748466 | 1.96538E-05 | 4292 | MLH1 |
| 0.012715537 | 2.06485E-05 | 6134 | RPL10 |
| 0.012712395 | 2.07459E-05 | 10468 | FST |
| 0.012693966 | 2.13259E-05 | 5504 | PPP1R2 |
| 0.01263908 | 2.31635E-05 | 58526 | MID1IP1 |
| 0.012627967 | 2.35322E-05 | 23008 | KLHDC10 |
| 0.012583539 | 2.51379E-05 | 29980 | DONSON |
| 0.012522539 | 2.75131E-05 | 80298 | MTERFD3 |
| 0.012503968 | 2.82776E-05 | 6351 | CCL4 |
| 0.012475682 | 2.94809E-05 | 56899 | ANKS1B |
| 0.012333826 | 3.62865E-05 | 3200 | HOXA3 |
| 0.012303898 | 3.79014E-05 | 4074 | M6PR |
| 0.012289041 | 3.87283E-05 | 3184 | HNRNPD |
| 0.012235042 | 4.188E-05 | 84443 | FRMPD3 |
| 0.012144328 | 4.77289E-05 | 3074 | HEXB |
| 0.0121394 | 4.80679E-05 | 55120 | FANCL |
| 0.012121971 | 4.92851E-05 | 26994 | RNF11 |
| 0.012018472 | 5.71371E-05 | 400624 | FLJ45079 |
| 0.012008757 | 5.79321E-05 | 79797 | ZNF408 |
| 0.011969472 | 6.12548E-05 | 8454 | CUL1 |
| 0.011966906 | 6.4206E-05 | 83473 | KATNAL2 |
| 0.011896116 | 6.79479E-05 | 7292 | TNFSF4 |
| 0.011878544 | 6.96508E-05 | 64841 | GNPNAT1 |
| 0.011825473 | 7.5043E-05 | 51125 | GOLGA7 |
| 0.011809116 | 7.67829E-05 | 79637 | ARMC7 |
| 0.01180883 | 7.68135E-05 | 10971 | YWHAQ |
| 0.011802474 | 7.75001E-05 | 6653 | SORL1 |
| 0.011705046 | 8.87784E-05 | 1649 | DDIT3 |
| 0.011693689 | 9.01897E-05 | 285195 | SLC9A9 |
| 0.011670117 | 9.31867E-05 | 100288252 | LOC100288252 |
| 0.011633832 | 9.79845E-05 | 84545 | MRPL43 |
| 0.011613904 | 0.000100718 | 6617 | SNAPC1 |
| 0.011591047 | 0.000103942 | 8930 | MBD4 |
| 0.011585618 | 0.000104721 | 157695 | C8orf42 |
| 0.011508333 | 0.000116439 | 219833 | C11orf45 |
| 0.011491547 | 0.000119143 | 51310 | SLC22A17 |
| 0.01145919 | 0.000124522 | 441228 | LOC441228 |
| 0.011444762 | 0.000126994 | 10873 | ME3 |
| 0.01143662 | 0.00012841 | 90293 | KLHL13 |
| 0.011282263 | 0.00015822 | 864 | RUNX3 |
| 0.011268121 | 0.000161255 | 259197 | NCR3 |
| 0.011264906 | 0.000161952 | 668 | FOXL2 |
| 0.011249478 | 0.000165339 | 57661 | PHRF1 |
| 0.011181908 | 0.000180973 | 2260 | FGFR1 |
| 0.011174764 | 0.000182705 | 382 | ARF6 |
| 0.011101694 | 0.000201336 | 2569 | GABRR1 |
| 0.011087908 | 0.000205046 | 2827 | GPR3 |
| 0.010994052 | 0.000232058 | 7042 | TGFB2 |
| 0.010985551 | 0.000234663 | 81832 | NETO1 |
| 0.010892552 | 0.00026501 | 114803 | MYSM1 |
| 0.010888696 | 0.000266345 | 4025 | LPO |
| 0.01086941 | 0.000273114 | 6310 | ATXN1 |
| 0.010853481 | 0.000278827 | 140876 | C20orf175 |
| 0.010807125 | 0.000296094 | 27131 | SNX5 |
| 0.010791526 | 0.00031297 | 64856 | VWA1 |
| 0.010771654 | 0.000321124 | 4665 | NAB2 |
| 0.010767196 | 0.000311765 | 4774 | NFIA |
| 0.010722839 | 0.000330083 | 9066 | SYT7 |
| 0.010633892 | 0.000378444 | 10645 | CAMKK2 |
| 0.010614269 | 0.000379255 | 81554 | WBSCR16 |
| 0.010596912 | 0.000387725 | 375775 | PNPLA7 |
| 0.010544341 | 0.000414466 | 5865 | RAB3B |
| 0.010517627 | 0.000428705 | 124801 | LSM12 |
| 0.01044377 | 0.000470487 | 55301 | OLAH |
| 0.010413056 | 0.000488955 | 1588 | CYP19A1 |
| 0.010410557 | 0.000490488 | 358 | AQP1 |
| 0.010405914 | 0.000493346 | 3111 | HLA-DOA |
| 0.010343057 | 0.000533603 | 5558 | PRIM2 |
| 0.010302772 | 0.000560991 | 130355 | C2orf76 |

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| 0.044114377 | 0.524620533 | 0.733 | 1 | 6392 | SDHD |
| 0.044114377 | 0.524620533 | 0.725 | 1 | 126119 | JOSD2 |
| 0.044061251 | 0.525120676 | 0.69 | 1 | 916 | CD3E |
| 0.043943334 | 0.526230752 | 0.731 | 1 | 116969 | ART5 |
| 0.043865588 | 0.526963234 | 0.722 | 1 | 5696 | PSMB8 |
| 0.04376322 | 0.527929068 | 0.729 | 1 | 144245 | ALG10B |
| 0.043717869 | 0.528356612 | 0.665 | 1 | 3757 | KCNH2 |
| 0.043717869 | 0.528356612 | 0.72 | 1 | 146198 | ZFP90 |
| 0.043575332 | 0.529703379 | 0.737 | 1 | 54838 | C10orf26 |
| 0.043444455 | 0.530941308 | 0.718 | 1 | 4605 | MYBL2 |
| 0.04341336 | 0.531235814 | 0.735 | 1 | 6999 | TDO2 |
| 0.043274708 | 0.532549024 | 0.735 | 1 | 11196 | SEC23IP |
| 0.043174934 | 0.533495069 | 0.704 | 1 | 55717 | BRWD2 |
| 0.043149017 | 0.53374052 | 0.698 | 1 | 64682 | ANAPC1 |
| 0.043119214 | 0.534023345 | 0.733 | 1 | 861 | RUNX1 |
| 0.043103665 | 0.534171581 | 0.735 | 1 | 80006 | C5orf44 |
| 0.043069974 | 0.534490705 | 0.721 | 1 | 114049 | WBSCR22 |
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| 0.042977974 | 0.535364866 | 0.738 | 1 | 124590 | USH1G |
| 0.04292614 | 0.535857737 | 0.715 | 1 | 3906 | LALBA |
| 0.042922255 | 0.535894036 | 0.725 | 1 | 729952 | HMGB3P6 |
| 0.042898931 | 0.536116183 | 0.717 | 1 | 286205 | SCAI |
| 0.042831551 | 0.536756873 | 0.719 | 1 | 7576 | ZNF28 |
| 0.042757686 | 0.537460327 | 0.725 | 1 | 728978 | RP11-790G19.2 |
| 0.042704564 | 0.537966728 | 0.693 | 1 | 64097 | EPB41L4A |
| 0.04267735 | 0.538225651 | 0.685 | 1 | 7011 | TEP1 |
| 0.042669576 | 0.538299501 | 0.714 | 1 | 9392 | TGFBRAP1 |
| 0.042517968 | 0.53974539 | 0.723 | 1 | 1258 | CNGB1 |
| 0.04245577 | 0.540339291 | 0.749 | 1 | 4135 | MAP6 |
| 0.042413011 | 0.540746748 | 0.742 | 1 | 6121 | RPE65 |
| 0.042409122 | 0.540784359 | 0.714 | 1 | 440163 | RNASE13 |
| 0.042357292 | 0.541279733 | 0.727 | 1 | 23365 | ARHGEF12 |
| 0.042348221 | 0.541366339 | 0.733 | 1 | 9623 | TCL1B |
| 0.042231601 | 0.542480946 | 0.72 | 1 | 27136 | MORC1 |
| 0.042143486 | 0.543323934 | 0.726 | 1 | 80763 | C12orf39 |
| 0.042138305 | 0.543374181 | 0.744 | 1 | 79003 | MIS12 |
| 0.04211757 | 0.543572783 | 0.735 | 1 | 1022 | CDK7 |
| 0.042112391 | 0.543621898 | 0.741 | 1 | 84983 | MGC14436 |
| 0.042094249 | 0.543795407 | 0.727 | 1 | 4688 | NCF2 |
| 0.041923203 | 0.545434892 | 0.753 | 1 | 80139 | ZNF703 |
| 0.041901179 | 0.545646429 | 0.752 | 1 | 2829 | XCR1 |
| 0.04178844 | 0.546728849 | 0.732 | 1 | 158405 | KIAA1958 |
| 0.041728839 | 0.547301352 | 0.709 | 1 | 23317 | DNAJC13 |
| 0.041724946 | 0.547338009 | 0.737 | 1 | 401474 | SAMD12 |
| 0.04168348 | 0.547736645 | 0.733 | 1 | 57532 | NUFIP2 |
| 0.041651089 | 0.548048317 | 0.738 | 1 | 55539 | KCNQ1DN |
| 0.04157982 | 0.54873389 | 0.748 | 1 | 23603 | CORO1C |
| 0.041560385 | 0.54892087 | 0.724 | 1 | 3109 | HLA-DMB |
| 0.041516326 | 0.549344122 | 0.744 | 1 | 23585 | TMEM50A |
| 0.041437283 | 0.550105155 | 0.744 | 1 | 6094 | ROM1 |
| 0.041395821 | 0.550504804 | 0.705 | 1 | 9371 | KIF3B |
| 0.041373793 | 0.550717294 | 0.728 | 1 | 2058 | EPRS |
| 0.041358244 | 0.550866663 | 0.761 | 1 | 339221 | ENPP7 |
| 0.041268833 | 0.551728666 | 0.752 | 1 | 4586 | MUC5AC |
| 0.041262355 | 0.551791906 | 0.733 | 1 | 4739 | NEDD9 |
| 0.041218296 | 0.552216351 | 0.729 | 1 | 79009 | DDX50 |
| 0.041191082 | 0.552479744 | 0.741 | 1 | 23596 | OPN3 |
| 0.041139252 | 0.552979231 | 0.738 | 1 | 79711 | IPO4 |
| 0.04113796 | 0.552991927 | 0.743 | 1 | 3550 | IK |
| 0.041074466 | 0.553605616 | 0.741 | 1 | 351 | APP |
| 0.041031703 | 0.554019213 | 0.762 | 1 | 2845 | GPR22 |
| 0.040975984 | 0.554557383 | 0.73 | 1 | 140739 | UBE2F |
| 0.040654629 | 0.557669282 | 0.721 | 1 | 56311 | ANKRD7 |
| 0.040633895 | 0.557870448 | 0.724 | 1 | 116068 | AC027323.1 |
| 0.040579472 | 0.55839771 | 0.768 | 1 | 337978 | KRTAP21-2 |
| 0.040566515 | 0.558523774 | 0.748 | 1 | 10293 | TRAIP |
| 0.040532827 | 0.55884999 | 0.74 | 1 | 23600 | AMACR |
| 0.040465448 | 0.559505045 | 0.719 | 1 | 127343 | DMBX1 |
| 0.040438235 | 0.559769094 | 0.736 | 1 | 342371 | ATXN1L |
| 0.040364373 | 0.560487211 | 0.748 | 1 | 3431 | SP110 |
| 0.040346231 | 0.560663342 | 0.747 | 1 | 9183 | ZW10 |
| 0.040276259 | 0.561343789 | 0.711 | 1 | 11117 | EMILIN1 |
| 0.04024905 | 0.561608195 | 0.716 | 1 | 4929 | NR4A2 |
| 0.040032651 | 0.5637151 | 0.746 | 1 | 10537 | UBD |
| 0.039958794 | 0.564435661 | 0.768 | 1 | 10232 | MSLN |
| 0.039901778 | 0.564991474 | 0.772 | 1 | 1108 | CHD4 |
| 0.039799411 | 0.565990984 | 0.749 | 1 | 3762 | KCNJ5 |
| 0.039737213 | 0.566598892 | 0.733 | 1 | 22829 | NLGN4Y |
| 0.039693158 | 0.567028701 | 0.744 | 1 | 124460 | SNX20 |
| 0.039672423 | 0.567231476 | 0.743 | 1 | 51096 | UTP18 |
| 0.03952859 | 0.568638802 | 0.724 | 1 | 115950 | ZNF653 |
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| 0.010293415 | 0.000567538 | 8662 | EIF3B |
| 0.010275486 | 0.00058028 | 2850 | GPR27 |
| 0.010273629 | 0.000581615 | 10311 | DSCR3 |
| 0.010251701 | 0.000597595 | 3778 | KCNMA1 |
| 0.010247058 | 0.000601031 | 152100 | CMC1 |
| 0.010238272 | 0.000607583 | 10935 | PRDX3 |
| 0.010211344 | 0.00062808 | 353131 | LCE1A |
| 0.010186487 | 0.00064757 | 6125 | RPL5 |
| 0.010095773 | 0.000723568 | 8678 | BECN1 |
| 0.010066631 | 0.000749689 | 151050 | C2orf67 |
| 0.010020203 | 0.000793121 | 26223 | FBXL21 |
| 0.009988917 | 0.000823693 | 283899 | INO80E |
| 0.009900346 | 0.000916271 | 4633 | MYL2 |
| 0.009889704 | 0.000928019 | 147184 | TMEM99 |
| 0.009874847 | 0.000944658 | 10881 | ACTL7A |
| 0.009867489 | 0.000952999 | 56947 | MFF |
| 0.009865776 | 0.000954952 | 7008 | TEF |
| 0.009863561 | 0.00095748 | 8683 | SFRS9 |
| 0.009809849 | 0.001031201 | 11214 | AKAP13 |
| 0.009804776 | 0.001026917 | 8676 | STX11 |
| 0.009778134 | 0.001059896 | 25778 | DSTYK |
| 0.009760419 | 0.001082364 | 27125 | AFF4 |
| 0.009752205 | 0.00109293 | 81876 | RAB1B |
| 0.009712419 | 0.001145474 | 125965 | COX6B2 |
| 0.009701205 | 0.001160701 | 664 | BNIP3 |
| 0.009685134 | 0.001182851 | 80199 | FUZ |
| 0.009669635 | 0.001204579 | 28968 | SLC6A16 |
| 0.00965442 | 0.001226267 | 23344 | ESYT1 |
| 0.009639777 | 0.001247479 | 4833 | NME4 |
| 0.009621849 | 0.001273914 | 3834 | KIF25 |
| 0.009505064 | 0.001459157 | 4117 | MAK |
| 0.00948135 | 0.00149968 | 54505 | DHX29 |
| 0.009480493 | 0.001501165 | 706 | TSPO |
| 0.009440136 | 0.001572583 | 6942 | TCF20 |
| 0.009380208 | 0.001684425 | 26275 | HIBCH |
| 0.009301065 | 0.001843345 | 1723 | DHODH |
| 0.009283923 | 0.001879534 | 80833 | APOL3 |
| 0.009262637 | 0.001925374 | 148113 | CILP2 |
| 0.009225781 | 0.002007188 | 6094 | ROM1 |
| 0.009195067 | 0.002077789 | 900 | CCNG1 |
| 0.009175781 | 0.002123279 | 10726 | NUDC |
| 0.009148281 | 0.002189723 | 55065 | GPR172B |
| 0.009096282 | 0.002320597 | 285753 | C6orf182 |
| 0.009085782 | 0.002347876 | 112616 | CMTM7 |
| 0.009044425 | 0.002458208 | 3891 | KRT85 |
| 0.009041568 | 0.002466002 | 79633 | FAT4 |
| 0.008934283 | 0.002775585 | 3710 | ITPR3 |
| 0.008844427 | 0.003061758 | 338675 | OR5AP2 |
| 0.008810641 | 0.00317614 | 254187 | TSGA10IP |
| 0.008760927 | 0.003351546 | 100131211 | TMEM194B |
| 0.008728856 | 0.00346933 | 57621 | ZBTB2 |
| 0.008687714 | 0.003625951 | 140596 | DEFB104A |
| 0.008672857 | 0.003684069 | 89941 | RHOT2 |
| 0.008657428 | 0.003745322 | 284371 | ZNF841 |
| 0.008642214 | 0.003806622 | 7164 | TPD52L1 |
| 0.008566857 | 0.004123924 | 6443 | SGCB |
| 0.008538786 | 0.004248126 | 64397 | ZFP106 |
| 0.008511001 | 0.004374396 | 904 | CCNT1 |
| 0.008476358 | 0.004536594 | 389170 | AC117392.3 |
| 0.008433787 | 0.004743356 | 147407 | MCART2 |
| 0.008357503 | 0.005135311 | 147015 | DHRS13 |
| 0.008339931 | 0.005229647 | 2299 | FOXI1 |
| 0.008246503 | 0.00575801 | 374868 | ATP9B |
| 0.008222718 | 0.005899992 | 10529 | NEBL |
| 0.008161504 | 0.006280024 | 23197 | FAF2 |
| 0.008130932 | 0.006477945 | 10313 | RTN3 |
| 0.007994148 | 0.007433975 | 22802 | CLCA4 |
| 0.00797522 | 0.007575789 | 1951 | CELSR3 |
| 0.007948792 | 0.00777785 | 51382 | ATP6V1D |
| 0.00790222 | 0.008145719 | 56956 | LHX9 |
| 0.00789522 | 0.008202332 | 3690 | ITGB3 |
| 0.007891078 | 0.008236004 | 157769 | FAM91A1 |
| 0.00788922 | 0.008251141 | 10827 | FAM114A2 |
| 0.007879649 | 0.008329535 | 3417 | IDH1 |
| 0.007872864 | 0.008385524 | 842 | CASP9 |
| 0.007871149 | 0.008399719 | 57716 | PRX |
| 0.007825007 | 0.008790019 | 1609 | DGKQ |
| 0.007725079 | 0.009691278 | 8880 | FUBP1 |
| 0.007720722 | 0.00973239 | 56897 | WRNIP1 |
| 0.007635865 | 0.010564563 | 84918 | LRP11 |
| 0.007621412 | 0.010720505 | 8243 | SMC1A |
| 0.007615366 | 0.010774862 | 9185 | REPS2 |

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|---|---|---|---|---|---|
| 0.039453436 | 0.569374025 | 0.751 | 1 | 79087 | ALG12 |
| 0.039406788 | 0.569830596 | 0.739 | 1 | 219654 | ZCCHC24 |
| 0.039404199 | 0.569856226 | 0.745 | 1 | 9919 | SEC16A |
| 0.039387349 | 0.570020914 | 0.762 | 1 | 122011 | CSNK1A1L |
| 0.03936014 | 0.570288479 | 0.737 | 1 | 8089 | YEATS4 |
| 0.03934459 | 0.570440352 | 0.764 | 1 | 387338 | NSUN4 |
| 0.039322563 | 0.570656538 | 0.77 | 1 | 64087 | MCCC2 |
| 0.039247409 | 0.571393013 | 0.749 | 1 | 8642 | DCHS1 |
| 0.039177436 | 0.572079599 | 0.757 | 1 | 81532 | MOB2 |
| 0.039145041 | 0.572397947 | 0.737 | 1 | 84296 | GINS4 |
| 0.039137263 | 0.572473943 | 0.742 | 1 | 4776 | NFATC4 |
| 0.039129492 | 0.572550058 | 0.754 | 1 | 125144 | C17orf45 |
| 0.039089318 | 0.572944582 | 0.717 | 1 | 10616 | RBCK1 |
| 0.039078955 | 0.573046505 | 0.752 | 1 | 1947 | EFNB1 |
| 0.038971402 | 0.574104309 | 0.755 | 1 | 284266 | SIGLEC15 |
| 0.038911801 | 0.574690461 | 0.771 | 1 | 84726 | BAT2L |
| 0.038892362 | 0.574881613 | 0.732 | 1 | 89832 | CHRFAM7A |
| 0.038884588 | 0.574957848 | 0.744 | 1 | 9223 | MAGI1 |
| 0.038872924 | 0.575072765 | 0.749 | 1 | 131578 | LRRC15 |
| 0.038858671 | 0.5752123 | 0.773 | 1 | 93979 | CPA5 |
| 0.038853485 | 0.575263977 | 0.712 | 1 | 3133 | HLA-E |
| 0.038835347 | 0.575442314 | 0.758 | 1 | 5473 | PPBP |
| 0.038773149 | 0.576054871 | 0.743 | 1 | 27439 | CECR6 |
| 0.038753711 | 0.576246202 | 0.755 | 1 | 57617 | VPS18 |
| 0.038709655 | 0.576679528 | 0.739 | 1 | 389170 | AC117392.3 |
| 0.038666893 | 0.577101231 | 0.728 | 1 | 84464 | BTBD12 |
| 0.038661711 | 0.577151775 | 0.783 | 1 | 84989 | LOC84989 |
| 0.038657822 | 0.577190518 | 0.742 | 1 | 10978 | CLP1 |
| 0.03864098 | 0.577356219 | 0.752 | 1 | 10598 | AHSA1 |
| 0.038630612 | 0.577458441 | 0.746 | 1 | 5170 | PDPK1 |
| 0.038603399 | 0.577727616 | 0.747 | 1 | 85452 | C1orf222 |
| 0.038555458 | 0.578200221 | 0.752 | 1 | 6563 | SLC14A1 |
| 0.038541205 | 0.578340113 | 0.753 | 1 | 4173 | MCM4 |
| 0.038466047 | 0.579082429 | 0.732 | 1 | 81844 | TRIM56 |
| 0.038420696 | 0.579529703 | 0.743 | 1 | 2668 | GDNF |
| 0.038374044 | 0.579991221 | 0.745 | 1 | 570 | BAAT |
| 0.038364977 | 0.580080748 | 0.748 | 1 | 8266 | UBL4A |
| 0.038257428 | 0.581143498 | 0.749 | 1 | 26281 | FGF20 |
| 0.038218554 | 0.58152777 | 0.759 | 1 | 91612 | CHURC1 |
| 0.038186159 | 0.581848502 | 0.752 | 1 | 2168 | FABP1 |
| 0.03811878 | 0.582515001 | 0.774 | 1 | 8545 | CGGBP1 |
| 0.038074721 | 0.582951665 | 0.754 | 1 | 90933 | TRIM41 |
| 0.038006041 | 0.583631814 | 0.769 | 1 | 375759 | C9orf50 |
| 0.03796069 | 0.584080637 | 0.744 | 1 | 5270 | SERPINE2 |
| 0.037943847 | 0.584247291 | 0.732 | 1 | 401375 | GTF2IRD2P1 |
| 0.037915338 | 0.58453083 | 0.744 | 1 | 89781 | HPS4 |
| 0.037892018 | 0.584761381 | 0.746 | 1 | 448835 | LCE6A |
| 0.037823338 | 0.585442364 | 0.747 | 1 | 152503 | SH3D19 |
| 0.037811674 | 0.585558355 | 0.747 | 1 | 26189 | OR1A2 |
| 0.037680805 | 0.586857736 | 0.735 | 1 | 6146 | RPL22 |
| 0.037583616 | 0.587823153 | 0.752 | 1 | 7851 | MALL |
| 0.037452742 | 0.589124858 | 0.782 | 1 | 138009 | DCAF4L2 |
| 0.037425533 | 0.589395344 | 0.773 | 1 | 55647 | RAB20 |
| 0.037407391 | 0.589575648 | 0.749 | 1 | 50859 | SPOCK3 |
| 0.03739832 | 0.589667022 | 0.753 | 1 | 6879 | TAF7 |
| 0.037238937 | 0.591254532 | 0.743 | 1 | 192666 | KRT24 |
| 0.0371897 | 0.591745377 | 0.76 | 1 | 65996 | AC016629.3 |
| 0.037171558 | 0.591926038 | 0.735 | 1 | 25879 | DCAF13 |
| 0.037118431 | 0.592455149 | 0.756 | 1 | 7298 | TYMS |
| 0.037062712 | 0.593011796 | 0.775 | 1 | 123264 | AC013553.1 |
| 0.037060119 | 0.593037963 | 0.767 | 1 | 4528 | MTIF2 |
| 0.03698108 | 0.59382695 | 0.781 | 1 | 5309 | PITX3 |
| 0.036951274 | 0.594124675 | 0.753 | 1 | 4093 | SMAD9 |
| 0.036946092 | 0.594175875 | 0.768 | 1 | 10486 | CAP2 |
| 0.036943499 | 0.594202042 | 0.749 | 1 | 348751 | AC073043.2 |
| 0.036930542 | 0.594331801 | 0.792 | 1 | 22943 | DKK1 |
| 0.036841132 | 0.595225275 | 0.785 | 1 | 81876 | RAB1B |
| 0.036806148 | 0.595574558 | 0.737 | 1 | 5781 | PTPN11 |
| 0.036758203 | 0.596053839 | 0.758 | 1 | 5339 | PLEC1 |
| 0.036754314 | 0.596093178 | 0.775 | 1 | 284353 | NKPD1 |
| 0.036725808 | 0.596378267 | 0.758 | 1 | 3636 | INPPL1 |
| 0.03671803 | 0.596455753 | 0.748 | 1 | 3421 | IDH3G |
| 0.036679156 | 0.596844733 | 0.787 | 1 | 5592 | PRKG1 |
| 0.036663607 | 0.597001076 | 0.778 | 1 | 9922 | IQSEC1 |
| 0.036600117 | 0.597636044 | 0.755 | 1 | 53841 | MUPCDH |
| 0.036541805 | 0.598221123 | 0.752 | 1 | 84618 | NT5C1A |
| 0.036530145 | 0.598337054 | 0.747 | 1 | 10071 | MUC12 |
| 0.0364822 | 0.598818481 | 0.759 | 1 | 92345 | NAF1 |
| 0.036427777 | 0.599363625 | 0.739 | 1 | 1051 | CEBPB |
| 0.03640186 | 0.599623024 | 0.75 | 1 | 1836 | SLC26A2 |
| 0.036388904 | 0.59975338 | 0.757 | 1 | 90324 | CCDC97 |
| 0.036364283 | 0.600000918 | 0.744 | 1 | 29785 | CYP2S1 |

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| 0.007583866 | 0.011105256 | 6549 | SLC9A2 |
| 0.007576508 | 0.011183708 | 5137 | PDE1C |
| 0.007570437 | 0.011248819 | 10941 | UGT2A1 |
| 0.00757008 | 0.011252669 | 54764 | ZRANB1 |
| 0.007528295 | 0.011710121 | 6121 | RPE65 |
| 0.007412439 | 0.013065924 | 1051 | CEBPB |
| 0.007275511 | 0.014845877 | 392392 | OR1K1 |
| 0.007216369 | 0.015678544 | 2865 | AC002511.1 |
| 0.007213226 | 0.015723921 | 151507 | MSL3P1 |
| 0.007126441 | 0.017023407 | 1666 | DECR1 |
| 0.007091798 | 0.017567897 | 51643 | TMBIM4 |
| 0.00704837 | 0.018271981 | 498 | ATP5A1 |
| 0.007039013 | 0.018426869 | 9695 | EDEM1 |
| 0.007001085 | 0.019066574 | 375033 | PEAR1 |
| 0.007000085 | 0.019083692 | 25793 | FBXO7 |
| 0.006959443 | 0.019791193 | 23275 | POFUT2 |
| 0.006953014 | 0.019905185 | 768 | CA9 |
| 0.006945371 | 0.02004144 | 100131479 | LOC100131479 |
| 0.0069158 | 0.020576326 | 116987 | AGAP1 |
| 0.006909586 | 0.020690287 | 2890 | GRIA1 |
| 0.006901657 | 0.02083651 | 337967 | KRTAP6-2 |
| 0.006899728 | 0.02087222 | 146691 | TOM1L2 |
| 0.006896657 | 0.020929189 | 9817 | KEAP1 |
| 0.006848943 | 0.021831719 | 23001 | WDFY3 |
| 0.006844657 | 0.021914434 | 9851 | KIAA0753 |
| 0.006639659 | 0.026201967 | 162540 | AC217771.1 |
| 0.00663066 | 0.026405761 | 9580 | SOX13 |
| 0.006627159 | 0.026485391 | 5364 | PLXNB1 |
| 0.006582946 | 0.027509235 | 9699 | RIMS2 |
| 0.006480089 | 0.030023972 | 653505 | PPIAL4B |
| 0.006371519 | 0.032890305 | 100113407 | TMEM170B |
| 0.006364376 | 0.033086825 | 79635 | CCDC121 |
| 0.006306733 | 0.034709886 | 2932 | GSK3B |
| 0.006285805 | 0.035315752 | 3090 | HIC1 |
| 0.006283019 | 0.03539709 | 55696 | RBM22 |
| 0.006273591 | 0.03567351 | 441481 | GPX1P1 |
| 0.006232806 | 0.036890619 | 90864 | SPSB3 |
| 0.006224091 | 0.037155192 | 56478 | EIF4ENIF1 |
| 0.006209091 | 0.037614405 | 8687 | KRT38 |
| 0.006130092 | 0.040113363 | 6944 | VPS72 |
| 0.006117017 | 0.040555473 | 4124 | MAN2A1 |
| 0.006115449 | 0.040591687 | 55070 | DET1 |
| 0.006104663 | 0.040947132 | 253559 | CADM2 |
| 0.006072378 | 0.042026799 | 51669 | TMEM66 |
| 0.006036664 | 0.043249108 | 3899 | AFF3 |
| 0.005944379 | 0.046547428 | 57472 | CNOT6 |
| 0.005887094 | 0.048699453 | 83892 | KCTD10 |
| 0.005855666 | 0.049915191 | 5588 | PRKCQ |
| 0.00573731 | 0.054724213 | 29952 | DPP7 |
| 0.005713667 | 0.055729762 | 8468 | FKBP6 |
| 0.005678667 | 0.057246562 | 3678 | ITGA5 |
| 0.005652953 | 0.058382701 | 778 | CACNA1F |
| 0.005624168 | 0.059676688 | 30833 | NT5C |
| 0.005583239 | 0.061557408 | 6165 | RPL35A |
| 0.00554324 | 0.063442573 | 56647 | BCCIP |
| 0.005474241 | 0.06680657 | 51020 | HDDC2 |
| 0.005391812 | 0.071016379 | 6693 | SPN |
| 0.005363027 | 0.072536789 | 6228 | RPS23 |
| 0.005360242 | 0.072685353 | 84656 | AC020663.1 |
| 0.00531067 | 0.075370498 | 79987 | SVEP1 |
| 0.005233957 | 0.079685077 | 125144 | C17orf45 |
| 0.005224099 | 0.080253743 | 513 | ATP5D |
| 0.005088529 | 0.088414498 | 55801 | IL26 |
| 0.005084672 | 0.088656098 | 285231 | FBXW12 |
| 0.005027744 | 0.092284523 | 4919 | ROR1 |
| 0.004992887 | 0.094564445 | 389072 | PLEKHM3 |
| 0.004964102 | 0.096481122 | 56929 | FEM1C |
| 0.004949459 | 0.097467944 | 29941 | PKN3 |
| 0.004928316 | 0.098907009 | 3150 | HMGN1 |
| 0.004865531 | 0.103280686 | 122704 | MRPL52 |
| 0.00484346 | 0.104854241 | 27036 | SIGLEC7 |
| 0.00484346 | 0.104854241 | 55997 | CFC1 |
| 0.004820817 | 0.106488235 | 5224 | PGAM2 |
| 0.004794889 | 0.108384103 | 255189 | PLA2G4F |
| 0.004775246 | 0.109837994 | 83475 | DOHH |
| 0.004763104 | 0.110744461 | 401021 | LOC401021 |
| 0.004678818 | 0.117200293 | 55192 | DNAJC17 |
| 0.004675961 | 0.117424227 | 6658 | SOX3 |
| 0.004618676 | 0.121984839 | 85300 | ATCAY |
| 0.00452582 | 0.129670158 | 28981 | IFT81 |
| 0.004496677 | 0.132158101 | 9534 | ZNF254 |
| 0.004465106 | 0.134894952 | 5375 | PMP2 |

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|---|---|---|---|---|---|
| 0.036346141 | 0.600182772 | 0.767 | 1 | 23741 | EID1 |
| 0.036331888 | 0.600325108 | 0.759 | 1 | 10755 | GIPC1 |
| 0.036320228 | 0.60044235 | 0.777 | 1 | 55009 | C19orf24 |
| 0.036298197 | 0.600663662 | 0.762 | 1 | 116412 | ZNF837 |
| 0.036267098 | 0.60097599 | 0.777 | 1 | 10563 | CXCL13 |
| 0.036265805 | 0.600989223 | 0.742 | 1 | 9778 | KIAA0232 |
| 0.036248956 | 0.601158023 | 0.773 | 1 | 147645 | AC063977.1 |
| 0.036181577 | 0.601834536 | 0.775 | 1 | 56603 | CYP26B1 |
| 0.036166027 | 0.601991415 | 0.757 | 1 | 341346 | C12orf70 |
| 0.036120676 | 0.602446675 | 0.744 | 1 | 51747 | AC005921.3 |
| 0.036096055 | 0.60269475 | 0.762 | 1 | 5957 | RCVRN |
| 0.036084391 | 0.602812171 | 0.791 | 1 | 127623 | OR2B11 |
| 0.036074027 | 0.602916479 | 0.769 | 1 | 9681 | DEPDC5 |
| 0.035921123 | 0.604454041 | 0.753 | 1 | 9940 | DLEC1 |
| 0.035808392 | 0.605589688 | 0.779 | 1 | 9123 | SLC16A3 |
| 0.035791546 | 0.605759025 | 0.772 | 1 | 152816 | C4orf26 |
| 0.035751376 | 0.606163919 | 0.784 | 1 | 4054 | LTBP3 |
| 0.035742305 | 0.606255233 | 0.766 | 1 | 2980 | GUCA2A |
| 0.035708614 | 0.606595337 | 0.758 | 1 | 256130 | TMEM196 |
| 0.035671037 | 0.606974006 | 0.785 | 1 | 51635 | DHRS7 |
| 0.035654191 | 0.607143521 | 0.784 | 1 | 54929 | TMEM161A |
| 0.035638645 | 0.607300997 | 0.766 | 1 | 29991 | OBP2A |
| 0.035607543 | 0.607614934 | 0.737 | 1 | 3162 | HMOX1 |
| 0.03554146 | 0.608281434 | 0.776 | 1 | 8850 | KAT2B |
| 0.035483148 | 0.608870029 | 0.784 | 1 | 55003 | PAK1IP1 |
| 0.035483148 | 0.608870029 | 0.742 | 1 | 343990 | C2orf55 |
| 0.035455938 | 0.609144509 | 0.76 | 1 | 90293 | KLHL13 |
| 0.035446867 | 0.609237254 | 0.785 | 1 | 6653 | SORL1 |
| 0.035444275 | 0.609262586 | 0.778 | 1 | 160335 | TMTC2 |
| 0.035442978 | 0.609275818 | 0.78 | 1 | 64109 | CRLF2 |
| 0.035441682 | 0.60928905 | 0.754 | 1 | 56950 | SMYD2 |
| 0.035373006 | 0.609982848 | 0.765 | 1 | 83896 | KRTAP3-1 |
| 0.035142358 | 0.61231631 | 0.794 | 1 | 6431 | SFRS6 |
| 0.035090525 | 0.612841368 | 0.764 | 1 | 728833 | FAM72D |
| 0.035085343 | 0.612893343 | 0.766 | 1 | 23710 | GABARAPL1 |
| 0.035042584 | 0.613326907 | 0.791 | 1 | 92291 | CAPN13 |
| 0.034919482 | 0.614575028 | 0.778 | 1 | 89890 | KBTBD6 |
| 0.034880608 | 0.614969194 | 0.775 | 1 | 8343 | HIST1H2BF |
| 0.034837849 | 0.615402162 | 0.77 | 1 | 149041 | RC3H1 |
| 0.034713451 | 0.616665542 | 0.758 | 1 | 256051 | ZNF549 |
| 0.03468883 | 0.616914928 | 0.753 | 1 | 5394 | EXOSC10 |
| 0.034673285 | 0.617073536 | 0.781 | 1 | 246778 | IL27 |
| 0.034661621 | 0.617192268 | 0.802 | 1 | 23310 | NCAPD3 |
| 0.034635704 | 0.617455065 | 0.789 | 1 | 1485 | CTAG1B |
| 0.034608494 | 0.617731273 | 0.792 | 1 | 1609 | DGKQ |
| 0.034583874 | 0.61798209 | 0.757 | 1 | 7307 | U2AF1 |
| 0.034510016 | 0.618732393 | 0.749 | 1 | 10439 | OLFM1 |
| 0.034463365 | 0.61920774 | 0.775 | 1 | 84900 | RNFT2 |
| 0.034360997 | 0.620248735 | 0.788 | 1 | 2527 | FUT5 |
| 0.034297507 | 0.620895803 | 0.755 | 1 | 79823 | C2orf34 |
| 0.034281954 | 0.621054828 | 0.777 | 1 | 22838 | RNF44 |
| 0.034240492 | 0.621476293 | 0.778 | 1 | 8544 | PIR |
| 0.034231421 | 0.621568561 | 0.781 | 1 | 4695 | NDUFA2 |
| 0.034228828 | 0.621595383 | 0.778 | 1 | 642658 | SCXB |
| 0.034189954 | 0.621991456 | 0.77 | 1 | 5756 | TWF1 |
| 0.034187365 | 0.622018158 | 0.758 | 1 | 83959 | SLC4A11 |
| 0.034178291 | 0.622110486 | 0.791 | 1 | 341276 | OR10A2 |
| 0.034145899 | 0.622441113 | 0.808 | 1 | 338692 | ANKRD13D |
| 0.034139421 | 0.622506738 | 0.77 | 1 | 29881 | NPC1L1 |
| 0.03406556 | 0.623260677 | 0.782 | 1 | 2632 | GBE1 |
| 0.034048714 | 0.623432159 | 0.774 | 1 | 9887 | SMG7 |
| 0.034012429 | 0.623802006 | 0.771 | 1 | 89891 | WDR34 |
| 0.034003362 | 0.623895645 | 0.773 | 1 | 64693 | CTAGE1 |
| 0.033981334 | 0.62411958 | 0.783 | 1 | 9441 | MED26 |
| 0.033916544 | 0.624781728 | 0.773 | 1 | 8600 | TNFSF11 |
| 0.033908769 | 0.624860883 | 0.785 | 1 | 201501 | ZBTB7C |
| 0.033891924 | 0.625032544 | 0.793 | 1 | 255488 | RNF144B |
| 0.033880264 | 0.625151932 | 0.796 | 1 | 51562 | MBIP |
| 0.033794738 | 0.626026571 | 0.762 | 1 | 54504 | CPVL |
| 0.033789556 | 0.626078963 | 0.783 | 1 | 643668 | PSMC1P9 |
| 0.033744205 | 0.626543403 | 0.758 | 1 | 337979 | KRTAP22-1 |
| 0.03373643 | 0.626622617 | 0.773 | 1 | 57154 | SMURF1 |
| 0.033713106 | 0.626860321 | 0.763 | 1 | 57091 | CASS4 |
| 0.03355502 | 0.628479183 | 0.77 | 1 | 55629 | PNRC2 |
| 0.033553723 | 0.628491402 | 0.767 | 1 | 26059 | ERC2 |
| 0.033507075 | 0.628969967 | 0.795 | 1 | 26037 | SIPA1L1 |
| 0.033400822 | 0.630058289 | 0.791 | 1 | 114805 | GALNT13 |
| 0.03338268 | 0.630244017 | 0.772 | 1 | 114041 | C21orf88 |
| 0.033282906 | 0.63126719 | 0.783 | 1 | 122704 | MRPL52 |
| 0.033209044 | 0.632025599 | 0.778 | 1 | 8335 | HIST1H2AB |
| 0.033159804 | 0.632531047 | 0.789 | 1 | 57589 | KIAA1432 |
| 0.033152029 | 0.632610619 | 0.75 | 1 | 10379 | IRF9 |

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| 0.026608313 | 0.701227605 | 0.82 | 1 | 140775 | SMCR8 |
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| 0.026432086 | 0.703112304 | 0.829 | 1 | 219960 | OR10Q1 |
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| 0.02598504 | 0.707902193 | 0.847 | 1 | 3062 | HCRTR2 |
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| 0.025745319 | 0.710475564 | 0.843 | 1 | 346606 | MOGAT3 |
| 0.025693487 | 0.711032689 | 0.81 | 1 | 8078 | USP5 |
| 0.025666276 | 0.711324751 | 0.841 | 1 | 1747 | DLX3 |
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| -0.001904984 | 0.523569226 | 6583 | SLC22A4 |
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| -0.002616845 | 0.381569326 | 3489 | IGFBP6 |
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| -0.002769691 | 0.353725433 | 7083 | TK1 |
| -0.002773263 | 0.353105128 | 23172 | FAM175B |
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| -0.0034019 | 0.254672438 | 605 | BCL7A |
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| -0.003524757 | 0.237916529 | 182 | JAG1 |
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| -0.003709469 | 0.214214757 | 79849 | PDZD3 |
| -0.003769255 | 0.206920967 | 55759 | WDR12 |
| -0.003792469 | 0.204137966 | 221476 | PI16 |
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| 0.025585936 | 0.712188363 | 0.843 | 1 | 84955 | NUDCD1 |
| 0.025438217 | 0.713776827 | 0.858 | 1 | 7978 | MTERF |
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| 0.025411006 | 0.714069307 | 0.834 | 1 | 10127 | ZNF263 |
| 0.025408415 | 0.7140975 | 0.82 | 1 | 3586 | IL10 |
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| 0.025405824 | 0.714125693 | 0.838 | 1 | 4521 | NUDT1 |
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| 0.025348809 | 0.714738965 | 0.815 | 1 | 80267 | EDEM3 |
| 0.025347512 | 0.714753091 | 0.853 | 1 | 5718 | PSMD12 |
| 0.025300864 | 0.715254903 | 0.85 | 1 | 100144602 | RP11-807H7.1 |
| 0.025293089 | 0.715339601 | 0.816 | 1 | 56033 | BARX1 |
| 0.025246441 | 0.715841532 | 0.828 | 1 | 653073 | AC120045.5 |
| 0.025239963 | 0.715910852 | 0.848 | 1 | 51316 | PLAC8 |
| 0.025208862 | 0.716245949 | 0.824 | 1 | 1955 | MEGF9 |
| 0.025181651 | 0.716538787 | 0.873 | 1 | 729046 | LOC729046 |
| 0.025083173 | 0.71760118 | 0.859 | 1 | 23768 | FLRT2 |
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| 0.024899172 | 0.719584823 | 0.828 | 1 | 85285 | KRTAP4-1 |
| 0.024809763 | 0.720549643 | 0.835 | 1 | 388125 | FAM148B |
| 0.024781255 | 0.720857263 | 0.821 | 1 | 10628 | TXNIP |
| 0.024669817 | 0.722060859 | 0.845 | 1 | 51382 | ATP6V1D |
| 0.024654267 | 0.722228289 | 0.83 | 1 | 57616 | TSHZ3 |
| 0.024568746 | 0.723153114 | 0.838 | 1 | 7678 | ZNF124 |
| 0.024550606 | 0.723348975 | 0.841 | 1 | 144811 | C13orf31 |
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| 0.024443055 | 0.724511445 | 0.856 | 1 | 8808 | IL1RL2 |
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| 0.024361419 | 0.725394785 | 0.813 | 1 | 83861 | RSPH3 |
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| 0.023919558 | 0.730180979 | 0.852 | 1 | 728409 | C21orf54 |
| 0.023856062 | 0.730868757 | 0.837 | 1 | 7867 | MAPKAPK3 |
| 0.023852177 | 0.730911374 | 0.835 | 1 | 7681 | MKRN3 |
| 0.023848288 | 0.730952799 | 0.834 | 1 | 165829 | GPR156 |
| 0.023836628 | 0.731079459 | 0.846 | 1 | 6209 | RPS15P5 |
| 0.023804232 | 0.731431246 | 0.848 | 1 | 6787 | NEK4 |
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| 0.023679838 | 0.732781827 | 0.846 | 1 | 5108 | PCM1 |
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| 0.023471214 | 0.735047638 | 0.837 | 1 | 6917 | TCEA1P2 |
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| 0.023269072 | 0.737244427 | 0.83 | 1 | 50650 | ARHGEF3 |
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| -0.0069578 | 0.019820277 | 3965 | LGALS9 |
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| 0.022228556 | 0.748590946 | 0.859 | 1 | 23562 | CLDN14 |
| 0.022200048 | 0.74890244 | 0.84 | 1 | 1500 | CTNND1 |
| 0.022089906 | 0.750106812 | 0.869 | 1 | 51588 | PIAS4 |
| 0.022034187 | 0.750715852 | 0.865 | 1 | 122830 | NAA30 |
| 0.02202123 | 0.750858009 | 0.864 | 1 | 23095 | KIF1B |
| 0.021960329 | 0.751524568 | 0.848 | 1 | 81621 | KAZALD1 |
| 0.021918863 | 0.751978636 | 0.849 | 1 | 119369 | NUDT9P1 |
| 0.021854075 | 0.752687216 | 0.855 | 1 | 112939 | NACC1 |
| 0.021835933 | 0.75288564 | 0.86 | 1 | 1026 | CDKN1A |
| 0.021767255 | 0.753637671 | 0.858 | 1 | 960 | CD44 |
| 0.021698579 | 0.754391193 | 0.866 | 1 | 132720 | C4orf32 |
| 0.021675257 | 0.754645944 | 0.851 | 1 | 9037 | SEMA5A |
| 0.021659706 | 0.754817069 | 0.861 | 1 | 730098 | RP11-195F19.5 |
| 0.021569001 | 0.755811453 | 0.873 | 1 | 293 | SLC25A6 |
| 0.021554749 | 0.755966961 | 0.856 | 1 | 79053 | ALG8 |
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| -0.006355181 | 0.92700237 | 0.952 | 1 | 8073 | PTP4A2 |
| -0.006359069 | 0.926958621 | 0.956 | 1 | 9128 | PRPF4 |
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| -0.006891636 | 0.920859396 | 0.952 | 1 | 284312 | ZSCAN1 |
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| -0.007135245 | 0.918071985 | 0.949 | 1 | 55801 | IL26 |
| -0.007245386 | 0.916811645 | 0.956 | 1 | 257177 | C1orf192 |
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| -0.007476036 | 0.914172947 | 0.946 | 1 | 405753 | DUOXA2 |
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| -0.025894213 | 4.25697E-18 | 114049 | WBSCR22 |
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| -0.026644278 | 4.53898E-19 | 440356 | AC120114.2 |
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| -0.026784349 | 2.96763E-19 | 55848 | C9orf46 |
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| -0.026830349 | 2.57987E-19 | 4739 | NEDD9 |
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| -0.026919706 | 1.96414E-19 | 10718 | NRG3 |
| -0.026959633 | 1.73834E-19 | 9675 | KIAA0406 |
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| -0.027129989 | 1.03031E-19 | 6361 | CCL17 |
| -0.027142847 | 9.90299E-20 | 337976 | KRTAP20-2 |
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| -0.027243489 | 7.25841E-20 | 11141 | IL1RAPL1 |
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| -0.027379701 | 4.75833E-20 | 129530 | LYG1 |
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| -0.02744763 | 3.85177E-20 | 9420 | CYP7B1 |
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| -0.027531629 | 2.96379E-20 | 9603 | NFE2L3 |
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| -0.0276892 | 1.80898E-20 | 60496 | AASDHPPT |
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| -0.028237408 | 3.17764E-21 | 2703 | GJA8 |
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| -0.028760333 | 5.86259E-22 | 25875 | LETMD1 |
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| -0.009090585 | 0.895731568 | 0.933 | 1 | 54849 | DEF8 |
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| -0.009290136 | 0.893455982 | 0.945 | 1 | 5784 | PTPN14 |
| -0.009397686 | 0.892230153 | 0.927 | 1 | 79863 | RBFA |
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| -0.009576504 | 0.890192211 | 0.94 | 1 | 10188 | TNK2 |
| -0.009636111 | 0.889513075 | 0.94 | 1 | 4594 | MUT |
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| -0.009776056 | 0.887918711 | 0.937 | 1 | 400258 | C14orf180 |
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| -0.009941916 | 0.886030257 | 0.929 | 1 | 777 | CACNA1E |
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| -0.010042988 | 0.884879351 | 0.938 | 1 | 123346 | HIGD2B |
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| -0.010120735 | 0.883994639 | 0.918 | 1 | 1789 | DNMT3B |
| -0.010123326 | 0.883964777 | 0.929 | 1 | 26292 | MYCBP |
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| -0.010232172 | 0.882726133 | 0.945 | 1 | 2587 | GALR1 |
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| -0.01035268 | 0.881354809 | 0.937 | 1 | 1593 | CYP27A1 |
| -0.010382483 | 0.881015778 | 0.914 | 1 | 10157 | AASS |
| -0.010391554 | 0.880912662 | 0.934 | 1 | 29923 | C7orf68 |
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| -0.010510766 | 0.879556775 | 0.925 | 1 | 728255 | KRTAP1-4 |
| -0.010522429 | 0.879423916 | 0.922 | 1 | 8407 | TAGLN2 |
| -0.01054964 | 0.879114807 | 0.924 | 1 | 145270 | PRIMA1 |
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| -0.010675331 | 0.877684832 | 0.94 | 1 | 55118 | CRTAC1 |
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| -0.011137927 | 0.872429132 | 0.932 | 1 | 7572 | ZNF24 |
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| -0.029049687 | 2.27118E-22 | 10051 | SMC4 |
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| -0.029457541 | 5.87334E-23 | 4698 | NDUFA5 |
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| -0.018654779 | 0.787959576 | 0.89 | 1 | 1953 | MEGF6 |
| -0.018676808 | 0.787714899 | 0.873 | 1 | 79633 | FAT4 |
| -0.01869495 | 0.787513852 | 0.878 | 1 | 50618 | ITSN2 |
| -0.018702723 | 0.787427843 | 0.894 | 1 | 4217 | MAP3K5 |
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| -0.033552006 | 2.66829E-29 | 9150 | CTDP1 |
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| -0.033706434 | 1.48294E-29 | 7380 | UPK3A |
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| -0.034185145 | 2.36014E-30 | 90507 | SCRN2 |
| -0.034193147 | 2.28825E-30 | 79587 | CARS2 |
| -0.034203433 | 2.19903E-30 | 26778 | SNORA70 |
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| -0.035394423 | 2.02834E-32 | 644150 | WIPF3 |
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| -0.019547576 | 0.778068662 | 0.855 | 1 | 2729 | GCLC |
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| -0.020187693 | 0.771000504 | 0.857 | 1 | 3735 | KARS |
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| -0.021578072 | 0.755710781 | 0.841 | 1 | 55863 | TMEM126B |
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| -0.021638973 | 0.755044341 | 0.846 | 1 | 116115 | ZNF526 |
| -0.021659706 | 0.754817069 | 0.865 | 1 | 285180 | RUFY4 |
| -0.021765962 | 0.753652036 | 0.883 | 1 | 60496 | AASDHPPT |
| -0.02182427 | 0.753013551 | 0.868 | 1 | 83941 | TM2D1 |
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| -0.022209121 | 0.748803318 | 0.863 | 1 | 146177 | VWA3A |
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| -0.03719705 | 1.24722E-35 | 441728 | GOLGA6B |
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| -0.037572473 | 2.55448E-36 | 7109 | TRAPPC10 |
| -0.037617046 | 2.11391E-36 | 11145 | PLA2G16 |
| -0.037629258 | 2.00699E-36 | 84911 | ZNF382 |
| -0.037652973 | 1.81445E-36 | 55287 | TMEM40 |
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| -0.037705686 | 1.4498E-36 | 339479 | FAM5C |
| -0.037711687 | 1.4132E-36 | 90113 | VWA5B2 |
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| -0.023048788 | 0.739641964 | 0.848 | 1 | 9507 | ADAMTS4 |
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| -0.374352187 | < 0.001 | 59352 | LGR6 |
| -0.374502599 | < 0.001 | 339488 | TFAP2E |
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| -0.478723526 | < 0.001 | < 0.001 | < 0.001 | 8916 | HERC3 |
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| -0.608295619 | < 0.001 | < 0.001 | < 0.001 | 4314 | MMP3 |
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**Fearfull faces (Neurosynth) Subcortex**

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.716149693 | < 0.001 | 401472 | FLJ45248 |
| 0.70693379 | < 0.001 | 1950 | EGF |
| 0.706483089 | < 0.001 | 4062 | LY6H |
| 0.706332899 | < 0.001 | 40 | ACCN1 |
| 0.701909277 | < 0.001 | 4887 | NPY2R |
| 0.69941037 | < 0.001 | 170261 | ZCCHC12 |
| 0.696201933 | < 0.001 | 9823 | ARMCX2 |
| 0.692612348 | < 0.001 | 8900 | CCNA1 |
| 0.689662728 | < 0.001 | 4951 | OCM2 |
| 0.689658937 | < 0.001 | 92 | ACVR2A |
| 0.688618791 | < 0.001 | 5734 | PTGER4 |
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| 0.681674335 | < 0.001 | 7421 | VDR |
| 0.681320913 | < 0.001 | 83445 | GSG1 |
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| 0.666169067 | < 0.001 | 65059 | RAPH1 |
| 0.665347116 | < 0.001 | 9615 | GDA |
| 0.664875807 | < 0.001 | 6706 | SPRR2G |
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| 0.663433438 | < 0.001 | 116328 | C8orf34 |
| 0.662475892 | < 0.001 | 8395 | PIP5K1B |
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| 0.66164715 | < 0.001 | 9609 | RAB36 |
| 0.660675793 | < 0.001 | 389384 | C6orf222 |
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| 0.658765276 | < 0.001 | 51440 | HPCAL4 |
| 0.657350757 | < 0.001 | 57565 | KLHL14 |
| 0.657158714 | < 0.001 | 374 | AREG |
| 0.657073745 | < 0.001 | 5715 | PSMD9 |
| 0.65606128 | < 0.001 | 64283 | AC093283.3 |
| 0.65561075 | < 0.001 | 1577 | CYP3A5 |
| 0.653673063 | < 0.001 | 10947 | AP3M2 |
| 0.653311155 | < 0.001 | 283209 | PGM2L1 |
| 0.652321384 | < 0.001 | 9837 | GINS1 |
| 0.651382815 | < 0.001 | 114801 | TMEM200A |
| 0.650869293 | < 0.001 | 4133 | MAP2 |
| 0.649634119 | < 0.001 | 3082 | HGF |
| 0.649210099 | < 0.001 | 51538 | ZCCHC17 |
| 0.647420518 | < 0.001 | 885 | CCK |
| 0.646509721 | < 0.001 | 51760 | SYT17 |
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| 0.644918879 | < 0.001 | 29841 | GRHL1 |
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| 0.642345936 | < 0.001 | 91050 | CCDC149 |
| 0.642194724 | < 0.001 | 126567 | FAM148C |
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| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.901930502 | < 0.001 | < 0.001 | < 0.001 | 1950 | EGF |
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| 0.876190476 | < 0.001 | < 0.001 | < 0.001 | 5624 | PROC |
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| 0.863063063 | 5.18457E-09 | < 0.001 | < 0.001 | 11163 | NUDT4 |
| 0.858944659 | 1.33694E-08 | < 0.001 | < 0.001 | 100133211 | LOC100133211 |
| 0.857400257 | 1.66428E-08 | < 0.001 | < 0.001 | 4062 | LY6H |
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| 0.732046332 | 1.28846E-06 | < 0.001 | < 0.001 | 83592 | AKR1CL2 |
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| 0.421655645 | < 0.001 | 29985 | SLC39A3 |
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| 0.589446589 | 0.000205071 | 0.004 | 1 | 9168 | TMSB10 |
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| 0.584813385 | 0.000235367 | 0.003 | 1 | 51232 | CRIM1 |
| 0.584555985 | 0.000237162 | 0.003 | 1 | 133690 | CAPSL |
| 0.584555985 | 0.000237162 | 0.003 | 1 | 404636 | FAM45A |
| 0.584041184 | 0.00024079 | 0.006 | 1 | 3670 | ISL1 |
| 0.584041184 | 0.00024079 | 0.001 | 1 | 8927 | BSN |
| 0.584041184 | 0.00024079 | 0.002 | 1 | 283209 | PGM2L1 |
| 0.583783784 | 0.000242622 | 0.002 | 1 | 53917 | RAB24 |
| 0.583526384 | 0.000244466 | 0.007 | 1 | 646627 | LOC646627 |
| 0.583268983 | 0.000246324 | < 0.001 | < 0.001 | 401994 | OR14I1 |
| 0.583011583 | 0.000248193 | 0.003 | 1 | 374654 | KIF7 |
| 0.582754183 | 0.000250076 | 0.006 | 1 | 1871 | E2F3 |
| 0.582754183 | 0.000250076 | 0.007 | 1 | 10769 | PLK2 |
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| 0.582239382 | 0.00025388 | 0.003 | 1 | 2669 | GEM |
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| 0.396168423 | < 0.001 | 9168 | TMSB10 |
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| 0.395813769 | < 0.001 | 132112 | RTP1 |
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| 0.394347253 | < 0.001 | 6953 | TCP10 |
| 0.394289969 | < 0.001 | 255743 | NPNT |
| 0.394062973 | < 0.001 | 79980 | DSN1 |
| 0.393481423 | < 0.001 | 357 | SHROOM2 |
| 0.393477733 | < 0.001 | 84334 | APOPT1 |
| 0.393443008 | < 0.001 | 201475 | RAB12 |
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| 0.391599299 | 9.541E-307 | 162239 | ZFP1 |
| 0.391375964 | 2.2774E-306 | 81501 | TM7SF4 |
| 0.391025472 | 8.9085E-306 | 9373 | PLAA |
| 0.390775224 | 2.3567E-305 | 6855 | SYP |
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| 0.384341398 | 1.2863E-294 | 112611 | RWDD2A |
| 0.384285071 | 1.5933E-294 | 9478 | CABP1 |
| 0.384040662 | 4.0305E-294 | 11212 | PROSC |
| 0.383573602 | 2.3694E-293 | 140885 | SIRPA |
| 0.383295616 | 6.7907E-293 | 130026 | ICA1L |
| 0.383187503 | 1.0224E-292 | 1949 | EFNB3 |
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| 0.383177427 | 1.0622E-292 | 338699 | ANKRD42 |
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| 0.383059547 | 1.6591E-292 | 284352 | LRRC68 |
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| 0.382761607 | 5.1177E-292 | 114794 | LRRC62 |
| 0.382610094 | 9.0708E-292 | 79605 | PGBD5 |
| 0.382585632 | 9.9488E-292 | 79183 | TTPAL |
| 0.381894233 | 1.35E-290 | 57605 | PITPNM2 |
| 0.381854515 | 1.5678E-290 | 64061 | TSPYL2 |
| 0.381642173 | 3.4876E-290 | 782 | CACNB1 |
| 0.381600285 | 4.0831E-290 | 8541 | PPFIA3 |
| 0.381554852 | 4.8445E-290 | 10376 | TUBA1B |
| 0.381491809 | 6.1412E-290 | 64699 | TMPRSS3 |
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| 0.380945657 | 4.7828E-289 | 200523 | C2orf51 |
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| 0.380581351 | 1.8765E-288 | 144423 | GLT1D1 |
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| 0.379915701 | 2.2706E-287 | 55591 | VEZT |
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| 0.378749108 | 1.7688E-285 | 9033 | PKD2L1 |
| 0.378414732 | 6.1433E-285 | 64375 | IKZF4 |
| 0.378373725 | 7.156E-285 | 284573 | C1orf157 |
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| 0.378253705 | 1.1183E-284 | 5619 | PRM1 |
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| 0.378220057 | 1.2674E-284 | 9221 | NOLC1 |
| 0.378177335 | 1.4857E-284 | 5641 | LGMN |
| 0.378003555 | 2.8344E-284 | 245806 | VGLL2 |
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| 0.574002574 | 0.000322212 | 0.003 | 1 | 343990 | C2orf55 |
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| 0.573487773 | 0.000326983 | 0.003 | 1 | 9046 | DOK2 |
| 0.573487773 | 0.000326983 | 0.003 | 1 | 84902 | CCDC123 |
| 0.573230373 | 0.000329393 | 0.002 | 1 | 525 | ATP6V1B1 |
| 0.573230373 | 0.000329393 | 0.007 | 1 | 89932 | PAPLN |
| 0.572972973 | 0.000331818 | 0.001 | 1 | 5903 | RANBP2 |
| 0.572972973 | 0.000331818 | 0.004 | 1 | 91749 | KIAA1919 |
| 0.572715573 | 0.00033426 | 0.005 | 1 | 11346 | SYNPO |
| 0.572715573 | 0.00033426 | 0.004 | 1 | 167359 | AC114947.2 |
| 0.572458172 | 0.000336717 | 0.005 | 1 | 2558 | GABRA5 |
| 0.572458172 | 0.000336717 | 0.003 | 1 | 137868 | SGCZ |
| 0.572200772 | 0.000339191 | 0.001 | 1 | 403315 | FAM92A3 |
| 0.571943372 | 0.00034168 | 0.004 | 1 | 25924 | MYRIP |
| 0.571943372 | 0.00034168 | 0.003 | 1 | 81618 | ITM2C |
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| 0.570913771 | 0.000351804 | 0.003 | 1 | 79172 | CENPO |
| 0.570656371 | 0.000354376 | 0.001 | 1 | 92344 | GORAB |
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| 0.56988417 | 0.000362195 | 0.006 | 1 | 149986 | LSM14B |
| 0.56988417 | 0.000362195 | 0.008 | 1 | 100287482 | RP11-305M3.3 |
| 0.56962677 | 0.000364835 | 0.003 | 1 | 1400 | CRMP1 |
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| 0.56962677 | 0.000364835 | 0.005 | 1 | 285190 | RGPD4 |
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| 0.568854569 | 0.000372859 | 0.004 | 1 | 4852 | NPY |
| 0.568854569 | 0.000372859 | 0.003 | 1 | 22941 | SHANK2 |
| 0.568854569 | 0.000372859 | 0.002 | 1 | 342850 | ANKRD62 |
| 0.568597169 | 0.000375568 | 0.006 | 1 | 23057 | NMNAT2 |
| 0.568597169 | 0.000375568 | 0.003 | 1 | 151507 | MSL3P1 |
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| 0.567310167 | 0.000389382 | 0.004 | 1 | 128239 | IQGAP3 |
| 0.567310167 | 0.000389382 | 0.005 | 1 | 146713 | AC021534.2 |
| 0.567310167 | 0.000389382 | 0.002 | 1 | 348303 | AC011500.2 |
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| 0.566795367 | 0.000395033 | 0.003 | 1 | 5581 | PRKCE |
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| 0.566537967 | 0.000397886 | 0.007 | 1 | 221711 | SYCP2L |
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| 0.566023166 | 0.000403647 | 0.003 | 1 | 4905 | NSF |
| 0.566023166 | 0.000403647 | 0.004 | 1 | 9947 | MAGEC1 |
| 0.565765766 | 0.000406555 | 0.001 | 1 | 5567 | PRKACB |
| 0.565765766 | 0.000406555 | 0.002 | 1 | 5580 | PRKCD |
| 0.565508366 | 0.000409483 | 0.002 | 1 | 8706 | B3GALNT1 |
| 0.565508366 | 0.000409483 | 0.009 | 1 | 64848 | YTHDC2 |
| 0.565508366 | 0.000409483 | 0.001 | 1 | 91300 | C19orf22 |
| 0.565508366 | 0.000409483 | 0.008 | 1 | 387849 | REP15 |
| 0.565250965 | 0.000412429 | 0.004 | 1 | 10882 | AC015936.3 |
| 0.564993565 | 0.000415393 | 0.004 | 1 | 84125 | LRRIQ1 |
| 0.564993565 | 0.000415393 | 0.007 | 1 | 115399 | LRRC56 |
| 0.564993565 | 0.000415393 | 0.002 | 1 | 100192379 | AC079341.1 |
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| 0.564736165 | 0.000418377 | 0.004 | 1 | 7991 | TUSC3 |
| 0.564221364 | 0.000424403 | 0.007 | 1 | 3251 | HPRT1 |
| 0.564221364 | 0.000424403 | 0.002 | 1 | 10040 | TOM1L1 |
| 0.564221364 | 0.000424403 | 0.004 | 1 | 23177 | CEP68 |
| 0.564221364 | 0.000424403 | 0.004 | 1 | 440101 | RP11-834C11.3 |
| 0.563963964 | 0.000427444 | 0.003 | 1 | 3840 | KPNA4 |
| 0.563963964 | 0.000427444 | 0.002 | 1 | 6445 | SGCG |
| 0.563963964 | 0.000427444 | 0.008 | 1 | 124402 | FAM100A |
| 0.563449163 | 0.000433586 | 0.005 | 1 | 2175 | FANCA |
| 0.563449163 | 0.000433586 | 0.004 | 1 | 2203 | FBP1 |
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| 0.376927205 | 1.5354E-282 | 51605 | TRMT6 |
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| 0.376381001 | 1.1576E-281 | 56967 | C14orf132 |
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| 0.376262385 | 1.7941E-281 | 91584 | PLXNA4 |
| 0.376228709 | 2.0316E-281 | 2243 | FGA |
| 0.376218326 | 2.1111E-281 | 6721 | SREBF2 |
| 0.376034628 | 4.1592E-281 | 51299 | NRN1 |
| 0.375998296 | 4.7559E-281 | 9821 | RB1CC1 |
| 0.375936925 | 5.9644E-281 | 4943 | TBC1D25 |
| 0.37576746 | 1.1143E-280 | 10590 | SCGN |
| 0.375522635 | 2.7468E-280 | 64800 | EFCAB6 |
| 0.375497575 | 3.0124E-280 | 285659 | OR2V2 |
| 0.375477161 | 3.2476E-280 | 92344 | GORAB |
| 0.375414353 | 4.0928E-280 | 55284 | UBE2W |
| 0.375335921 | 5.463E-280 | 55226 | NAT10 |
| 0.375185612 | 9.4988E-280 | 159091 | FAM122C |
| 0.375136249 | 1.139E-279 | 92749 | C2orf39 |
| 0.375095948 | 1.321E-279 | 388387 | AC100793.3 |
| 0.375073589 | 1.4343E-279 | 56660 | KCNK12 |
| 0.37481771 | 3.6741E-279 | 4986 | OPRK1 |
| 0.374752757 | 4.6643E-279 | 204962 | SLC44A5 |
| 0.374716498 | 5.3289E-279 | 646174 | C16orf90 |
| 0.374715355 | 5.3513E-279 | 91442 | C19orf40 |
| 0.374507477 | 1.148E-278 | 5294 | PIK3CG |
| 0.374506399 | 1.1526E-278 | 205717 | KIAA2018 |
| 0.374087696 | 5.3531E-278 | 55295 | KLHL26 |
| 0.373936964 | 9.2996E-278 | 1861 | TOR1A |
| 0.373933404 | 9.4216E-278 | 988 | CDC5L |
| 0.373740701 | 1.908E-277 | 145957 | NRG4 |
| 0.373410351 | 6.3891E-277 | 2567 | GABRG3 |
| 0.373392984 | 6.8079E-277 | 9369 | NRXN3 |
| 0.373352501 | 7.8938E-277 | 79595 | SAP130 |
| 0.372896031 | 4.1819E-276 | 100192379 | AC079341.1 |
| 0.372847457 | 4.9929E-276 | 6476 | SI |
| 0.372666645 | 9.656E-276 | 57692 | MAGEE1 |
| 0.372589397 | 1.2797E-275 | 5604 | MAP2K1 |
| 0.372407 | 2.4878E-275 | 821 | CANX |
| 0.372375133 | 2.794E-275 | 7136 | TNNI2 |
| 0.372046958 | 9.2282E-275 | 11218 | DDX20 |
| 0.371811411 | 2.1736E-274 | 55840 | EAF2 |
| 0.371613665 | 4.4596E-274 | 134353 | LSM11 |
| 0.371595189 | 4.7692E-274 | 22885 | ABLIM3 |
| 0.371434049 | 8.5625E-274 | 317701 | VN1R2 |
| 0.371355709 | 1.1379E-273 | 4082 | MARCKS |
| 0.371174992 | 2.1923E-273 | 51260 | CXorf26 |
| 0.370981508 | 4.4217E-273 | 9914 | ATP2C2 |
| 0.370941186 | 5.1175E-273 | 1838 | DTNB |
| 0.370749168 | 1.0261E-272 | 8492 | PRSS12 |
| 0.370730763 | 1.0969E-272 | 80237 | ELL3 |
| 0.370702494 | 1.2151E-272 | 170302 | ARX |
| 0.37066658 | 1.3839E-272 | 60676 | PAPPA2 |
| 0.370224201 | 6.8578E-272 | 51003 | MED31 |
| 0.370054418 | 1.2667E-271 | 653499 | LGALS7B |
| 0.370020253 | 1.4331E-271 | 5447 | POR |
| 0.369929586 | 1.9884E-271 | 161931 | ADAD2 |
| 0.369424291 | 1.2311E-270 | 577 | BAI3 |
| 0.369369246 | 1.5012E-270 | 91574 | C12orf65 |
| 0.369341003 | 1.6621E-270 | 85313 | PPIL4 |
| 0.368989389 | 5.8969E-270 | 3760 | KCNJ3 |
| 0.368987193 | 5.9437E-270 | 55259 | CASC1 |
| 0.368881998 | 8.6788E-270 | 2029 | ENSA |
| 0.368704163 | 1.6453E-269 | 11196 | SEC23IP |
| 0.368399897 | 4.9104E-269 | 646517 | LOC646517 |
| 0.368292899 | 7.2109E-269 | 130497 | OSR1 |
| 0.368042561 | 1.7708E-268 | 65268 | WNK2 |
| 0.367937754 | 2.5788E-268 | 49855 | SCAPER |
| 0.367903639 | 2.9143E-268 | 140597 | TCEAL2 |
| 0.367899668 | 2.9561E-268 | 103910 | MYL12B |
| 0.367673978 | 6.6374E-268 | 401992 | OR2T2 |
| 0.367593726 | 8.8479E-268 | 7447 | VSNL1 |
| 0.367450771 | 1.4762E-267 | 4151 | MB |
| 0.367417084 | 1.6653E-267 | 93474 | ZNF670 |
| 0.36740903 | 1.714E-267 | 8848 | TSC22D1 |
| 0.367215986 | 3.4196E-267 | 728673 | LOC728673 |
| 0.367052806 | 6.1287E-267 | 26281 | FGF20 |
| 0.367019137 | 6.9125E-267 | 4681 | NBL1 |
| 0.366733992 | 1.9143E-266 | 8000 | PSCA |
| 0.366621048 | 2.8649E-266 | 100287114 | LINC00421 |
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| 0.562934363 | 0.000439806 | 0.005 | 1 | 643226 | GRXCR2 |
| 0.562934363 | 0.000439806 | 0.002 | 1 | 728613 | LOC728613 |
| 0.562676963 | 0.000442946 | 0.002 | 1 | 7342 | UBP1 |
| 0.562676963 | 0.000442946 | 0.011 | 1 | 8013 | NR4A3 |
| 0.562676963 | 0.000442946 | 0.004 | 1 | 10559 | SLC35A1 |
| 0.562676963 | 0.000442946 | 0.005 | 1 | 57146 | TMEM159 |
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| 0.562676963 | 0.000442946 | 0.005 | 1 | 84937 | ZNRF1 |
| 0.562676963 | 0.000442946 | 0.006 | 1 | 116986 | AGAP2 |
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| 0.562162162 | 0.000449286 | 0.004 | 1 | 9711 | KIAA0226 |
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| 0.561904762 | 0.000452486 | 0.003 | 1 | 8534 | CHST1 |
| 0.561904762 | 0.000452486 | 0.005 | 1 | 10038 | PARP2 |
| 0.561904762 | 0.000452486 | 0.005 | 1 | 166336 | PRICKLE2 |
| 0.561904762 | 0.000452486 | 0.003 | 1 | 100132147 | LOC100132147 |
| 0.561647362 | 0.000455707 | 0.006 | 1 | 1960 | EGR3 |
| 0.561647362 | 0.000455707 | 0.005 | 1 | 83643 | CCDC3 |
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| 0.561132561 | 0.000462209 | 0.008 | 1 | 54065 | C21orf51 |
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| 0.560875161 | 0.000465491 | 0.004 | 1 | 22808 | MRAS |
| 0.560617761 | 0.000468794 | 0.005 | 1 | 4016 | LOXL1 |
| 0.560617761 | 0.000468794 | 0.007 | 1 | 9100 | USP10 |
| 0.560617761 | 0.000468794 | 0.003 | 1 | 23031 | MAST3 |
| 0.560617761 | 0.000468794 | 0.001 | 1 | 55840 | EAF2 |
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| 0.56010296 | 0.000475463 | 0.004 | 1 | 8270 | LAGE3 |
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| 0.56010296 | 0.000475463 | 0.005 | 1 | 126969 | SLC44A3 |
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| 0.55958816 | 0.000482216 | 0.002 | 1 | 7837 | PXDN |
| 0.55958816 | 0.000482216 | 0.006 | 1 | 10898 | CPSF4 |
| 0.55958816 | 0.000482216 | 0.003 | 1 | 65244 | SPATS2 |
| 0.55958816 | 0.000482216 | 0.002 | 1 | 84251 | SGIP1 |
| 0.559330759 | 0.000485625 | 0.004 | 1 | 2354 | FOSB |
| 0.559330759 | 0.000485625 | 0.006 | 1 | 23109 | DDN |
| 0.559073359 | 0.000489055 | 0.004 | 1 | 6594 | SMARCA1 |
| 0.559073359 | 0.000489055 | 0.002 | 1 | 50861 | STMN3 |
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| 0.558815959 | 0.000492507 | 0.005 | 1 | 56271 | BEX4 |
| 0.558815959 | 0.000492507 | 0.003 | 1 | 64168 | NECAB1 |
| 0.558558559 | 0.00049598 | 0.01 | 1 | 374946 | C1orf187 |
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| 0.558301158 | 0.000499475 | 0.004 | 1 | 79925 | SPEF2 |
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| 0.556756757 | 0.000520911 | 0.003 | 1 | 10309 | CCNO |
| 0.556756757 | 0.000520911 | 0.003 | 1 | 166348 | KLHDC6 |
| 0.556499356 | 0.000524563 | 0.008 | 1 | 5087 | PBX1 |
| 0.556499356 | 0.000524563 | 0.002 | 1 | 79095 | C9orf16 |
| 0.556499356 | 0.000524563 | 0.002 | 1 | 222029 | DKFZp434L192 |
| 0.556241956 | 0.000528237 | 0.004 | 1 | 84197 | AC113191.1 |
| 0.556241956 | 0.000528237 | 0.007 | 1 | 131831 | C3orf44 |
| 0.555984556 | 0.000531934 | 0.002 | 1 | 114928 | GPRASP2 |
| 0.555984556 | 0.000531934 | 0.003 | 1 | 137682 | C8orf38 |
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| 0.554954955 | 0.000546954 | 0.006 | 1 | 9076 | CLDN1 |
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| 0.554954955 | 0.000546954 | 0.003 | 1 | 200734 | SPRED2 |
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| 0.365896198 | 3.7948E-265 | 51729 | WBP11 |
| 0.365844609 | 4.5597E-265 | 57586 | SYT13 |
| 0.365484057 | 1.6439E-264 | 2892 | GRIA3 |
| 0.364850006 | 1.5616E-263 | 389493 | RP4-725G10.1 |
| 0.364819784 | 1.7383E-263 | 114786 | XKR4 |
| 0.364702304 | 2.6364E-263 | 9858 | KIAA0649 |
| 0.364575928 | 4.1258E-263 | 26511 | CHIC2 |
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| 0.364301658 | 1.0898E-262 | 114821 | SCAND3 |
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| 0.364036679 | 2.7827E-262 | 55359 | STYK1 |
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| 0.363831847 | 5.7401E-262 | 219482 | OR5M3 |
| 0.363744449 | 7.8166E-262 | 29844 | TFPT |
| 0.363466527 | 2.0854E-261 | 166752 | FREM3 |
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| 0.363197443 | 5.3874E-261 | 202134 | FAM153B |
| 0.36313169 | 6.7928E-261 | 7306 | TYRP1 |
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| 0.362777958 | 2.3615E-260 | 158038 | LINGO2 |
| 0.362678759 | 3.3483E-260 | 80025 | PANK2 |
| 0.362616886 | 4.1627E-260 | 10900 | RUNDC3A |
| 0.362418119 | 8.3747E-260 | 10472 | ZNF238 |
| 0.36239173 | 9.1888E-260 | 64840 | PORCN |
| 0.362320801 | 1.1791E-259 | 2790 | GNG10 |
| 0.362186001 | 1.8934E-259 | 22924 | MAPRE3 |
| 0.362106338 | 2.5047E-259 | 51098 | IFT52 |
| 0.361865494 | 5.8333E-259 | 10056 | FARSB |
| 0.361808447 | 7.1259E-259 | 3326 | HSP90AB1 |
| 0.361782684 | 7.7998E-259 | 3574 | IL7 |
| 0.361748133 | 8.8048E-259 | 150 | ADRA2A |
| 0.361693484 | 1.0665E-258 | 10242 | KCNMB2 |
| 0.361557638 | 1.717E-258 | 114795 | TMEM132B |
| 0.361526403 | 1.9157E-258 | 84837 | RP11-431H16.2 |
| 0.361354081 | 3.5036E-258 | 2220 | FCN2 |
| 0.361283392 | 4.4876E-258 | 3964 | LGALS8 |
| 0.361164184 | 6.8117E-258 | 79849 | PDZD3 |
| 0.361027559 | 1.0987E-257 | 607 | BCL9 |
| 0.361014162 | 1.1514E-257 | 4288 | MKI67 |
| 0.361012499 | 1.1581E-257 | 23080 | AVL9 |
| 0.360962169 | 1.381E-257 | 9820 | CUL7 |
| 0.360934039 | 1.5238E-257 | 64792 | RABL5 |
| 0.360911362 | 1.6496E-257 | 139886 | SPIN4 |
| 0.360698136 | 3.4758E-257 | 84332 | DYDC2 |
| 0.360419738 | 9.1897E-257 | 144809 | C13orf30 |
| 0.360367228 | 1.1038E-256 | 124220 | ZG16B |
| 0.360359384 | 1.1344E-256 | 378925 | RNF148 |
| 0.360323338 | 1.2865E-256 | 4085 | MAD2L1 |
| 0.360101242 | 2.7915E-256 | 54700 | RRN3 |
| 0.360007578 | 3.8694E-256 | 256281 | NUDT14 |
| 0.359907929 | 5.4759E-256 | 79862 | ZNF669 |
| 0.359894086 | 5.7465E-256 | 7625 | ZNF74 |
| 0.359746053 | 9.6234E-256 | 55777 | MBD5 |
| 0.359734534 | 1.0017E-255 | 140883 | ZNF280B |
| 0.359646738 | 1.3599E-255 | 100131454 | AC087392.3 |
| 0.359590132 | 1.656E-255 | 5007 | OSBP |
| 0.359576252 | 1.7379E-255 | 51072 | MEMO1 |
| 0.359365571 | 3.6168E-255 | 401546 | C9orf152 |
| 0.359297176 | 4.5878E-255 | 146760 | RTN4RL1 |
| 0.358898422 | 1.8332E-254 | 3460 | IFNGR2 |
| 0.358891636 | 1.8769E-254 | 9071 | CLDN10 |
| 0.358891067 | 1.8806E-254 | 117157 | SH2D1B |
| 0.358701563 | 3.63E-254 | 51282 | SCAND1 |
| 0.358540974 | 6.3355E-254 | 170690 | ADAMTS16 |
| 0.358528519 | 6.6151E-254 | 2191 | FAP |
| 0.35830528 | 1.4339E-253 | 7325 | UBE2E2 |
| 0.358268362 | 1.6295E-253 | 221424 | C6orf154 |
| 0.35788901 | 6.0576E-253 | 59345 | GNB4 |
| 0.357733773 | 1.0362E-252 | 133690 | CAPSL |
| 0.357620497 | 1.5327E-252 | 886 | CCKAR |
| 0.35760688 | 1.6065E-252 | 3839 | KPNA3 |
| 0.357574125 | 1.799E-252 | 121665 | AC069234.1 |

| | | | | | |
|---|---|---|---|---|---|
| 0.553925354 | 0.000562351 | 0.008 | 1 | 440184 | LINC00238 |
| 0.553410553 | 0.000570193 | 0.005 | 1 | 2491 | CENPI |
| 0.553410553 | 0.000570193 | 0.006 | 1 | 55884 | WSB2 |
| 0.553153153 | 0.000574151 | 0.009 | 1 | 1128 | CHRM1 |
| 0.553153153 | 0.000574151 | 0.007 | 1 | 4515 | MTCP1 |
| 0.553153153 | 0.000574151 | 0.005 | 1 | 9334 | B4GALT5 |
| 0.553153153 | 0.000574151 | 0.004 | 1 | 23373 | CRTC1 |
| 0.552895753 | 0.000578132 | 0.004 | 1 | 81557 | MAGED4B |
| 0.552638353 | 0.000582139 | 0.01 | 1 | 26084 | RP11-23D24.1 |
| 0.552638353 | 0.000582139 | 0.005 | 1 | 81470 | OR2G2 |
| 0.552380952 | 0.00058617 | 0.005 | 1 | 808 | CALM3 |
| 0.551866152 | 0.000594307 | 0.002 | 1 | 119 | ADD2 |
| 0.551866152 | 0.000594307 | 0.006 | 1 | 3745 | KCNB1 |
| 0.551866152 | 0.000594307 | 0.006 | 1 | 8971 | H1FX |
| 0.551866152 | 0.000594307 | 0.008 | 1 | 11052 | CPSF6 |
| 0.551866152 | 0.000594307 | 0.006 | 1 | 23594 | ORC6L |
| 0.551608752 | 0.000598414 | 0.011 | 1 | 23096 | IQSEC2 |
| 0.551608752 | 0.000598414 | 0.003 | 1 | 51605 | TRMT6 |
| 0.551608752 | 0.000598414 | 0.005 | 1 | 54492 | NEURL1B |
| 0.551608752 | 0.000598414 | 0.004 | 1 | 55028 | C17orf80 |
| 0.551608752 | 0.000598414 | 0.005 | 1 | 168090 | C6orf118 |
| 0.551608752 | 0.000598414 | 0.006 | 1 | 729956 | AC135592.2 |
| 0.551351351 | 0.000602545 | 0.005 | 1 | 2675 | GFRA2 |
| 0.551351351 | 0.000602545 | 0.004 | 1 | 23015 | GOLGA8A |
| 0.551351351 | 0.000602545 | 0.002 | 1 | 152992 | C4orf23 |
| 0.551093951 | 0.000606702 | 0.006 | 1 | 374387 | AC044839.2 |
| 0.550579151 | 0.000615092 | 0.005 | 1 | 7066 | THPO |
| 0.550579151 | 0.000615092 | 0.005 | 1 | 9630 | GNA14 |
| 0.55032175 | 0.000619326 | 0.001 | 1 | 348825 | TPRXL |
| 0.55006435 | 0.000623586 | 0.004 | 1 | 2580 | GAK |
| 0.55006435 | 0.000623586 | 0.004 | 1 | 2863 | GPR39 |
| 0.54980695 | 0.000627871 | 0.008 | 1 | 5136 | PDE1A |
| 0.54980695 | 0.000627871 | 0.004 | 1 | 92255 | LMBRD2 |
| 0.549292149 | 0.000636521 | 0.006 | 1 | 10609 | AC130686.2 |
| 0.549292149 | 0.000636521 | 0.005 | 1 | 256281 | NUDT14 |
| 0.549292149 | 0.000636521 | 0.003 | 1 | 728586 | AC068658.1 |
| 0.549034749 | 0.000640886 | 0.006 | 1 | 8514 | KCNAB2 |
| 0.548777349 | 0.000645278 | 0.008 | 1 | 4915 | NTRK2 |
| 0.548777349 | 0.000645278 | 0.008 | 1 | 10439 | OLFM1 |
| 0.548519949 | 0.000649696 | 0.001 | 1 | 84067 | FAM160A2 |
| 0.548262548 | 0.000654141 | 0.005 | 1 | 22911 | WDR47 |
| 0.548262548 | 0.000654141 | 0.006 | 1 | 219482 | OR5M3 |
| 0.548005148 | 0.000658613 | 0.005 | 1 | 6853 | SYN1 |
| 0.548005148 | 0.000658613 | 0.009 | 1 | 58491 | ZNF71 |
| 0.547747748 | 0.000663112 | 0.015 | 1 | 1789 | DNMT3B |
| 0.547747748 | 0.000663112 | 0.008 | 1 | 10665 | C6orf10 |
| 0.547490347 | 0.000667638 | 0.013 | 1 | 1538 | CYLC1 |
| 0.547232947 | 0.000672192 | 0.005 | 1 | 284306 | ZNF547 |
| 0.546975547 | 0.000676774 | 0.009 | 1 | 381 | ARF5 |
| 0.546718147 | 0.000681384 | 0.004 | 1 | 65123 | INTS3 |
| 0.546460746 | 0.000686021 | 0.004 | 1 | 5582 | PRKCG |
| 0.546460746 | 0.000686021 | 0.004 | 1 | 11214 | AKAP13 |
| 0.546460746 | 0.000686021 | 0.011 | 1 | 23229 | ARHGEF9 |
| 0.546203346 | 0.000690686 | 0.009 | 1 | 283638 | KIAA0284 |
| 0.545688546 | 0.000700102 | < 0.001 | < 0.001 | 8556 | CDC14A |
| 0.545688546 | 0.000700102 | 0.001 | 1 | 10740 | RFPL1-AS1 |
| 0.545688546 | 0.000700102 | 0.008 | 1 | 25907 | TMEM158 |
| 0.545431145 | 0.000704852 | 0.006 | 1 | 56001 | NXF2 |
| 0.545431145 | 0.000704852 | 0.004 | 1 | 57621 | ZBTB2 |
| 0.545431145 | 0.000704852 | 0.01 | 1 | 345895 | RSHL1 |
| 0.545173745 | 0.000709631 | 0.005 | 1 | 5917 | RARS |
| 0.545173745 | 0.000709631 | 0.007 | 1 | 6580 | SLC22A1 |
| 0.545173745 | 0.000709631 | 0.008 | 1 | 54456 | MOV10L1 |
| 0.545173745 | 0.000709631 | 0.007 | 1 | 90488 | C12orf23 |
| 0.544916345 | 0.000714439 | 0.007 | 1 | 1994 | ELAVL1 |
| 0.544916345 | 0.000714439 | 0.005 | 1 | 3595 | IL12RB2 |
| 0.544916345 | 0.000714439 | 0.005 | 1 | 6925 | TCF4 |
| 0.544916345 | 0.000714439 | 0.01 | 1 | 388394 | RPRML |
| 0.544658945 | 0.000719276 | 0.006 | 1 | 9620 | CELSR1 |
| 0.544401544 | 0.000724141 | 0.009 | 1 | 887 | CCKBR |
| 0.544144144 | 0.000729037 | 0.006 | 1 | 5529 | PPP2R5E |
| 0.544144144 | 0.000729037 | 0.007 | 1 | 6092 | ROBO2 |
| 0.544144144 | 0.000729037 | 0.007 | 1 | 55584 | CHRNA9 |
| 0.544144144 | 0.000729037 | 0.005 | 1 | 79986 | ZNF702P |
| 0.543886744 | 0.000733961 | 0.011 | 1 | 121268 | RHEBL1 |
| 0.543629344 | 0.000738915 | 0.002 | 1 | 7168 | TPM1 |
| 0.543629344 | 0.000738915 | 0.007 | 1 | 90135 | BTBD6 |
| 0.543114543 | 0.000748912 | 0.004 | 1 | 6607 | SMN2 |
| 0.543114543 | 0.000748912 | 0.004 | 1 | 23637 | RABGAP1 |
| 0.543114543 | 0.000748912 | 0.008 | 1 | 51586 | MED15 |
| 0.542857143 | 0.000753956 | 0.01 | 1 | 64860 | ARMCX5 |
| 0.542857143 | 0.000753956 | 0.007 | 1 | 391191 | OR2AK2 |

| | | | |
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| 0.357480915 | 2.4824E-252 | 2786 | GNG4 |
| 0.357465828 | 2.6152E-252 | 23418 | CRB1 |
| 0.357208629 | 6.3547E-252 | 389874 | ZCCHC13 |
| 0.35716241 | 7.4533E-252 | 55283 | MCOLN3 |
| 0.35706127 | 1.0565E-251 | 146779 | AC008026.2 |
| 0.35699153 | 1.3437E-251 | 2743 | GLRB |
| 0.356973466 | 1.43E-251 | 3927 | LASP1 |
| 0.35694349 | 1.5857E-251 | 8997 | KALRN |
| 0.356800265 | 2.5976E-251 | 84911 | ZNF382 |
| 0.356705009 | 3.6064E-251 | 3797 | KIF3C |
| 0.356541652 | 6.3292E-251 | 5802 | PTPRS |
| 0.356463138 | 8.2928E-251 | 10204 | NUTF2 |
| 0.356395814 | 1.0454E-250 | 4355 | MPP2 |
| 0.356322211 | 1.3467E-250 | 6532 | SLC6A4 |
| 0.356285938 | 1.5256E-250 | 81577 | GFOD2 |
| 0.356222934 | 1.8946E-250 | 84280 | BTBD10 |
| 0.35613821 | 2.5352E-250 | 51177 | PLEKHO1 |
| 0.356110846 | 2.7852E-250 | 89837 | FAM7A3 |
| 0.356065931 | 3.25E-250 | 9203 | ZMYM3 |
| 0.355892246 | 5.9019E-250 | 1444 | CSHL1 |
| 0.355834955 | 7.185E-250 | 3843 | IPO5 |
| 0.355820333 | 7.5549E-250 | 2182 | ACSL4 |
| 0.355782122 | 8.6138E-250 | 55135 | WRAP53 |
| 0.35548414 | 2.3943E-249 | 10044 | SH2D3C |
| 0.35546041 | 2.5973E-249 | 55117 | SLC6A15 |
| 0.355315782 | 4.264E-249 | 2002 | ELK1 |
| 0.355308403 | 4.3732E-249 | 55681 | SCYL2 |
| 0.355038975 | 1.1005E-248 | 27289 | RND1 |
| 0.354966598 | 1.4098E-248 | 401913 | LOC401913 |
| 0.354914416 | 1.6855E-248 | 140612 | ZFP28 |
| 0.354586019 | 5.1816E-248 | 80097 | FAM128B |
| 0.354565788 | 5.5525E-248 | 8776 | MTMR1 |
| 0.354559435 | 5.6744E-248 | 9620 | CELSR1 |
| 0.354550323 | 5.8539E-248 | 10965 | ACOT2 |
| 0.354482841 | 7.372E-248 | 133015 | PACRGL |
| 0.35421968 | 1.8108E-247 | 1816 | DRD5 |
| 0.354210938 | 1.8657E-247 | 8976 | WASL |
| 0.354151245 | 2.2872E-247 | 9530 | BAG4 |
| 0.35411095 | 2.6243E-247 | 285051 | C2orf61 |
| 0.35392717 | 4.9119E-247 | 317772 | HIST2H2AB |
| 0.353878877 | 5.791E-247 | 79148 | MMP28 |
| 0.353688083 | 1.1095E-246 | 21 | ABCA3 |
| 0.353677768 | 1.1492E-246 | 10523 | CHERP |
| 0.353552034 | 1.7635E-246 | 127254 | C1orf173 |
| 0.353451904 | 2.4798E-246 | 220832 | FABP5P3 |
| 0.353353693 | 3.4639E-246 | 2596 | GAP43 |
| 0.35332419 | 3.8296E-246 | 79674 | VEPH1 |
| 0.353143281 | 7.0855E-246 | 90417 | C15orf23 |
| 0.35312889 | 7.4408E-246 | 84301 | DDI2 |
| 0.352709861 | 3.0892E-245 | 79762 | C1orf115 |
| 0.352690568 | 3.2983E-245 | 6456 | SH3GL2 |
| 0.352462257 | 7.1567E-245 | 79363 | C1orf89 |
| 0.352432824 | 7.9079E-245 | 442213 | C6orf138 |
| 0.352376544 | 9.5706E-245 | 1951 | CELSR3 |
| 0.35231322 | 1.1862E-244 | 29767 | TMOD2 |
| 0.351730079 | 8.5452E-244 | 8013 | NR4A3 |
| 0.351692774 | 9.6944E-244 | 10141 | C4orf6 |
| 0.351686062 | 9.9169E-244 | 330 | BIRC3 |
| 0.351530209 | 1.6797E-243 | 389383 | C6orf126 |
| 0.351249994 | 4.3287E-243 | 51393 | TRPV2 |
| 0.351234957 | 4.5541E-243 | 10178 | ODZ1 |
| 0.351041514 | 8.7491E-243 | 84456 | L3MBTL3 |
| 0.350973222 | 1.1016E-242 | 126353 | C19orf21 |
| 0.350759017 | 2.2683E-242 | 4150 | MAZ |
| 0.35075741 | 2.2806E-242 | 146909 | KIF18B |
| 0.350607299 | 3.7821E-242 | 126792 | B3GALT6 |
| 0.350541072 | 4.7272E-242 | 10788 | IQGAP2 |
| 0.35046493 | 6.1089E-242 | 154288 | C6orf221 |
| 0.350371112 | 8.3777E-242 | 64921 | CASD1 |
| 0.349660337 | 9.136E-241 | 23426 | GRIP1 |
| 0.349650992 | 9.4272E-241 | 4145 | MATK |
| 0.349572849 | 1.2254E-240 | 116150 | NUS1 |
| 0.349511343 | 1.5063E-240 | 387522 | TMEM189-UBE2V1 |
| 0.349479122 | 1.6783E-240 | 64405 | CDH22 |
| 0.349316803 | 2.8927E-240 | 8511 | MMP23A |
| 0.349298866 | 3.072E-240 | 4698 | NDUFA5 |
| 0.349200009 | 4.2789E-240 | 219738 | C10orf35 |
| 0.349195457 | 4.3447E-240 | 1538 | CYLC1 |
| 0.349045779 | 7.1739E-240 | 8514 | KCNAB2 |
| 0.348992202 | 8.5839E-240 | 6595 | SMARCA2 |
| 0.348859769 | 1.3374E-239 | 8536 | CAMK1 |
| 0.348824745 | 1.5037E-239 | 286207 | C9orf117 |

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| 0.542599743 | 0.00075903 | 0.007 | 1 | 3064 | HTT |
| 0.542342342 | 0.000764134 | 0.006 | 1 | 7067 | THRA |
| 0.542342342 | 0.000764134 | 0.002 | 1 | 22999 | RIMS1 |
| 0.542342342 | 0.000764134 | 0.007 | 1 | 55897 | MESP1 |
| 0.542342342 | 0.000764134 | 0.008 | 1 | 80218 | NAA50 |
| 0.542342342 | 0.000764134 | 0.012 | 1 | 91683 | SYT12 |
| 0.542342342 | 0.000764134 | 0.006 | 1 | 116988 | AGAP3 |
| 0.542342342 | 0.000764134 | 0.005 | 1 | 151056 | PLB1 |
| 0.542084942 | 0.000769268 | 0.01 | 1 | 4121 | MAN1A1 |
| 0.542084942 | 0.000769268 | 0.009 | 1 | 6604 | SMARCD3 |
| 0.541827542 | 0.000774434 | 0.006 | 1 | 3785 | KCNQ2 |
| 0.541827542 | 0.000774434 | 0.002 | 1 | 203447 | NRK |
| 0.541827542 | 0.000774434 | 0.005 | 1 | 387357 | THEMIS |
| 0.541570142 | 0.00077963 | 0.004 | 1 | 26575 | RSG17 |
| 0.541570142 | 0.00077963 | 0.005 | 1 | 51592 | TRIM33 |
| 0.541570142 | 0.00077963 | 0.005 | 1 | 57630 | SH3RF1 |
| 0.541312741 | 0.000784857 | 0.005 | 1 | 2247 | FGF2 |
| 0.541312741 | 0.000784857 | 0.004 | 1 | 10643 | IGF2BP3 |
| 0.541055341 | 0.000790115 | 0.006 | 1 | 439915 | KRTAP5-5 |
| 0.540797941 | 0.000795404 | 0.007 | 1 | 1961 | EGR4 |
| 0.540797941 | 0.000795404 | 0.007 | 1 | 5924 | RASGRF2 |
| 0.540797941 | 0.000795404 | 0.013 | 1 | 246213 | SLC17A8 |
| 0.540797941 | 0.000795404 | 0.007 | 1 | 440956 | IQCF6 |
| 0.540540541 | 0.000800725 | 0.005 | 1 | 3781 | KCNN2 |
| 0.540540541 | 0.000800725 | 0.007 | 1 | 10613 | ERLIN1 |
| 0.540540541 | 0.000800725 | 0.006 | 1 | 253143 | C22orf30 |
| 0.540540541 | 0.000800725 | 0.004 | 1 | 283316 | CD163L1 |
| 0.54028314 | 0.000806077 | 0.007 | 1 | 114781 | BTBD9 |
| 0.54002574 | 0.000811461 | 0.002 | 1 | 24145 | PANX1 |
| 0.54002574 | 0.000811461 | 0.003 | 1 | 51361 | HOOK1 |
| 0.54002574 | 0.000811461 | 0.008 | 1 | 203102 | ADAM32 |
| 0.54002574 | 0.000811461 | 0.01 | 1 | 255022 | CALHM1 |
| 0.53976834 | 0.000816877 | 0.007 | 1 | 79931 | TNIP3 |
| 0.539253539 | 0.000827806 | 0.006 | 1 | 58189 | WFDC1 |
| 0.538996139 | 0.000833318 | 0.005 | 1 | 1543 | CYP1A1 |
| 0.538996139 | 0.000833318 | 0.01 | 1 | 119774 | OR52K2 |
| 0.538738739 | 0.000838864 | 0.005 | 1 | 1063 | CENPF |
| 0.538738739 | 0.000838864 | 0.005 | 1 | 8799 | PEX11B |
| 0.538738739 | 0.000838864 | 0.004 | 1 | 79143 | LENG4 |
| 0.538738739 | 0.000838864 | 0.01 | 1 | 374462 | PTPRQ |
| 0.538481338 | 0.000844442 | 0.003 | 1 | 23784 | POTEH |
| 0.538223938 | 0.000850053 | 0.006 | 1 | 64743 | WDR13 |
| 0.537966538 | 0.000855697 | 0.004 | 1 | 2901 | GRIK5 |
| 0.537966538 | 0.000855697 | 0.007 | 1 | 5342 | PLGLB2 |
| 0.537966538 | 0.000855697 | 0.005 | 1 | 23284 | LPHN3 |
| 0.537966538 | 0.000855697 | 0.006 | 1 | 440917 | LOC440917 |
| 0.537966538 | 0.000855697 | 0.004 | 1 | 729683 | LOC729683 |
| 0.537709138 | 0.000861374 | 0.006 | 1 | 6017 | RLBP1 |
| 0.537709138 | 0.000861374 | 0.006 | 1 | 120400 | FAM55A |
| 0.537451737 | 0.000867085 | 0.01 | 1 | 1952 | CELSR2 |
| 0.537451737 | 0.000867085 | 0.006 | 1 | 64131 | XYLT1 |
| 0.537451737 | 0.000867085 | 0.009 | 1 | 374470 | C12orf42 |
| 0.536936937 | 0.000878607 | 0.009 | 1 | 2355 | FOSL2 |
| 0.536936937 | 0.000878607 | 0.012 | 1 | 6506 | SLC1A2 |
| 0.536936937 | 0.000878607 | 0.006 | 1 | 7088 | TLE1 |
| 0.536679537 | 0.000884419 | 0.006 | 1 | 29087 | THYN1 |
| 0.536679537 | 0.000884419 | 0.008 | 1 | 57037 | ANKMY2 |
| 0.536422136 | 0.000890266 | 0.007 | 1 | 27300 | ZNF544 |
| 0.536422136 | 0.000890266 | 0.003 | 1 | 151651 | EFHB |
| 0.536164736 | 0.000896146 | 0.008 | 1 | 29888 | STRN4 |
| 0.535907336 | 0.000902061 | 0.005 | 1 | 64755 | C16orf58 |
| 0.535649936 | 0.00090801 | 0.002 | 1 | 56479 | KCNQ5 |
| 0.535649936 | 0.00090801 | 0.012 | 1 | 100170841 | C17orf96 |
| 0.535392535 | 0.000913994 | 0.011 | 1 | 6482 | ST3GAL1 |
| 0.535135135 | 0.000920014 | 0.014 | 1 | 11311 | VPS45 |
| 0.534877735 | 0.000926068 | 0.005 | 1 | 57156 | TMEM63C |
| 0.534877735 | 0.000926068 | 0.005 | 1 | 80223 | RAB11FIP1 |
| 0.534877735 | 0.000926068 | 0.005 | 1 | 80700 | UBXN6 |
| 0.534877735 | 0.000926068 | 0.008 | 1 | 284307 | ZIK1 |
| 0.534620335 | 0.000932158 | 0.01 | 1 | 153642 | ARSK |
| 0.534362934 | 0.000938283 | 0.008 | 1 | 66005 | CHID1 |
| 0.534105534 | 0.000944444 | 0.005 | 1 | 5330 | PLCB2 |
| 0.534105534 | 0.000944444 | 0.009 | 1 | 10055 | SAE1 |
| 0.533848134 | 0.00095064 | 0.013 | 1 | 5173 | PDYN |
| 0.533848134 | 0.00095064 | 0.008 | 1 | 5217 | PFN2 |
| 0.533848134 | 0.00095064 | 0.005 | 1 | 80328 | ULBP2 |
| 0.533590734 | 0.000956873 | 0.008 | 1 | 8471 | IRS4 |
| 0.533590734 | 0.000956873 | 0.004 | 1 | 390199 | OR4D9 |
| 0.533333333 | 0.000963142 | 0.003 | 1 | 5067 | CNTN3 |
| 0.533333333 | 0.000963142 | 0.007 | 1 | 149934 | NCOR1P1 |
| 0.533075933 | 0.000969447 | 0.006 | 1 | 79000 | C1orf135 |
| 0.533075933 | 0.000969447 | 0.009 | 1 | 128414 | NKAIN4 |

| | | | |
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| 0.348737772 | 2.0117E-239 | 57628 | DPP10 |
| 0.348661467 | 2.5967E-239 | 57596 | BEGAIN |
| 0.348560352 | 3.6415E-239 | 23204 | ARL6IP1 |
| 0.348392117 | 6.39E-239 | 55030 | FBXO34 |
| 0.348069537 | 1.8765E-238 | 387597 | ILDR2 |
| 0.348014292 | 2.2565E-238 | 4897 | NRCAM |
| 0.34797905 | 2.5381E-238 | 80331 | DNAJC5 |
| 0.347932208 | 2.9674E-238 | 8600 | TNFSF11 |
| 0.347885841 | 3.4637E-238 | 57521 | RPTOR |
| 0.347668365 | 7.1522E-238 | 113691 | AC002472.8 |
| 0.347569215 | 9.9522E-238 | 79697 | C14orf169 |
| 0.347539679 | 1.0981E-237 | 390637 | C15orf58 |
| 0.347516124 | 1.1878E-237 | 64579 | NDST4 |
| 0.347231885 | 3.0598E-237 | 83931 | STK40 |
| 0.347104162 | 4.6797E-237 | 149175 | MANEAL |
| 0.346983448 | 6.9909E-237 | 8828 | NRP2 |
| 0.346981313 | 7.0407E-237 | 56673 | C11orf16 |
| 0.346943519 | 7.9832E-237 | 55545 | MSX2P1 |
| 0.346910174 | 8.9189E-237 | 254778 | C8orf46 |
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| 0.346572217 | 2.7403E-236 | 1948 | EFNB2 |
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| 0.344232739 | 6.2505E-233 | 4647 | MYO7A |
| 0.344192689 | 7.131E-233 | 127262 | TPRG1L |
| 0.344145884 | 8.3183E-233 | 54627 | KIAA1383 |
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| 0.343859695 | 2.1317E-232 | 11017 | SNRNP27 |
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| 0.342480608 | 1.9592E-230 | 152926 | PPM1K |
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| 0.340872996 | 3.7E-228 | 8445 | DYRK2 |
| 0.340613973 | 8.5837E-228 | 113730 | KLHDC7B |
| 0.340607663 | 8.7614E-228 | 3109 | HLA-DMB |
| 0.340356465 | 1.98E-227 | 5995 | RGR |
| 0.340261754 | 2.692E-227 | 11329 | STK38 |
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| 0.523809524 | 0.001222273 | 0.01 | 1 | 57718 | PPP4R4 |
| 0.523809524 | 0.001222273 | 0.009 | 1 | 137886 | UBXN2B |
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| 0.523552124 | 0.001230059 | 0.014 | 1 | 129025 | ZNF280A |
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| 0.339155633 | 9.6562E-226 | 56097 | PCDHGC5 |
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| 0.33913866 | 1.02E-225 | 63827 | BCAN |
| 0.339016142 | 1.515E-225 | 146439 | CCDC64B |
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| 0.338765075 | 3.406E-225 | 1310 | COL19A1 |
| 0.338688168 | 4.3646E-225 | 23362 | PSD3 |
| 0.338615876 | 5.5101E-225 | 516 | ATP5G1 |
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| 0.338440487 | 9.6963E-225 | 554226 | NCRNA00164 |
| 0.338241885 | 1.838E-224 | 9500 | MAGED1 |
| 0.338212446 | 2.0207E-224 | 606551 | UBE2MP1 |
| 0.338139682 | 2.5538E-224 | 1154 | CISH |
| 0.338116069 | 2.7554E-224 | 53942 | CNTN5 |
| 0.338103314 | 2.8708E-224 | 5880 | RAC2 |
| 0.338092695 | 2.9706E-224 | 200845 | KCTD6 |
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| 0.337857588 | 6.3268E-224 | 84870 | RSPO3 |
| 0.337741102 | 9.1993E-224 | 9479 | MAPK8IP1 |
| 0.3377267 | 9.6349E-224 | 9334 | B4GALT5 |
| 0.337681149 | 1.1153E-223 | 8767 | RIPK2 |
| 0.33767951 | 1.1212E-223 | 10650 | SLMO1 |
| 0.337483159 | 2.1062E-223 | 222029 | DKFZp434L192 |
| 0.33746834 | 2.2088E-223 | 55320 | C14orf106 |
| 0.337047275 | 8.5237E-223 | 11052 | CPSF6 |
| 0.336887831 | 1.4206E-222 | 55733 | HHAT |
| 0.336863751 | 1.5345E-222 | 643226 | GRXCR2 |
| 0.336722937 | 2.4085E-222 | 112858 | TP53RK |
| 0.336411257 | 6.5277E-222 | 56950 | SMYD2 |
| 0.336177234 | 1.3789E-221 | 6894 | TARBP1 |
| 0.336123125 | 1.6391E-221 | 89890 | KBTBD6 |
| 0.336083449 | 1.8605E-221 | 91010 | FMNL3 |
| 0.33602303 | 2.2563E-221 | 375686 | SPATC1 |
| 0.335995624 | 2.4626E-221 | 100132304 | RP1-172N19.1 |
| 0.335846078 | 3.9688E-221 | 492303 | GEMIN8P4 |
| 0.335823934 | 4.2593E-221 | 51451 | LCMT1 |
| 0.33582206 | 4.2848E-221 | 131540 | ZDHHC19 |
| 0.335817957 | 4.3413E-221 | 5568 | PRKACG |
| 0.335777449 | 4.9401E-221 | 526 | ATP6V1B2 |
| 0.335661979 | 7.1391E-221 | 54932 | EXD3 |
| 0.335496566 | 1.2095E-220 | 64895 | PAPOLG |
| 0.335495854 | 1.2122E-220 | 1952 | CELSR2 |
| 0.335487477 | 1.245E-220 | 7010 | TEK |
| 0.335205619 | 3.0547E-220 | 80000 | KIAA1772 |
| 0.335173915 | 3.379E-220 | 65217 | PCDH15 |
| 0.335067775 | 4.7365E-220 | 2762 | GMDS |
| 0.335034496 | 5.2654E-220 | 5441 | POLR2L |
| 0.334935065 | 7.2235E-220 | 5176 | SERPINF1 |
| 0.334841016 | 9.7408E-220 | 339965 | CCDC158 |
| 0.334837172 | 9.8605E-220 | 9079 | LDB2 |
| 0.334616747 | 1.9862E-219 | 29070 | CCDC113 |
| 0.334610574 | 2.0256E-219 | 26262 | TSPAN17 |
| 0.334524579 | 2.6615E-219 | 374786 | EFCAB5 |
| 0.334471105 | 3.1539E-219 | 389812 | LCN15 |
| 0.334383003 | 4.1713E-219 | 3359 | HTR3A |
| 0.334057511 | 1.1709E-218 | 923 | CD6 |
| 0.333976851 | 1.5119E-218 | 5532 | PPP3CB |
| 0.333809907 | 2.5653E-218 | 634 | CEACAM1 |
| 0.333795264 | 2.687E-218 | 84966 | IGSF21 |
| 0.333618182 | 4.7062E-218 | 150962 | PUS10 |
| 0.333590318 | 5.1399E-218 | 3680 | ITGA9 |
| 0.333561608 | 5.6286E-218 | 10535 | RNASEH2A |
| 0.333494308 | 6.9637E-218 | 54777 | C10orf92 |
| 0.333126355 | 2.2276E-217 | 2731 | GLDC |
| 0.33309032 | 2.4961E-217 | 200424 | TET3 |
| 0.333033213 | 2.9893E-217 | 389119 | C3orf54 |
| 0.333004706 | 3.2708E-217 | 23248 | RPRD2 |
| 0.332844252 | 5.4269E-217 | 1175 | AP2S1 |
| 0.332816693 | 5.9198E-217 | 390113 | OR4X1 |
| 0.332710219 | 8.2821E-217 | 22883 | CLSTN1 |
| 0.332592741 | 1.1994E-216 | 80020 | FOXRED2 |
| 0.332540289 | 1.415E-216 | 917 | CD3G |
| 0.332528086 | 1.4705E-216 | 339044 | PKD1P1 |

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| 0.522522523 | 0.001261646 | 0.009 | 1 | 146845 | WDR16 |
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| 0.522007722 | 0.001277707 | 0.009 | 1 | 58527 | C6orf115 |
| 0.522007722 | 0.001277707 | 0.009 | 1 | 84560 | MT4 |
| 0.521750322 | 0.001285805 | 0.005 | 1 | 64595 | TTTY15 |
| 0.520978121 | 0.001310372 | 0.014 | 1 | 54584 | GNB1L |
| 0.520978121 | 0.001310372 | 0.012 | 1 | 79605 | PGBD5 |
| 0.520720721 | 0.001318653 | 0.011 | 1 | 26149 | ZNF658 |
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| 0.52046332 | 0.00132698 | 0.008 | 1 | 55845 | BRK1 |
| 0.52020592 | 0.001335353 | 0.008 | 1 | 80816 | ASXL3 |
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| 0.51969112 | 0.00135224 | 0.011 | 1 | 7781 | SLC30A3 |
| 0.51969112 | 0.00135224 | 0.014 | 1 | 401232 | RP1-90J20.7 |
| 0.519433719 | 0.001360755 | 0.005 | 1 | 1025 | CDK9 |
| 0.519433719 | 0.001360755 | 0.01 | 1 | 2918 | GRM8 |
| 0.519433719 | 0.001360755 | 0.01 | 1 | 23322 | RPGRIP1L |
| 0.519176319 | 0.001369316 | 0.01 | 1 | 2775 | GNAO1 |
| 0.519176319 | 0.001369316 | 0.013 | 1 | 5447 | POR |
| 0.519176319 | 0.001369316 | 0.014 | 1 | 55692 | LUC7L |
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| 0.518661519 | 0.001386582 | 0.008 | 1 | 6545 | SLC7A4 |
| 0.518661519 | 0.001386582 | 0.01 | 1 | 55450 | CAMK2N1 |
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| 0.518146718 | 0.00140404 | 0.012 | 1 | 4837 | NNMT |
| 0.518146718 | 0.00140404 | 0.005 | 1 | 221322 | C6orf170 |
| 0.518146718 | 0.00140404 | 0.01 | 1 | 337985 | KRTAP20-3 |
| 0.517889318 | 0.001412842 | 0.013 | 1 | 127002 | ATXN7L2 |
| 0.517631918 | 0.001421693 | 0.014 | 1 | 2947 | GSTM3 |
| 0.517631918 | 0.001421693 | 0.008 | 1 | 199964 | TMEM61 |
| 0.517631918 | 0.001421693 | 0.013 | 1 | 389206 | BEND4 |
| 0.517374517 | 0.001430592 | 0.009 | 1 | 79722 | ANKRD55 |
| 0.517117117 | 0.00143954 | 0.013 | 1 | 57118 | CAMK1D |
| 0.517117117 | 0.00143954 | 0.005 | 1 | 116138 | KLHDC3 |
| 0.516859717 | 0.001448538 | 0.013 | 1 | 388588 | RP1-286D6.2 |
| 0.516602317 | 0.001457586 | 0.009 | 1 | 92906 | HNRPLL |
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| 0.516344916 | 0.001466684 | 0.013 | 1 | 9133 | CCNB2 |
| 0.516344916 | 0.001466684 | 0.01 | 1 | 645752 | LOC645752 |
| 0.516087516 | 0.001475831 | 0.009 | 1 | 896 | CCND3 |
| 0.516087516 | 0.001475831 | 0.003 | 1 | 8999 | CDKL2 |
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| 0.515830116 | 0.001485029 | 0.012 | 1 | 84334 | APOPT1 |
| 0.515830116 | 0.001485029 | 0.006 | 1 | 135935 | NOBOX |
| 0.515830116 | 0.001485029 | 0.009 | 1 | 283767 | AC116165.2 |
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| 0.514543115 | 0.001531783 | 0.019 | 1 | 55001 | TTC22 |
| 0.514543115 | 0.001531783 | 0.011 | 1 | 84861 | KLHL22 |
| 0.514543115 | 0.001531783 | 0.011 | 1 | 285696 | AC091878.1 |
| 0.514285714 | 0.001541288 | 0.016 | 1 | 54535 | CCHCR1 |
| 0.514028314 | 0.001550845 | 0.017 | 1 | 2892 | GRIA3 |
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| 0.32667448 | 1.2312E-208 | 51066 | C3orf32 |
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| 0.32212897 | 1.3267E-202 | 9958 | USP15 |
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| 0.321901338 | 2.6432E-202 | 391191 | OR2AK2 |
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| 0.321304386 | 1.6067E-201 | 79047 | KCTD15 |
| 0.321168136 | 2.4244E-201 | 26533 | OR10G3 |
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| 0.492664093 | 0.00255146 | 0.017 | 1 | 55337 | C19orf66 |
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| 0.316521419 | 2.6415E-195 | 92558 | CCDC64 |
| 0.316314907 | 4.8716E-195 | 126374 | WTIP |
| 0.316172966 | 7.4174E-195 | 81553 | FAM49A |
| 0.315977176 | 1.3241E-194 | 3116 | HLA-DPB2 |
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| 0.315658005 | 3.4026E-194 | 169044 | COL22A1 |
| 0.315604503 | 3.9853E-194 | 474148 | TTTY3B |
| 0.315456584 | 6.169E-194 | 343035 | RD3 |
| 0.314984371 | 2.4844E-193 | 2038 | EPB42 |
| 0.314962785 | 2.6476E-193 | 23339 | VPS39 |
| 0.314825622 | 3.9662E-193 | 140606 | SELM |
| 0.314811199 | 4.1383E-193 | 225689 | MAPK15 |
| 0.31474635 | 5.0092E-193 | 6925 | TCF4 |
| 0.314702409 | 5.7011E-193 | 7295 | TXN |
| 0.314636788 | 6.916E-193 | 8569 | MKNK1 |
| 0.314363626 | 1.5448E-192 | 283848 | CES8 |
| 0.31436036 | 1.5597E-192 | 23670 | TMEM2 |
| 0.314289386 | 1.9216E-192 | 147699 | PPM1N |
| 0.314214626 | 2.3938E-192 | 56034 | PDGFC |
| 0.314202539 | 2.4803E-192 | 10076 | PTPRU |
| 0.314020214 | 4.2375E-192 | 11222 | MRPL3 |
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| 0.313837474 | 7.2456E-192 | 391104 | VHLL |
| 0.313777804 | 8.6319E-192 | 9917 | FAM20B |
| 0.313740282 | 9.6363E-192 | 64409 | WBSCR17 |
| 0.313390214 | 2.6888E-191 | 6659 | SOX4 |
| 0.313239554 | 4.18E-191 | 84665 | MYPN |
| 0.313144334 | 5.5236E-191 | 133686 | C5orf33 |
| 0.313016489 | 8.0291E-191 | 64219 | PJA1 |
| 0.312992488 | 8.613E-191 | 23025 | UNC13A |
| 0.3129794 | 8.9491E-191 | 3188 | HNRNPH2 |
| 0.31296646 | 9.2943E-191 | 8891 | EIF2B3 |
| 0.312908838 | 1.1E-190 | 165082 | GPR113 |
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| 0.312204226 | 8.6078E-190 | 23581 | CASP14 |
| 0.312150539 | 1.0066E-189 | 1012 | CDH13 |
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| 0.312086511 | 1.2132E-189 | 56138 | PCDHA11 |
| 0.311886099 | 2.1752E-189 | 83648 | FAM167A |
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| 0.311702442 | 3.7128E-189 | 2312 | FLG |
| 0.311453799 | 7.6525E-189 | 10951 | CBX1 |
| 0.31143267 | 8.1373E-189 | 493861 | EID3 |
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| 0.311214301 | 1.5348E-188 | 85439 | STON2 |
| 0.311174514 | 1.7229E-188 | 151354 | FAM84A |
| 0.311165436 | 1.7689E-188 | 55885 | LMO3 |
| 0.311051427 | 2.463E-188 | 51586 | MED15 |
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| 0.310517143 | 1.1596E-187 | 646936 | LOC646936 |
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| 0.309904503 | 6.8254E-187 | 57616 | TSHZ3 |
| 0.309814388 | 8.8554E-187 | 732253 | RP11-535K1.1 |
| 0.309675175 | 1.3238E-186 | 57805 | KIAA1967 |
| 0.309386128 | 3.0483E-186 | 151477 | LINC00471 |
| 0.309333269 | 3.5502E-186 | 9353 | SLIT2 |
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| 0.30917977 | 5.5261E-186 | 7511 | XPNPEP1 |
| 0.309160661 | 5.8389E-186 | 136 | ADORA2B |
| 0.30914809 | 6.0542E-186 | 9729 | KIAA0408 |
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| 0.487258687 | 0.002880657 | 0.017 | 1 | 317751 | MESTIT1 |
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| 0.485971686 | 0.002964316 | 0.011 | 1 | 140597 | TCEAL2 |
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| 0.484942085 | 0.003032767 | 0.018 | 1 | 339512 | C1orf110 |
| 0.484684685 | 0.003050095 | 0.015 | 1 | 4097 | MAFG |
| 0.484684685 | 0.003050095 | 0.016 | 1 | 121256 | TMEM132D |
| 0.484684685 | 0.003050095 | 0.021 | 1 | 645974 | PABPC1L2B |
| 0.484169884 | 0.00308501 | 0.016 | 1 | 55206 | SBNO1 |
| 0.484169884 | 0.00308501 | 0.017 | 1 | 55290 | BRF2 |
| 0.484169884 | 0.00308501 | 0.015 | 1 | 142679 | DUSP19 |
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| 0.483655084 | 0.003120275 | 0.015 | 1 | 81573 | ANKRD13C |
| 0.483655084 | 0.003120275 | 0.018 | 1 | 219938 | SPATA19 |
| 0.483397683 | 0.00313804 | 0.014 | 1 | 55765 | C1orf106 |
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| 0.483140283 | 0.003155893 | 0.02 | 1 | 728734 | LOC728734 |
| 0.482625483 | 0.003191865 | 0.019 | 1 | 94122 | SYTL5 |
| 0.482368082 | 0.003209986 | 0.026 | 1 | 955 | ENTPD6 |
| 0.482368082 | 0.003209986 | 0.013 | 1 | 11069 | RAPGEF4 |
| 0.482368082 | 0.003209986 | 0.025 | 1 | 51669 | TMEM66 |
| 0.482368082 | 0.003209986 | 0.011 | 1 | 57190 | SEPN1 |
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| 0.481595882 | 0.003264889 | 0.011 | 1 | 83538 | TTC25 |
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| 0.481081081 | 0.003301945 | 0.016 | 1 | 282775 | OR5J2 |
| 0.480823681 | 0.003320611 | 0.018 | 1 | 5294 | PIK3CG |
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| 0.480823681 | 0.003320611 | 0.023 | 1 | 284232 | ANKRD20A9P |
| 0.480823681 | 0.003320611 | 0.027 | 1 | 338761 | C1QL4 |
| 0.480566281 | 0.003339369 | 0.025 | 1 | 2557 | GABRA4 |
| 0.480566281 | 0.003339369 | 0.02 | 1 | 85456 | TNKS1BP1 |
| 0.48030888 | 0.00335822 | 0.016 | 1 | 7443 | VRK1 |
| 0.48030888 | 0.00335822 | 0.023 | 1 | 51067 | YARS2 |
| 0.48030888 | 0.00335822 | 0.019 | 1 | 136319 | MTPN |
| 0.47979408 | 0.003396201 | 0.018 | 1 | 3622 | ING2 |
| 0.47979408 | 0.003396201 | 0.019 | 1 | 5146 | PDE6C |
| 0.47979408 | 0.003396201 | 0.022 | 1 | 9796 | AC105206.1 |
| 0.47979408 | 0.003396201 | 0.022 | 1 | 10526 | IPO8 |
| 0.47979408 | 0.003396201 | 0.024 | 1 | 26994 | RNF11 |
| 0.47979408 | 0.003396201 | 0.02 | 1 | 139599 | MAGEE2 |
| 0.47953668 | 0.003415331 | 0.024 | 1 | 6441 | SFTPD |
| 0.47953668 | 0.003415331 | 0.017 | 1 | 10787 | NCKAP1 |
| 0.47953668 | 0.003415331 | 0.015 | 1 | 54768 | HYDIN |
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| 0.479279279 | 0.003434556 | 0.02 | 1 | 168391 | GALNTL5 |
| 0.479021879 | 0.003453876 | 0.017 | 1 | 27285 | TEKT2 |
| 0.478764479 | 0.00347329 | 0.015 | 1 | 9991 | ROD1 |
| 0.478764479 | 0.00347329 | 0.023 | 1 | 23066 | CAND2 |
| 0.478764479 | 0.00347329 | 0.018 | 1 | 340267 | COL28A1 |
| 0.478507079 | 0.0034928 | 0.013 | 1 | 114794 | LRRC62 |
| 0.478249678 | 0.003512405 | 0.019 | 1 | 57492 | ARID1B |
| 0.478249678 | 0.003512405 | 0.024 | 1 | 144195 | SLC2A14 |
| 0.477992278 | 0.003532107 | 0.016 | 1 | 434 | ASIP |
| 0.477477477 | 0.0035718 | 0.02 | 1 | 50853 | VILL |
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| 0.476705277 | 0.00363207 | 0.013 | 1 | 1488 | CTBP2 |
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| 0.306469525 | 1.3072E-182 | 3833 | KIFC1 |
| 0.306401468 | 1.5871E-182 | 54908 | CCDC99 |
| 0.306228832 | 2.5956E-182 | 63979 | FIGNL1 |
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| 0.305981652 | 5.2466E-182 | 8364 | HIST1H4C |
| 0.3058787 | 7.0321E-182 | 10737 | RFPL3S |
| 0.305871117 | 7.1855E-182 | 54714 | CNGB3 |
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| 0.305633568 | 1.4118E-181 | 346389 | MACC1 |
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| 0.305425164 | 2.552E-181 | 374969 | CCDC23 |
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| 0.304681576 | 2.1015E-180 | 79722 | ANKRD55 |
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| 0.30345486 | 6.7177E-179 | 114818 | KLHL29 |
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| 0.287298419 | 9.364E-160 | 1282 | COL4A1 |
| 0.287255241 | 1.0495E-159 | 2998 | GYS2 |
| 0.28719672 | 1.2247E-159 | 3064 | HTT |
| 0.287025229 | 1.9254E-159 | 57037 | ANKMY2 |
| 0.286985223 | 2.1396E-159 | 401944 | LDLRAD2 |
| 0.286732439 | 4.1655E-159 | 388722 | C1orf53 |
| 0.286729732 | 4.1953E-159 | 9630 | GNA14 |
| 0.286365905 | 1.0931E-158 | 79586 | CHPF |
| 0.286363468 | 1.1001E-158 | 9737 | GPRASP1 |
| 0.286327643 | 1.2088E-158 | 79072 | FASTKD3 |
| 0.286311474 | 1.2613E-158 | 2986 | GUCY2F |
| 0.286304755 | 1.2838E-158 | 91522 | COL23A1 |
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| 0.285310485 | 1.7441E-157 | 57213 | C13orf1 |
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| 0.285146387 | 2.68E-157 | 203447 | NRK |
| 0.285018378 | 3.7461E-157 | 148 | ADRA1A |
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| 0.284721202 | 8.1458E-157 | 8417 | STX7 |
| 0.284577397 | 1.1859E-156 | 84779 | NAA11 |
| 0.284384775 | 1.9604E-156 | 23466 | CBX6 |
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| 0.284129753 | 3.8118E-156 | 646808 | LOC646808 |
| 0.283906091 | 6.8257E-156 | 440132 | LINC00545 |
| 0.283829502 | 8.3317E-156 | 4837 | NNMT |
| 0.283760107 | 9.9808E-156 | 9774 | BCLAF1 |
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| 0.454311454 | 0.005812637 | 0.031 | 1 | 1630 | DCC |
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| 0.452767053 | 0.005997967 | 0.022 | 1 | 115290 | FBXO17 |
| 0.452767053 | 0.005997967 | 0.031 | 1 | 256051 | ZNF549 |
| 0.452509653 | 0.006029348 | 0.023 | 1 | 7429 | VIL1 |
| 0.452509653 | 0.006029348 | 0.016 | 1 | 55532 | SLC30A10 |
| 0.452509653 | 0.006029348 | 0.023 | 1 | 56245 | C21orf62 |
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| 0.451737452 | 0.006124345 | 0.033 | 1 | 10953 | TOMM34 |
| 0.451480051 | 0.006156298 | 0.033 | 1 | 814 | CAMK4 |
| 0.451480051 | 0.006156298 | 0.024 | 1 | 389898 | UBE2NL |
| 0.451222651 | 0.006188395 | 0.037 | 1 | 55791 | C1orf103 |
| 0.451222651 | 0.006188395 | 0.022 | 1 | 85300 | ATCAY |
| 0.451222651 | 0.006188395 | 0.039 | 1 | 339541 | C1orf228 |
| 0.451222651 | 0.006188395 | 0.029 | 1 | 645323 | LINC00461 |
| 0.450965251 | 0.006220636 | 0.021 | 1 | 84310 | C7orf50 |
| 0.450707851 | 0.006253023 | 0.022 | 1 | 55810 | FOXJ2 |
| 0.450707851 | 0.006253023 | 0.034 | 1 | 79954 | NOL10 |
| 0.45045045 | 0.006285556 | 0.022 | 1 | 1612 | DAPK1 |
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| 0.44967825 | 0.006384034 | 0.034 | 1 | 54958 | TMEM160 |
| 0.449420849 | 0.006417156 | 0.026 | 1 | 4625 | MYH7 |
| 0.449420849 | 0.006417156 | 0.037 | 1 | 5671 | PSG3 |
| 0.449420849 | 0.006417156 | 0.036 | 1 | 6376 | CX3CL1 |
| 0.449163449 | 0.006450426 | 0.016 | 1 | 9578 | AL117209.1 |
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| 0.449163449 | 0.006450426 | 0.024 | 1 | 283358 | B4GALNT3 |
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| 0.448648649 | 0.006517414 | 0.032 | 1 | 51127 | TRIM17 |
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| 0.448391248 | 0.006551133 | 0.023 | 1 | 55813 | UTP6 |
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| 0.448133848 | 0.006585003 | 0.031 | 1 | 4217 | MAP3K5 |
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| 0.447876448 | 0.006619024 | 0.024 | 1 | 139886 | SPIN4 |
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| 0.446846847 | 0.006756634 | 0.04 | 1 | 653319 | KIAA0895L |
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| 0.446589447 | 0.00679142 | 0.029 | 1 | 349152 | DPY19L2P2 |
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| 0.446332046 | 0.006826361 | 0.025 | 1 | 8851 | CDK5R1 |
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| 0.282865539 | 1.019E-154 | 79873 | NUDT18 |
| 0.282837439 | 1.096E-154 | 126321 | C19orf28 |
| 0.282781334 | 1.2676E-154 | 5662 | PSD |
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| 0.281799849 | 1.6046E-153 | 7101 | NR2E1 |
| 0.281688024 | 2.1413E-153 | 57026 | PDXP |
| 0.281608983 | 2.6256E-153 | 11063 | SOX30 |
| 0.281569337 | 2.9082E-153 | 646627 | LOC646627 |
| 0.281547318 | 3.0781E-153 | 645453 | RLIMP3 |
| 0.281529388 | 3.2237E-153 | 284040 | CDRT4 |
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| 0.281448883 | 3.9671E-153 | 440087 | C12orf69 |
| 0.281448755 | 3.9684E-153 | 27075 | TSPAN13 |
| 0.281439332 | 4.066E-153 | 59350 | RXFP1 |
| 0.281382554 | 4.7066E-153 | 10724 | MGEA5 |
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| 0.281037412 | 1.1445E-152 | 219736 | STOX1 |
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| 0.280849695 | 1.8548E-152 | 4486 | MST1R |
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| 0.280769412 | 2.2799E-152 | 337876 | CHSY3 |
| 0.280766913 | 2.2946E-152 | 285696 | AC091878.1 |
| 0.28075752 | 2.3507E-152 | 576 | BAI2 |
| 0.280744661 | 2.4296E-152 | 4990 | SIX6 |
| 0.280722681 | 2.5708E-152 | 116372 | LYPD1 |
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| 0.280289397 | 7.8186E-152 | 8360 | HIST1H4D |
| 0.280245738 | 8.745E-152 | 79977 | GRHL2 |
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| 0.279872044 | 2.2783E-151 | 5567 | PRKACB |
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| 0.279713536 | 3.4183E-151 | 23518 | R3HDM1 |
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| 0.2793137 | 9.5003E-151 | 317751 | MESTIT1 |
| 0.279241175 | 1.1434E-150 | 83643 | CCDC3 |
| 0.279229204 | 1.1788E-150 | 6455 | SH3GL1 |
| 0.279219186 | 1.2094E-150 | 169981 | SPIN3 |
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| 0.278650432 | 5.1585E-150 | 25903 | OLFML2B |
| 0.278579345 | 6.1823E-150 | 2664 | GDI1 |
| 0.278542436 | 6.7915E-150 | 57728 | WDR19 |
| 0.27845825 | 8.4148E-150 | 151009 | LOC151009 |
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| 0.27827517 | 1.3407E-149 | 283143 | LOC283143 |
| 0.278176953 | 1.7211E-149 | 440585 | FAM183A |
| 0.277969642 | 2.9147E-149 | 8270 | LAGE3 |
| 0.277912728 | 3.368E-149 | 23271 | CAMSAP1L1 |
| 0.277840792 | 4.043E-149 | 56267 | CCBL2 |
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| 0.444272844 | 0.007111524 | 0.035 | 1 | 374887 | YJEFN3 |
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| 0.442985843 | 0.007294927 | 0.037 | 1 | 54769 | DIRAS2 |
| 0.442985843 | 0.007294927 | 0.031 | 1 | 221786 | C7orf38 |
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| 0.442213642 | 0.007406916 | 0.04 | 1 | 6346 | CCL1 |
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| 0.276087753 | 3.4074E-147 | 651 | BMP3 |
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| 0.275890005 | 5.6073E-147 | 7849 | PAX8 |
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| 0.274151483 | 4.395E-145 | 3046 | HBE1 |
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| 0.271617081 | 2.3959E-142 | 27178 | IL1F7 |
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| 0.271437252 | 3.737E-142 | 146227 | AC132186.2 |
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| 0.436808237 | 0.008233192 | 0.041 | 1 | 7732 | RNF112 |
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| 0.436550837 | 0.008274442 | 0.03 | 1 | 10446 | LRRN2 |
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| 0.436550837 | 0.008274442 | 0.026 | 1 | 117581 | TWIST2 |
| 0.436550837 | 0.008274442 | 0.034 | 1 | 138255 | C9orf135 |
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| 0.436036036 | 0.008357477 | 0.032 | 1 | 5740 | PTGIS |
| 0.435778636 | 0.008399262 | 0.025 | 1 | 200558 | APLF |
| 0.435778636 | 0.008399262 | 0.039 | 1 | 353144 | LCE3C |
| 0.435521236 | 0.008441228 | 0.044 | 1 | 2830 | GPR6 |
| 0.435263835 | 0.008483373 | 0.028 | 1 | 6305 | SBF1 |
| 0.435263835 | 0.008483373 | 0.024 | 1 | 23080 | AVL9 |
| 0.435263835 | 0.008483373 | 0.036 | 1 | 127703 | C1orf216 |
| 0.435263835 | 0.008483373 | 0.029 | 1 | 140465 | MYL6B |
| 0.435006435 | 0.0085257 | 0.031 | 1 | 54550 | NECAB2 |
| 0.435006435 | 0.0085257 | 0.047 | 1 | 120071 | GYLTL1B |
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| 0.434749035 | 0.008568208 | 0.033 | 1 | 440345 | 61E3.4 |
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| 0.434491634 | 0.008610898 | 0.03 | 1 | 64866 | CDCP1 |
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| 0.433719434 | 0.008740068 | 0.025 | 1 | 84627 | ZNF469 |
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| 0.433204633 | 0.008827104 | 0.026 | 1 | 349565 | NMNAT3 |
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| 0.432947233 | 0.0088709 | 0.039 | 1 | 163688 | CALML6 |
| 0.432947233 | 0.0088709 | 0.037 | 1 | 441461 | RP11-60I3.5 |
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| 0.432689833 | 0.008914884 | 0.032 | 1 | 23101 | MCF2L2 |
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| 0.432175032 | 0.009003413 | 0.031 | 1 | 65243 | ZNF643 |
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| 0.431917632 | 0.00904796 | 0.04 | 1 | 6722 | SRF |
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| 0.43037323 | 0.00931924 | 0.045 | 1 | 10737 | RFPL3S |
| 0.43037323 | 0.00931924 | 0.046 | 1 | 140883 | ZNF280B |
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| 0.42985843 | 0.009411205 | 0.036 | 1 | 90233 | ZNF551 |
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| 0.26974726 | 2.3965E-140 | 4665 | NAB2 |
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| 0.269094684 | 1.1854E-139 | 3081 | HGD |
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| 0.268656775 | 3.4569E-139 | 249 | ALPL |
| 0.2686306 | 3.685E-139 | 204801 | NLRP11 |
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| 0.268484236 | 5.2673E-139 | 387357 | THEMIS |
| 0.268285923 | 8.5436E-139 | 23160 | WDR43 |
| 0.268219297 | 1.005E-138 | 6248 | RSC1A1 |
| 0.268210597 | 1.0266E-138 | 1620 | DBC1 |
| 0.26802964 | 1.5953E-138 | 131377 | KBTBD5 |
| 0.267963141 | 1.8757E-138 | 1734 | DIO2 |
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| 0.267661353 | 3.9087E-138 | 5342 | PLGLB2 |
| 0.267584923 | 4.7067E-138 | 65985 | AACS |
| 0.267552687 | 5.0903E-138 | 9424 | KCNK6 |
| 0.267517078 | 5.5504E-138 | 64130 | LIN7B |
| 0.267487118 | 5.9695E-138 | 54511 | HMGCLL1 |
| 0.26724165 | 1.0834E-137 | 8394 | PIP5K1A |
| 0.267042082 | 1.7582E-137 | 56924 | PAK6 |
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| 0.266201305 | 1.3455E-136 | 63877 | FAM204A |
| 0.266104516 | 1.6999E-136 | 91 | ACVR1B |
| 0.266053135 | 1.9245E-136 | 84172 | POLR1B |
| 0.265916236 | 2.6781E-136 | 8618 | CADPS |
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| 0.265576414 | 6.0772E-136 | 84140 | FAM161A |
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| 0.265398103 | 9.3375E-136 | 26575 | RSG17 |
| 0.265370211 | 9.9861E-136 | 4886 | NPY1R |
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| 0.264549447 | 7.1782E-135 | 9568 | GABBR2 |
| 0.264318511 | 1.2488E-134 | 341277 | OVCH2 |
| 0.264219414 | 1.5835E-134 | 84694 | GJA10 |
| 0.264023654 | 2.5303E-134 | 221078 | NSUN6 |
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| 0.263889449 | 3.4885E-134 | 2117 | ETV3 |
| 0.263736269 | 5.0317E-134 | 132001 | C3orf31 |
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| 0.428571429 | 0.009644532 | 0.031 | 1 | 79747 | C6orf103 |
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| 0.428314028 | 0.009691788 | 0.029 | 1 | 132200 | C3orf49 |
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| 0.428056628 | 0.009739243 | 0.044 | 1 | 57646 | USP28 |
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| 0.427799228 | 0.009786897 | 0.022 | 1 | 147965 | FAM98C |
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| 0.427541828 | 0.009834751 | 0.038 | 1 | 202559 | KHDRBS2 |
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| 0.427284427 | 0.009882805 | 0.035 | 1 | 10004 | NAALADL1 |
| 0.427284427 | 0.009882805 | 0.03 | 1 | 55034 | MOCOS |
| 0.427284427 | 0.009882805 | 0.038 | 1 | 442213 | C6orf138 |
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| 0.426769627 | 0.009979518 | 0.042 | 1 | 1607 | DGKB |
| 0.426769627 | 0.009979518 | 0.033 | 1 | 5496 | PPM1G |
| 0.426512227 | 0.010028178 | 0.038 | 1 | 65078 | RTN4R |
| 0.426512227 | 0.010028178 | 0.032 | 1 | 284346 | ZNF575 |
| 0.426254826 | 0.010077041 | 0.033 | 1 | 7431 | VIM |
| 0.426254826 | 0.010077041 | 0.035 | 1 | 23413 | FREQ |
| 0.426254826 | 0.010077041 | 0.038 | 1 | 26297 | SERGEF |
| 0.426254826 | 0.010077041 | 0.038 | 1 | 645676 | RP11-29H23.1 |
| 0.425997426 | 0.010126108 | 0.022 | 1 | 7280 | TUBB2A |
| 0.425997426 | 0.010126108 | 0.033 | 1 | 64928 | MRPL14 |
| 0.425997426 | 0.010126108 | 0.035 | 1 | 440792 | LOC440792 |
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| 0.425740026 | 0.01017538 | 0.029 | 1 | 54944 | AC073548.1 |
| 0.425740026 | 0.01017538 | 0.038 | 1 | 343099 | CCDC18 |
| 0.425740026 | 0.01017538 | 0.033 | 1 | 401647 | GOLGA7B |
| 0.425225225 | 0.01027454 | 0.037 | 1 | 1020 | CDK5 |
| 0.425225225 | 0.01027454 | 0.043 | 1 | 7574 | ZNF26 |
| 0.425225225 | 0.01027454 | 0.036 | 1 | 9500 | MAGED1 |
| 0.425225225 | 0.01027454 | 0.042 | 1 | 84536 | C21orf67 |
| 0.425225225 | 0.01027454 | 0.03 | 1 | 116447 | TOP1MT |
| 0.424967825 | 0.01032443 | 0.022 | 1 | 8905 | AP1S2 |
| 0.424967825 | 0.01032443 | 0.036 | 1 | 10673 | TNFSF13B |
| 0.424967825 | 0.01032443 | 0.052 | 1 | 23178 | PASK |
| 0.424967825 | 0.01032443 | 0.035 | 1 | 64409 | WBSCR17 |
| 0.424710425 | 0.010374527 | 0.034 | 1 | 2016 | EMX1 |
| 0.424710425 | 0.010374527 | 0.036 | 1 | 23113 | CUL9 |
| 0.424710425 | 0.010374527 | 0.048 | 1 | 27164 | SALL3 |
| 0.424710425 | 0.010374527 | 0.044 | 1 | 91862 | MARVELD3 |
| 0.424453024 | 0.010424832 | 0.028 | 1 | 27177 | IL1F8 |
| 0.424453024 | 0.010424832 | 0.04 | 1 | 728047 | AC135983.8 |
| 0.424195624 | 0.010475346 | 0.032 | 1 | 221895 | JAZF1 |
| 0.423938224 | 0.010526069 | 0.034 | 1 | 83989 | FAM172A |
| 0.423938224 | 0.010526069 | 0.037 | 1 | 89765 | RSPH1 |
| 0.423680824 | 0.010577002 | 0.022 | 1 | 8000 | PSCA |
| 0.423680824 | 0.010577002 | 0.033 | 1 | 8761 | PABPC4 |
| 0.423680824 | 0.010577002 | 0.043 | 1 | 79838 | TMC5 |
| 0.423680824 | 0.010577002 | 0.04 | 1 | 79846 | C7orf63 |
| 0.423680824 | 0.010577002 | 0.043 | 1 | 81577 | GFOD2 |
| 0.423680824 | 0.010577002 | 0.041 | 1 | 401262 | CRIP3 |
| 0.423423423 | 0.010628147 | 0.046 | 1 | 1212 | CLTB |
| 0.423423423 | 0.010628147 | 0.035 | 1 | 8445 | DYRK2 |
| 0.423166023 | 0.010679502 | 0.047 | 1 | 2677 | GGCX |
| 0.423166023 | 0.010679502 | 0.045 | 1 | 5199 | CFP |
| 0.422908623 | 0.010731071 | 0.031 | 1 | 1418 | CRYGA |
| 0.422908623 | 0.010731071 | 0.036 | 1 | 4173 | MCM4 |
| 0.422908623 | 0.010731071 | 0.045 | 1 | 51166 | AADAT |
| 0.422908623 | 0.010731071 | 0.041 | 1 | 126789 | PUSL1 |
| 0.422908623 | 0.010731071 | 0.04 | 1 | 261729 | STEAP2 |
| 0.422651223 | 0.010782852 | 0.044 | 1 | 6860 | SYT4 |
| 0.422651223 | 0.010782852 | 0.04 | 1 | 152206 | CCDC13 |
| 0.422651223 | 0.010782852 | 0.038 | 1 | 353497 | POLN |
| 0.422651223 | 0.010782852 | 0.038 | 1 | 440585 | FAM183A |
| 0.422393822 | 0.010834846 | 0.046 | 1 | 26038 | CHD5 |
| 0.422136422 | 0.010887055 | 0.045 | 1 | 54737 | MPHOSPH8 |
| 0.422136422 | 0.010887055 | 0.043 | 1 | 91893 | FDXACB1 |
| 0.421879022 | 0.01093948 | 0.043 | 1 | 159989 | CCDC67 |
| 0.421621622 | 0.010992119 | 0.046 | 1 | 2590 | GALNT2 |
| 0.421621622 | 0.010992119 | 0.045 | 1 | 8861 | LDB1 |
| 0.421621622 | 0.010992119 | 0.042 | 1 | 23450 | SF3B3 |

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| 0.263316964 | 1.3697E-133 | 10944 | C11orf58 |
| 0.263131624 | 2.1311E-133 | 728927 | RP11-468B6.3 |
| 0.263120899 | 2.1863E-133 | 10740 | RFPL1-AS1 |
| 0.262905938 | 3.649E-133 | 119678 | OR52E2 |
| 0.262893375 | 3.7598E-133 | 51303 | FKBP11 |
| 0.26282717 | 4.4019E-133 | 128553 | TSHZ2 |
| 0.262691132 | 6.0851E-133 | 284593 | FAM41C |
| 0.262688763 | 6.1195E-133 | 768 | CA9 |
| 0.262629719 | 7.0425E-133 | 7277 | TUBA4A |
| 0.262532893 | 8.8663E-133 | 201725 | C4orf46 |
| 0.262411885 | 1.1822E-132 | 29993 | PACSIN1 |
| 0.262371024 | 1.3027E-132 | 54535 | CCHCR1 |
| 0.262299376 | 1.5445E-132 | 388585 | HES5 |
| 0.262019201 | 3.0037E-132 | 80217 | C10orf79 |
| 0.261920045 | 3.8002E-132 | 79986 | ZNF702P |
| 0.261899148 | 3.9933E-132 | 28983 | TMPRSS11E2 |
| 0.261845949 | 4.5301E-132 | 441728 | GOLGA6B |
| 0.26180674 | 4.9714E-132 | 197 | AHSG |
| 0.261720993 | 6.0917E-132 | 5295 | PIK3R1 |
| 0.261653501 | 7.1479E-132 | 5566 | PRKACA |
| 0.261554722 | 9.0319E-132 | 81578 | COL21A1 |
| 0.261499633 | 1.029E-131 | 8366 | HIST1H4B |
| 0.261350705 | 1.4638E-131 | 9827 | RGP1 |
| 0.261214839 | 2.0185E-131 | 254439 | C11orf86 |
| 0.2611107 | 2.5819E-131 | 401993 | OR2T5 |
| 0.261073941 | 2.8162E-131 | 11101 | ATE1 |
| 0.261045038 | 3.0152E-131 | 1046 | CDX4 |
| 0.260976941 | 3.5415E-131 | 23053 | KIAA0913 |
| 0.260913662 | 4.1123E-131 | 4018 | LPA |
| 0.260883732 | 4.4134E-131 | 199720 | GGN |
| 0.26082718 | 5.0437E-131 | 440387 | CTRB2 |
| 0.2608128 | 5.2178E-131 | 400798 | RP5-990P15.1 |
| 0.260740599 | 6.187E-131 | 3503 | IGHG4 |
| 0.260641887 | 7.8092E-131 | 144195 | SLC2A14 |
| 0.260578994 | 9.0576E-131 | 9462 | RASAL2 |
| 0.260431851 | 1.2813E-130 | 2979 | GUCA1B |
| 0.260413465 | 1.338E-130 | 51361 | HOOK1 |
| 0.26030074 | 1.7449E-130 | 6833 | ABCC8 |
| 0.260109989 | 2.7338E-130 | 4234 | METTL1 |
| 0.260097347 | 2.8163E-130 | 8667 | EIF3H |
| 0.259990679 | 3.6195E-130 | 65094 | JMJD4 |
| 0.259878843 | 4.708E-130 | 8832 | CD84 |
| 0.259835829 | 5.2088E-130 | 160428 | ALDH1L2 |
| 0.259763951 | 6.1672E-130 | 29881 | NPC1L1 |
| 0.25974069 | 6.5136E-130 | 6809 | STX3 |
| 0.259594391 | 9.1839E-130 | 8785 | MATN4 |
| 0.259558747 | 9.9853E-130 | 143187 | VTI1A |
| 0.259506696 | 1.1283E-129 | 10256 | CNKSR1 |
| 0.259482015 | 1.1956E-129 | 23530 | NNT |
| 0.259480158 | 1.2008E-129 | 23359 | FAM189A1 |
| 0.259345024 | 1.6486E-129 | 9891 | NUAK1 |
| 0.259322755 | 1.737E-129 | 338917 | VSX2 |
| 0.259308734 | 1.7951E-129 | 654434 | LINC00338 |
| 0.259275205 | 1.9419E-129 | 1741 | DLG3 |
| 0.259248651 | 2.0666E-129 | 219970 | GLYATL2 |
| 0.259210228 | 2.2613E-129 | 284615 | ANKRD34A |
| 0.259210095 | 2.262E-129 | 1446 | CSN1S1 |
| 0.2591649 | 2.5147E-129 | 158067 | C9orf98 |
| 0.259009305 | 3.6205E-129 | 25987 | TSKU |
| 0.259003047 | 3.674E-129 | 54491 | FAM105A |
| 0.258996547 | 3.7303E-129 | 84708 | LNX1 |
| 0.258906807 | 4.6024E-129 | 7259 | TSPYL1 |
| 0.258802237 | 5.8783E-129 | 56916 | SMARCAD1 |
| 0.258762798 | 6.4464E-129 | 25884 | CHRDL2 |
| 0.258709612 | 7.3002E-129 | 123872 | LRRC50 |
| 0.258470314 | 1.2771E-128 | 118427 | OLFM3 |
| 0.258410256 | 1.4694E-128 | 56954 | NIT2 |
| 0.258334714 | 1.7529E-128 | 10652 | YKT6 |
| 0.258289444 | 1.9483E-128 | 550631 | CCDC157 |
| 0.258263112 | 2.0718E-128 | 55201 | MAP1S |
| 0.258115307 | 2.9249E-128 | 8317 | CDC7 |
| 0.258083542 | 3.1498E-128 | 3044 | HBBP1 |
| 0.257945777 | 4.3427E-128 | 4826 | NNAT |
| 0.257828243 | 5.7107E-128 | 11187 | PKP3 |
| 0.257569524 | 1.043E-127 | 10626 | TRIM16 |
| 0.257286882 | 2.0123E-127 | 9716 | AQR |
| 0.257263125 | 2.1265E-127 | 56624 | ASAH2 |
| 0.257202159 | 2.4501E-127 | 1977 | EIF4E |
| 0.257075733 | 3.2862E-127 | 54438 | GFOD1 |
| 0.257073791 | 3.301E-127 | 10786 | SLC17A3 |
| 0.256725764 | 7.4008E-127 | 10659 | CUGBP2 |
| 0.256698872 | 7.8768E-127 | 147947 | ZNF542 |

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|---|---|---|---|---|---|
| 0.421621622 | 0.010992119 | 0.035 | 1 | 57026 | PDXP |
| 0.421106821 | 0.01109805 | 0.045 | 1 | 9362 | CPNE6 |
| 0.421106821 | 0.01109805 | 0.044 | 1 | 155382 | VPS37D |
| 0.421106821 | 0.01109805 | 0.046 | 1 | 441089 | CRSP8P |
| 0.420849421 | 0.011151341 | 0.047 | 1 | 4771 | NF2 |
| 0.420849421 | 0.011151341 | 0.033 | 1 | 91860 | CALML4 |
| 0.420592021 | 0.011204851 | 0.033 | 1 | 29123 | ANKRD11 |
| 0.420592021 | 0.011204851 | 0.035 | 1 | 54908 | CCDC99 |
| 0.42033462 | 0.011258581 | 0.031 | 1 | 91 | ACVR1B |
| 0.42033462 | 0.011258581 | 0.041 | 1 | 6401 | SELE |
| 0.42033462 | 0.011258581 | 0.04 | 1 | 23039 | XPO7 |
| 0.42033462 | 0.011258581 | 0.037 | 1 | 23635 | SSBP2 |
| 0.42007722 | 0.011312531 | 0.049 | 1 | 23770 | FKBP8 |
| 0.42007722 | 0.011312531 | 0.041 | 1 | 29906 | ST8SIA5 |
| 0.42007722 | 0.011312531 | 0.042 | 1 | 51072 | MEMO1 |
| 0.41981982 | 0.011366701 | 0.046 | 1 | 22839 | DLGAP4 |
| 0.418532819 | 0.011640891 | 0.053 | 1 | 11146 | GLMN |
| 0.418532819 | 0.011640891 | 0.046 | 1 | 26100 | WIPI2 |
| 0.418532819 | 0.011640891 | 0.04 | 1 | 170626 | XAGE3 |
| 0.418532819 | 0.011640891 | 0.037 | 1 | 100189589 | AC005041.9 |
| 0.418275418 | 0.011696402 | 0.035 | 1 | 9465 | AKAP7 |
| 0.418018018 | 0.011752139 | 0.033 | 1 | 8648 | NCOA1 |
| 0.418018018 | 0.011752139 | 0.046 | 1 | 10748 | RP11-904M10.1 |
| 0.417760618 | 0.011808102 | 0.039 | 1 | 23236 | PLCB1 |
| 0.417760618 | 0.011808102 | 0.047 | 1 | 64225 | ATL2 |
| 0.417760618 | 0.011808102 | 0.053 | 1 | 654502 | IQCJ |
| 0.417503218 | 0.011864292 | 0.057 | 1 | 9671 | WSCD2 |
| 0.417503218 | 0.011864292 | 0.042 | 1 | 57611 | ISLR2 |
| 0.417503218 | 0.011864292 | 0.034 | 1 | 84856 | RP11-178A10.1 |
| 0.417245817 | 0.011920711 | 0.03 | 1 | 10253 | SPRY2 |
| 0.417245817 | 0.011920711 | 0.045 | 1 | 91147 | TMEM67 |
| 0.417245817 | 0.011920711 | 0.048 | 1 | 94233 | OPN4 |
| 0.417245817 | 0.011920711 | 0.041 | 1 | 643837 | RP11-206L10.11 |
| 0.416988417 | 0.011977358 | 0.029 | 1 | 56101 | PCDHGB5 |
| 0.416988417 | 0.011977358 | 0.048 | 1 | 261734 | NPHP4 |
| 0.416731017 | 0.012034236 | 0.054 | 1 | 2281 | FKBP1B |
| 0.416731017 | 0.012034236 | 0.056 | 1 | 25992 | SNED1 |
| 0.416731017 | 0.012034236 | 0.029 | 1 | 389874 | ZCCHC13 |
| 0.416473616 | 0.012091343 | 0.044 | 1 | 10950 | BTG3 |
| 0.416473616 | 0.012091343 | 0.04 | 1 | 56134 | PCDHAC2 |
| 0.416473616 | 0.012091343 | 0.05 | 1 | 147429 | CHST9-AS1 |
| 0.416473616 | 0.012091343 | 0.042 | 1 | 282808 | RAB40AL |
| 0.416216216 | 0.012148682 | 0.051 | 1 | 1174 | AP1S1 |
| 0.415958816 | 0.012206252 | 0.047 | 1 | 153830 | RNF145 |
| 0.415958816 | 0.012206252 | 0.047 | 1 | 440482 | ANKRD20A5P |
| 0.415958816 | 0.012206252 | 0.041 | 1 | 653857 | RP5-820A21.1 |
| 0.415701416 | 0.012264055 | 0.056 | 1 | 863 | CBFA2T3 |
| 0.415701416 | 0.012264055 | 0.037 | 1 | 9024 | BRSK2 |
| 0.415701416 | 0.012264055 | 0.044 | 1 | 389792 | IER5L |
| 0.415444015 | 0.012322091 | 0.045 | 1 | 24141 | C20orf103 |
| 0.415444015 | 0.012322091 | 0.042 | 1 | 646517 | LOC646517 |
| 0.415186615 | 0.012380362 | 0.043 | 1 | 166647 | GPR125 |
| 0.414929215 | 0.012438867 | 0.043 | 1 | 1551 | CYP3A7 |
| 0.414929215 | 0.012438867 | 0.04 | 1 | 4745 | NELL1 |
| 0.414671815 | 0.012497608 | 0.041 | 1 | 9951 | HS3ST4 |
| 0.414671815 | 0.012497608 | 0.044 | 1 | 51333 | ZNF771 |
| 0.414414414 | 0.012556585 | 0.042 | 1 | 685 | BTC |
| 0.414414414 | 0.012556585 | 0.041 | 1 | 8703 | B4GALT3 |
| 0.414414414 | 0.012556585 | 0.053 | 1 | 129881 | C2orf77 |
| 0.414157014 | 0.012615799 | 0.039 | 1 | 51373 | MRPS17 |
| 0.413899614 | 0.012675251 | 0.037 | 1 | 146909 | KIF18B |
| 0.413899614 | 0.012675251 | 0.055 | 1 | 574407 | C1orf145 |
| 0.413642214 | 0.012734942 | 0.05 | 1 | 145200 | LINC00239 |
| 0.413642214 | 0.012734942 | 0.033 | 1 | 347516 | DGAT2L6 |
| 0.413642214 | 0.012734942 | 0.048 | 1 | 653583 | PHLDB3 |
| 0.413384813 | 0.012794872 | 0.041 | 1 | 6532 | SLC6A4 |
| 0.413384813 | 0.012794872 | 0.04 | 1 | 10149 | GPR64 |
| 0.413384813 | 0.012794872 | 0.045 | 1 | 26523 | EIF2C1 |
| 0.413384813 | 0.012794872 | 0.05 | 1 | 85409 | NKD2 |
| 0.413384813 | 0.012794872 | 0.046 | 1 | 441308 | OR4F21 |
| 0.412355212 | 0.013037001 | 0.048 | 1 | 1130 | LYST |
| 0.412097812 | 0.01309814 | 0.051 | 1 | 4968 | OGG1 |
| 0.412097812 | 0.01309814 | 0.049 | 1 | 6610 | SMPD2 |
| 0.411840412 | 0.013159522 | 0.045 | 1 | 81691 | AC004381.2 |
| 0.411583012 | 0.013221149 | 0.051 | 1 | 84766 | EFCAB4B |
| 0.411325611 | 0.013283022 | 0.047 | 1 | 8120 | AP3B2 |
| 0.411068211 | 0.013345141 | 0.052 | 1 | 440556 | RP1-163G9.1 |
| 0.410553411 | 0.013470121 | 0.045 | 1 | 4647 | MYO7A |
| 0.410553411 | 0.013470121 | 0.041 | 1 | 283897 | C16orf54 |
| 0.41029601 | 0.013532984 | 0.05 | 1 | 3758 | KCNJ1 |
| 0.41029601 | 0.013532984 | 0.045 | 1 | 79847 | TMEM180 |
| 0.41029601 | 0.013532984 | 0.051 | 1 | 85443 | DCLK3 |

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| 0.256653488 | 8.7504E-127 | 11346 | SYNPO |
| 0.256620987 | 9.4349E-127 | 80714 | PBX4 |
| 0.256585629 | 1.024E-126 | 55697 | VAC14 |
| 0.256443621 | 1.4228E-126 | 80169 | CTC1 |
| 0.256364761 | 1.7077E-126 | 8971 | H1FX |
| 0.256358898 | 1.731E-126 | 6794 | STK11 |
| 0.2561106 | 3.0742E-126 | 285501 | AC021850.1 |
| 0.255999254 | 3.9764E-126 | 1978 | EIF4EBP1 |
| 0.255902926 | 4.9674E-126 | 6500 | SKP1 |
| 0.255748327 | 7.0982E-126 | 168620 | BHLHA15 |
| 0.255521164 | 1.1988E-125 | 694 | BTG1 |
| 0.255422482 | 1.5049E-125 | 90550 | CCDC109A |
| 0.25532775 | 1.8721E-125 | 126014 | OSCAR |
| 0.25523473 | 2.3193E-125 | 84962 | JUB |
| 0.255227495 | 2.3583E-125 | 2529 | FUT7 |
| 0.255175092 | 2.6607E-125 | 65055 | REEP1 |
| 0.255163286 | 2.734E-125 | 10528 | NOP56 |
| 0.25509652 | 3.1882E-125 | 57535 | KIAA1324 |
| 0.255076692 | 3.337E-125 | 114960 | TSGA13 |
| 0.255065714 | 3.4224E-125 | 1809 | DPYSL3 |
| 0.255046512 | 3.577E-125 | 6821 | SUOX |
| 0.255026282 | 3.7474E-125 | 29888 | STRN4 |
| 0.254944401 | 4.524E-125 | 84312 | BRMS1L |
| 0.254939394 | 4.5764E-125 | 56061 | UBFD1 |
| 0.254711241 | 7.7317E-125 | 728215 | FAM155A |
| 0.254698668 | 7.9583E-125 | 220107 | DLEU7 |
| 0.25468866 | 8.1434E-125 | 2770 | GNAI1 |
| 0.254590517 | 1.0202E-124 | 100507055 | LRCOL1 |
| 0.254469806 | 1.346E-124 | 57172 | CAMK1G |
| 0.25443438 | 1.46E-124 | 219541 | MED19 |
| 0.254427349 | 1.4837E-124 | 53947 | A4GALT |
| 0.254347886 | 1.7804E-124 | 219956 | OR9Q1 |
| 0.254339494 | 1.815E-124 | 1803 | DPP4 |
| 0.254310034 | 1.9419E-124 | 55088 | C10orf118 |
| 0.254096364 | 3.169E-124 | 23369 | PUM2 |
| 0.254039054 | 3.6136E-124 | 2713 | GK3P |
| 0.254021715 | 3.76E-124 | 84929 | FIBCD1 |
| 0.253907955 | 4.8788E-124 | 85456 | TNKS1BP1 |
| 0.253843747 | 5.6511E-124 | 3674 | ITGA2B |
| 0.253734881 | 7.2495E-124 | 10499 | NCOA2 |
| 0.253539393 | 1.1335E-123 | 64282 | PAPD5 |
| 0.253528209 | 1.1629E-123 | 1032 | CDKN2D |
| 0.253413259 | 1.5121E-123 | 135138 | PACRG |
| 0.253400952 | 1.5552E-123 | 2350 | FOLR2 |
| 0.253215003 | 2.3777E-123 | 81031 | SLC2A10 |
| 0.253124922 | 2.9202E-123 | 57216 | VANGL2 |
| 0.253101595 | 3.0798E-123 | 94030 | LRRC4B |
| 0.253041183 | 3.5348E-123 | 4683 | NBN |
| 0.253025225 | 3.6658E-123 | 79187 | FSD1 |
| 0.253024545 | 3.6715E-123 | 8367 | HIST1H4E |
| 0.252988974 | 3.9816E-123 | 728734 | LOC728734 |
| 0.252987722 | 3.993E-123 | 7025 | NR2F1 |
| 0.252983154 | 4.0348E-123 | 100506049 | AC005014.1 |
| 0.252905137 | 4.82E-123 | 129868 | TRIM43 |
| 0.252790029 | 6.2653E-123 | 25775 | C22orf24 |
| 0.252784068 | 6.351E-123 | 112597 | LINC00152 |
| 0.25277163 | 6.5335E-123 | 196394 | AMN1 |
| 0.25276518 | 6.6302E-123 | 124739 | USP43 |
| 0.252726818 | 7.2354E-123 | 27151 | CPAMD8 |
| 0.252710262 | 7.5134E-123 | 9077 | DIRAS3 |
| 0.252662365 | 8.3791E-123 | 5657 | PRTN3 |
| 0.252650357 | 8.6113E-123 | 10073 | SNUPN |
| 0.252644996 | 8.717E-123 | 566 | AZU1 |
| 0.252634225 | 8.9333E-123 | 57646 | USP28 |
| 0.252142518 | 2.7324E-122 | 3904 | LAIR2 |
| 0.251980925 | 3.9434E-122 | 10019 | SH2B3 |
| 0.25196726 | 4.0676E-122 | 203859 | ANO5 |
| 0.251953174 | 4.1997E-122 | 23237 | ARC |
| 0.251828968 | 5.5666E-122 | 91862 | MARVELD3 |
| 0.251639485 | 8.5534E-122 | 27087 | B3GAT1 |
| 0.251575621 | 9.8851E-122 | 149986 | LSM14B |
| 0.251475391 | 1.2404E-121 | 11077 | HSF2BP |
| 0.251360868 | 1.6075E-121 | 645752 | LOC645752 |
| 0.251329899 | 1.7242E-121 | 80129 | C6orf97 |
| 0.251220817 | 2.2068E-121 | 25891 | PAMR1 |
| 0.251146026 | 2.6135E-121 | 7264 | TSTA3 |
| 0.251116907 | 2.7913E-121 | 64778 | FNDC3B |
| 0.2509286 | 4.2718E-121 | 6038 | RNASE4 |
| 0.250771445 | 6.0915E-121 | 57542 | KLHDC5 |
| 0.250746424 | 6.4454E-121 | 115290 | FBXO17 |
| 0.250732527 | 6.6507E-121 | 50632 | CALY |
| 0.250515391 | 1.0854E-120 | 54207 | KCNK10 |

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| 0.41029601 | 0.013532984 | 0.043 | 1 | 113540 | CMTM1 |
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| 0.41003861 | 0.013596096 | 0.055 | 1 | 145581 | LRFN5 |
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| 0.40952381 | 0.013723072 | 0.055 | 1 | 2944 | GSTM1 |
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| 0.408751609 | 0.013915425 | 0.042 | 1 | 100129792 | CCDC152 |
| 0.408751609 | 0.013915425 | 0.053 | 1 | 100287497 | RP11-504P24.4 |
| 0.408494208 | 0.01398005 | 0.05 | 1 | 9502 | XAGE2B |
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| 0.408236808 | 0.014044931 | 0.052 | 1 | 1325 | CORT |
| 0.408236808 | 0.014044931 | 0.051 | 1 | 10152 | ABI2 |
| 0.408236808 | 0.014044931 | 0.051 | 1 | 23581 | CASP14 |
| 0.407979408 | 0.014110066 | 0.053 | 1 | 401805 | LOC401805 |
| 0.407979408 | 0.014110066 | 0.04 | 1 | 440465 | AC013356.3 |
| 0.407722008 | 0.014175459 | 0.054 | 1 | 55130 | ARMC4 |
| 0.407207207 | 0.014307017 | 0.05 | 1 | 10225 | CD96 |
| 0.407207207 | 0.014307017 | 0.04 | 1 | 150590 | C2orf15 |
| 0.407207207 | 0.014307017 | 0.053 | 1 | 285659 | OR2V2 |
| 0.406435006 | 0.014506297 | 0.049 | 1 | 5612 | PRKRIR |
| 0.406435006 | 0.014506297 | 0.048 | 1 | 51062 | ATL1 |
| 0.406435006 | 0.014506297 | 0.064 | 1 | 441425 | ANKRD20A1 |
| 0.406177606 | 0.014573246 | 0.044 | 1 | 1446 | CSN1S1 |
| 0.406177606 | 0.014573246 | 0.039 | 1 | 3213 | HOXB3 |
| 0.405920206 | 0.014640456 | 0.039 | 1 | 7064 | THOP1 |
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| 0.405662806 | 0.01470793 | 0.052 | 1 | 9913 | SUPT7L |
| 0.405662806 | 0.01470793 | 0.052 | 1 | 222256 | CTA-351J1.1 |
| 0.405405405 | 0.014775667 | 0.047 | 1 | 199223 | TTC21A |
| 0.405148005 | 0.014843669 | 0.045 | 1 | 196403 | DTX3 |
| 0.404890605 | 0.014911937 | 0.054 | 1 | 27202 | GPR77 |
| 0.404633205 | 0.014980471 | 0.047 | 1 | 8292 | COLQ |
| 0.404633205 | 0.014980471 | 0.063 | 1 | 57113 | TRPC7 |
| 0.404633205 | 0.014980471 | 0.043 | 1 | 124930 | ANKRD13B |
| 0.404633205 | 0.014980471 | 0.049 | 1 | 219981 | OR5A2 |
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| 0.404375804 | 0.015049271 | 0.056 | 1 | 400120 | C13orf36 |
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| 0.403861004 | 0.015187677 | 0.038 | 1 | 26230 | TIAM2 |
| 0.403861004 | 0.015187677 | 0.047 | 1 | 117166 | WFIKKN1 |
| 0.403603604 | 0.015257284 | 0.048 | 1 | 2074 | ERCC6 |
| 0.403603604 | 0.015257284 | 0.061 | 1 | 9312 | KCNB2 |
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| 0.403603604 | 0.015257284 | 0.052 | 1 | 84285 | EIF1AD |
| 0.403603604 | 0.015257284 | 0.045 | 1 | 121457 | AC013283.1 |
| 0.403603604 | 0.015257284 | 0.061 | 1 | 100131289 | LOC100131289 |
| 0.403346203 | 0.015327161 | 0.05 | 1 | 83863 | TTTY5 |
| 0.403088803 | 0.01539731 | 0.063 | 1 | 151525 | WDSUB1 |
| 0.403088803 | 0.01539731 | 0.067 | 1 | 205860 | TRIML2 |
| 0.403088803 | 0.01539731 | 0.042 | 1 | 283143 | LOC283143 |
| 0.403088803 | 0.01539731 | 0.048 | 1 | 442517 | LOC442517 |
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| 0.402831403 | 0.01546773 | 0.046 | 1 | 55784 | MCTP2 |
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| 0.402316602 | 0.01560939 | 0.053 | 1 | 5071 | PARK2 |
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| 0.401544402 | 0.015823941 | 0.05 | 1 | 1386 | ATF2 |
| 0.401544402 | 0.015823941 | 0.029 | 1 | 3671 | ISLR |
| 0.401544402 | 0.015823941 | 0.056 | 1 | 30837 | SOCS7 |
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| 0.250432252 | 1.3091E-120 | 22992 | KDM2A |
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| 0.249909429 | 4.2471E-120 | 401498 | TMEM215 |
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| 0.2494942 | 1.0794E-119 | 55706 | TMEM48 |
| 0.249301095 | 1.6645E-119 | 100286979 | ANAPC1P1 |
| 0.249059817 | 2.8584E-119 | 337880 | KRTAP11-1 |
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| 0.24889005 | 4.1801E-119 | 3488 | IGFBP5 |
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| 0.248612791 | 7.7716E-119 | 401533 | LOC401533 |
| 0.248606989 | 7.873E-119 | 613038 | RP11-347C12.3 |
| 0.248112366 | 2.3754E-118 | 160418 | TMTC3 |
| 0.248095615 | 2.4659E-118 | 494118 | SPANXN1 |
| 0.248044526 | 2.7634E-118 | 84059 | GPR98 |
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| 0.247902524 | 3.7922E-118 | 26512 | INTS6 |
| 0.247804826 | 4.7142E-118 | 286887 | KRT6C |
| 0.247674371 | 6.3029E-118 | 5055 | SERPINB2 |
| 0.247609266 | 7.2856E-118 | 392376 | OR13C2 |
| 0.247587479 | 7.6475E-118 | 78990 | OTUB2 |
| 0.247492606 | 9.4442E-118 | 79810 | PTCD2 |
| 0.247454264 | 1.0285E-117 | 3853 | KRT6A |
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| 0.246872391 | 3.744E-117 | 56156 | TEX13B |
| 0.246870196 | 3.7623E-117 | 23314 | SATB2 |
| 0.246845854 | 3.971E-117 | 80727 | TTYH3 |
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| 0.246838577 | 4.0355E-117 | 9742 | IFT140 |
| 0.246837077 | 4.049E-117 | 10497 | UNC13B |
| 0.246800282 | 4.3931E-117 | 23216 | TBC1D1 |
| 0.246603806 | 6.7897E-117 | 1453 | CSNK1D |
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| 0.246397707 | 1.0715E-116 | 161142 | C14orf54 |
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| 0.246065608 | 2.2332E-116 | 550643 | LOC550643 |
| 0.245981806 | 2.6873E-116 | 997 | CDC34 |
| 0.24595259 | 2.8664E-116 | 100191040 | AL589765.4 |
| 0.245887674 | 3.3082E-116 | 5980 | REV3L |
| 0.245884929 | 3.3283E-116 | 119687 | OR51A7 |
| 0.245817212 | 3.8648E-116 | 84557 | MAP1LC3A |
| 0.245776884 | 4.2246E-116 | 151230 | KLHL23 |
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| 0.2457478 | 4.5045E-116 | 24145 | PANX1 |
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| 0.245528889 | 7.2996E-116 | 631 | BFSP1 |
| 0.245488254 | 7.9834E-116 | 8727 | CTNNAL1 |
| 0.24547883 | 8.151E-116 | 6621 | SNAPC4 |
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| 0.245418918 | 9.3011E-116 | 1662 | DDX10 |
| 0.245358252 | 1.0631E-115 | 123688 | AGPHD1 |
| 0.245236231 | 1.3907E-115 | 376267 | RAB15 |
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| 0.244925636 | 2.7538E-115 | 83394 | PITPNM3 |
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| 0.244845631 | 3.2831E-115 | 8895 | CPNE3 |
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| 0.244436196 | 8.0651E-115 | 339231 | ARL16 |
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| 0.244363444 | 9.4599E-115 | 122402 | TDRD9 |
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| 0.244200907 | 1.3508E-114 | 84318 | CCDC77 |
| 0.24397488 | 2.2157E-114 | 65266 | WNK4 |
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| 0.243881306 | 2.7191E-114 | 83988 | NCALD |
| 0.243546301 | 5.6549E-114 | 83850 | ESYT3 |
| 0.24322154 | 1.1488E-113 | 22906 | TRAK1 |
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| 0.401029601 | 0.015968358 | 0.061 | 1 | 494119 | SPANXN2 |
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| 0.400514801 | 0.01611389 | 0.079 | 1 | 55764 | IFT122 |
| 0.400514801 | 0.01611389 | 0.046 | 1 | 57093 | TRIM49 |
| 0.400514801 | 0.01611389 | 0.053 | 1 | 65989 | DLK2 |
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| 0.399227799 | 0.016482642 | 0.055 | 1 | 4088 | SMAD3 |
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| 0.398198198 | 0.01678276 | 0.05 | 1 | 57097 | PARP11 |
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| 0.397683398 | 0.016934544 | 0.053 | 1 | 57497 | LRFN2 |
| 0.397683398 | 0.016934544 | 0.039 | 1 | 58538 | MPP4 |
| 0.397425997 | 0.01701087 | 0.055 | 1 | 744 | MPPED2 |
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| 0.397168597 | 0.017087487 | 0.064 | 1 | 375295 | LOC375295 |
| 0.396911197 | 0.017164395 | 0.053 | 1 | 2903 | GRIN2A |
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| 0.396396396 | 0.01731909 | 0.061 | 1 | 3851 | KRT4 |
| 0.396396396 | 0.01731909 | 0.06 | 1 | 387885 | CCDC42B |
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| 0.396138996 | 0.017396878 | 0.073 | 1 | 1010 | CDH12 |
| 0.396138996 | 0.017396878 | 0.048 | 1 | 550631 | CCDC157 |
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| 0.395624196 | 0.017553339 | 0.068 | 1 | 60526 | C2orf43 |
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| 0.395109395 | 0.017710987 | 0.056 | 1 | 7008 | TEF |
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| 0.394079794 | 0.018029871 | 0.056 | 1 | 79078 | C1orf50 |
| 0.394079794 | 0.018029871 | 0.053 | 1 | 379025 | RP11-349A22.5 |
| 0.393822394 | 0.018110345 | 0.063 | 1 | 5891 | RAGE |
| 0.393822394 | 0.018110345 | 0.055 | 1 | 10808 | HSPH1 |
| 0.393564994 | 0.018191122 | 0.059 | 1 | 388581 | FAM132A |
| 0.393564994 | 0.018191122 | 0.069 | 1 | 646174 | C16orf90 |
| 0.393307593 | 0.018272202 | 0.046 | 1 | 57466 | SFRS15 |
| 0.393307593 | 0.018272202 | 0.058 | 1 | 57469 | PNMAL2 |
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| 0.241741107 | 2.868E-112 | 55010 | C12orf48 |
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| 0.24143322 | 5.5845E-112 | 2515 | ADAM2 |
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| 0.240021077 | 1.1724E-110 | 11166 | SOX21 |
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| 0.239888824 | 1.5576E-110 | 84326 | C16orf13 |
| 0.239880598 | 1.5853E-110 | 25758 | C11orf41 |
| 0.23978733 | 1.9368E-110 | 25940 | FAM98A |
| 0.239727305 | 2.203E-110 | 65264 | UBE2Z |
| 0.239289586 | 5.6299E-110 | 150538 | AC017096.1 |
| 0.239047857 | 9.4445E-110 | 112936 | VPS26B |
| 0.239029559 | 9.8215E-110 | 219431 | OR4S2 |
| 0.23890733 | 1.2755E-109 | 84790 | TUBA1C |
| 0.23889364 | 1.3134E-109 | 6051 | RNPEP |
| 0.238660527 | 2.161E-109 | 283284 | IGSF22 |
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| 0.238582675 | 2.5517E-109 | 3909 | LAMA3 |
| 0.238554953 | 2.7072E-109 | 26167 | PCDHB5 |
| 0.238501641 | 3.0334E-109 | 2865 | AC002511.1 |
| 0.238448367 | 3.3985E-109 | 378807 | CATSPER4 |
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| 0.23812635 | 6.7508E-109 | 55346 | TCP11L1 |
| 0.238106212 | 7.0466E-109 | 5297 | PI4KA |
| 0.238011948 | 8.6127E-109 | 10318 | TNIP1 |
| 0.237656273 | 1.8351E-108 | 22903 | BTBD3 |
| 0.237651188 | 1.8551E-108 | 2590 | GALNT2 |
| 0.237415515 | 3.0601E-108 | 153396 | TMEM161B |
| 0.237039169 | 6.7977E-108 | 1428 | CRYM |
| 0.236884336 | 9.436E-108 | 83877 | TM2D2 |
| 0.236867285 | 9.7829E-108 | 152641 | C4ORF38 |
| 0.236796185 | 1.1372E-107 | 147372 | CCBE1 |
| 0.236789611 | 1.1531E-107 | 55662 | HIF1AN |
| 0.236756699 | 1.2363E-107 | 8508 | NIPSNAP1 |
| 0.236714792 | 1.3509E-107 | 5899 | RALB |
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| 0.236336876 | 3.003E-107 | 112 | ADCY6 |
| 0.23633307 | 3.0273E-107 | 79827 | AP000926.2 |
| 0.236248887 | 3.6161E-107 | 9145 | SYNGR1 |
| 0.236076236 | 5.2056E-107 | 59336 | PRDM13 |
| 0.236075348 | 5.2153E-107 | 647476 | FLJ20518 |
| 0.236065156 | 5.3286E-107 | 25930 | PTPN23 |
| 0.236058779 | 5.4008E-107 | 1128 | CHRM1 |
| 0.236013901 | 5.9369E-107 | 84934 | C12orf52 |
| 0.235959833 | 6.6538E-107 | 730101 | RP1-152L7.5 |
| 0.235926142 | 7.1435E-107 | 3641 | INSL4 |
| 0.235649047 | 1.2806E-106 | 84253 | GARNL3 |
| 0.235522969 | 1.6697E-106 | 10463 | SLC30A9 |
| 0.235458151 | 1.9136E-106 | 84084 | RAB6C |
| 0.235411854 | 2.1092E-106 | 7141 | TNP1 |
| 0.23538437 | 2.2347E-106 | 10559 | SLC35A1 |
| 0.23519 | 3.3621E-106 | 1173 | AP2M1 |
| 0.235065684 | 4.365E-106 | 23185 | LARP4B |
| 0.235014582 | 4.8592E-106 | 344382 | LOC344382 |
| 0.235013241 | 4.8729E-106 | 4277 | MICB |
| 0.234871232 | 6.5642E-106 | 283177 | LOC283177 |
| 0.234688258 | 9.6333E-106 | 84530 | KIAA1853 |
| 0.234660601 | 1.0208E-105 | 284067 | C17orf105 |
| 0.234344266 | 1.9796E-105 | 338442 | NIACR2 |
| 0.234230787 | 2.5099E-105 | 5045 | FURIN |
| 0.23417883 | 2.7979E-105 | 55237 | C14orf115 |
| 0.234071227 | 3.5034E-105 | 10974 | C10orf116 |

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| 0.392020592 | 0.01868219 | 0.055 | 1 | 1848 | DUSP6 |
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| 0.391505792 | 0.018848343 | 0.063 | 1 | 4867 | NPHP1 |
| 0.391505792 | 0.018848343 | 0.068 | 1 | 80776 | B9D2 |
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| 0.391248391 | 0.018931885 | 0.063 | 1 | 200523 | C2orf51 |
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| 0.390733591 | 0.019099906 | 0.065 | 1 | 1852 | DUSP9 |
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| 0.390733591 | 0.019099906 | 0.048 | 1 | 57628 | DPP10 |
| 0.39047619 | 0.019184386 | 0.055 | 1 | 8976 | WASL |
| 0.39047619 | 0.019184386 | 0.055 | 1 | 126003 | TRAPPC5 |
| 0.39021879 | 0.019269181 | 0.053 | 1 | 27087 | B3GAT1 |
| 0.38996139 | 0.019354291 | 0.057 | 1 | 2121 | EVC |
| 0.38996139 | 0.019354291 | 0.059 | 1 | 5212 | VIT |
| 0.38996139 | 0.019354291 | 0.065 | 1 | 26276 | VPS33B |
| 0.38996139 | 0.019354291 | 0.08 | 1 | 90768 | MGC45800 |
| 0.38970399 | 0.019439717 | 0.053 | 1 | 8061 | FOSL1 |
| 0.38970399 | 0.019439717 | 0.044 | 1 | 57544 | TXNDC16 |
| 0.389446589 | 0.01952546 | 0.045 | 1 | 56888 | KCMF1 |
| 0.389446589 | 0.01952546 | 0.079 | 1 | 168474 | SEPHS1P1 |
| 0.389189189 | 0.019611522 | 0.067 | 1 | 7343 | UBTF |
| 0.389189189 | 0.019611522 | 0.078 | 1 | 9211 | LGI1 |
| 0.389189189 | 0.019611522 | 0.059 | 1 | 348094 | ANKDD1A |
| 0.388931789 | 0.019697903 | 0.068 | 1 | 627 | BDNF |
| 0.388931789 | 0.019697903 | 0.062 | 1 | 23160 | WDR43 |
| 0.388931789 | 0.019697903 | 0.062 | 1 | 57717 | PCDHB16 |
| 0.388674389 | 0.019784603 | 0.065 | 1 | 10591 | C6orf108 |
| 0.388674389 | 0.019784603 | 0.071 | 1 | 29109 | FHOD1 |
| 0.388674389 | 0.019784603 | 0.052 | 1 | 55294 | FBXW7 |
| 0.388416988 | 0.019871624 | 0.063 | 1 | 140885 | SIRPA |
| 0.388416988 | 0.019871624 | 0.051 | 1 | 643376 | AP001931.1 |
| 0.388159588 | 0.019958968 | 0.072 | 1 | 6000 | RGS7 |
| 0.388159588 | 0.019958968 | 0.058 | 1 | 200420 | ALMS1P |
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| 0.387644788 | 0.020134623 | 0.052 | 1 | 6643 | SNX2 |
| 0.387644788 | 0.020134623 | 0.061 | 1 | 645832 | SEBOX |
| 0.387387387 | 0.020222937 | 0.05 | 1 | 8581 | LY6D |
| 0.387387387 | 0.020222937 | 0.069 | 1 | 9819 | TSC22D2 |
| 0.387387387 | 0.020222937 | 0.061 | 1 | 157627 | RP11-403C10.2 |
| 0.387129987 | 0.020311576 | 0.055 | 1 | 6812 | STXBP1 |
| 0.387129987 | 0.020311576 | 0.062 | 1 | 10926 | DBF4 |
| 0.386615187 | 0.020489835 | 0.063 | 1 | 728568 | C12orf73 |
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| 0.385842986 | 0.020759688 | 0.064 | 1 | 3607 | FOXK2 |
| 0.385585586 | 0.020850299 | 0.049 | 1 | 3642 | INSM1 |
| 0.385328185 | 0.020941243 | 0.068 | 1 | 673 | BRAF |
| 0.385328185 | 0.020941243 | 0.071 | 1 | 84626 | KRBA1 |
| 0.385070785 | 0.021032519 | 0.066 | 1 | 27018 | NGFRAP1 |
| 0.385070785 | 0.021032519 | 0.064 | 1 | 54777 | C10orf92 |
| 0.385070785 | 0.021032519 | 0.064 | 1 | 56704 | JPH1 |
| 0.385070785 | 0.021032519 | 0.062 | 1 | 63891 | RNF123 |
| 0.385070785 | 0.021032519 | 0.063 | 1 | 63982 | ANO3 |
| 0.385070785 | 0.021032519 | 0.047 | 1 | 91695 | RRP7B |
| 0.384813385 | 0.021124129 | 0.075 | 1 | 23209 | MLC1 |
| 0.384813385 | 0.021124129 | 0.053 | 1 | 134111 | UBE2QL1 |
| 0.384813385 | 0.021124129 | 0.05 | 1 | 255374 | MBLAC1 |
| 0.384555985 | 0.021216074 | 0.051 | 1 | 4151 | MB |
| 0.384555985 | 0.021216074 | 0.066 | 1 | 9447 | AIM2 |
| 0.384555985 | 0.021216074 | 0.061 | 1 | 26098 | C10orf137 |
| 0.384555985 | 0.021216074 | 0.058 | 1 | 83539 | CHST9 |
| 0.384555985 | 0.021216074 | 0.064 | 1 | 93627 | AC004053.1 |
| 0.384555985 | 0.021216074 | 0.081 | 1 | 642280 | ZNF876P |
| 0.384298584 | 0.021308355 | 0.045 | 1 | 5601 | MAPK9 |
| 0.384298584 | 0.021308355 | 0.066 | 1 | 10495 | ENOX2 |
| 0.384298584 | 0.021308355 | 0.06 | 1 | 51332 | SPTBN5 |
| 0.384298584 | 0.021308355 | 0.051 | 1 | 729141 | LOC729141 |
| 0.384041184 | 0.021400972 | 0.048 | 1 | 1000 | CDH2 |
| 0.384041184 | 0.021400972 | 0.062 | 1 | 84665 | MYPN |
| 0.384041184 | 0.021400972 | 0.064 | 1 | 85004 | RERG |
| 0.383783784 | 0.021493927 | 0.064 | 1 | 7164 | TPD52L1 |
| 0.383783784 | 0.021493927 | 0.063 | 1 | 7306 | TYRP1 |
| 0.383783784 | 0.021493927 | 0.052 | 1 | 23359 | FAM189A1 |
| 0.383783784 | 0.021493927 | 0.074 | 1 | 149018 | LELP1 |
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| 0.383526384 | 0.021587221 | 0.058 | 1 | 51275 | C12ORF47 |
| 0.383526384 | 0.021587221 | 0.06 | 1 | 55521 | TRIM36 |
| 0.383526384 | 0.021587221 | 0.061 | 1 | 149647 | FAM71A |
| 0.383268983 | 0.021680854 | 0.065 | 1 | 85290 | KRTAP4-3 |

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| 0.234063809 | 3.5581E-105 | 1020 | CDK5 |
| 0.233944325 | 4.5668E-105 | 729595 | HMGB3P22 |
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| 0.233917565 | 4.8292E-105 | 440 | ASNS |
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| 0.233731314 | 7.1233E-105 | 283970 | PDXDC2 |
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| 0.233153355 | 2.3744E-104 | 2587 | GALR1 |
| 0.23310828 | 2.6078E-104 | 146713 | AC021534.2 |
| 0.233088876 | 2.7152E-104 | 149647 | FAM71A |
| 0.232962395 | 3.5319E-104 | 727957 | HEATR7A |
| 0.232837293 | 4.5803E-104 | 3093 | UBE2K |
| 0.232756869 | 5.4128E-104 | 9678 | PHF14 |
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| 0.232703033 | 6.0529E-104 | 182 | JAG1 |
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| 0.232054799 | 2.3198E-103 | 2688 | GH1 |
| 0.231985556 | 2.6772E-103 | 55827 | IQWD1 |
| 0.231953808 | 2.8589E-103 | 7567 | ZNF19 |
| 0.231827385 | 3.713E-103 | 256329 | C11orf35 |
| 0.231808828 | 3.8582E-103 | 9097 | USP14 |
| 0.231808014 | 3.8647E-103 | 51085 | MLXIPL |
| 0.23171487 | 4.685E-103 | 1429 | CRYZ |
| 0.231564454 | 6.3918E-103 | 337972 | KRTAP19-5 |
| 0.231518854 | 7.0227E-103 | 22920 | KIFAP3 |
| 0.23138802 | 9.1993E-103 | 4361 | MRE11A |
| 0.231028097 | 1.9316E-102 | 285190 | RGPD4 |
| 0.230746589 | 3.4475E-102 | 246705 | LINC00314 |
| 0.230538928 | 5.2829E-102 | 23784 | POTEH |
| 0.230451541 | 6.3216E-102 | 50650 | ARHGEF3 |
| 0.230398222 | 7.053E-102 | 92345 | NAF1 |
| 0.230283976 | 8.9168E-102 | 55450 | CAMK2N1 |
| 0.230260188 | 9.3628E-102 | 54521 | WDR44 |
| 0.23021958 | 1.0176E-101 | 3675 | ITGA3 |
| 0.229932105 | 1.8345E-101 | 116519 | APOA5 |
| 0.22977265 | 2.5428E-101 | 9215 | LARGE |
| 0.22971142 | 2.8822E-101 | 57157 | PHTF2 |
| 0.229703789 | 2.9276E-101 | 197131 | UBR1 |
| 0.229107218 | 9.9057E-101 | 63973 | NEUROG2 |
| 0.229034177 | 1.1497E-100 | 5923 | RASGRF1 |
| 0.229031046 | 1.1571E-100 | 401565 | FAM166A |
| 0.229016172 | 1.1927E-100 | 401335 | C7orf65 |
| 0.229013832 | 1.1984E-100 | 79786 | KLHL36 |
| 0.228953611 | 1.355E-100 | 23550 | PSD4 |
| 0.228924403 | 1.4382E-100 | 392335 | MYO5BP2 |
| 0.228732434 | 2.1266E-100 | 374569 | ASPG |
| 0.228671652 | 2.4068E-100 | 221955 | DAGLB |
| 0.228616192 | 2.6944E-100 | 7291 | TWIST1 |
| 0.228391036 | 4.2598E-100 | 91057 | CCDC34 |
| 0.228346738 | 4.6613E-100 | 9743 | AP000751.3 |
| 0.228284685 | 5.2878E-100 | 132864 | CPEB2 |
| 0.228215657 | 6.084E-100 | 146849 | CCDC42 |
| 0.228175056 | 6.6071E-100 | 220388 | CCDC89 |
| 0.228107459 | 7.5792E-100 | 90353 | ATPBD3 |
| 0.227778386 | 1.4777E-99 | 8792 | TNFRSF11A |
| 0.227688529 | 1.7728E-99 | 219957 | OR9Q2 |
| 0.227490714 | 2.6465E-99 | 5013 | OTX1 |
| 0.22744792 | 2.8859E-99 | 494143 | CHAC2 |
| 0.227351576 | 3.5071E-99 | 11034 | DSTN |
| 0.227347578 | 3.5356E-99 | 729806 | ZNF731P |
| 0.22728904 | 3.9801E-99 | 92370 | ACPL2 |
| 0.227269384 | 4.1414E-99 | 8650 | NUMB |
| 0.227137374 | 5.4082E-99 | 152579 | SCFD2 |
| 0.227121639 | 5.5829E-99 | 441168 | FAM26F |
| 0.22699977 | 7.1414E-99 | 341152 | OR2AT4 |
| 0.226909802 | 8.5639E-99 | 65998 | C11orf95 |
| 0.22688621 | 8.9816E-99 | 23566 | LPAR3 |
| 0.226875576 | 9.1765E-99 | 449520 | GGNBP1 |
| 0.226706722 | 1.29011E-98 | 10955 | SERINC3 |
| 0.226632457 | 1.4985E-98 | 1609 | DGKQ |
| 0.2265962 | 1.61213E-98 | 5864 | RAB3A |
| 0.226390606 | 2.43938E-98 | 79959 | CEP76 |
| 0.22616732 | 3.82326E-98 | 23162 | MAPK8IP3 |
| 0.225953216 | 5.8798E-98 | 282775 | OR5J2 |
| 0.225844745 | 7.31126E-98 | 148534 | TMEM56 |
| 0.225789789 | 8.16427E-98 | 3607 | FOXK2 |
| 0.225583301 | 1.23557E-97 | 192683 | SCAMP5 |
| 0.225433008 | 1.67006E-97 | 6423 | SFRP2 |

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| 0.383011583 | 0.021774827 | 0.064 | 1 | 776 | CACNA1D |
| 0.383011583 | 0.021774827 | 0.068 | 1 | 1730 | DIAPH2 |
| 0.383011583 | 0.021774827 | 0.049 | 1 | 7637 | ZNF84 |
| 0.383011583 | 0.021774827 | 0.066 | 1 | 114821 | SCAND3 |
| 0.382754183 | 0.021869142 | 0.074 | 1 | 7644 | ZNF91 |
| 0.382754183 | 0.021869142 | 0.056 | 1 | 23152 | CIC |
| 0.382754183 | 0.021869142 | 0.064 | 1 | 728361 | OVOL3 |
| 0.382496782 | 0.021963799 | 0.071 | 1 | 126433 | FBXO27 |
| 0.382239382 | 0.022058799 | 0.063 | 1 | 8453 | CUL2 |
| 0.382239382 | 0.022058799 | 0.076 | 1 | 51105 | PHF20L1 |
| 0.382239382 | 0.022058799 | 0.07 | 1 | 145483 | FAM161B |
| 0.381981982 | 0.022154143 | 0.073 | 1 | 115 | ADCY9 |
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| 0.381981982 | 0.022154143 | 0.062 | 1 | 27346 | TMEM97 |
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| 0.381724582 | 0.022249833 | 0.057 | 1 | 64699 | TMPRSS3 |
| 0.381724582 | 0.022249833 | 0.059 | 1 | 85452 | C1orf222 |
| 0.381467181 | 0.022345869 | 0.071 | 1 | 54843 | SYTL2 |
| 0.381467181 | 0.022345869 | 0.08 | 1 | 79705 | LRRK1 |
| 0.381467181 | 0.022345869 | 0.055 | 1 | 95681 | TSGA14 |
| 0.381209781 | 0.022442252 | 0.068 | 1 | 55345 | C4orf21 |
| 0.381209781 | 0.022442252 | 0.051 | 1 | 55670 | PEX26 |
| 0.380952381 | 0.022538983 | 0.068 | 1 | 10202 | DHRS2 |
| 0.380952381 | 0.022538983 | 0.067 | 1 | 10966 | RAB40B |
| 0.380952381 | 0.022538983 | 0.067 | 1 | 154796 | AMOT |
| 0.380952381 | 0.022538983 | 0.056 | 1 | 222255 | ATXN7L1 |
| 0.380694981 | 0.022636063 | 0.066 | 1 | 2915 | GRM5 |
| 0.380694981 | 0.022636063 | 0.067 | 1 | 83698 | CALN1 |
| 0.380694981 | 0.022636063 | 0.077 | 1 | 93145 | OLFM2 |
| 0.380694981 | 0.022636063 | 0.077 | 1 | 158326 | FREM1 |
| 0.38043758 | 0.022733493 | 0.05 | 1 | 8512 | MBL1P |
| 0.38043758 | 0.022733493 | 0.065 | 1 | 440279 | UNC13C |
| 0.38018018 | 0.022831274 | 0.077 | 1 | 9371 | KIF3B |
| 0.38018018 | 0.022831274 | 0.091 | 1 | 54020 | SLC37A1 |
| 0.38018018 | 0.022831274 | 0.079 | 1 | 55259 | CASC1 |
| 0.38018018 | 0.022831274 | 0.069 | 1 | 257019 | FRMD3 |
| 0.38018018 | 0.022831274 | 0.062 | 1 | 400745 | SH2D5 |
| 0.37966538 | 0.023027892 | 0.063 | 1 | 10563 | CXCL13 |
| 0.37966538 | 0.023027892 | 0.069 | 1 | 54715 | A2BP1 |
| 0.37966538 | 0.023027892 | 0.064 | 1 | 79368 | FCRL2 |
| 0.379150579 | 0.023225926 | 0.078 | 1 | 138307 | LCN8 |
| 0.378893179 | 0.023325476 | 0.061 | 1 | 64750 | SMURF2 |
| 0.378893179 | 0.023325476 | 0.071 | 1 | 221692 | PHACTR1 |
| 0.378635779 | 0.023425383 | 0.067 | 1 | 7220 | TRPC1 |
| 0.378635779 | 0.023425383 | 0.067 | 1 | 54510 | PCDH18 |
| 0.378635779 | 0.023425383 | 0.074 | 1 | 440145 | C13orf37 |
| 0.378378378 | 0.023525648 | 0.061 | 1 | 3835 | KIF22 |
| 0.378378378 | 0.023525648 | 0.074 | 1 | 4610 | MYCL1 |
| 0.378378378 | 0.023525648 | 0.06 | 1 | 22829 | NLGN4Y |
| 0.378378378 | 0.023525648 | 0.078 | 1 | 400624 | FLJ45079 |
| 0.378120978 | 0.023626271 | 0.054 | 1 | 8317 | CDC7 |
| 0.378120978 | 0.023626271 | 0.059 | 1 | 122481 | AK7 |
| 0.377863578 | 0.023727254 | 0.076 | 1 | 901 | CCNG2 |
| 0.377863578 | 0.023727254 | 0.082 | 1 | 5575 | PRKAR1B |
| 0.377863578 | 0.023727254 | 0.066 | 1 | 54704 | PDP1 |
| 0.377863578 | 0.023727254 | 0.089 | 1 | 126520 | PLK5P |
| 0.377863578 | 0.023727254 | 0.081 | 1 | 404281 | YY2 |
| 0.377606178 | 0.023828597 | 0.073 | 1 | 9898 | UBAP2L |
| 0.377348777 | 0.023930303 | 0.081 | 1 | 57699 | CPNE5 |
| 0.377091377 | 0.02403237 | 0.061 | 1 | 10079 | ATP9A |
| 0.377091377 | 0.02403237 | 0.075 | 1 | 317754 | POTED |
| 0.376833977 | 0.024134802 | 0.068 | 1 | 9537 | TP53I11 |
| 0.376833977 | 0.024134802 | 0.076 | 1 | 22990 | PCNX |
| 0.376576577 | 0.024237598 | 0.081 | 1 | 116143 | WDR92 |
| 0.376576577 | 0.024237598 | 0.076 | 1 | 375287 | RBM43 |
| 0.376319176 | 0.024340759 | 0.061 | 1 | 280660 | SSX9 |
| 0.376061776 | 0.024444288 | 0.081 | 1 | 5179 | PENK |
| 0.376061776 | 0.024444288 | 0.067 | 1 | 6146 | RPL22 |
| 0.376061776 | 0.024444288 | 0.057 | 1 | 10022 | INSL5 |
| 0.376061776 | 0.024444288 | 0.074 | 1 | 340529 | PABPC1L2A |
| 0.375804376 | 0.024548183 | 0.06 | 1 | 23396 | PIP5K1C |
| 0.375546976 | 0.024652447 | 0.085 | 1 | 316 | AOX1 |
| 0.375546976 | 0.024652447 | 0.06 | 1 | 79786 | KLHL36 |
| 0.375546976 | 0.024652447 | 0.063 | 1 | 150280 | HORMAD2 |
| 0.375546976 | 0.024652447 | 0.061 | 1 | 728024 | LOC728024 |
| 0.375289575 | 0.024757081 | 0.078 | 1 | 2066 | ERBB4 |
| 0.375289575 | 0.024757081 | 0.084 | 1 | 55184 | C20orf12 |
| 0.375289575 | 0.024757081 | 0.067 | 1 | 79850 | FAM57A |
| 0.375289575 | 0.024757081 | 0.09 | 1 | 220323 | OAF |
| 0.375032175 | 0.024862085 | 0.076 | 1 | 6515 | SLC2A3 |
| 0.375032175 | 0.024862085 | 0.073 | 1 | 10911 | UTS2 |

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| 0.371428571 | 0.026371608 | 0.077 | 1 | 2556 | GABRA3 |
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| 0.217288511 | 1.48295E-90 | 10783 | NEK6 |
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| 0.364221364 | 0.029620196 | 0.074 | 1 | 80315 | CPEB4 |
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| 0.363191763 | 0.030110275 | 0.064 | 1 | 29903 | CCDC106 |
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| 0.361132561 | 0.031110601 | 0.084 | 1 | 7532 | YWHAG |
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| 0.360875161 | 0.031237553 | 0.066 | 1 | 644890 | MEIG1 |
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| 0.360617761 | 0.031364933 | 0.072 | 1 | 118472 | ZNF511 |
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| 0.35984556 | 0.031749655 | 0.086 | 1 | 65992 | DDRGK1 |
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| 0.358815959 | 0.032268678 | 0.092 | 1 | 8671 | SLC4A4 |
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| 0.336422136 | 0.045407818 | 0.096 | 1 | 401533 | LOC401533 |
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| 0.334105534 | 0.046985227 | 0.103 | 1 | 150275 | CCDC117 |
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| 0.199243876 | 3.76178E-76 | 7142 | TNP2 |
| 0.199233905 | 3.82807E-76 | 9677 | HISPPD2A |
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| 0.325096525 | 0.053547516 | 0.121 | 1 | 84456 | L3MBTL3 |
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| 0.323809524 | 0.0545425 | 0.109 | 1 | 9545 | RAB3D |
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| 0.322779923 | 0.055349154 | 0.109 | 1 | 129285 | KLRAQ1 |
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| 0.322265122 | 0.055756064 | 0.097 | 1 | 94097 | SFXN5 |
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| 0.190267125 | 1.73977E-69 | 375298 | CERKL |
| 0.190227526 | 1.85851E-69 | 55998 | NXF5 |
| 0.190196249 | 1.95797E-69 | 83852 | SETDB2 |
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| 0.315315315 | 0.061488294 | 0.146 | 1 | 80023 | NRSN2 |
| 0.315315315 | 0.061488294 | 0.16 | 1 | 100131176 | RP4-555L14.5 |
| 0.315057915 | 0.061709313 | 0.115 | 1 | 8682 | PEA15 |
| 0.315057915 | 0.061709313 | 0.145 | 1 | 9585 | KIF20B |
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| 0.313513514 | 0.063048786 | 0.123 | 1 | 9693 | RAPGEF2 |
| 0.313256113 | 0.06327427 | 0.138 | 1 | 2695 | GIP |
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| 0.313256113 | 0.06327427 | 0.113 | 1 | 9722 | NOS1AP |
| 0.313256113 | 0.06327427 | 0.136 | 1 | 54798 | DCHS2 |
| 0.313256113 | 0.06327427 | 0.148 | 1 | 84866 | TMEM25 |
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| 0.312998713 | 0.063500396 | 0.12 | 1 | 51514 | DTL |
| 0.312741313 | 0.063727166 | 0.147 | 1 | 2850 | GPR27 |
| 0.312741313 | 0.063727166 | 0.159 | 1 | 79085 | SLC25A23 |
| 0.312483912 | 0.063954581 | 0.129 | 1 | 645426 | TMEM191C |
| 0.312226512 | 0.064182643 | 0.136 | 1 | 51750 | RTEL1 |
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| 0.187352532 | 2.15712E-67 | 170691 | ADAMTS17 |
| 0.187287108 | 2.40143E-67 | 2355 | FOSL2 |
| 0.187228439 | 2.64386E-67 | 84306 | PDCD2L |
| 0.187221455 | 2.6743E-67 | 79690 | GAL3ST4 |
| 0.187170669 | 2.90639E-67 | 390243 | FOLR4 |
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| 0.186988447 | 3.91701E-67 | 55049 | C19orf60 |
| 0.186967623 | 4.05281E-67 | 137868 | SGCZ |
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| 0.18686971 | 4.75697E-67 | 387885 | CCDC42B |
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| 0.186572347 | 7.73374E-67 | 113091 | PTH2 |
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| 0.186324497 | 1.15886E-66 | 120796 | OR56A1 |
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| 0.186270549 | 1.26541E-66 | 3631 | INPP4A |
| 0.186252816 | 1.30252E-66 | 55785 | FGD6 |
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| 0.186138574 | 1.56901E-66 | 5511 | PPP1R8 |
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| 0.184414717 | 2.56503E-65 | 4534 | MTM1 |
| 0.184381754 | 2.70507E-65 | 152118 | RP11-292E2.1 |
| 0.184264709 | 3.26677E-65 | 343990 | C2orf55 |
| 0.184256613 | 3.30966E-65 | 51646 | YPEL5 |
| 0.184215295 | 3.53749E-65 | 55171 | TBCCD1 |
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| 0.311454311 | 0.064870717 | 0.124 | 1 | 342926 | ZNF677 |
| 0.311196911 | 0.065101376 | 0.149 | 1 | 10777 | ARPP-21 |
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| 0.31042471 | 0.065797273 | 0.146 | 1 | 10636 | RGS14 |
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| 0.308365508 | 0.067681951 | 0.127 | 1 | 346329 | LOC346329 |
| 0.308108108 | 0.06792052 | 0.142 | 1 | 51633 | OTUD6B |
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| 0.307850708 | 0.068159755 | 0.144 | 1 | 64778 | FNDC3B |
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| 0.307335907 | 0.068640231 | 0.149 | 1 | 29855 | UBN1 |
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| 0.307078507 | 0.068881474 | 0.137 | 1 | 10772 | FUSIP1 |
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| 0.306563707 | 0.069365978 | 0.157 | 1 | 8707 | B3GALT2 |
| 0.306563707 | 0.069365978 | 0.14 | 1 | 55930 | MYO5C |
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| 0.182639868 | 4.42497E-64 | 256051 | ZNF549 |
| 0.182355257 | 6.96725E-64 | 5877 | RABIF |
| 0.182296204 | 7.65468E-64 | 10771 | ZMYND11 |
| 0.182210971 | 8.76768E-64 | 29886 | SNX8 |
| 0.182150973 | 9.64648E-64 | 388327 | C17orf100 |
| 0.181988776 | 1.24866E-63 | 112849 | C14orf149 |
| 0.18196959 | 1.28734E-63 | 57626 | KLHL1 |
| 0.181906562 | 1.42302E-63 | 6175 | RPLP0P3 |
| 0.181880678 | 1.48279E-63 | 27067 | STAU2 |
| 0.181772874 | 1.7598E-63 | 80776 | B9D2 |
| 0.181756178 | 1.80709E-63 | 11103 | KRR1 |
| 0.181692044 | 2.00081E-63 | 347365 | ITIH5L |
| 0.181640407 | 2.17171E-63 | 22853 | LMTK2 |
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| 0.181493955 | 2.73969E-63 | 54555 | DDX49 |
| 0.181402727 | 3.16599E-63 | 84561 | SLC12A8 |
| 0.181358291 | 3.39697E-63 | 10193 | RNF41 |
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| 0.180688557 | 9.79587E-63 | 11334 | TUSC2 |
| 0.18047959 | 1.36203E-62 | 9853 | RUSC2 |
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| 0.180076632 | 2.56872E-62 | 51154 | MRTO4 |
| 0.180035443 | 2.74059E-62 | 30845 | EHD3 |
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| 0.180011543 | 2.84552E-62 | 51555 | PEX5L |
| 0.179889963 | 3.44456E-62 | 574406 | C1orf138 |
| 0.179874186 | 3.53099E-62 | 80344 | WDR23 |
| 0.1798371 | 3.74276E-62 | 23072 | HECW1 |
| 0.179830983 | 3.77888E-62 | 25943 | C20orf194 |
| 0.179816539 | 3.86558E-62 | 10940 | POP1 |
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| 0.179583984 | 5.56786E-62 | 393046 | OR2A5 |
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| 0.179347043 | 8.071E-62 | 7710 | ZNF154 |
| 0.179319761 | 8.42322E-62 | 8925 | HERC1 |
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| 0.179153208 | 1.09311E-61 | 387601 | SLC22A25 |
| 0.179088891 | 1.20877E-61 | 26032 | SUSD5 |
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| 0.17900705 | 1.37373E-61 | 2835 | GPR12 |
| 0.179001661 | 1.38535E-61 | 8365 | HIST1H4H |
| 0.178996679 | 1.39617E-61 | 3062 | HCRTR2 |
| 0.178949545 | 1.50287E-61 | 729583 | C6orf100 |
| 0.178939409 | 1.52685E-61 | 5293 | PIK3CD |
| 0.178869777 | 1.70226E-61 | 4104 | MAGEA5 |
| 0.178628187 | 2.48161E-61 | 116412 | ZNF837 |
| 0.178611552 | 2.54681E-61 | 29081 | METTL5 |
| 0.178611439 | 2.54726E-61 | 440699 | LRRC52 |
| 0.178580704 | 2.67228E-61 | 8562 | DENR |
| 0.178573182 | 2.70379E-61 | 57520 | HECW2 |
| 0.178542407 | 2.83664E-61 | 64241 | ABCG8 |
| 0.178503138 | 3.01563E-61 | 26043 | UBXN7 |
| 0.178422978 | 3.41668E-61 | 440345 | 61E3.4 |
| 0.178419198 | 3.43685E-61 | 100170841 | C17orf96 |
| 0.178416956 | 3.44887E-61 | 117579 | RLN3 |
| 0.178390586 | 3.59344E-61 | 26093 | CCDC9 |
| 0.178328148 | 3.96024E-61 | 57325 | CSRP2BP |
| 0.178307263 | 4.09108E-61 | 51534 | VTA1 |
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| 0.302960103 | 0.072833578 | 0.144 | 1 | 26993 | AKAP8L |
| 0.302960103 | 0.072833578 | 0.147 | 1 | 55742 | PARVA |
| 0.302960103 | 0.072833578 | 0.153 | 1 | 79661 | NEIL1 |
| 0.302960103 | 0.072833578 | 0.131 | 1 | 399818 | METTL10 |
| 0.302702703 | 0.073086409 | 0.138 | 1 | 84993 | UBL7 |
| 0.302702703 | 0.073086409 | 0.131 | 1 | 342667 | STAC2 |
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| 0.301930502 | 0.073849064 | 0.136 | 1 | 90480 | GADD45GIP1 |
| 0.301673102 | 0.074104674 | 0.151 | 1 | 4291 | MLF1 |
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| 0.301415701 | 0.07436098 | 0.15 | 1 | 6904 | TBCD |
| 0.300900901 | 0.074875691 | 0.145 | 1 | 9899 | SV2B |
| 0.300900901 | 0.074875691 | 0.138 | 1 | 56260 | C8orf44 |
| 0.300900901 | 0.074875691 | 0.158 | 1 | 79607 | FAM118B |
| 0.300643501 | 0.075134098 | 0.145 | 1 | 9732 | DOCK4 |
| 0.300643501 | 0.075134098 | 0.125 | 1 | 9834 | KIAA0125 |
| 0.300643501 | 0.075134098 | 0.153 | 1 | 80142 | PTGES2 |
| 0.3003861 | 0.075393206 | 0.176 | 1 | 3208 | HPCA |
| 0.3003861 | 0.075393206 | 0.129 | 1 | 9611 | NCOR1 |
| 0.3003861 | 0.075393206 | 0.138 | 1 | 79666 | PLEKHF2 |
| 0.3001287 | 0.075653019 | 0.137 | 1 | 5452 | POU2F2 |
| 0.3001287 | 0.075653019 | 0.163 | 1 | 10093 | ARPC4 |
| 0.3001287 | 0.075653019 | 0.152 | 1 | 23024 | PDZRN3 |
| 0.2998713 | 0.075913536 | 0.16 | 1 | 1861 | TOR1A |
| 0.2998713 | 0.075913536 | 0.165 | 1 | 2173 | FABP7 |
| 0.2998713 | 0.075913536 | 0.123 | 1 | 5707 | PSMD1 |
| 0.2998713 | 0.075913536 | 0.171 | 1 | 7287 | TULP1 |
| 0.2998713 | 0.075913536 | 0.142 | 1 | 157695 | C8orf42 |
| 0.299356499 | 0.07643669 | 0.169 | 1 | 51513 | ETV7 |
| 0.299099099 | 0.076699329 | 0.143 | 1 | 8974 | P4HA2 |
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| 0.299099099 | 0.076699329 | 0.143 | 1 | 254559 | LOC254559 |
| 0.299099099 | 0.076699329 | 0.167 | 1 | 100505741 | SPATA1 |
| 0.298841699 | 0.076962677 | 0.166 | 1 | 51428 | DDX41 |
| 0.298841699 | 0.076962677 | 0.166 | 1 | 53335 | BCL11A |
| 0.298841699 | 0.076962677 | 0.147 | 1 | 221481 | C6orf81 |
| 0.298841699 | 0.076962677 | 0.164 | 1 | 375775 | PNPLA7 |
| 0.298326898 | 0.077491508 | 0.172 | 1 | 2051 | EPHB6 |
| 0.298326898 | 0.077491508 | 0.154 | 1 | 5522 | PPP2R2C |
| 0.298326898 | 0.077491508 | 0.19 | 1 | 89890 | KBTBD6 |
| 0.298069498 | 0.077756993 | 0.125 | 1 | 5437 | POLR2H |
| 0.298069498 | 0.077756993 | 0.137 | 1 | 10121 | ACTR1A |
| 0.298069498 | 0.077756993 | 0.145 | 1 | 80262 | C16orf70 |
| 0.298069498 | 0.077756993 | 0.146 | 1 | 474382 | H2AFB1 |
| 0.297812098 | 0.078023192 | 0.144 | 1 | 7390 | UROS |
| 0.297812098 | 0.078023192 | 0.149 | 1 | 54434 | SSH1 |
| 0.297812098 | 0.078023192 | 0.158 | 1 | 64130 | LIN7B |
| 0.297554698 | 0.078290107 | 0.146 | 1 | 285501 | AC021850.1 |
| 0.297297297 | 0.078557739 | 0.191 | 1 | 9340 | GLP2R |
| 0.297039897 | 0.078826089 | 0.16 | 1 | 8558 | CDK10 |
| 0.297039897 | 0.078826089 | 0.142 | 1 | 11005 | SPINK5 |
| 0.297039897 | 0.078826089 | 0.166 | 1 | 22973 | LAMB2P1 |
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| 0.296525097 | 0.079364949 | 0.142 | 1 | 54956 | PARP16 |
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| 0.296010296 | 0.079906696 | 0.165 | 1 | 1455 | CSNK1G2 |
| 0.296010296 | 0.079906696 | 0.156 | 1 | 2267 | FGL1 |
| 0.296010296 | 0.079906696 | 0.15 | 1 | 26533 | OR10G3 |
| 0.295752896 | 0.080178655 | 0.182 | 1 | 5587 | PRKD1 |
| 0.295752896 | 0.080178655 | 0.138 | 1 | 7076 | TIMP1 |
| 0.295752896 | 0.080178655 | 0.171 | 1 | 345193 | LRIT3 |
| 0.295495495 | 0.080451339 | 0.168 | 1 | 4285 | MIPEP |
| 0.295238095 | 0.08072475 | 0.17 | 1 | 645191 | LINGO3 |
| 0.294980695 | 0.080998889 | 0.167 | 1 | 135398 | C6ORF141 |
| 0.294723295 | 0.081273757 | 0.138 | 1 | 4277 | MICB |
| 0.294723295 | 0.081273757 | 0.161 | 1 | 26232 | FBXO2 |
| 0.294465894 | 0.081549356 | 0.164 | 1 | 10238 | DCAF7 |
| 0.294465894 | 0.081549356 | 0.146 | 1 | 10743 | RAI1 |
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| 0.294465894 | 0.081549356 | 0.168 | 1 | 54972 | TMEM132A |
| 0.294465894 | 0.081549356 | 0.151 | 1 | 400710 | AC010624.2 |
| 0.294465894 | 0.081549356 | 0.167 | 1 | 440823 | MIAT |

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| 0.17821066 | 4.75455E-61 | 51481 | VCX3A |
| 0.178103088 | 5.62014E-61 | 1821 | DRP2 |
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| 0.178038877 | 6.20988E-61 | 2281 | FKBP1B |
| 0.177967656 | 6.93636E-61 | 57150 | C6orf162 |
| 0.177900858 | 7.69446E-61 | 5732 | PTGER2 |
| 0.177848445 | 8.34662E-61 | 5774 | PTPN3 |
| 0.177704636 | 1.04327E-60 | 51379 | CRLF3 |
| 0.177689125 | 1.06867E-60 | 128414 | NKAIN4 |
| 0.177683419 | 1.07817E-60 | 23141 | ANKLE2 |
| 0.177670271 | 1.10037E-60 | 115557 | GEFT |
| 0.177649884 | 1.1357E-60 | 29109 | FHOD1 |
| 0.177462031 | 1.51936E-60 | 4852 | NPY |
| 0.177267252 | 2.05384E-60 | 643201 | RP11-844P9.2 |
| 0.177242697 | 2.13333E-60 | 28981 | IFT81 |
| 0.177169479 | 2.38902E-60 | 90135 | BTBD6 |
| 0.176990454 | 3.15017E-60 | 100129933 | GLYATL1P2 |
| 0.176986842 | 3.16779E-60 | 390003 | GUCY2GP |
| 0.1769031 | 3.60493E-60 | 79898 | ZNF613 |
| 0.176843042 | 3.95495E-60 | 138162 | C9orf116 |
| 0.176706767 | 4.87985E-60 | 387104 | AL096711.2 |
| 0.176688229 | 5.02131E-60 | 84902 | CCDC123 |
| 0.176681621 | 5.0727E-60 | 57476 | GRAMD1B |
| 0.176679844 | 5.08662E-60 | 51087 | YBX2 |
| 0.176656816 | 5.27037E-60 | 9352 | TXNL1 |
| 0.17644829 | 7.26622E-60 | 11259 | FILIP1L |
| 0.176432101 | 7.44952E-60 | 8742 | TNFSF12 |
| 0.176371644 | 8.17574E-60 | 23787 | MTCH1 |
| 0.176317916 | 8.88009E-60 | 5861 | RAB1A |
| 0.176270314 | 9.55443E-60 | 399697 | CTXN2 |
| 0.176258055 | 9.73622E-60 | 22904 | SBNO2 |
| 0.176231643 | 1.01396E-59 | 4978 | AP000843.1 |
| 0.176226226 | 1.02244E-59 | 284403 | WDR62 |
| 0.176221805 | 1.02941E-59 | 55957 | LIN37 |
| 0.176146807 | 1.15515E-59 | 7411 | VBP1 |
| 0.175977376 | 1.49839E-59 | 85359 | DGCR6L |
| 0.175748594 | 2.12819E-59 | 7051 | TGM1 |
| 0.17574661 | 2.13467E-59 | 56888 | KCMF1 |
| 0.17573768 | 2.16408E-59 | 205147 | FAM123C |
| 0.175725662 | 2.20431E-59 | 654502 | IQCJ |
| 0.175581627 | 2.74845E-59 | 123876 | ACSM2A |
| 0.175540851 | 2.92549E-59 | 53 | ACP2 |
| 0.175501501 | 3.10709E-59 | 55690 | PACS1 |
| 0.175496207 | 3.13237E-59 | 11092 | C9orf9 |
| 0.175488008 | 3.17191E-59 | 84502 | JPH4 |
| 0.17542474 | 3.49429E-59 | 120071 | GYLTL1B |
| 0.175408032 | 3.58474E-59 | 1944 | EFNA3 |
| 0.175365757 | 3.82415E-59 | 10765 | KDM5B |
| 0.175355568 | 3.8842E-59 | 80131 | LRRC8E |
| 0.175315396 | 4.13022E-59 | 5655 | KLK10 |
| 0.175272953 | 4.40704E-59 | 286102 | TMED10P1 |
| 0.175265107 | 4.46019E-59 | 56886 | UGCGL1 |
| 0.175215385 | 4.81225E-59 | 26985 | AP3M1 |
| 0.175188265 | 5.01579E-59 | 347168 | OR1J1 |
| 0.175101399 | 5.72729E-59 | 126068 | ZNF441 |
| 0.175060125 | 6.09973E-59 | 9468 | PCYT1B |
| 0.1750059 | 6.62595E-59 | 1397 | CRIP2 |
| 0.174811627 | 8.91056E-59 | 56255 | TMX4 |
| 0.174582621 | 1.2629E-58 | 1994 | ELAVL1 |
| 0.174490996 | 1.45182E-58 | 84850 | GLIS3-AS1 |
| 0.174485984 | 1.46293E-58 | 647012 | LOC647012 |
| 0.174434905 | 1.5811E-58 | 10116 | FEM1B |
| 0.174417121 | 1.62443E-58 | 119774 | OR52K2 |
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| 0.174353876 | 1.78836E-58 | 5080 | PAX6 |
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| 0.174224528 | 2.17668E-58 | 317781 | DDX51 |
| 0.174198751 | 2.26357E-58 | 60488 | MRPS35 |
| 0.174140764 | 2.47186E-58 | 23529 | CLCF1 |
| 0.174094546 | 2.65146E-58 | 340719 | NANOS1 |
| 0.174037894 | 2.88943E-58 | 388242 | RP11-345J4.3 |
| 0.174002633 | 3.04816E-58 | 1673 | DEFB4 |
| 0.173963049 | 3.23673E-58 | 23350 | SR140 |
| 0.173850723 | 3.83747E-58 | 4868 | NPHS1 |
| 0.173738956 | 4.54533E-58 | 23158 | TBC1D9 |
| 0.173714739 | 4.71507E-58 | 7799 | PRDM2 |
| 0.173651054 | 5.19221E-58 | 51194 | IPO11 |
| 0.173592439 | 5.67373E-58 | 64396 | GMCL1P1 |
| 0.173521196 | 6.31923E-58 | 146225 | CMTM2 |
| 0.173512959 | 6.39843E-58 | 6741 | SSB |
| 0.173444744 | 7.09348E-58 | 9094 | UNC119 |
| 0.173406288 | 7.51794E-58 | 196446 | C12orf28 |

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| 0.294208494 | 0.081825686 | 0.163 | 1 | 9107 | MTMR6 |
| 0.294208494 | 0.081825686 | 0.165 | 1 | 10858 | CYP46A1 |
| 0.293951094 | 0.082102748 | 0.184 | 1 | 3131 | HLF |
| 0.293951094 | 0.082102748 | 0.155 | 1 | 4707 | NDUFB1 |
| 0.293693694 | 0.082380545 | 0.157 | 1 | 4548 | MTR |
| 0.293436293 | 0.082659076 | 0.176 | 1 | 10114 | HIPK3 |
| 0.293436293 | 0.082659076 | 0.13 | 1 | 10691 | GMEB1 |
| 0.293436293 | 0.082659076 | 0.154 | 1 | 283417 | DPY19L2 |
| 0.293178893 | 0.082938344 | 0.154 | 1 | 79814 | AGMAT |
| 0.293178893 | 0.082938344 | 0.153 | 1 | 84570 | COL25A1 |
| 0.293178893 | 0.082938344 | 0.178 | 1 | 219833 | C11orf45 |
| 0.293178893 | 0.082938344 | 0.156 | 1 | 353088 | ZNF429 |
| 0.292921493 | 0.083218349 | 0.142 | 1 | 22864 | R3HDM2 |
| 0.292664093 | 0.083499094 | 0.148 | 1 | 79677 | SMC6 |
| 0.292406692 | 0.083780578 | 0.16 | 1 | 3061 | HCRTR1 |
| 0.292406692 | 0.083780578 | 0.154 | 1 | 4839 | NOP2 |
| 0.292149292 | 0.084062803 | 0.148 | 1 | 55008 | HERC6 |
| 0.292149292 | 0.084062803 | 0.17 | 1 | 339044 | PKD1P1 |
| 0.291891892 | 0.084345771 | 0.179 | 1 | 131540 | ZDHHC19 |
| 0.291891892 | 0.084345771 | 0.153 | 1 | 389549 | FEZF1 |
| 0.291634492 | 0.084629482 | 0.161 | 1 | 3927 | LASP1 |
| 0.291634492 | 0.084629482 | 0.153 | 1 | 5719 | PSMD13 |
| 0.291634492 | 0.084629482 | 0.16 | 1 | 8930 | MBD4 |
| 0.291634492 | 0.084629482 | 0.181 | 1 | 65250 | C5orf42 |
| 0.291377091 | 0.084913938 | 0.153 | 1 | 752 | FMNL1 |
| 0.291377091 | 0.084913938 | 0.162 | 1 | 7325 | UBE2E2 |
| 0.291119691 | 0.08519914 | 0.169 | 1 | 1479 | CSTF3 |
| 0.291119691 | 0.08519914 | 0.172 | 1 | 1974 | EIF4A2 |
| 0.291119691 | 0.08519914 | 0.163 | 1 | 641384 | TMEM75 |
| 0.290604891 | 0.085771786 | 0.155 | 1 | 5031 | P2RY6 |
| 0.290604891 | 0.085771786 | 0.172 | 1 | 10637 | LEFTY1 |
| 0.29034749 | 0.086059233 | 0.147 | 1 | 8800 | PEX11A |
| 0.29009009 | 0.086347431 | 0.149 | 1 | 9687 | AC110754.1 |
| 0.28983269 | 0.086636381 | 0.178 | 1 | 79659 | DYNC2H1 |
| 0.28983269 | 0.086636381 | 0.166 | 1 | 284415 | VSTM1 |
| 0.28957529 | 0.086926084 | 0.173 | 1 | 2821 | GPI |
| 0.289317889 | 0.087216541 | 0.16 | 1 | 23670 | TMEM2 |
| 0.289060489 | 0.087507754 | 0.145 | 1 | 55086 | CXorf57 |
| 0.289060489 | 0.087507754 | 0.166 | 1 | 220963 | SLC16A9 |
| 0.288803089 | 0.087799724 | 0.173 | 1 | 3046 | HBE1 |
| 0.288803089 | 0.087799724 | 0.14 | 1 | 64759 | TNS3 |
| 0.288803089 | 0.087799724 | 0.146 | 1 | 100507436 | MICA |
| 0.288545689 | 0.088092452 | 0.177 | 1 | 844 | CASQ1 |
| 0.288545689 | 0.088092452 | 0.169 | 1 | 10652 | YKT6 |
| 0.288545689 | 0.088092452 | 0.16 | 1 | 126382 | NR2C2AP |
| 0.288288288 | 0.088385939 | 0.128 | 1 | 6444 | SGCD |
| 0.288288288 | 0.088385939 | 0.178 | 1 | 7479 | WNT8B |
| 0.288288288 | 0.088385939 | 0.157 | 1 | 10267 | RAMP1 |
| 0.288030888 | 0.088680187 | 0.154 | 1 | 2011 | MARK2 |
| 0.287773488 | 0.088975196 | 0.191 | 1 | 92283 | ZNF461 |
| 0.287516088 | 0.089270967 | 0.168 | 1 | 1134 | CHRNA1 |
| 0.287258687 | 0.089567503 | 0.164 | 1 | 55559 | HAUS7 |
| 0.287001287 | 0.089864804 | 0.168 | 1 | 1977 | EIF4E |
| 0.286743887 | 0.090162871 | 0.16 | 1 | 145389 | SLC38A6 |
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| 0.286229086 | 0.09076131 | 0.167 | 1 | 441543 | TTTY6B |
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| 0.285714286 | 0.091362828 | 0.194 | 1 | 540 | ATP7B |
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| 0.285456885 | 0.091664745 | 0.184 | 1 | 8622 | PDE8B |
| 0.285456885 | 0.091664745 | 0.158 | 1 | 84315 | MON1A |
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| 0.285456885 | 0.091664745 | 0.182 | 1 | 284417 | TMEM150B |
| 0.285456885 | 0.091664745 | 0.162 | 1 | 646892 | SH2D7 |
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| 0.285199485 | 0.091967436 | 0.157 | 1 | 84461 | NEURL4 |
| 0.284942085 | 0.092270901 | 0.2 | 1 | 203547 | VMA21 |
| 0.284684685 | 0.092575143 | 0.156 | 1 | 26512 | INTS6 |
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| 0.284427284 | 0.092880161 | 0.168 | 1 | 8572 | PDLIM4 |
| 0.284169884 | 0.093185958 | 0.198 | 1 | 51363 | CHST15 |
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| 0.172507854 | 2.91129E-57 | 2060 | EPS15 |
| 0.172506084 | 2.91904E-57 | 7538 | ZFP36 |
| 0.172433795 | 3.25394E-57 | 4705 | NDUFA10 |
| 0.172342705 | 3.73094E-57 | 5163 | PDK1 |
| 0.172201461 | 4.6118E-57 | 9704 | DHX34 |
| 0.172138562 | 5.06801E-57 | 59067 | IL21 |
| 0.172001878 | 6.22026E-57 | 55039 | TRMT12 |
| 0.171986913 | 6.36129E-57 | 140290 | TCP10L |
| 0.171976827 | 6.45813E-57 | 84435 | GPR123 |
| 0.171976013 | 6.466E-57 | 1611 | DAP |
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| 0.171935455 | 6.87096E-57 | 284600 | RP11-54O7.1 |
| 0.171929022 | 6.93748E-57 | 55789 | DEPDC1B |
| 0.17179792 | 8.44172E-57 | 5889 | RAD51C |
| 0.171770081 | 8.80076E-57 | 6398 | SECTM1 |
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| 0.171494465 | 1.32875E-56 | 29887 | SNX10 |
| 0.171460678 | 1.39752E-56 | 81696 | OR5V1 |
| 0.171401264 | 1.52714E-56 | 64595 | TTTY15 |
| 0.171349878 | 1.64887E-56 | 9128 | PRPF4 |
| 0.171285522 | 1.81503E-56 | 338094 | FAM151A |
| 0.17119578 | 2.07492E-56 | 92335 | STRADA |
| 0.171189889 | 2.09322E-56 | 25849 | AC110760.2 |
| 0.170796935 | 3.75762E-56 | 733 | C8G |
| 0.170781627 | 3.84414E-56 | 9755 | TBKBP1 |
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| 0.170170292 | 9.52471E-56 | 80772 | GLTPD1 |
| 0.170062034 | 1.11809E-55 | 84285 | EIF1AD |
| 0.169960382 | 1.29961E-55 | 3054 | HCFC1 |
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| 0.169792867 | 1.6649E-55 | 404266 | RP11-357H14.1 |
| 0.16977321 | 1.71398E-55 | 9495 | AKAP5 |
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| 0.169283035 | 3.53276E-55 | 140775 | SMCR8 |
| 0.169232603 | 3.80519E-55 | 92104 | TTC30A |
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| 0.169174851 | 4.14296E-55 | 26149 | ZNF658 |
| 0.169053931 | 4.94992E-55 | 9149 | DYRK1B |
| 0.168997709 | 5.37667E-55 | 3008 | HIST1H1E |
| 0.168731913 | 7.9458E-55 | 152065 | C3orf22 |
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| 0.168671199 | 8.68649E-55 | 55142 | HAUS2 |
| 0.168441767 | 1.21613E-54 | 121364 | OR10A7 |
| 0.168269989 | 1.56408E-54 | 219982 | OR5A1 |
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| 0.167981812 | 2.38408E-54 | 51016 | FAM158A |
| 0.167976703 | 2.40194E-54 | 7727 | ZNF174 |
| 0.167888031 | 2.73415E-54 | 440799 | P2RX6P |
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| 0.167725522 | 3.46616E-54 | 6817 | SULT1A1 |
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| 0.167591938 | 4.21172E-54 | 389856 | USP27X |
| 0.167459357 | 5.10935E-54 | 2354 | FOSB |
| 0.167438249 | 5.26887E-54 | 23101 | MCF2L2 |
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| 0.283912484 | 0.093492534 | 0.2 | 1 | 56604 | TUBB7P |
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| 0.283655084 | 0.093799891 | 0.142 | 1 | 54968 | TMEM70 |
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| 0.283655084 | 0.093799891 | 0.168 | 1 | 90806 | ANGEL2 |
| 0.283655084 | 0.093799891 | 0.184 | 1 | 550643 | LOC550643 |
| 0.283397683 | 0.094108029 | 0.179 | 1 | 10533 | ATG7 |
| 0.283397683 | 0.094108029 | 0.181 | 1 | 53615 | MBD3 |
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| 0.281853282 | 0.095973346 | 0.174 | 1 | 255043 | TMEM86B |
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| 0.281595882 | 0.096286991 | 0.194 | 1 | 10785 | WDR4 |
| 0.281595882 | 0.096286991 | 0.174 | 1 | 23116 | FAM179B |
| 0.281595882 | 0.096286991 | 0.192 | 1 | 23787 | MTCH1 |
| 0.281595882 | 0.096286991 | 0.197 | 1 | 27345 | KCNMB4 |
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| 0.281338481 | 0.096601427 | 0.199 | 1 | 84897 | TBRG1 |
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| 0.281081081 | 0.096916655 | 0.191 | 1 | 114881 | OSBPL7 |
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| 0.280823681 | 0.097232678 | 0.183 | 1 | 10556 | RPP30 |
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| 0.27979408 | 0.098504726 | 0.195 | 1 | 22869 | ZNF510 |
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| 0.27953668 | 0.098824734 | 0.173 | 1 | 26502 | NARF |
| 0.278507079 | 0.100112786 | 0.195 | 1 | 6885 | MAP3K7 |
| 0.278507079 | 0.100112786 | 0.193 | 1 | 23625 | FAM89B |
| 0.278507079 | 0.100112786 | 0.177 | 1 | 27044 | SND1 |
| 0.278507079 | 0.100112786 | 0.184 | 1 | 56252 | YLPM1 |
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| 0.277992278 | 0.100761639 | 0.204 | 1 | 84222 | TMEM191A |
| 0.277992278 | 0.100761639 | 0.166 | 1 | 727800 | RNF208 |
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| 0.276447876 | 0.102727621 | 0.186 | 1 | 11033 | ADAP1 |
| 0.276447876 | 0.102727621 | 0.164 | 1 | 51594 | NBAS |
| 0.276447876 | 0.102727621 | 0.215 | 1 | 151556 | GPR155 |
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| 0.273873874 | 0.106069557 | 0.184 | 1 | 8991 | SELENBP1 |
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| 0.273359073 | 0.106747822 | 0.171 | 1 | 7699 | ZNF140 |
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| 0.164678882 | 2.83126E-52 | 9338 | TCEAL1 |
| 0.164462128 | 3.86028E-52 | 2901 | GRIK5 |
| 0.164409197 | 4.16361E-52 | 8450 | CUL4B |
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| 0.164174493 | 5.82104E-52 | 29967 | LRP12 |
| 0.164166596 | 5.88699E-52 | 90410 | IFT20 |
| 0.164022484 | 7.23002E-52 | 7879 | RAB7A |
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| 0.163258321 | 2.1429E-51 | 56675 | NRIP3 |
| 0.163186623 | 2.37223E-51 | 9278 | ZBTB22 |
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| 0.162171144 | 9.96211E-51 | 83699 | SH3BGRL2 |
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| 0.161601296 | 2.21964E-50 | 248 | ALPI |
| 0.161578333 | 2.29233E-50 | 9925 | ZBTB5 |
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| 0.161524115 | 2.47348E-50 | 27189 | IL17C |
| 0.161452272 | 2.73566E-50 | 2021 | ENDOG |
| 0.161379658 | 3.02875E-50 | 6506 | SLC1A2 |
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| 0.161313703 | 3.32195E-50 | 27111 | SDCBP2 |
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| 0.161298365 | 3.39408E-50 | 400720 | ZNF772 |
| 0.1612788 | 3.48837E-50 | 4543 | MTNR1A |
| 0.161230179 | 3.73412E-50 | 283489 | ZNF828 |

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| 0.273101673 | 0.107088197 | 0.183 | 1 | 51527 | C14orf129 |
| 0.273101673 | 0.107088197 | 0.194 | 1 | 123591 | C15orf27 |
| 0.273101673 | 0.107088197 | 0.209 | 1 | 646548 | LOC646548 |
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| 0.272844273 | 0.107429401 | 0.185 | 1 | 57690 | TNRC6C |
| 0.272586873 | 0.107771437 | 0.216 | 1 | 6416 | MAP2K4 |
| 0.272586873 | 0.107771437 | 0.208 | 1 | 9695 | EDEM1 |
| 0.272586873 | 0.107771437 | 0.179 | 1 | 440173 | LOC440173 |
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| 0.272329472 | 0.108114304 | 0.173 | 1 | 9938 | ARHGAP25 |
| 0.272329472 | 0.108114304 | 0.201 | 1 | 55472 | C8orf39 |
| 0.272329472 | 0.108114304 | 0.191 | 1 | 79183 | TTPAL |
| 0.272072072 | 0.108458005 | 0.185 | 1 | 93974 | ATPIF1 |
| 0.271814672 | 0.108802539 | 0.203 | 1 | 7571 | ZNF23 |
| 0.271814672 | 0.108802539 | 0.207 | 1 | 84464 | BTBD12 |
| 0.271557272 | 0.109147909 | 0.203 | 1 | 1814 | DRD3 |
| 0.271557272 | 0.109147909 | 0.198 | 1 | 9236 | CCPG1 |
| 0.271557272 | 0.109147909 | 0.192 | 1 | 54716 | SLC6A20 |
| 0.271557272 | 0.109147909 | 0.182 | 1 | 285175 | C2orf21 |
| 0.271299871 | 0.109494116 | 0.214 | 1 | 8408 | ULK1 |
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| 0.270785071 | 0.110189043 | 0.188 | 1 | 23404 | EXOSC2 |
| 0.270785071 | 0.110189043 | 0.188 | 1 | 152641 | C4ORF38 |
| 0.270527671 | 0.110537766 | 0.186 | 1 | 2737 | GLI3 |
| 0.270527671 | 0.110537766 | 0.196 | 1 | 285943 | AC004080.12 |
| 0.27027027 | 0.11088733 | 0.182 | 1 | 5619 | PRM1 |
| 0.27027027 | 0.11088733 | 0.15 | 1 | 11190 | CEP250 |
| 0.27001287 | 0.111237737 | 0.2 | 1 | 148641 | SLC35F3 |
| 0.27001287 | 0.111237737 | 0.19 | 1 | 440888 | ACTR3BP2 |
| 0.26975547 | 0.111588986 | 0.21 | 1 | 5579 | PRKCB |
| 0.269498069 | 0.11194108 | 0.203 | 1 | 88 | ACTN2 |
| 0.269498069 | 0.11194108 | 0.213 | 1 | 2117 | ETV3 |
| 0.269498069 | 0.11194108 | 0.19 | 1 | 84301 | DDI2 |
| 0.269498069 | 0.11194108 | 0.216 | 1 | 114827 | FHAD1 |
| 0.269240669 | 0.11229402 | 0.197 | 1 | 344787 | ZNF860 |
| 0.268983269 | 0.112647807 | 0.219 | 1 | 80324 | PUS1 |
| 0.268468468 | 0.113357924 | 0.221 | 1 | 5016 | OVGP1 |
| 0.268468468 | 0.113357924 | 0.211 | 1 | 145853 | C15orf61 |
| 0.268211068 | 0.113714257 | 0.192 | 1 | 27165 | GLS2 |
| 0.268211068 | 0.113714257 | 0.207 | 1 | 57335 | ZNF286 |
| 0.268211068 | 0.113714257 | 0.206 | 1 | 256158 | HMCN2 |
| 0.267953668 | 0.114071442 | 0.174 | 1 | 8497 | PPFIA4 |
| 0.267953668 | 0.114071442 | 0.209 | 1 | 50487 | PLA2G3 |
| 0.267953668 | 0.114071442 | 0.223 | 1 | 55253 | TYW1 |
| 0.267696268 | 0.114429479 | 0.193 | 1 | 55565 | ZNF821 |
| 0.267696268 | 0.114429479 | 0.202 | 1 | 84365 | MKI67IP |
| 0.267438867 | 0.114788369 | 0.198 | 1 | 10861 | SLC26A1 |
| 0.267438867 | 0.114788369 | 0.204 | 1 | 127602 | DNAH14 |
| 0.267181467 | 0.115148114 | 0.205 | 1 | 23367 | LARP1 |
| 0.266924067 | 0.115508715 | 0.209 | 1 | 1996 | ELAVL4 |
| 0.266924067 | 0.115508715 | 0.189 | 1 | 9804 | TOMM20 |
| 0.266924067 | 0.115508715 | 0.189 | 1 | 22885 | ABLIM3 |
| 0.266924067 | 0.115508715 | 0.21 | 1 | 339453 | TMEM240 |
| 0.266666667 | 0.115870172 | 0.209 | 1 | 55870 | ASH1L |
| 0.266409266 | 0.116232487 | 0.218 | 1 | 55553 | SOX6 |
| 0.266151866 | 0.116595662 | 0.183 | 1 | 6799 | SULT1A2 |
| 0.266151866 | 0.116595662 | 0.224 | 1 | 9840 | KIAA0748 |
| 0.266151866 | 0.116595662 | 0.203 | 1 | 163059 | ZNF433 |
| 0.266151866 | 0.116595662 | 0.221 | 1 | 284802 | FRG1B |
| 0.266151866 | 0.116595662 | 0.194 | 1 | 727941 | LOC727941 |
| 0.265894466 | 0.116959696 | 0.202 | 1 | 4885 | NPTX2 |
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| 0.265894466 | 0.116959696 | 0.181 | 1 | 151477 | LINC00471 |
| 0.265637066 | 0.117324592 | 0.21 | 1 | 85453 | AP003115.1 |
| 0.265379665 | 0.11769035 | 0.198 | 1 | 2922 | GRP |
| 0.265379665 | 0.11769035 | 0.194 | 1 | 3009 | HIST1H1B |
| 0.265379665 | 0.11769035 | 0.198 | 1 | 54033 | RBM11 |
| 0.265379665 | 0.11769035 | 0.194 | 1 | 63976 | PRDM16 |
| 0.265122265 | 0.118056972 | 0.224 | 1 | 57088 | PLSCR4 |
| 0.264864865 | 0.118424458 | 0.195 | 1 | 128178 | EDARADD |
| 0.264607465 | 0.11879281 | 0.205 | 1 | 283130 | SLC25A45 |
| 0.264350064 | 0.119162028 | 0.198 | 1 | 6261 | RYR1 |
| 0.263835264 | 0.11990307 | 0.184 | 1 | 51773 | RSF1 |
| 0.263835264 | 0.11990307 | 0.234 | 1 | 84152 | PPP1R1B |
| 0.263577864 | 0.120274896 | 0.22 | 1 | 29989 | OBP2B |
| 0.263320463 | 0.120647592 | 0.207 | 1 | 9892 | SNAP91 |
| 0.263320463 | 0.120647592 | 0.201 | 1 | 84229 | CCDC135 |
| 0.263063063 | 0.121021161 | 0.222 | 1 | 7776 | ZNF236 |
| 0.262805663 | 0.121395603 | 0.232 | 1 | 1959 | EGR2 |
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| 0.161168013 | 4.07358E-50 | 218 | ALDH3A1 |
| 0.161014657 | 5.04813E-50 | 5806 | PTX3 |
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| 0.160852522 | 6.33165E-50 | 138307 | LCN8 |
| 0.160832296 | 6.51303E-50 | 3202 | HOXA5 |
| 0.160820319 | 6.62286E-50 | 84439 | HHIPL1 |
| 0.160785714 | 6.95067E-50 | 23300 | ATMIN |
| 0.160697284 | 7.86359E-50 | 84128 | WDR75 |
| 0.160672595 | 8.13913E-50 | 4128 | MAOA |
| 0.160581847 | 9.23712E-50 | 728056 | LOC728056 |
| 0.16035686 | 1.26372E-49 | 10924 | SMPDL3A |
| 0.160221804 | 1.52497E-49 | 340351 | AGBL3 |
| 0.160185116 | 1.6048E-49 | 23270 | TSPYL5 |
| 0.160156924 | 1.66895E-49 | 7265 | TTC1 |
| 0.160115656 | 1.76749E-49 | 2960 | GTF2E1 |
| 0.159919308 | 2.32164E-49 | 1416 | CRYBB2P1 |
| 0.159887886 | 2.42513E-49 | 6505 | SLC1A1 |
| 0.159795741 | 2.75584E-49 | 55315 | SLC29A3 |
| 0.159795541 | 2.75661E-49 | 10907 | TXNL4A |
| 0.159687137 | 3.20367E-49 | 93210 | PGAP3 |
| 0.159630537 | 3.46505E-49 | 7587 | ZNF37A |
| 0.159591318 | 3.65851E-49 | 6709 | SPTAN1 |
| 0.159501333 | 4.14398E-49 | 91749 | KIAA1919 |
| 0.159500797 | 4.14706E-49 | 347741 | OTOP3 |
| 0.159120185 | 7.01894E-49 | 343263 | MYBPHL |
| 0.15906201 | 7.60591E-49 | 5929 | RBBP5 |
| 0.159060432 | 7.62249E-49 | 779 | CACNA1S |
| 0.158829987 | 1.04745E-48 | 79078 | C1orf50 |
| 0.158798257 | 1.09426E-48 | 25837 | RAB26 |
| 0.158782518 | 1.11825E-48 | 9223 | MAGI1 |
| 0.158530989 | 1.58096E-48 | 65977 | PLEKHA3 |
| 0.15847234 | 1.71375E-48 | 222826 | C6orf146 |
| 0.158425697 | 1.82725E-48 | 57198 | ATP8B2 |
| 0.158349766 | 2.02821E-48 | 54888 | NSUN2 |
| 0.158302452 | 2.16441E-48 | 2290 | FOXG1B |
| 0.158293757 | 2.19041E-48 | 54857 | GDPD2 |
| 0.158249531 | 2.32755E-48 | 729830 | FAM160A1 |
| 0.158129062 | 2.74601E-48 | 575 | BAI1 |
| 0.158062433 | 3.00878E-48 | 9340 | GLP2R |
| 0.157983122 | 3.35436E-48 | 722 | C4BPA |
| 0.157856859 | 3.98779E-48 | 440153 | OR11H12 |
| 0.15782033 | 4.19232E-48 | 55586 | MIOX |
| 0.157782107 | 4.41751E-48 | 283871 | PGP |
| 0.157781617 | 4.42048E-48 | 100287482 | RP11-305M3.3 |
| 0.157779004 | 4.43632E-48 | 2978 | GUCA1A |
| 0.157714708 | 4.84432E-48 | 51725 | FBXO40 |
| 0.157654199 | 5.26233E-48 | 100131315 | LOC100131315 |
| 0.157500772 | 6.49017E-48 | 9929 | JOSD1 |
| 0.157438956 | 7.06197E-48 | 6288 | SAA1 |
| 0.157333794 | 8.15218E-48 | 220115 | TPTE2P3 |
| 0.157219341 | 9.52973E-48 | 22990 | PCNX |
| 0.157157268 | 1.03713E-47 | 51750 | RTEL1 |
| 0.157090267 | 1.13629E-47 | 56829 | ZC3HAV1 |
| 0.157067158 | 1.17263E-47 | 26999 | CYFIP2 |
| 0.157052864 | 1.19569E-47 | 54798 | DCHS2 |
| 0.156998665 | 1.28728E-47 | 5883 | RAD9A |
| 0.156985978 | 1.30971E-47 | 10131 | TRAP1 |
| 0.15691121 | 1.45003E-47 | 2175 | FANCA |
| 0.156840815 | 1.59577E-47 | 4776 | NFATC4 |
| 0.156744937 | 1.81799E-47 | 9218 | VAPA |
| 0.15674417 | 1.81989E-47 | 51222 | ZNF219 |
| 0.1567344 | 1.84422E-47 | 6590 | SLPI |
| 0.15653028 | 2.43347E-47 | 55071 | C9orf40 |
| 0.156514874 | 2.48489E-47 | 90956 | ADCK2 |
| 0.156507929 | 2.50843E-47 | 3706 | ITPKA |
| 0.156471093 | 2.63701E-47 | 7090 | TLE3 |
| 0.156427444 | 2.79788E-47 | 349565 | NMNAT3 |
| 0.156249145 | 3.56291E-47 | 65260 | SELRC1 |
| 0.156205445 | 3.78021E-47 | 26166 | RGS22 |
| 0.156172711 | 3.95156E-47 | 54905 | CYP2W1 |
| 0.156101771 | 4.34991E-47 | 755 | C21orf2 |
| 0.156081876 | 4.46863E-47 | 84542 | KIAA1841 |
| 0.155965962 | 5.22731E-47 | 22902 | RUFY3 |
| 0.15596229 | 5.25333E-47 | 27133 | KCNH5 |
| 0.155924837 | 5.52621E-47 | 28988 | DBNL |
| 0.155914919 | 5.60081E-47 | 22823 | MTF2 |
| 0.155798301 | 6.55679E-47 | 647288 | CTAGE11P |
| 0.155789719 | 6.63324E-47 | 4794 | NFKBIE |
| 0.155725863 | 7.23064E-47 | 5244 | ABCB4 |
| 0.15569983 | 7.48929E-47 | 64220 | STRA6 |
| 0.155662342 | 7.878E-47 | 23615 | PYY2 |
| 0.155649301 | 8.01787E-47 | 121355 | GTSF1 |

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| 0.261776062 | 0.122902128 | 0.196 | 1 | 57610 | RANBP10 |
| 0.261518662 | 0.123280953 | 0.213 | 1 | 755 | C21orf2 |
| 0.261518662 | 0.123280953 | 0.218 | 1 | 54946 | SLC41A3 |
| 0.261261261 | 0.123660658 | 0.223 | 1 | 3503 | IGHG4 |
| 0.261261261 | 0.123660658 | 0.196 | 1 | 147686 | ZNF418 |
| 0.261003861 | 0.124041244 | 0.195 | 1 | 1443 | CSH2 |
| 0.261003861 | 0.124041244 | 0.229 | 1 | 8522 | GAS7 |
| 0.261003861 | 0.124041244 | 0.221 | 1 | 9782 | MATR3 |
| 0.261003861 | 0.124041244 | 0.201 | 1 | 442075 | AC034193.5 |
| 0.260746461 | 0.124422712 | 0.204 | 1 | 55607 | PPP1R9A |
| 0.260746461 | 0.124422712 | 0.198 | 1 | 64841 | GNPNAT1 |
| 0.26048906 | 0.124805064 | 0.203 | 1 | 2048 | EPHB2 |
| 0.26048906 | 0.124805064 | 0.223 | 1 | 2515 | ADAM2 |
| 0.26048906 | 0.124805064 | 0.189 | 1 | 28968 | SLC6A16 |
| 0.26048906 | 0.124805064 | 0.229 | 1 | 375337 | C3orf77 |
| 0.26023166 | 0.125188299 | 0.212 | 1 | 57834 | CYP4F11 |
| 0.25971686 | 0.125957427 | 0.23 | 1 | 55691 | FRMD4A |
| 0.259459459 | 0.126343321 | 0.234 | 1 | 51434 | ANAPC7 |
| 0.259202059 | 0.126730104 | 0.216 | 1 | 6809 | STX3 |
| 0.259202059 | 0.126730104 | 0.193 | 1 | 84247 | LDOC1L |
| 0.259202059 | 0.126730104 | 0.226 | 1 | 115024 | NT5C3L |
| 0.258944659 | 0.127117777 | 0.199 | 1 | 57554 | LRRC7 |
| 0.258429858 | 0.127895794 | 0.199 | 1 | 730098 | RP11-195F19.5 |
| 0.258172458 | 0.128286142 | 0.206 | 1 | 4360 | MRC1 |
| 0.258172458 | 0.128286142 | 0.217 | 1 | 56897 | WRNIP1 |
| 0.257915058 | 0.128677383 | 0.207 | 1 | 57468 | SLC12A5 |
| 0.257657658 | 0.129069519 | 0.211 | 1 | 3268 | AGFG2 |
| 0.257400257 | 0.129462551 | 0.242 | 1 | 57608 | KIAA1462 |
| 0.257400257 | 0.129462551 | 0.218 | 1 | 116519 | APOA5 |
| 0.257142857 | 0.12985648 | 0.186 | 1 | 51473 | DCDC2 |
| 0.257142857 | 0.12985648 | 0.228 | 1 | 153090 | DAB2IP |
| 0.256885457 | 0.130251307 | 0.218 | 1 | 2262 | GPC5 |
| 0.256885457 | 0.130251307 | 0.21 | 1 | 541466 | CT45A1 |
| 0.256628057 | 0.130647033 | 0.235 | 1 | 50508 | NOX3 |
| 0.256628057 | 0.130647033 | 0.225 | 1 | 55876 | GSDMB |
| 0.256370656 | 0.131043659 | 0.228 | 1 | 55026 | FAM70A |
| 0.256113256 | 0.131441186 | 0.217 | 1 | 161742 | SPRED1 |
| 0.256113256 | 0.131441186 | 0.237 | 1 | 246175 | CNOT6L |
| 0.255855856 | 0.131839616 | 0.246 | 1 | 5510 | PPP1R7 |
| 0.255598456 | 0.132238949 | 0.215 | 1 | 22928 | SEPHS2 |
| 0.255598456 | 0.132238949 | 0.234 | 1 | 57634 | EP400 |
| 0.255341055 | 0.132639186 | 0.246 | 1 | 6548 | SLC9A1 |
| 0.255083655 | 0.133040328 | 0.195 | 1 | 5630 | PRPH |
| 0.255083655 | 0.133040328 | 0.257 | 1 | 10313 | RTN3 |
| 0.255083655 | 0.133040328 | 0.216 | 1 | 27258 | LSM3 |
| 0.255083655 | 0.133040328 | 0.185 | 1 | 84750 | FUT10 |
| 0.255083655 | 0.133040328 | 0.222 | 1 | 119358 | SNRPD2P1 |
| 0.255083655 | 0.133040328 | 0.223 | 1 | 390940 | AC026369.2 |
| 0.254826255 | 0.133442377 | 0.219 | 1 | 4084 | MXD1 |
| 0.254826255 | 0.133442377 | 0.226 | 1 | 6450 | SH3BGR |
| 0.254826255 | 0.133442377 | 0.221 | 1 | 9401 | RECQL4 |
| 0.254826255 | 0.133442377 | 0.198 | 1 | 10659 | CUGBP2 |
| 0.254826255 | 0.133442377 | 0.207 | 1 | 79637 | ARMC7 |
| 0.254311454 | 0.134249197 | 0.207 | 1 | 56655 | POLE4 |
| 0.254311454 | 0.134249197 | 0.224 | 1 | 79033 | ERI3 |
| 0.254311454 | 0.134249197 | 0.23 | 1 | 374973 | ATPAF1-AS1 |
| 0.254311454 | 0.134249197 | 0.217 | 1 | 440503 | AC011498.2 |
| 0.254054054 | 0.134653972 | 0.21 | 1 | 2946 | GSTM2 |
| 0.253796654 | 0.135059656 | 0.21 | 1 | 9815 | GIT2 |
| 0.253539254 | 0.135466252 | 0.217 | 1 | 6098 | ROS1 |
| 0.253539254 | 0.135466252 | 0.224 | 1 | 7528 | YY1 |
| 0.253539254 | 0.135466252 | 0.225 | 1 | 10255 | HCG9 |
| 0.253539254 | 0.135466252 | 0.241 | 1 | 22893 | BAHD1 |
| 0.253539254 | 0.135466252 | 0.221 | 1 | 25873 | RPL36 |
| 0.253281853 | 0.135873761 | 0.213 | 1 | 2853 | GPR31 |
| 0.253281853 | 0.135873761 | 0.216 | 1 | 51005 | AMDHD2 |
| 0.253281853 | 0.135873761 | 0.236 | 1 | 222826 | C6orf146 |
| 0.253024453 | 0.136282183 | 0.231 | 1 | 1193 | CLIC2 |
| 0.253024453 | 0.136282183 | 0.246 | 1 | 6258 | RXRG |
| 0.253024453 | 0.136282183 | 0.217 | 1 | 10243 | GPHN |
| 0.252767053 | 0.13669152 | 0.228 | 1 | 27 | ABL2 |
| 0.252252252 | 0.137512942 | 0.228 | 1 | 23530 | NNT |
| 0.251994852 | 0.137925029 | 0.263 | 1 | 2998 | GYS2 |
| 0.251994852 | 0.137925029 | 0.238 | 1 | 9227 | LRAT |
| 0.251994852 | 0.137925029 | 0.258 | 1 | 54509 | RHOF |
| 0.251737452 | 0.138338034 | 0.22 | 1 | 11279 | KLF8 |
| 0.251480051 | 0.138751959 | 0.235 | 1 | 374897 | SBSN |
| 0.251222651 | 0.139166805 | 0.222 | 1 | 31 | ACACA |
| 0.251222651 | 0.139166805 | 0.248 | 1 | 224 | ALDH3A2 |
| 0.251222651 | 0.139166805 | 0.231 | 1 | 26019 | UPF2 |
| 0.250965251 | 0.139582573 | 0.223 | 1 | 2909 | GRLF1 |
| 0.250965251 | 0.139582573 | 0.229 | 1 | 7125 | TNNC2 |

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| 0.154933317 | 2.10218E-46 | 344967 | AC098591.2 |
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| 0.154470053 | 3.91251E-46 | 5993 | RFX5 |
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| 0.15408342 | 6.56102E-46 | 57502 | NLGN4X |
| 0.154008332 | 7.25282E-46 | 58475 | MS4A7 |
| 0.153947111 | 7.87021E-46 | 80258 | EFHC2 |
| 0.153923709 | 8.11978E-46 | 60677 | BRUNOL6 |
| 0.153821072 | 9.31071E-46 | 131405 | TRIM71 |
| 0.153607345 | 1.23772E-45 | 26232 | FBXO2 |
| 0.153516866 | 1.39608E-45 | 8818 | DPM2 |
| 0.15350967 | 1.40951E-45 | 605 | BCL7A |
| 0.153483802 | 1.45885E-45 | 143162 | FRMPD2 |
| 0.153455581 | 1.51464E-45 | 55203 | LGI2 |
| 0.153339729 | 1.7668E-45 | 26539 | OR10H1 |
| 0.153311825 | 1.83352E-45 | 117156 | SCGB3A2 |
| 0.153146477 | 2.28363E-45 | 65243 | ZNF643 |
| 0.152953877 | 2.94812E-45 | 864 | RUNX3 |
| 0.152886798 | 3.22212E-45 | 23400 | ATP13A2 |
| 0.152674259 | 4.26893E-45 | 389895 | LOC389895 |
| 0.152658668 | 4.35787E-45 | 56899 | ANKS1B |
| 0.152640203 | 4.4656E-45 | 2844 | GPR21 |
| 0.152620098 | 4.58591E-45 | 11015 | KDELR3 |
| 0.152591676 | 4.76151E-45 | 150921 | TCF23 |
| 0.152474152 | 5.56147E-45 | 149837 | LOC149837 |
| 0.152363586 | 6.43564E-45 | 4008 | LMO7 |
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| 0.152178589 | 8.21427E-45 | 3745 | KCNB1 |
| 0.152158919 | 8.43004E-45 | 84243 | ZDHHC18 |
| 0.152146523 | 8.5689E-45 | 1414 | CRYBB1 |
| 0.152144618 | 8.59044E-45 | 54665 | RSBN1 |
| 0.151886618 | 1.20658E-44 | 121643 | FOXN4 |
| 0.151881185 | 1.21523E-44 | 1303 | COL12A1 |
| 0.151682635 | 1.57769E-44 | 126129 | CPT1C |
| 0.151658084 | 1.6294E-44 | 339742 | FAM201B |
| 0.151518456 | 1.95724E-44 | 10769 | PLK2 |
| 0.151439543 | 2.17073E-44 | 55558 | PLXNA3 |
| 0.151313471 | 2.56087E-44 | 8460 | TPST1 |
| 0.151280615 | 2.67353E-44 | 91137 | SLC25A46 |
| 0.151273802 | 2.6975E-44 | 6941 | TCF19 |
| 0.151250125 | 2.78248E-44 | 23179 | RGL1 |
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| 0.150452392 | 7.88866E-44 | 22869 | ZNF510 |
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| 0.149898569 | 1.62084E-43 | 4882 | NPR2 |
| 0.149889476 | 1.64008E-43 | 29760 | BLNK |
| 0.149884429 | 1.65086E-43 | 389873 | SEPHS1P4 |
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| 0.248133848 | 0.144217137 | 0.229 | 1 | 55174 | INTS10 |
| 0.247876448 | 0.144644043 | 0.227 | 1 | 2987 | GUK1 |
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| 0.247619048 | 0.145071884 | 0.232 | 1 | 56341 | PRMT8 |
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| 0.247104247 | 0.145930373 | 0.243 | 1 | 2056 | EPO |
| 0.247104247 | 0.145930373 | 0.233 | 1 | 3763 | KCNJ6 |
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| 0.247104247 | 0.145930373 | 0.233 | 1 | 284800 | C20orf91 |
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| 0.246074646 | 0.147658611 | 0.225 | 1 | 5445 | PON2 |
| 0.246074646 | 0.147658611 | 0.237 | 1 | 26260 | FBXO25 |
| 0.246074646 | 0.147658611 | 0.242 | 1 | 137902 | PXDNL |
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| 0.242471042 | 0.153826466 | 0.242 | 1 | 150 | ADRA2A |
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| 0.241698842 | 0.155172406 | 0.232 | 1 | 390598 | SKOR1 |
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| 0.240669241 | 0.156980404 | 0.229 | 1 | 22865 | SLITRK3 |
| 0.240669241 | 0.156980404 | 0.252 | 1 | 144448 | TSPAN19 |
| 0.240669241 | 0.156980404 | 0.249 | 1 | 157697 | ERICH1 |
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| 0.239382239 | 0.159262033 | 0.28 | 1 | 114818 | KLHL29 |
| 0.239124839 | 0.159721253 | 0.256 | 1 | 10092 | ARPC5 |
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| 0.238867439 | 0.160181439 | 0.25 | 1 | 170591 | S100Z |
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| 0.238352638 | 0.161104715 | 0.275 | 1 | 11054 | OGFR |
| 0.238352638 | 0.161104715 | 0.228 | 1 | 84320 | ACBD6 |
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| 0.148381169 | 1.14943E-42 | 400673 | VMAC |
| 0.148343761 | 1.20598E-42 | 142679 | DUSP19 |
| 0.148321396 | 1.24111E-42 | 10092 | ARPC5 |
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| 0.147993716 | 1.88918E-42 | 4111 | MAGEA12 |
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| 0.147935905 | 2.03433E-42 | 65996 | AC016629.3 |
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| 0.147774274 | 2.50169E-42 | 254359 | ZDHHC24 |
| 0.147755703 | 2.56181E-42 | 149461 | CLDN19 |
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| 0.147579593 | 3.20831E-42 | 340481 | ZDHHC21 |
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| 0.147360532 | 4.24299E-42 | 219981 | OR5A2 |
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| 0.147191146 | 5.26516E-42 | 3298 | HSF2 |
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| 0.145791817 | 3.10137E-41 | 80139 | ZNF703 |
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| 0.145625868 | 3.8228E-41 | 10109 | ARPC2 |
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| 0.237837838 | 0.162031868 | 0.235 | 1 | 124583 | CANT1 |
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| 0.237837838 | 0.162031868 | 0.242 | 1 | 400684 | LOC400684 |
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| 0.234491634 | 0.168153358 | 0.272 | 1 | 5771 | PTPN2 |
| 0.234491634 | 0.168153358 | 0.274 | 1 | 54487 | DGCR8 |
| 0.233719434 | 0.169589519 | 0.263 | 1 | 23254 | RP1-21O18.1 |
| 0.233462033 | 0.170070207 | 0.289 | 1 | 23043 | TNIK |
| 0.232947233 | 0.171034543 | 0.276 | 1 | 57536 | KIAA1328 |
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| 0.231145431 | 0.174440867 | 0.293 | 1 | 170691 | ADAMTS17 |
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| 0.230630631 | 0.17542303 | 0.275 | 1 | 85359 | DGCR6L |
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| 0.144368994 | 1.84858E-40 | 54946 | SLC41A3 |
| 0.144321713 | 1.96095E-40 | 157807 | RLBP1L1 |
| 0.144292088 | 2.03479E-40 | 340811 | AKR1CL1 |
| 0.144273896 | 2.0815E-40 | 9473 | C1orf38 |
| 0.144259505 | 2.1192E-40 | 54440 | SASH3 |
| 0.144220006 | 2.22621E-40 | 2525 | FUT3 |
| 0.144166101 | 2.38097E-40 | 7262 | PHLDA2 |
| 0.144114802 | 2.53816E-40 | 201294 | UNC13D |
| 0.144114362 | 2.53955E-40 | 100129250 | C9ORF133 |
| 0.144083316 | 2.63971E-40 | 30815 | ST6GALNAC6 |
| 0.144026281 | 2.83405E-40 | 114088 | TRIM9 |
| 0.144000018 | 2.92826E-40 | 344657 | LRRIQ4 |
| 0.143968975 | 3.04364E-40 | 59339 | PLEKHA2 |
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| 0.143779949 | 3.85042E-40 | 7531 | YWHAE |
| 0.143692994 | 4.2898E-40 | 287 | ANK2 |
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| 0.142495146 | 1.88764E-39 | 340075 | ARSI |
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| 0.141794606 | 4.46353E-39 | 10536 | LEPREL2 |
| 0.141624269 | 5.49885E-39 | 65982 | ZSCAN18 |
| 0.141600867 | 5.6586E-39 | 4246 | SCGB2A1 |
| 0.141326935 | 7.90932E-39 | 83698 | CALN1 |
| 0.141324375 | 7.93408E-39 | 9733 | SART3 |
| 0.141208928 | 9.1348E-39 | 5457 | POU4F1 |
| 0.141181385 | 9.44699E-39 | 51380 | CSAD |
| 0.141021541 | 1.14797E-38 | 55737 | VPS35 |
| 0.141010679 | 1.16326E-38 | 643394 | SPINK9 |
| 0.140881189 | 1.36196E-38 | 10573 | MRPL28 |
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| 0.140539053 | 2.06447E-38 | 7268 | TTC4 |
| 0.140450866 | 2.29772E-38 | 116071 | BATF2 |
| 0.140381304 | 2.50003E-38 | 5452 | POU2F2 |
| 0.140163559 | 3.25495E-38 | 2209 | FCGR1A |
| 0.140082488 | 3.59059E-38 | 124997 | WDR81 |
| 0.139802333 | 5.03794E-38 | 81558 | FAM117A |
| 0.139695073 | 5.73439E-38 | 9365 | KL |
| 0.139648878 | 6.06307E-38 | 11178 | LZTS1 |
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| 0.224710425 | 0.187005513 | 0.29 | 1 | 5602 | MAPK10 |
| 0.224453024 | 0.187521185 | 0.291 | 1 | 3739 | KCNA4 |
| 0.224453024 | 0.187521185 | 0.286 | 1 | 112611 | RWDD2A |
| 0.223938224 | 0.188555569 | 0.29 | 1 | 55681 | SCYL2 |
| 0.223938224 | 0.188555569 | 0.277 | 1 | 391123 | VSIG8 |
| 0.223680824 | 0.189074284 | 0.278 | 1 | 54943 | DNAJC28 |
| 0.223423423 | 0.189594014 | 0.273 | 1 | 5116 | PCNT |
| 0.223423423 | 0.189594014 | 0.278 | 1 | 23564 | DDAH2 |
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| 0.223166023 | 0.19011476 | 0.295 | 1 | 90410 | IFT20 |
| 0.222908623 | 0.190636523 | 0.287 | 1 | 91120 | ZNF682 |
| 0.222651223 | 0.191159305 | 0.293 | 1 | 256471 | MFSD8 |
| 0.222651223 | 0.191159305 | 0.295 | 1 | 285315 | C3orf33 |
| 0.222393822 | 0.191683104 | 0.279 | 1 | 80210 | ARMC9 |
| 0.222393822 | 0.191683104 | 0.27 | 1 | 84193 | SETD3 |
| 0.222136422 | 0.192207923 | 0.291 | 1 | 4644 | MYO5A |
| 0.222136422 | 0.192207923 | 0.279 | 1 | 23135 | KDM6B |
| 0.221879022 | 0.192733762 | 0.295 | 1 | 1175 | AP2S1 |
| 0.221879022 | 0.192733762 | 0.287 | 1 | 6334 | SCN8A |
| 0.221621622 | 0.193260622 | 0.289 | 1 | 60 | ACTB |
| 0.221621622 | 0.193260622 | 0.248 | 1 | 54328 | GPR173 |
| 0.221621622 | 0.193260622 | 0.274 | 1 | 60673 | C12orf44 |
| 0.221621622 | 0.193260622 | 0.241 | 1 | 114569 | MAL2 |
| 0.221364221 | 0.193788503 | 0.303 | 1 | 4094 | MAF |
| 0.221364221 | 0.193788503 | 0.272 | 1 | 100128771 | EIF4BP3 |
| 0.221106821 | 0.194317406 | 0.303 | 1 | 7138 | TNNT1 |
| 0.221106821 | 0.194317406 | 0.302 | 1 | 100129034 | LOC100129034 |
| 0.220592021 | 0.19537828 | 0.301 | 1 | 8825 | LIN7A |
| 0.220592021 | 0.19537828 | 0.247 | 1 | 9535 | GMFG |
| 0.220592021 | 0.19537828 | 0.259 | 1 | 50626 | CYHR1 |
| 0.22033462 | 0.195910254 | 0.272 | 1 | 3964 | LGALS8 |
| 0.22033462 | 0.195910254 | 0.321 | 1 | 9821 | RB1CC1 |
| 0.22007722 | 0.196443252 | 0.299 | 1 | 84954 | MPND |
| 0.21981982 | 0.196977275 | 0.276 | 1 | 5273 | SERPINB10 |
| 0.21981982 | 0.196977275 | 0.295 | 1 | 10242 | KCNMB2 |
| 0.21956242 | 0.197512325 | 0.3 | 1 | 5393 | EXOSC9 |
| 0.219305019 | 0.198048402 | 0.313 | 1 | 60676 | PAPPA2 |
| 0.219305019 | 0.198048402 | 0.259 | 1 | 79969 | C6orf134 |
| 0.219305019 | 0.198048402 | 0.264 | 1 | 114088 | TRIM9 |
| 0.219305019 | 0.198048402 | 0.288 | 1 | 387923 | SERP2 |
| 0.219305019 | 0.198048402 | 0.291 | 1 | 727910 | TLCD2 |
| 0.219047619 | 0.198585506 | 0.285 | 1 | 6605 | SMARCE1 |
| 0.219047619 | 0.198585506 | 0.29 | 1 | 8260 | NAA10 |
| 0.219047619 | 0.198585506 | 0.302 | 1 | 10299 | MARCHF6 |
| 0.219047619 | 0.198585506 | 0.307 | 1 | 54807 | ZNF586 |
| 0.219047619 | 0.198585506 | 0.302 | 1 | 200845 | KCTD6 |
| 0.219047619 | 0.198585506 | 0.263 | 1 | 390637 | C15orf58 |
| 0.218532819 | 0.199662799 | 0.306 | 1 | 3216 | HOXB6 |
| 0.218532819 | 0.199662799 | 0.305 | 1 | 10485 | C1orf61 |
| 0.218532819 | 0.199662799 | 0.291 | 1 | 27230 | SERP1 |
| 0.218275418 | 0.20020299 | 0.3 | 1 | 6602 | SMARCD1 |
| 0.218275418 | 0.20020299 | 0.302 | 1 | 56999 | ADAMTS9 |
| 0.218018018 | 0.200744211 | 0.286 | 1 | 29108 | PYCARD |
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| 0.217760618 | 0.201286463 | 0.304 | 1 | 27297 | CRCP |
| 0.217503218 | 0.201829746 | 0.331 | 1 | 494197 | SPANXN5 |
| 0.217245817 | 0.202374062 | 0.295 | 1 | 8444 | DYRK3 |
| 0.216988417 | 0.20291941 | 0.299 | 1 | 9992 | KCNE2 |
| 0.216988417 | 0.20291941 | 0.304 | 1 | 53834 | FGFRL1 |
| 0.216731017 | 0.203465792 | 0.312 | 1 | 7556 | ZNF10 |
| 0.216731017 | 0.203465792 | 0.313 | 1 | 9392 | TGFBRAP1 |
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| 0.216473616 | 0.204013208 | 0.274 | 1 | 84832 | ANKRD36BL1 |
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| 0.216216216 | 0.204561658 | 0.307 | 1 | 23566 | LPAR3 |
| 0.215958816 | 0.205111144 | 0.302 | 1 | 55778 | ZNF839 |
| 0.215701416 | 0.205661666 | 0.307 | 1 | 100506164 | HSFX1 |
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| 0.215444015 | 0.206213224 | 0.315 | 1 | 64600 | PLA2G2F |
| 0.215444015 | 0.206213224 | 0.298 | 1 | 154865 | IQUB |
| 0.215186615 | 0.20676582 | 0.283 | 1 | 4001 | LMNB1 |
| 0.215186615 | 0.20676582 | 0.305 | 1 | 83876 | MRO |
| 0.215186615 | 0.20676582 | 0.268 | 1 | 283489 | ZNF828 |
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| 0.214671815 | 0.207874126 | 0.279 | 1 | 55218 | EXD2 |
| 0.214671815 | 0.207874126 | 0.29 | 1 | 140460 | ASB7 |
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| 0.214414414 | 0.208429837 | 0.302 | 1 | 5784 | PTPN14 |
| 0.214414414 | 0.208429837 | 0.307 | 1 | 10745 | PHTF1 |
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| 0.139398334 | 8.2003E-38 | 140701 | C20orf135 |
| 0.139324496 | 8.96254E-38 | 158866 | ZDHHC15 |
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| 0.139064719 | 1.22482E-37 | 57510 | XPO5 |
| 0.138996478 | 1.32941E-37 | 84343 | HPS3 |
| 0.138893247 | 1.50474E-37 | 644794 | LOC644794 |
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| 0.138828835 | 1.62559E-37 | 57343 | ZNF304 |
| 0.138823335 | 1.63634E-37 | 2161 | F12 |
| 0.138768474 | 1.74757E-37 | 3301 | DNAJA1 |
| 0.138641693 | 2.0342E-37 | 9791 | PTDSS1 |
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| 0.138505963 | 2.39298E-37 | 157773 | C8orf48 |
| 0.138497844 | 2.41633E-37 | 84193 | SETD3 |
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| 0.138304996 | 3.04272E-37 | 65057 | ACD |
| 0.138276056 | 3.14971E-37 | 92292 | GLYATL1 |
| 0.138272813 | 3.16194E-37 | 729475 | RAD51AP2 |
| 0.13826928 | 3.1753E-37 | 441273 | SPDYE2 |
| 0.13814379 | 3.68834E-37 | 200159 | C1orf100 |
| 0.13814272 | 3.69305E-37 | 6400 | SEL1L |
| 0.13806107 | 4.07075E-37 | 403239 | OR2T27 |
| 0.137854229 | 5.20822E-37 | 83706 | FERMT3 |
| 0.137772825 | 5.73799E-37 | 525 | ATP6V1B1 |
| 0.137713373 | 6.15843E-37 | 57333 | RCN3 |
| 0.137697833 | 6.27329E-37 | 5025 | P2RX4 |
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| 0.137541552 | 7.55349E-37 | 55534 | MAML3 |
| 0.137538435 | 7.5815E-37 | 23174 | ZCCHC14 |
| 0.137514655 | 7.79865E-37 | 50509 | COL5A3 |
| 0.137502295 | 7.91394E-37 | 164781 | WDR69 |
| 0.137476646 | 8.15861E-37 | 8744 | TNFSF9 |
| 0.13744399 | 8.48104E-37 | 7561 | ZNF14 |
| 0.137319517 | 9.83043E-37 | 388021 | TMEM179 |
| 0.137313589 | 9.89976E-37 | 147381 | CBLN2 |
| 0.137297534 | 1.009E-36 | 117 | ADCYAP1R1 |
| 0.136879579 | 1.65475E-36 | 56986 | DTWD1 |
| 0.136703583 | 2.03704E-36 | 84981 | MIR22HG |
| 0.136681084 | 2.09185E-36 | 29035 | C16orf72 |
| 0.136590655 | 2.32732E-36 | 23275 | POFUT2 |
| 0.136545004 | 2.45601E-36 | 1592 | CYP26A1 |
| 0.136543081 | 2.46158E-36 | 8530 | CST7 |
| 0.136494687 | 2.60606E-36 | 26251 | KCNG2 |
| 0.136457864 | 2.72161E-36 | 81833 | SPACA1 |
| 0.136455948 | 2.72776E-36 | 8512 | MBL1P |
| 0.136385783 | 2.96274E-36 | 151613 | TTC14 |
| 0.136291561 | 3.3102E-36 | 5368 | PNOC |
| 0.136234584 | 3.53966E-36 | 55319 | C4orf43 |
| 0.136216615 | 3.61525E-36 | 440712 | C1orf186 |
| 0.135984951 | 4.74614E-36 | 23262 | HISPPD1 |
| 0.135981149 | 4.76737E-36 | 26063 | DECR2 |
| 0.135777421 | 6.05416E-36 | 11021 | RAB35 |
| 0.13573827 | 6.33839E-36 | 7556 | ZNF10 |
| 0.135711377 | 6.54126E-36 | 93408 | MYL10 |
| 0.135674859 | 6.82711E-36 | 10381 | RP11-566K11.2 |
| 0.135643469 | 7.08271E-36 | 348013 | FAM70B |
| 0.135510372 | 8.27641E-36 | 51301 | GCNT4 |
| 0.135475547 | 8.62044E-36 | 9653 | HS2ST1 |
| 0.135438197 | 9.00522E-36 | 392196 | RP11-1236K1.8 |
| 0.13542223 | 9.17487E-36 | 10694 | CCT8 |
| 0.135314566 | 1.04047E-35 | 122664 | TPPP2 |
| 0.135296189 | 1.06304E-35 | 150737 | TTC30B |
| 0.135269105 | 1.0972E-35 | 84954 | MPND |
| 0.135189669 | 1.20379E-35 | 2561 | GABRB2 |
| 0.135157669 | 1.24958E-35 | 8470 | SORBS2 |
| 0.13514654 | 1.2659E-35 | 93650 | ACPT |
| 0.135013338 | 1.47857E-35 | 5331 | PLCB3 |
| 0.134925435 | 1.63799E-35 | 57224 | NHSL1 |
| 0.134854099 | 1.77982E-35 | 116931 | MED12L |
| 0.134799283 | 1.89705E-35 | 1113 | CHGA |
| 0.134619871 | 2.33701E-35 | 10746 | MAP3K2 |
| 0.134555083 | 2.51966E-35 | 10870 | HCST |
| 0.134508068 | 2.66101E-35 | 6185 | RPN2 |
| 0.134302395 | 3.37791E-35 | 440043 | PGAM1P8 |
| 0.134267837 | 3.51592E-35 | 60385 | TSKS |
| 0.134219597 | 3.718E-35 | 92092 | ZC3HAV1L |
| 0.133915549 | 5.28531E-35 | 94137 | RP1L1 |
| 0.133898774 | 5.38875E-35 | 282617 | IL28B |
| 0.133703537 | 6.75119E-35 | 7574 | ZNF26 |
| 0.13368149 | 6.92509E-35 | 63905 | MANBAL |

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| 0.213899614 | 0.209544379 | 0.308 | 1 | 200942 | KLHDC8B |
| 0.213899614 | 0.209544379 | 0.304 | 1 | 222484 | LNX2 |
| 0.213642214 | 0.210103211 | 0.299 | 1 | 143282 | FGFBP3 |
| 0.213127413 | 0.211224 | 0.318 | 1 | 768206 | PRCD |
| 0.212870013 | 0.211785959 | 0.31 | 1 | 3836 | KPNA1 |
| 0.212612613 | 0.21234896 | 0.362 | 1 | 81610 | FAM83D |
| 0.212612613 | 0.21234896 | 0.303 | 1 | 252839 | TMEM9 |
| 0.212612613 | 0.21234896 | 0.321 | 1 | 375057 | C1orf95 |
| 0.212355212 | 0.212913006 | 0.305 | 1 | 6248 | RSC1A1 |
| 0.212355212 | 0.212913006 | 0.324 | 1 | 54496 | PRMT7 |
| 0.212355212 | 0.212913006 | 0.308 | 1 | 56124 | PCDHB12 |
| 0.212355212 | 0.212913006 | 0.326 | 1 | 340385 | ZNF517 |
| 0.212097812 | 0.213478095 | 0.295 | 1 | 8079 | MLF2 |
| 0.212097812 | 0.213478095 | 0.279 | 1 | 55219 | TMEM57 |
| 0.212097812 | 0.213478095 | 0.299 | 1 | 286514 | MAGEB18 |
| 0.211840412 | 0.21404423 | 0.308 | 1 | 4794 | NFKBIE |
| 0.211840412 | 0.21404423 | 0.324 | 1 | 163259 | DENND2C |
| 0.211583012 | 0.214611411 | 0.291 | 1 | 3833 | KIFC1 |
| 0.211583012 | 0.214611411 | 0.309 | 1 | 10463 | SLC30A9 |
| 0.211583012 | 0.214611411 | 0.312 | 1 | 29844 | TFPT |
| 0.211583012 | 0.214611411 | 0.309 | 1 | 55728 | N4BP2 |
| 0.211325611 | 0.215179638 | 0.304 | 1 | 79902 | NUP85 |
| 0.211068211 | 0.215748911 | 0.309 | 1 | 6519 | SLC3A1 |
| 0.211068211 | 0.215748911 | 0.302 | 1 | 9275 | BCL7B |
| 0.211068211 | 0.215748911 | 0.31 | 1 | 127933 | UHMK1 |
| 0.211068211 | 0.215748911 | 0.286 | 1 | 347741 | OTOP3 |
| 0.210810811 | 0.216319232 | 0.294 | 1 | 23542 | MAPK8IP2 |
| 0.210810811 | 0.216319232 | 0.309 | 1 | 161394 | SAMD15 |
| 0.210553411 | 0.2168906 | 0.304 | 1 | 80755 | AARSD1 |
| 0.210553411 | 0.2168906 | 0.324 | 1 | 441728 | GOLGA6B |
| 0.21029601 | 0.217463017 | 0.296 | 1 | 80020 | FOXRED2 |
| 0.21003861 | 0.218036483 | 0.301 | 1 | 644192 | RP11-327J17.3 |
| 0.20952381 | 0.219186564 | 0.333 | 1 | 10053 | AP1M2 |
| 0.209266409 | 0.21976318 | 0.296 | 1 | 10622 | POLR3G |
| 0.209266409 | 0.21976318 | 0.281 | 1 | 100131454 | AC087392.3 |
| 0.208751609 | 0.220919565 | 0.299 | 1 | 26507 | CNNM1 |
| 0.208494208 | 0.221499336 | 0.343 | 1 | 9720 | CCDC144A |
| 0.208236808 | 0.22208016 | 0.341 | 1 | 2960 | GTF2E1 |
| 0.207979408 | 0.222662037 | 0.322 | 1 | 5695 | PSMB7 |
| 0.207979408 | 0.222662037 | 0.337 | 1 | 9668 | ZNF432 |
| 0.207464607 | 0.223828952 | 0.294 | 1 | 1436 | CSF1R |
| 0.207464607 | 0.223828952 | 0.302 | 1 | 2713 | GK3P |
| 0.207464607 | 0.223828952 | 0.312 | 1 | 9841 | ZBTB24 |
| 0.207207207 | 0.224413992 | 0.313 | 1 | 6400 | SEL1L |
| 0.206949807 | 0.225000087 | 0.335 | 1 | 4990 | SIX6 |
| 0.206949807 | 0.225000087 | 0.329 | 1 | 441208 | ZNRF2P1 |
| 0.206692407 | 0.225587238 | 0.326 | 1 | 10447 | FAM3C |
| 0.206435006 | 0.226175444 | 0.318 | 1 | 57600 | FNIP2 |
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| 0.206435006 | 0.226175444 | 0.332 | 1 | 341883 | LRRC9 |
| 0.206177606 | 0.226764708 | 0.32 | 1 | 8321 | FZD1 |
| 0.205920206 | 0.227355029 | 0.312 | 1 | 7409 | VAV1 |
| 0.205662806 | 0.227946408 | 0.314 | 1 | 393 | ARHGAP4 |
| 0.205662806 | 0.227946408 | 0.323 | 1 | 5691 | PSMB3 |
| 0.205662806 | 0.227946408 | 0.327 | 1 | 130940 | CCDC148 |
| 0.205662806 | 0.227946408 | 0.337 | 1 | 139189 | DGKK |
| 0.205405405 | 0.228538845 | 0.327 | 1 | 4482 | MSRA |
| 0.205405405 | 0.228538845 | 0.344 | 1 | 30820 | KCNIP1 |
| 0.205148005 | 0.229132341 | 0.323 | 1 | 23219 | FBXO28 |
| 0.205148005 | 0.229132341 | 0.323 | 1 | 64062 | RBM26 |
| 0.205148005 | 0.229132341 | 0.325 | 1 | 219957 | OR9Q2 |
| 0.204633205 | 0.23032251 | 0.347 | 1 | 4212 | MEIS2 |
| 0.204633205 | 0.23032251 | 0.326 | 1 | 55422 | ZNF331 |
| 0.204375804 | 0.230919185 | 0.335 | 1 | 445329 | SULT1A4 |
| 0.204118404 | 0.23151692 | 0.333 | 1 | 988 | CDC5L |
| 0.204118404 | 0.23151692 | 0.342 | 1 | 440934 | AC010980.2 |
| 0.203861004 | 0.232115716 | 0.307 | 1 | 51659 | GINS2 |
| 0.203861004 | 0.232115716 | 0.339 | 1 | 91768 | CABLES1 |
| 0.203861004 | 0.232115716 | 0.325 | 1 | 225689 | MAPK15 |
| 0.203603604 | 0.232715574 | 0.354 | 1 | 57142 | RTN4 |
| 0.203603604 | 0.232715574 | 0.342 | 1 | 91408 | BTF3L4 |
| 0.203088803 | 0.233918476 | 0.322 | 1 | 10193 | RNF41 |
| 0.203088803 | 0.233918476 | 0.362 | 1 | 196394 | AMN1 |
| 0.202831403 | 0.234521522 | 0.352 | 1 | 23196 | FAM120A |
| 0.202316602 | 0.235730802 | 0.348 | 1 | 9733 | SART3 |
| 0.202316602 | 0.235730802 | 0.325 | 1 | 122664 | TPPP2 |
| 0.201801802 | 0.236944339 | 0.334 | 1 | 10073 | SNUPN |
| 0.201801802 | 0.236944339 | 0.344 | 1 | 23592 | LEMD3 |
| 0.201801802 | 0.236944339 | 0.317 | 1 | 341880 | SLC35F4 |
| 0.201544402 | 0.237552705 | 0.352 | 1 | 317701 | VN1R2 |
| 0.201287001 | 0.238162137 | 0.314 | 1 | 153770 | PLAC8L1 |
| 0.201029601 | 0.238772634 | 0.303 | 1 | 23220 | DTX4 |

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| 0.133499129 | 8.54504E-35 | 11138 | TBC1D8 |
| 0.133480405 | 8.73132E-35 | 3556 | IL1RAP |
| 0.133471981 | 8.81644E-35 | 440184 | LINC00238 |
| 0.133380001 | 9.80121E-35 | 55220 | KLHDC8A |
| 0.133332527 | 1.03515E-34 | 65989 | DLK2 |
| 0.133330601 | 1.03744E-34 | 164656 | TMPRSS6 |
| 0.133311035 | 1.06106E-34 | 653657 | AC010606.4 |
| 0.133186744 | 1.22404E-34 | 4282 | MIF |
| 0.132897562 | 1.70589E-34 | 9154 | SLC28A1 |
| 0.132865694 | 1.76936E-34 | 1421 | CRYGD |
| 0.132848048 | 1.80551E-34 | 51105 | PHF20L1 |
| 0.132790295 | 1.92904E-34 | 203259 | C9orf25 |
| 0.132710601 | 2.11338E-34 | 152789 | JAKMIP1 |
| 0.132667624 | 2.21995E-34 | 65018 | PINK1 |
| 0.132665808 | 2.22457E-34 | 387758 | FIBIN |
| 0.132662916 | 2.23195E-34 | 53354 | PANK1 |
| 0.132636619 | 2.30013E-34 | 8504 | PEX3 |
| 0.132550819 | 2.53733E-34 | 337978 | KRTAP21-2 |
| 0.132294676 | 3.3998E-34 | 9016 | SLC25A14 |
| 0.132227026 | 3.6726E-34 | 27152 | INTU |
| 0.132110524 | 4.19429E-34 | 643376 | AP001931.1 |
| 0.132106619 | 4.213E-34 | 83755 | KRTAP4-12 |
| 0.132101301 | 4.23861E-34 | 4588 | MUC6 |
| 0.131968075 | 4.93311E-34 | 1066 | CES1 |
| 0.131962779 | 4.96294E-34 | 57620 | STIM2 |
| 0.131958877 | 4.98504E-34 | 22848 | AAK1 |
| 0.131942158 | 5.08081E-34 | 143630 | UBQLNL |
| 0.131791915 | 6.02769E-34 | 64754 | SMYD3 |
| 0.131666461 | 6.95117E-34 | 2553 | GABPB1 |
| 0.131552712 | 7.90927E-34 | 26037 | SIPA1L1 |
| 0.131530713 | 8.10917E-34 | 266697 | POM121L4P |
| 0.13148572 | 8.53377E-34 | 203 | AK1 |
| 0.131428643 | 9.1043E-34 | 27120 | DKKL1 |
| 0.13140471 | 9.35466E-34 | 4689 | NCF4 |
| 0.131250421 | 1.11411E-33 | 23118 | MAP3K7IP2 |
| 0.131210899 | 1.16507E-33 | 10621 | POLR3F |
| 0.131140925 | 1.26106E-33 | 10904 | BLCAP |
| 0.13106604 | 1.37249E-33 | 56111 | PCDHGA4 |
| 0.130972514 | 1.52548E-33 | 337976 | KRTAP20-2 |
| 0.130931934 | 1.59702E-33 | 285962 | RP5-894A10.1 |
| 0.13091305 | 1.63144E-33 | 10640 | EXOC5 |
| 0.130846186 | 1.75933E-33 | 6019 | RLN2 |
| 0.130801223 | 1.85088E-33 | 7476 | WNT7A |
| 0.130675477 | 2.13282E-33 | 339168 | TMEM95 |
| 0.130661325 | 2.1671E-33 | 26098 | C10orf137 |
| 0.130650965 | 2.19255E-33 | 29979 | UBQLN1 |
| 0.130556463 | 2.43879E-33 | 9777 | TM9SF4 |
| 0.130450921 | 2.74638E-33 | 10620 | ARID3B |
| 0.130411226 | 2.87178E-33 | 57221 | KIAA1244 |
| 0.130330148 | 3.14586E-33 | 167359 | AC114947.2 |
| 0.130327348 | 3.15577E-33 | 6507 | SLC1A3 |
| 0.130311869 | 3.21115E-33 | 333929 | SNAI3 |
| 0.130164155 | 3.79061E-33 | 201595 | STT3B |
| 0.130156128 | 3.82492E-33 | 54734 | RAB39 |
| 0.130136799 | 3.9088E-33 | 26267 | FBXO10 |
| 0.129988939 | 4.61385E-33 | 3227 | HOXC11 |
| 0.129982542 | 4.64705E-33 | 8542 | APOL1 |
| 0.129957913 | 4.77711E-33 | 9389 | SLC22A14 |
| 0.129944041 | 4.85195E-33 | 641702 | FAM138E |
| 0.129898789 | 5.10427E-33 | 55664 | CDC37L1 |
| 0.129799112 | 5.70694E-33 | 6338 | SCNN1B |
| 0.129705525 | 6.3369E-33 | 55061 | SUSD4 |
| 0.129543692 | 7.59334E-33 | 113146 | AHNAK2 |
| 0.129543385 | 7.59594E-33 | 440738 | MAP1LC3C |
| 0.129447819 | 8.4513E-33 | 85320 | ABCC11 |
| 0.129366999 | 9.24883E-33 | 8061 | FOSL1 |
| 0.129350099 | 9.42482E-33 | 2821 | GPI |
| 0.129328836 | 9.65098E-33 | 60560 | MAK10 |
| 0.129262502 | 1.03917E-32 | 286097 | EFHA2 |
| 0.129037183 | 1.33552E-32 | 60487 | TRMT11 |
| 0.128893023 | 1.56771E-32 | 22950 | SLC4A1AP |
| 0.12880001 | 1.73835E-32 | 127003 | C1orf194 |
| 0.128792932 | 1.75207E-32 | 54927 | CHCHD3 |
| 0.128783773 | 1.76998E-32 | 9915 | ARNT2 |
| 0.128448465 | 2.56707E-32 | 261729 | STEAP2 |
| 0.128427649 | 2.62693E-32 | 8821 | INPP4B |
| 0.128424441 | 2.63628E-32 | 148137 | C19orf55 |
| 0.128399292 | 2.7107E-32 | 93145 | OLFM2 |
| 0.128285178 | 3.0755E-32 | 79735 | TBC1D17 |
| 0.128076669 | 3.87238E-32 | 55813 | UTP6 |
| 0.127988274 | 4.26922E-32 | 5199 | CFP |
| 0.127874227 | 4.8414E-32 | 23641 | LDOC1 |

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|---|---|---|---|---|---|
| 0.201029601 | 0.238772634 | 0.334 | 1 | 51130 | ASB3 |
| 0.201029601 | 0.238772634 | 0.318 | 1 | 80025 | PANK2 |
| 0.201029601 | 0.238772634 | 0.338 | 1 | 85358 | SHANK3 |
| 0.200772201 | 0.239384197 | 0.346 | 1 | 10974 | C10orf116 |
| 0.200772201 | 0.239384197 | 0.313 | 1 | 644054 | FAM25C |
| 0.200514801 | 0.239996828 | 0.34 | 1 | 7275 | TUB |
| 0.200514801 | 0.239996828 | 0.334 | 1 | 342977 | NANOS3 |
| 0.2002574 | 0.240610525 | 0.33 | 1 | 1496 | CTNNA2 |
| 0.2002574 | 0.240610525 | 0.371 | 1 | 5453 | POU3F1 |
| 0.2 | 0.24122529 | 0.333 | 1 | 1820 | ARID3A |
| 0.2 | 0.24122529 | 0.352 | 1 | 3783 | KCNN4 |
| 0.2 | 0.24122529 | 0.346 | 1 | 26051 | PPP1R16B |
| 0.199485199 | 0.242458023 | 0.332 | 1 | 51102 | MECR |
| 0.199227799 | 0.243075993 | 0.311 | 1 | 284297 | AC008735.3 |
| 0.198970399 | 0.243695032 | 0.357 | 1 | 5328 | PLAU |
| 0.198970399 | 0.243695032 | 0.362 | 1 | 148103 | ZNF599 |
| 0.198712999 | 0.24431514 | 0.331 | 1 | 2261 | FGFR3 |
| 0.198712999 | 0.24431514 | 0.317 | 1 | 23760 | PITPNB |
| 0.198712999 | 0.24431514 | 0.357 | 1 | 220074 | AP000812.2 |
| 0.198455598 | 0.244936318 | 0.331 | 1 | 65260 | SELRC1 |
| 0.198198198 | 0.245558566 | 0.325 | 1 | 7701 | ZNF142 |
| 0.198198198 | 0.245558566 | 0.317 | 1 | 51251 | NT5C3 |
| 0.197940798 | 0.246181884 | 0.384 | 1 | 23288 | IQCE |
| 0.197683398 | 0.246806274 | 0.337 | 1 | 285180 | RUFY4 |
| 0.197168597 | 0.248058267 | 0.338 | 1 | 6572 | SLC18A3 |
| 0.196911197 | 0.248685872 | 0.336 | 1 | 2782 | GNB1 |
| 0.196653797 | 0.249314549 | 0.362 | 1 | 57216 | VANGL2 |
| 0.196396396 | 0.249944298 | 0.349 | 1 | 10480 | EIF3M |
| 0.196396396 | 0.249944298 | 0.344 | 1 | 57787 | MARK4 |
| 0.196138996 | 0.250575121 | 0.328 | 1 | 152006 | RNF38 |
| 0.195881596 | 0.251207017 | 0.344 | 1 | 10056 | FARSB |
| 0.195881596 | 0.251207017 | 0.341 | 1 | 54809 | SAMD9 |
| 0.195366795 | 0.25247403 | 0.358 | 1 | 55610 | CCDC132 |
| 0.195366795 | 0.25247403 | 0.345 | 1 | 57162 | PELI1 |
| 0.195109395 | 0.253109148 | 0.347 | 1 | 55207 | ARL8B |
| 0.195109395 | 0.253109148 | 0.322 | 1 | 55973 | BCAP29 |
| 0.194851995 | 0.25374534 | 0.366 | 1 | 5783 | PTPN13 |
| 0.194851995 | 0.25374534 | 0.353 | 1 | 10302 | SNAPC5 |
| 0.194337194 | 0.255020951 | 0.373 | 1 | 163131 | ZNF780B |
| 0.194337194 | 0.255020951 | 0.337 | 1 | 391722 | LOC391722 |
| 0.194079794 | 0.255660369 | 0.325 | 1 | 54914 | KIAA1797 |
| 0.193822394 | 0.256300864 | 0.372 | 1 | 8224 | SYN3 |
| 0.193822394 | 0.256300864 | 0.374 | 1 | 64393 | ZMAT3 |
| 0.193822394 | 0.256300864 | 0.366 | 1 | 220429 | CTAGE10P |
| 0.193564994 | 0.256942434 | 0.364 | 1 | 64430 | C14orf135 |
| 0.193564994 | 0.256942434 | 0.344 | 1 | 79017 | GGCT |
| 0.193307593 | 0.257585081 | 0.344 | 1 | 3760 | KCNJ3 |
| 0.193307593 | 0.257585081 | 0.378 | 1 | 118430 | MUCL1 |
| 0.192792793 | 0.258873606 | 0.347 | 1 | 115353 | LRRC42 |
| 0.192535393 | 0.259519484 | 0.384 | 1 | 1944 | EFNA3 |
| 0.192535393 | 0.259519484 | 0.38 | 1 | 9970 | NR1I3 |
| 0.192535393 | 0.259519484 | 0.378 | 1 | 10137 | RBM12 |
| 0.192277992 | 0.26016644 | 0.349 | 1 | 21 | ABCA3 |
| 0.192277992 | 0.26016644 | 0.337 | 1 | 529 | ATP6V1E1 |
| 0.192277992 | 0.26016644 | 0.345 | 1 | 441061 | MARCHF11 |
| 0.192020592 | 0.260814473 | 0.397 | 1 | 92335 | STRADA |
| 0.192020592 | 0.260814473 | 0.394 | 1 | 283093 | OR4C12 |
| 0.191763192 | 0.261463585 | 0.369 | 1 | 25830 | SULT4A1 |
| 0.191763192 | 0.261463585 | 0.319 | 1 | 169834 | ZNF883 |
| 0.191248391 | 0.262765044 | 0.335 | 1 | 79869 | CPSF7 |
| 0.190990991 | 0.263417392 | 0.364 | 1 | 5792 | PTPRF |
| 0.190990991 | 0.263417392 | 0.361 | 1 | 171177 | RHOV |
| 0.19047619 | 0.264725326 | 0.362 | 1 | 10516 | FBLN5 |
| 0.19021879 | 0.265380912 | 0.367 | 1 | 607 | BCL9 |
| 0.19021879 | 0.265380912 | 0.365 | 1 | 10988 | METAP2 |
| 0.19021879 | 0.265380912 | 0.349 | 1 | 284129 | SLC26A11 |
| 0.18996139 | 0.266037578 | 0.355 | 1 | 55286 | C4orf19 |
| 0.18996139 | 0.266037578 | 0.35 | 1 | 115992 | RNF166 |
| 0.18996139 | 0.266037578 | 0.365 | 1 | 170394 | PWWP2B |
| 0.18970399 | 0.266695324 | 0.377 | 1 | 5545 | PRB4 |
| 0.189446589 | 0.267354151 | 0.38 | 1 | 387644 | LINC00202 |
| 0.189189189 | 0.268014058 | 0.36 | 1 | 2114 | ETS2 |
| 0.189189189 | 0.268014058 | 0.358 | 1 | 59348 | ZNF350 |
| 0.189189189 | 0.268014058 | 0.383 | 1 | 359845 | FAM101B |
| 0.188931789 | 0.268675046 | 0.385 | 1 | 56154 | TEX15 |
| 0.188931789 | 0.268675046 | 0.354 | 1 | 283078 | MKX |
| 0.188674389 | 0.269337115 | 0.378 | 1 | 611 | OPN1SW |
| 0.188674389 | 0.269337115 | 0.379 | 1 | 399948 | C11orf92 |
| 0.188416988 | 0.270000265 | 0.39 | 1 | 25934 | NIPSNAP3A |
| 0.188416988 | 0.270000265 | 0.377 | 1 | 57498 | KIDINS220 |
| 0.188416988 | 0.270000265 | 0.358 | 1 | 90871 | C9orf123 |
| 0.187902188 | 0.27132981 | 0.362 | 1 | 7329 | UBE2I |

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| 0.127790907 | 5.30695E-32 | 124773 | C17orf64 |
| 0.127785616 | 5.33798E-32 | 28982 | FLVCR1 |
| 0.127687558 | 5.94659E-32 | 266675 | BEST4 |
| 0.127627541 | 6.35258E-32 | 64223 | MLST8 |
| 0.127623984 | 6.37749E-32 | 11189 | CELF3 |
| 0.127544358 | 6.96114E-32 | 1054 | CEBPG |
| 0.127498447 | 7.32146E-32 | 157556 | C8orf56 |
| 0.127473769 | 7.52272E-32 | 4045 | LSAMP |
| 0.127429865 | 7.89446E-32 | 6920 | TCEA3 |
| 0.127379261 | 8.3456E-32 | 23623 | RUSC1 |
| 0.127352275 | 8.59655E-32 | 8717 | TRADD |
| 0.12727414 | 9.36617E-32 | 3623 | INHA |
| 0.127149599 | 1.07366E-31 | 255313 | CT47A11 |
| 0.127094184 | 1.14087E-31 | 51172 | NAGPA |
| 0.127039837 | 1.21084E-31 | 642696 | AC007601.1 |
| 0.127000377 | 1.2643E-31 | 84342 | COG8 |
| 0.126969977 | 1.30707E-31 | 200933 | FBXO45 |
| 0.126912909 | 1.39129E-31 | 29895 | MYLPF |
| 0.126780706 | 1.60764E-31 | 140707 | BRI3BP |
| 0.126654788 | 1.84465E-31 | 770 | CA11 |
| 0.126638772 | 1.87718E-31 | 27177 | IL1F8 |
| 0.126552745 | 2.06191E-31 | 219844 | HYLS1 |
| 0.126411469 | 2.40521E-31 | 56606 | SLC2A9 |
| 0.126356188 | 2.55448E-31 | 414260 | C10orf136 |
| 0.12632098 | 2.65431E-31 | 55001 | TTC22 |
| 0.126263298 | 2.8263E-31 | 91782 | CHMP7 |
| 0.126231045 | 2.92724E-31 | 2644 | GCHFR |
| 0.126170497 | 3.12649E-31 | 1571 | CYP2E1 |
| 0.126120552 | 3.30095E-31 | 23516 | SLC39A14 |
| 0.125974286 | 3.86938E-31 | 140680 | C20orf96 |
| 0.125967206 | 3.89923E-31 | 57484 | RNF150 |
| 0.125957149 | 3.94204E-31 | 10970 | CKAP4 |
| 0.125946867 | 3.98627E-31 | 441089 | CRSP8P |
| 0.125942368 | 4.00579E-31 | 10228 | STX6 |
| 0.125795753 | 4.6963E-31 | 84639 | IL1F10 |
| 0.125793412 | 4.70824E-31 | 50835 | TAS2R9 |
| 0.125781578 | 4.76902E-31 | 55009 | C19orf24 |
| 0.125775553 | 4.80027E-31 | 30000 | TNPO2 |
| 0.125680907 | 5.31864E-31 | 286256 | LCN12 |
| 0.125412865 | 7.10791E-31 | 26689 | AC005962.2 |
| 0.125403668 | 7.1789E-31 | 2527 | FUT5 |
| 0.125306564 | 7.97283E-31 | 9002 | F2RL3 |
| 0.125059843 | 1.04038E-30 | 51523 | CXXC5 |
| 0.125012861 | 1.0944E-30 | 6662 | SOX9 |
| 0.124902804 | 1.23209E-30 | 4254 | KITLG |
| 0.124748727 | 1.45416E-30 | 84314 | TMEM107 |
| 0.124661712 | 1.59668E-30 | 10262 | SF3B4 |
| 0.124652399 | 1.61273E-30 | 159686 | CCDC147 |
| 0.124546538 | 1.80684E-30 | 643418 | LIPN |
| 0.12449179 | 1.91615E-30 | 3630 | INS |
| 0.124487419 | 1.92515E-30 | 3354 | HTR1E |
| 0.124463059 | 1.97611E-30 | 5970 | RELA |
| 0.124429358 | 2.04883E-30 | 10293 | TRAIP |
| 0.124403266 | 2.10694E-30 | 9582 | APOBEC3B |
| 0.124331479 | 2.27541E-30 | 9935 | MAFB |
| 0.124158801 | 2.7374E-30 | 10579 | TACC2 |
| 0.124157737 | 2.74052E-30 | 26330 | GAPDHS |
| 0.12413804 | 2.79887E-30 | 9127 | P2RX6 |
| 0.124097297 | 2.92351E-30 | 57547 | ZNF624 |
| 0.124027876 | 3.14869E-30 | 400406 | LOC400406 |
| 0.123761295 | 4.18513E-30 | 3171 | FOXA3 |
| 0.123743434 | 4.26559E-30 | 375791 | C9orf169 |
| 0.123737385 | 4.29318E-30 | 246213 | SLC17A8 |
| 0.123644271 | 4.74102E-30 | 5203 | PFDN4 |
| 0.123596379 | 4.98911E-30 | 26258 | PLDN |
| 0.123526746 | 5.37297E-30 | 5081 | PAX7 |
| 0.123499635 | 5.53023E-30 | 10077 | TSPAN32 |
| 0.123366046 | 6.37435E-30 | 51063 | CALHM2 |
| 0.123328629 | 6.6329E-30 | 4326 | MMP17 |
| 0.123323137 | 6.67172E-30 | 5986 | RFNG |
| 0.123298686 | 6.84729E-30 | 64175 | LEPRE1 |
| 0.123256568 | 7.16051E-30 | 9920 | KBTBD11 |
| 0.123086104 | 8.5802E-30 | 29099 | COMMD9 |
| 0.123016799 | 9.23428E-30 | 9921 | RNF10 |
| 0.122824699 | 1.13173E-29 | 23558 | WBP2 |
| 0.122418844 | 1.73749E-29 | 57146 | TMEM159 |
| 0.122417606 | 1.73976E-29 | 146853 | C17orf50 |
| 0.122262042 | 2.04967E-29 | 126549 | ANKLE1 |
| 0.122046324 | 2.57192E-29 | 3817 | KLK2 |
| 0.122043879 | 2.57854E-29 | 126695 | C1orf172 |
| 0.122040072 | 2.58888E-29 | 200373 | AC069154.2 |
| 0.121868187 | 3.10117E-29 | 3980 | LIG3 |

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| 0.187644788 | 0.271996205 | 0.384 | 1 | 4108 | MAGEA9 |
| 0.187387387 | 0.272663683 | 0.351 | 1 | 58512 | DLGAP3 |
| 0.187129987 | 0.273332242 | 0.339 | 1 | 374286 | CDRT1 |
| 0.186872587 | 0.274001884 | 0.357 | 1 | 60468 | BACH2 |
| 0.186872587 | 0.274001884 | 0.361 | 1 | 79054 | TRPM8 |
| 0.186357786 | 0.275344416 | 0.374 | 1 | 3899 | AFF3 |
| 0.186357786 | 0.275344416 | 0.377 | 1 | 197407 | ZNF48 |
| 0.186357786 | 0.275344416 | 0.372 | 1 | 647476 | FLJ20518 |
| 0.186100386 | 0.276017306 | 0.381 | 1 | 10376 | TUBA1B |
| 0.185842986 | 0.27669128 | 0.4 | 1 | 1636 | ACE |
| 0.185585586 | 0.277366336 | 0.351 | 1 | 63979 | FIGNL1 |
| 0.185328185 | 0.278042476 | 0.366 | 1 | 283514 | SIAH3 |
| 0.185328185 | 0.278042476 | 0.373 | 1 | 389812 | LCN15 |
| 0.185070785 | 0.2787197 | 0.383 | 1 | 100131390 | SP9 |
| 0.184813385 | 0.279398008 | 0.416 | 1 | 156 | ADRBK1 |
| 0.184813385 | 0.279398008 | 0.373 | 1 | 4897 | NRCAM |
| 0.184555985 | 0.280077399 | 0.374 | 1 | 23139 | MAST2 |
| 0.184555985 | 0.280077399 | 0.372 | 1 | 57110 | HRASLS |
| 0.184555985 | 0.280077399 | 0.379 | 1 | 80725 | AC115090.1 |
| 0.184041184 | 0.281439434 | 0.372 | 1 | 5803 | PTPRZ1 |
| 0.184041184 | 0.281439434 | 0.38 | 1 | 55352 | C17orf79 |
| 0.183783784 | 0.282122078 | 0.377 | 1 | 57707 | KIAA1609 |
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| 0.113846968 | 1.06248E-25 | 2660 | MSTN |
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| 0.113417363 | 1.61726E-25 | 83637 | ZMIZ2 |
| 0.113387672 | 1.66481E-25 | 140458 | ASB5 |
| 0.113365874 | 1.7006E-25 | 3200 | HOXA3 |
| 0.113270725 | 1.86595E-25 | 389199 | LOC389199 |
| 0.113096739 | 2.21055E-25 | 80148 | PQLC1 |
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| 0.162676963 | 0.341791871 | 0.433 | 1 | 27344 | PCSK1N |
| 0.162419562 | 0.342564509 | 0.44 | 1 | 5460 | POU5F1 |
| 0.162419562 | 0.342564509 | 0.471 | 1 | 26999 | CYFIP2 |
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| 0.162419562 | 0.342564509 | 0.434 | 1 | 729806 | ZNF731P |
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| 0.161904762 | 0.344113021 | 0.452 | 1 | 27433 | TOR2A |
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| 0.161132561 | 0.346443873 | 0.449 | 1 | 79648 | MCPH1 |
| 0.160875161 | 0.347222978 | 0.45 | 1 | 112597 | LINC00152 |
| 0.160875161 | 0.347222978 | 0.462 | 1 | 166785 | MMAA |
| 0.160617761 | 0.34800316 | 0.436 | 1 | 23299 | BICD2 |
| 0.160617761 | 0.34800316 | 0.459 | 1 | 56660 | KCNK12 |
| 0.16036036 | 0.348784418 | 0.435 | 1 | 4363 | ABCC1 |
| 0.16036036 | 0.348784418 | 0.436 | 1 | 124925 | SEZ6 |
| 0.15984556 | 0.350350164 | 0.485 | 1 | 84944 | MAEL |
| 0.15984556 | 0.350350164 | 0.426 | 1 | 647979 | LOC647979 |
| 0.15958816 | 0.35113465 | 0.423 | 1 | 56731 | SLC2A4RG |
| 0.159330759 | 0.351920211 | 0.448 | 1 | 253558 | LCLAT1 |
| 0.159330759 | 0.351920211 | 0.465 | 1 | 440087 | C12orf69 |
| 0.159073359 | 0.352706847 | 0.432 | 1 | 5098 | PCDHGC3 |
| 0.159073359 | 0.352706847 | 0.471 | 1 | 11244 | ZHX1 |
| 0.158558559 | 0.354283343 | 0.421 | 1 | 54921 | CHTF8 |
| 0.158558559 | 0.354283343 | 0.471 | 1 | 349334 | FOXD4L4 |
| 0.158301158 | 0.355073202 | 0.449 | 1 | 55697 | VAC14 |
| 0.158043758 | 0.355864135 | 0.469 | 1 | 9310 | ZNF235 |
| 0.158043758 | 0.355864135 | 0.426 | 1 | 90485 | ZNF835 |
| 0.158043758 | 0.355864135 | 0.447 | 1 | 341277 | OVCH2 |
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| 0.157786358 | 0.356656141 | 0.434 | 1 | 5877 | RABIF |
| 0.157786358 | 0.356656141 | 0.442 | 1 | 124739 | USP43 |
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| 0.157528958 | 0.357449219 | 0.458 | 1 | 4201 | MEA1 |
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| 0.157528958 | 0.357449219 | 0.446 | 1 | 29933 | GPR132 |
| 0.157271557 | 0.35824337 | 0.462 | 1 | 6907 | TBL1X |
| 0.157271557 | 0.35824337 | 0.461 | 1 | 149175 | MANEAL |
| 0.156756757 | 0.359834888 | 0.444 | 1 | 3241 | HPCAL1 |
| 0.156756757 | 0.359834888 | 0.43 | 1 | 55129 | ANO10 |
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| 0.156499356 | 0.360632254 | 0.448 | 1 | 55760 | DHX32 |
| 0.156499356 | 0.360632254 | 0.461 | 1 | 114926 | C8orf40 |
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| 0.156241956 | 0.361430691 | 0.47 | 1 | 1364 | CLDN4 |
| 0.156241956 | 0.361430691 | 0.476 | 1 | 10949 | HNRNPA0 |
| 0.156241956 | 0.361430691 | 0.469 | 1 | 414260 | C10orf136 |
| 0.155984556 | 0.362230198 | 0.454 | 1 | 2953 | GSTT2 |
| 0.155727156 | 0.363030776 | 0.452 | 1 | 398 | ARHGDIG |
| 0.155469755 | 0.363832423 | 0.448 | 1 | 4295 | MLN |
| 0.155469755 | 0.363832423 | 0.468 | 1 | 10316 | NMUR1 |
| 0.155469755 | 0.363832423 | 0.498 | 1 | 10905 | MAN1A2 |
| 0.155469755 | 0.363832423 | 0.466 | 1 | 57348 | TTYH1 |
| 0.155469755 | 0.363832423 | 0.443 | 1 | 221491 | C6orf1 |
| 0.155212355 | 0.36463514 | 0.454 | 1 | 55010 | C12orf48 |
| 0.155212355 | 0.36463514 | 0.455 | 1 | 129642 | MBOAT2 |
| 0.154697555 | 0.36624378 | 0.467 | 1 | 100132304 | RP1-172N19.1 |
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| 0.154440154 | 0.367049702 | 0.487 | 1 | 56949 | XAB2 |
| 0.153925354 | 0.368664749 | 0.472 | 1 | 2889 | RAPGEF1 |
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| 0.153925354 | 0.368664749 | 0.481 | 1 | 152302 | CIDECP |
| 0.153667954 | 0.369473873 | 0.462 | 1 | 6792 | CDKL5 |
| 0.153667954 | 0.369473873 | 0.483 | 1 | 286336 | FAM78A |
| 0.153410553 | 0.370284063 | 0.459 | 1 | 248 | ALPI |
| 0.153410553 | 0.370284063 | 0.463 | 1 | 112885 | PHF21B |
| 0.153153153 | 0.371095319 | 0.479 | 1 | 84239 | ATP13A4 |
| 0.152895753 | 0.371907641 | 0.465 | 1 | 6259 | RYK |
| 0.152895753 | 0.371907641 | 0.472 | 1 | 7565 | ZNF17 |
| 0.152895753 | 0.371907641 | 0.453 | 1 | 26986 | PABPCP5 |
| 0.152895753 | 0.371907641 | 0.471 | 1 | 29086 | C19orf62 |
| 0.152638353 | 0.372721027 | 0.458 | 1 | 4216 | MAP3K4 |
| 0.152638353 | 0.372721027 | 0.452 | 1 | 6650 | SOLH |
| 0.152638353 | 0.372721027 | 0.495 | 1 | 342574 | KRT27 |
| 0.152123552 | 0.374350993 | 0.455 | 1 | 817 | CAMK2D |
| 0.152123552 | 0.374350993 | 0.47 | 1 | 4233 | MET |
| 0.152123552 | 0.374350993 | 0.474 | 1 | 7117 | TMSB4XP8 |
| 0.152123552 | 0.374350993 | 0.466 | 1 | 8318 | CDC45L |

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| 0.113029451 | 2.36013E-25 | 100134934 | C17ORF106 |
| 0.112955414 | 2.5363E-25 | 375323 | LHFPL4 |
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| 0.112756199 | 3.07771E-25 | 221060 | C10orf111 |
| 0.112702379 | 3.24267E-25 | 130827 | TMEM182 |
| 0.11262034 | 3.51112E-25 | 51121 | RPL26L1 |
| 0.112541728 | 3.78898E-25 | 7371 | UCK2 |
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| 0.112403645 | 4.33078E-25 | 3305 | HSPA1L |
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| 0.112300646 | 4.78425E-25 | 84258 | SYT3 |
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| 0.112128584 | 5.64901E-25 | 57473 | ZNF512B |
| 0.112114732 | 5.72502E-25 | 2677 | GGCX |
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| 0.112067818 | 5.99004E-25 | 10367 | CBARA1 |
| 0.11203457 | 6.18518E-25 | 4605 | MYBL2 |
| 0.111995488 | 6.42264E-25 | 55240 | STEAP3 |
| 0.11193213 | 6.82691E-25 | 1832 | DSP |
| 0.111715824 | 8.40658E-25 | 23317 | DNAJC13 |
| 0.111655711 | 8.90655E-25 | 5898 | RALA |
| 0.111624637 | 9.17644E-25 | 116447 | TOP1MT |
| 0.111536187 | 9.9898E-25 | 728047 | AC135983.8 |
| 0.111457198 | 1.07763E-24 | 92609 | TIMM50 |
| 0.111349599 | 1.19472E-24 | 266629 | SEC14L3 |
| 0.111241796 | 1.32465E-24 | 4900 | NRGN |
| 0.111083031 | 1.5419E-24 | 25885 | POLR1A |
| 0.111080808 | 1.54518E-24 | 57393 | TMEM27 |
| 0.111062273 | 1.57279E-24 | 283129 | C11orf85 |
| 0.110880591 | 1.87075E-24 | 57538 | ALPK3 |
| 0.110867391 | 1.89445E-24 | 5727 | PTCH1 |
| 0.110833353 | 1.95697E-24 | 25902 | MTHFD1L |
| 0.110791107 | 2.03741E-24 | 57733 | GBA3 |
| 0.110778875 | 2.0613E-24 | 26100 | WIPI2 |
| 0.110643847 | 2.34426E-24 | 8936 | WASF1 |
| 0.110529059 | 2.61482E-24 | 729313 | LOC729313 |
| 0.110395809 | 2.96787E-24 | 400935 | IL17REL |
| 0.110365868 | 3.05348E-24 | 23253 | ANKRD12 |
| 0.110302346 | 3.24328E-24 | 282974 | STK32C |
| 0.110290391 | 3.28029E-24 | 100128927 | ZBTB42 |
| 0.110235611 | 3.45528E-24 | 386679 | KRTAP10-2 |
| 0.110089394 | 3.96894E-24 | 53841 | MUPCDH |
| 0.110082807 | 3.99378E-24 | 222894 | FERD3L |
| 0.109985109 | 4.38081E-24 | 147906 | DACT3 |
| 0.109959943 | 4.48638E-24 | 2264 | FGFR4 |
| 0.109928268 | 4.62285E-24 | 50831 | TAS2R3 |
| 0.109898006 | 4.75706E-24 | 54542 | RC3H2 |
| 0.109873669 | 4.86779E-24 | 9597 | SMAD5OS |
| 0.109837439 | 5.03738E-24 | 3875 | KRT18P19 |
| 0.109808992 | 5.17462E-24 | 10565 | ARFGEF1 |
| 0.109761571 | 5.41168E-24 | 9551 | ATP5J2 |
| 0.109600958 | 6.29737E-24 | 9348 | NDST3 |
| 0.109481599 | 7.04718E-24 | 219537 | SMTNL1 |
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| 0.109462904 | 7.17237E-24 | 286238 | LOC286238 |
| 0.109441314 | 7.31969E-24 | 414318 | C9orf106 |
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| 0.109146715 | 9.65616E-24 | 54469 | ZFAND6 |
| 0.108844756 | 1.28169E-23 | 126299 | ZNF428 |
| 0.108799066 | 1.33771E-23 | 57482 | KIAA1211 |
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| 0.108614153 | 1.59027E-23 | 3009 | HIST1H1B |
| 0.108613702 | 1.59094E-23 | 353497 | POLN |
| 0.108587222 | 1.6308E-23 | 54984 | PINX1 |
| 0.108516851 | 1.74158E-23 | 3790 | KCNS3 |
| 0.108429353 | 1.88976E-23 | 80228 | ORAI2 |
| 0.108359376 | 2.0172E-23 | 161357 | MDGA2 |
| 0.108319306 | 2.09396E-23 | 116369 | SLC26A8 |
| 0.108286752 | 2.15845E-23 | 3138 | HLA-K |
| 0.108115376 | 2.53179E-23 | 80054 | LOC80054 |
| 0.108068571 | 2.64442E-23 | 1434 | CSE1L |
| 0.108049103 | 2.69272E-23 | 57152 | SLURP1 |
| 0.107972459 | 2.8915E-23 | 1778 | DYNC1H1 |
| 0.107889002 | 3.12449E-23 | 10509 | SEMA4B |
| 0.107859426 | 3.21144E-23 | 27034 | ACAD8 |
| 0.107840589 | 3.26807E-23 | 140465 | MYL6B |
| 0.107726072 | 3.63421E-23 | 8756 | ADAM7 |
| 0.107623025 | 3.99822E-23 | 7092 | TLL1 |
| 0.107605507 | 4.06359E-23 | 346528 | OR2A1 |

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| 0.152123552 | 0.374350993 | 0.466 | 1 | 100128569 | C19orf71 |
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| 0.151866152 | 0.375167572 | 0.452 | 1 | 196792 | FAM24B |
| 0.151608752 | 0.375985214 | 0.445 | 1 | 401494 | PTPLAD2 |
| 0.150579151 | 0.379266402 | 0.461 | 1 | 501 | ALDH7A1 |
| 0.150579151 | 0.379266402 | 0.45 | 1 | 1629 | DBT |
| 0.15032175 | 0.380089352 | 0.483 | 1 | 79717 | PPCS |
| 0.15032175 | 0.380089352 | 0.499 | 1 | 85013 | TMEM128 |
| 0.15032175 | 0.380089352 | 0.496 | 1 | 134701 | C6orf59 |
| 0.15006435 | 0.380913362 | 0.477 | 1 | 9437 | NCR1 |
| 0.14980695 | 0.381738431 | 0.469 | 1 | 8424 | BBOX1 |
| 0.14980695 | 0.381738431 | 0.475 | 1 | 124245 | ZC3H18 |
| 0.14954955 | 0.38256456 | 0.441 | 1 | 25794 | FSCN2 |
| 0.14954955 | 0.38256456 | 0.479 | 1 | 55850 | USE1 |
| 0.14954955 | 0.38256456 | 0.51 | 1 | 93109 | TMEM44 |
| 0.149292149 | 0.383391747 | 0.486 | 1 | 54521 | WDR44 |
| 0.149034749 | 0.384219992 | 0.475 | 1 | 25906 | C11orf51 |
| 0.148777349 | 0.385049295 | 0.453 | 1 | 4901 | NRL |
| 0.148777349 | 0.385049295 | 0.478 | 1 | 84792 | C7orf70 |
| 0.148519949 | 0.385879655 | 0.504 | 1 | 768 | CA9 |
| 0.148519949 | 0.385879655 | 0.474 | 1 | 4811 | NID1 |
| 0.148262548 | 0.386711071 | 0.499 | 1 | 57695 | USP37 |
| 0.148262548 | 0.386711071 | 0.472 | 1 | 652276 | AC141586.5 |
| 0.148005148 | 0.387543543 | 0.478 | 1 | 662 | BNIP1 |
| 0.147747748 | 0.38837707 | 0.458 | 1 | 26240 | FAM50B |
| 0.147490347 | 0.389211652 | 0.505 | 1 | 8828 | NRP2 |
| 0.147232947 | 0.390047288 | 0.484 | 1 | 7617 | ZNF66P |
| 0.147232947 | 0.390047288 | 0.489 | 1 | 56131 | PCDHB4 |
| 0.147232947 | 0.390047288 | 0.496 | 1 | 100128203 | ENSAP3 |
| 0.146975547 | 0.390883977 | 0.496 | 1 | 2077 | ERF |
| 0.146718147 | 0.39172172 | 0.48 | 1 | 5499 | PPP1CA |
| 0.146460746 | 0.392560515 | 0.483 | 1 | 1571 | CYP2E1 |
| 0.146460746 | 0.392560515 | 0.495 | 1 | 22953 | P2RX2 |
| 0.145945946 | 0.39424126 | 0.514 | 1 | 51063 | CALHM2 |
| 0.145945946 | 0.39424126 | 0.504 | 1 | 80224 | NUBPL |
| 0.145945946 | 0.39424126 | 0.49 | 1 | 159686 | CCDC147 |
| 0.145173745 | 0.396770256 | 0.506 | 1 | 8325 | FZD8 |
| 0.145173745 | 0.396770256 | 0.476 | 1 | 10389 | SCML2 |
| 0.144916345 | 0.397615353 | 0.477 | 1 | 53635 | PTOV1 |
| 0.144658945 | 0.398461499 | 0.524 | 1 | 83550 | GPR101 |
| 0.144658945 | 0.398461499 | 0.484 | 1 | 84186 | ZCCHC7 |
| 0.144658945 | 0.398461499 | 0.508 | 1 | 390205 | AP003108.2 |
| 0.144401544 | 0.399308691 | 0.488 | 1 | 54935 | DUSP23 |
| 0.144401544 | 0.399308691 | 0.485 | 1 | 389332 | LOC389332 |
| 0.144144144 | 0.400156931 | 0.492 | 1 | 79656 | BEND5 |
| 0.144144144 | 0.400156931 | 0.479 | 1 | 401993 | OR2T5 |
| 0.143886744 | 0.401006218 | 0.484 | 1 | 10197 | PSME3 |
| 0.143371943 | 0.402707926 | 0.514 | 1 | 8506 | CNTNAP1 |
| 0.142857143 | 0.404413812 | 0.486 | 1 | 1414 | CRYBB1 |
| 0.142857143 | 0.404413812 | 0.485 | 1 | 55714 | ODZ3 |
| 0.142857143 | 0.404413812 | 0.515 | 1 | 64425 | POLR1E |
| 0.142599743 | 0.405268321 | 0.489 | 1 | 114915 | EPB41L4A-AS1 |
| 0.142342342 | 0.406123871 | 0.478 | 1 | 100129482 | ZNF37BP |
| 0.142084942 | 0.406980463 | 0.53 | 1 | 440275 | EIF2AK4 |
| 0.141827542 | 0.407838096 | 0.504 | 1 | 60684 | C4orf41 |
| 0.141570142 | 0.40869677 | 0.488 | 1 | 81027 | TUBB1 |
| 0.141312741 | 0.409556483 | 0.456 | 1 | 400553 | AC134312.1 |
| 0.141055341 | 0.410417235 | 0.491 | 1 | 83856 | FSD1L |
| 0.140797941 | 0.411279026 | 0.511 | 1 | 118425 | RP11-610O8.1 |
| 0.140797941 | 0.411279026 | 0.525 | 1 | 158038 | LINGO2 |
| 0.14028314 | 0.413005719 | 0.526 | 1 | 5880 | RAC2 |
| 0.14028314 | 0.413005719 | 0.487 | 1 | 7037 | TFRC |
| 0.14028314 | 0.413005719 | 0.51 | 1 | 245806 | VGLL2 |
| 0.13976834 | 0.414736557 | 0.487 | 1 | 122042 | RXFP2 |
| 0.13951094 | 0.415603528 | 0.47 | 1 | 3150 | HMGN1 |
| 0.13951094 | 0.415603528 | 0.5 | 1 | 23600 | AMACR |
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| 0.138996139 | 0.417340572 | 0.501 | 1 | 5352 | PLOD2 |
| 0.138738739 | 0.418210643 | 0.531 | 1 | 3077 | HFE |
| 0.138738739 | 0.418210643 | 0.523 | 1 | 399697 | CTXN2 |
| 0.138481338 | 0.419081746 | 0.51 | 1 | 1832 | DSP |
| 0.138223938 | 0.41995388 | 0.496 | 1 | 57586 | SYT13 |
| 0.137966538 | 0.420827044 | 0.493 | 1 | 1111 | CHEK1 |
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| 0.137709138 | 0.421701238 | 0.503 | 1 | 1869 | E2F1 |
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| 0.137709138 | 0.421701238 | 0.506 | 1 | 55859 | BEX1 |
| 0.137194337 | 0.423452711 | 0.51 | 1 | 4927 | NUP88 |
| 0.137194337 | 0.423452711 | 0.5 | 1 | 114900 | C1QTNF4 |
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| 0.136936937 | 0.424329989 | 0.528 | 1 | 8909 | AC004241.1 |
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| 0.107392125 | 4.95012E-23 | 26189 | OR1A2 |
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| 0.107224376 | 5.77927E-23 | 3852 | KRT5 |
| 0.107055906 | 6.75014E-23 | 9535 | GMFG |
| 0.106916405 | 7.67496E-23 | 114915 | EPB41L4A-AS1 |
| 0.1069162 | 7.67641E-23 | 143941 | TTC36 |
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| 0.111711712 | 0.515139222 | 0.585 | 1 | 84530 | KIAA1853 |
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| 0.111454311 | 0.516113477 | 0.587 | 1 | 10466 | COG5 |
| 0.111454311 | 0.516113477 | 0.594 | 1 | 23231 | AC092436.3 |
| 0.111454311 | 0.516113477 | 0.616 | 1 | 55911 | AC138894.3 |
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| 0.110939511 | 0.518064756 | 0.588 | 1 | 53942 | CNTN5 |
| 0.110682111 | 0.519041777 | 0.571 | 1 | 7727 | ZNF174 |
| 0.110682111 | 0.519041777 | 0.611 | 1 | 28985 | MCTS1 |
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| 0.097887514 | 2.18485E-19 | 8239 | USP9X |
| 0.097830906 | 2.2915E-19 | 51366 | UBR5 |
| 0.097748829 | 2.45532E-19 | 653505 | PPIAL4B |
| 0.097729963 | 2.49459E-19 | 29960 | FTSJ2 |
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| 0.097715897 | 2.52426E-19 | 2877 | GPX2 |
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| 0.096975802 | 4.69171E-19 | 4606 | MYBPC2 |
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| 0.096232219 | 8.70451E-19 | 29800 | ZDHHC1 |
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| 0.095596384 | 1.47107E-18 | 646643 | SBK2 |
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| 0.09552682 | 1.55767E-18 | 257397 | MAP3K7IP3 |
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| 0.095267462 | 1.92723E-18 | 134510 | UBLCP1 |
| 0.095263013 | 1.93427E-18 | 256148 | OR4S1 |
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| 0.094956722 | 2.48531E-18 | 688 | KLF5 |
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| 0.11016731 | 0.520998575 | 0.597 | 1 | 51582 | AZIN1 |
| 0.11016731 | 0.520998575 | 0.598 | 1 | 56164 | STK31 |
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| 0.109395109 | 0.523940644 | 0.591 | 1 | 317649 | EIF4E3 |
| 0.109137709 | 0.52492316 | 0.602 | 1 | 8214 | DGCR6 |
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| 0.107593308 | 0.53083735 | 0.593 | 1 | 51188 | SS18L2 |
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| 0.107335907 | 0.531826217 | 0.601 | 1 | 155054 | ZNF425 |
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| 0.106821107 | 0.533806655 | 0.604 | 1 | 2043 | EPHA4 |
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| 0.105791506 | 0.537778308 | 0.651 | 1 | 340811 | AKR1CL1 |
| 0.105534106 | 0.538773458 | 0.61 | 1 | 9040 | UBE2M |
| 0.105534106 | 0.538773458 | 0.596 | 1 | 23162 | MAPK8IP3 |
| 0.105534106 | 0.538773458 | 0.625 | 1 | 256586 | LYSMD2 |
| 0.105276705 | 0.539769501 | 0.616 | 1 | 7375 | USP4 |
| 0.105276705 | 0.539769501 | 0.582 | 1 | 10227 | MFSD10 |
| 0.105276705 | 0.539769501 | 0.617 | 1 | 112937 | GLB1L3 |
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| 0.105019305 | 0.540766433 | 0.588 | 1 | 4496 | MT1H |
| 0.105019305 | 0.540766433 | 0.607 | 1 | 6124 | RPL4 |
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| 0.104247104 | 0.543762561 | 0.633 | 1 | 57563 | KLHL8 |
| 0.104247104 | 0.543762561 | 0.599 | 1 | 79084 | WDR77 |
| 0.103989704 | 0.544763042 | 0.621 | 1 | 8784 | TNFRSF18 |
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| 0.093790475 | 6.40771E-18 | 114783 | LMTK3 |
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| 0.093436341 | 8.52322E-18 | 3199 | HOXA2 |
| 0.09333486 | 9.24747E-18 | 2251 | FGF6 |
| 0.09316314 | 1.06138E-17 | 43849 | KLK12 |
| 0.093155116 | 1.06823E-17 | 3577 | IL8RA |
| 0.0930533 | 1.15903E-17 | 5607 | MAP2K5 |
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| 0.092956315 | 1.25259E-17 | 100268168 | AC008429.1 |
| 0.092934405 | 1.27473E-17 | 284021 | MILR1 |
| 0.092859584 | 1.35331E-17 | 23125 | CAMTA2 |
| 0.092830782 | 1.38482E-17 | 7286 | TUFT1 |
| 0.092812401 | 1.4053E-17 | 9371 | KIF3B |
| 0.092776176 | 1.44655E-17 | 4976 | OPA1 |
| 0.092768816 | 1.45508E-17 | 165100 | C2orf57 |
| 0.092601089 | 1.66338E-17 | 22797 | TFEC |
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| 0.092162249 | 2.3579E-17 | 56850 | GRIPAP1 |
| 0.092073613 | 2.52955E-17 | 1973 | EIF4A1 |
| 0.092057579 | 2.5619E-17 | 23332 | CLASP1 |
| 0.091997513 | 2.68673E-17 | 256714 | MAP7D2 |
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| 0.091117116 | 5.37701E-17 | 100289274 | DNAJC3-AS1 |
| 0.091104439 | 5.43074E-17 | 2255 | FGF10 |
| 0.091021718 | 5.79454E-17 | 10527 | IPO7 |
| 0.091015897 | 5.82103E-17 | 146850 | PIK3R6 |
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| 0.090636876 | 7.82879E-17 | 7399 | USH2A |
| 0.090508429 | 8.65342E-17 | 11120 | BTN2A1 |

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| 0.101415701 | 0.554816196 | 0.625 | 1 | 50839 | TAS2R10 |
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| 0.101158301 | 0.555826314 | 0.628 | 1 | 692094 | MSMP |
| 0.100900901 | 0.556837299 | 0.64 | 1 | 9900 | SV2A |
| 0.100900901 | 0.556837299 | 0.637 | 1 | 57658 | CALCOCO1 |
| 0.100900901 | 0.556837299 | 0.608 | 1 | 63924 | CIDEC |
| 0.100900901 | 0.556837299 | 0.656 | 1 | 64579 | NDST4 |
| 0.100643501 | 0.55784915 | 0.642 | 1 | 3036 | HAS1 |
| 0.100643501 | 0.55784915 | 0.625 | 1 | 89832 | CHRFAM7A |
| 0.1003861 | 0.558861865 | 0.638 | 1 | 389072 | PLEKHM3 |
| 0.1001287 | 0.559875443 | 0.623 | 1 | 22895 | RPH3A |
| 0.0998713 | 0.560889882 | 0.616 | 1 | 813 | CALU |
| 0.0998713 | 0.560889882 | 0.643 | 1 | 5892 | RAD51L3 |
| 0.0996139 | 0.56190518 | 0.631 | 1 | 3301 | DNAJA1 |
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| 0.099356499 | 0.562921337 | 0.605 | 1 | 6187 | RPS2 |
| 0.099356499 | 0.562921337 | 0.646 | 1 | 493911 | PHOSPHO2 |
| 0.098584299 | 0.565974941 | 0.65 | 1 | 26272 | FBXO4 |
| 0.098584299 | 0.565974941 | 0.647 | 1 | 359710 | C20orf185 |
| 0.098069498 | 0.568014939 | 0.66 | 1 | 5518 | PPP2R1A |
| 0.098069498 | 0.568014939 | 0.654 | 1 | 51029 | PPPDE1 |
| 0.098069498 | 0.568014939 | 0.641 | 1 | 79672 | FN3KRP |
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| 0.096010296 | 0.576208763 | 0.635 | 1 | 80714 | PBX4 |
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| 0.088803089 | 0.605303159 | 0.655 | 1 | 526 | ATP6V1B2 |
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| 0.090099429 | 1.18925E-16 | 92014 | MCART1 |
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| 0.089624639 | 1.71708E-16 | 134083 | OR2Y1 |
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| 0.089227196 | 2.33175E-16 | 23005 | MAPKBP1 |
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| 0.088908442 | 2.97743E-16 | 4644 | MYO5A |
| 0.088871738 | 3.06226E-16 | 387778 | SPDYC |
| 0.088862351 | 3.08433E-16 | 6247 | RS1 |
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| 0.088666287 | 3.58294E-16 | 10322 | SMYD5 |
| 0.088570534 | 3.85452E-16 | 80146 | UXS1 |
| 0.088345124 | 4.5765E-16 | 430 | ASCL2 |
| 0.088303363 | 4.72419E-16 | 117196 | MRGPRX4 |
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| 0.08809249 | 5.54472E-16 | 5535 | PPP3R2 |
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| 0.087500841 | 8.67257E-16 | 79575 | ABHD8 |
| 0.087466316 | 8.90111E-16 | 55571 | C2orf29 |
| 0.087393094 | 9.40562E-16 | 6949 | TCOF1 |
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| 0.086743887 | 0.613731198 | 0.677 | 1 | 2194 | FASN |
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| 0.086486486 | 0.614788213 | 0.663 | 1 | 7620 | ZNF69 |
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| 0.084427284 | 0.623272049 | 0.71 | 1 | 5382 | PMS2P4 |
| 0.084427284 | 0.623272049 | 0.673 | 1 | 51020 | HDDC2 |
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| 0.084169884 | 0.624335967 | 0.667 | 1 | 54732 | TMED9 |
| 0.083912484 | 0.625400642 | 0.691 | 1 | 55210 | ATAD3A |
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| 0.083655084 | 0.626466074 | 0.684 | 1 | 27136 | MORC1 |
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| 0.083397683 | 0.627532261 | 0.691 | 1 | 25833 | POU2F3 |
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| 0.083397683 | 0.627532261 | 0.703 | 1 | 92400 | RBM18 |
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| 0.082882883 | 0.629666889 | 0.706 | 1 | 284233 | CYP4F35P |
| 0.082625483 | 0.630735328 | 0.685 | 1 | 6448 | SGSH |
| 0.082625483 | 0.630735328 | 0.704 | 1 | 375298 | CERKL |
| 0.082368082 | 0.631804513 | 0.705 | 1 | 23228 | PLCL2 |
| 0.082110682 | 0.632874444 | 0.702 | 1 | 8613 | PPAP2B |
| 0.081853282 | 0.633945119 | 0.704 | 1 | 5623 | PSPN |
| 0.081853282 | 0.633945119 | 0.692 | 1 | 8895 | CPNE3 |
| 0.081853282 | 0.633945119 | 0.72 | 1 | 57569 | ARHGAP20 |
| 0.081853282 | 0.633945119 | 0.724 | 1 | 84073 | MYCBPAP |
| 0.081853282 | 0.633945119 | 0.688 | 1 | 146439 | CCDC64B |
| 0.081595882 | 0.635016535 | 0.723 | 1 | 10477 | UBE2E3 |
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| 0.081081081 | 0.637161585 | 0.705 | 1 | 3074 | HEXB |
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| 0.080823681 | 0.638235214 | 0.663 | 1 | 3776 | KCNK2 |
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| 0.078764479 | 0.646850527 | 0.706 | 1 | 9581 | PREPL |
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| 0.078507079 | 0.647930697 | 0.711 | 1 | 5980 | REV3L |
| 0.078507079 | 0.647930697 | 0.711 | 1 | 8812 | CCNK |
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| 0.077477477 | 0.652258531 | 0.69 | 1 | 10827 | FAM114A2 |
| 0.077477477 | 0.652258531 | 0.701 | 1 | 51654 | CDK5RAP1 |
| 0.077220077 | 0.653342268 | 0.706 | 1 | 3491 | CYR61 |
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| 0.076705277 | 0.655511864 | 0.728 | 1 | 641311 | RPL31P11 |
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| 0.076447876 | 0.656597719 | 0.688 | 1 | 9825 | SPATA2 |
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| 0.075933076 | 0.658771532 | 0.711 | 1 | 100128239 | AP000911.1 |
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| 0.083303412 | 1.9025E-14 | 23654 | PLXNB2 |
| 0.083288326 | 1.92322E-14 | 79843 | FAM124B |
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| 0.082998354 | 2.36739E-14 | 57665 | RDH14 |
| 0.082917634 | 2.50805E-14 | 5127 | PCTK1 |
| 0.082903323 | 2.53383E-14 | 56479 | KCNQ5 |
| 0.082892996 | 2.5526E-14 | 2071 | ERCC3 |
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| 0.082191492 | 4.20482E-14 | 9231 | DLG5 |

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| 0.073873874 | 0.667494551 | 0.705 | 1 | 939 | CD27 |
| 0.073873874 | 0.667494551 | 0.735 | 1 | 7099 | TLR4 |
| 0.073873874 | 0.667494551 | 0.718 | 1 | 54840 | APTX |
| 0.073873874 | 0.667494551 | 0.706 | 1 | 147687 | ZNF417 |
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| 0.073359073 | 0.669682169 | 0.719 | 1 | 923 | CD6 |
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| 0.072586873 | 0.672968679 | 0.732 | 1 | 10178 | ODZ1 |
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| 0.072329472 | 0.67406553 | 0.737 | 1 | 51335 | NGRN |
| 0.072329472 | 0.67406553 | 0.72 | 1 | 400986 | ANKRD36C |
| 0.071814672 | 0.676261241 | 0.741 | 1 | 162083 | C16orf82 |
| 0.071557272 | 0.677360098 | 0.753 | 1 | 23539 | SLC16A8 |
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| 0.071299871 | 0.678459618 | 0.728 | 1 | 3912 | LAMB1 |
| 0.071299871 | 0.678459618 | 0.734 | 1 | 7025 | NR2F1 |
| 0.071042471 | 0.679559802 | 0.735 | 1 | 64963 | MRPS11 |
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| 0.071042471 | 0.679559802 | 0.736 | 1 | 167410 | LIX1 |
| 0.070785071 | 0.680660645 | 0.737 | 1 | 433 | ASGR2 |
| 0.070785071 | 0.680660645 | 0.758 | 1 | 7299 | TYR |
| 0.070785071 | 0.680660645 | 0.708 | 1 | 10650 | SLMO1 |
| 0.070785071 | 0.680660645 | 0.738 | 1 | 266977 | GPR110 |
| 0.070527671 | 0.681762147 | 0.728 | 1 | 83540 | NUF2 |
| 0.070527671 | 0.681762147 | 0.743 | 1 | 145957 | NRG4 |
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| 0.068983269 | 0.688384873 | 0.722 | 1 | 50613 | UBQLN3 |
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| 0.068468468 | 0.690597623 | 0.716 | 1 | 5886 | RAD23A |
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| 0.067181467 | 0.696140663 | 0.752 | 1 | 200403 | VWA3B |
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| 0.066409266 | 0.69947406 | 0.757 | 1 | 55039 | TRMT12 |
| 0.066151866 | 0.700586442 | 0.762 | 1 | 1262 | CNGA4 |
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| 0.063835264 | 0.710625591 | 0.742 | 1 | 1072 | CFL1 |
| 0.063835264 | 0.710625591 | 0.751 | 1 | 5690 | PSMB2 |
| 0.063835264 | 0.710625591 | 0.726 | 1 | 79187 | FSD1 |
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| 0.081327901 | 7.72884E-14 | 10180 | RBM6 |
| 0.081297045 | 7.89786E-14 | 317662 | FAM149B1 |
| 0.081177576 | 8.58722E-14 | 79018 | C17orf39 |
| 0.081167718 | 8.64668E-14 | 11116 | FGFR1OP |
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| 0.081065835 | 9.28533E-14 | 23363 | OBSL1 |
| 0.080991438 | 9.78077E-14 | 25843 | MOBKL3 |
| 0.080973345 | 9.90513E-14 | 55425 | KIAA1704 |
| 0.080961517 | 9.98726E-14 | 646508 | AC092070.5 |
| 0.080931026 | 1.02021E-13 | 5627 | PROS1 |
| 0.080907105 | 1.03738E-13 | 642280 | ZNF876P |
| 0.080873349 | 1.0621E-13 | 4709 | NDUFB3 |
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| 0.080695425 | 1.20225E-13 | 648987 | AC008875.1 |
| 0.080681482 | 1.21397E-13 | 128864 | C20orf144 |
| 0.080674003 | 1.2203E-13 | 27199 | OXGR1 |
| 0.080636778 | 1.25231E-13 | 254048 | UBN2 |
| 0.080635353 | 1.25355E-13 | 283248 | RCOR2 |
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| 0.08054668 | 1.33324E-13 | 1612 | DAPK1 |
| 0.08052601 | 1.35251E-13 | 115399 | LRRC56 |
| 0.08051207 | 1.36567E-13 | 84885 | ZDHHC12 |
| 0.08048456 | 1.392E-13 | 146 | ADRA1D |
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| 0.079627973 | 2.51483E-13 | 23564 | DDAH2 |
| 0.07962412 | 2.5215E-13 | 400752 | LOC400752 |
| 0.079434545 | 2.87172E-13 | 118472 | ZNF511 |
| 0.079353795 | 3.03501E-13 | 647309 | RP11-332P22.1 |
| 0.079345704 | 3.05187E-13 | 151306 | GPBAR1 |
| 0.079238234 | 3.28467E-13 | 30010 | NXPH1 |
| 0.079176525 | 3.42614E-13 | 8882 | ZNF259 |
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| 0.078709403 | 4.70953E-13 | 2719 | GPC3 |
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| 0.078588264 | 5.11304E-13 | 84973 | SNHG7 |
| 0.07853975 | 5.28399E-13 | 23562 | CLDN14 |
| 0.078529174 | 5.322E-13 | 23030 | KDM4B |
| 0.078490445 | 5.46348E-13 | 134548 | ANKRD43 |
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| 0.078263967 | 6.36782E-13 | 63891 | RNF123 |
| 0.07816927 | 6.78813E-13 | 89872 | AQP10 |
| 0.078155128 | 6.85319E-13 | 1852 | DUSP9 |
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| 0.077947732 | 7.88065E-13 | 10099 | TSPAN3 |

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| 0.063320463 | 0.712863194 | 0.768 | 1 | 644172 | LOC644172 |
| 0.063063063 | 0.713982894 | 0.78 | 1 | 7739 | ZNF185 |
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| 0.063063063 | 0.713982894 | 0.756 | 1 | 23764 | MAFF |
| 0.062805663 | 0.715103189 | 0.77 | 1 | 81545 | FBXO38 |
| 0.062805663 | 0.715103189 | 0.764 | 1 | 196743 | PAOX |
| 0.062548263 | 0.716224079 | 0.76 | 1 | 27125 | AFF4 |
| 0.062290862 | 0.717345561 | 0.766 | 1 | 9791 | PTDSS1 |
| 0.062290862 | 0.717345561 | 0.77 | 1 | 56916 | SMARCAD1 |
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| 0.062033462 | 0.718467632 | 0.769 | 1 | 23332 | CLASP1 |
| 0.062033462 | 0.718467632 | 0.767 | 1 | 84182 | FAM188B |
| 0.062033462 | 0.718467632 | 0.754 | 1 | 641649 | TMEM91 |
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| 0.061518662 | 0.720713534 | 0.762 | 1 | 6229 | RPS24 |
| 0.061261261 | 0.721837361 | 0.771 | 1 | 775 | CACNA1C |
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| 0.061003861 | 0.722961769 | 0.755 | 1 | 1846 | DUSP4 |
| 0.061003861 | 0.722961769 | 0.787 | 1 | 51085 | MLXIPL |
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| 0.05971686 | 0.728592448 | 0.785 | 1 | 9919 | SEC16A |
| 0.05971686 | 0.728592448 | 0.77 | 1 | 55256 | ADI1 |
| 0.058944659 | 0.731977689 | 0.784 | 1 | 4287 | ATXN3 |
| 0.058944659 | 0.731977689 | 0.789 | 1 | 5515 | PPP2CA |
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| 0.058687259 | 0.733107228 | 0.795 | 1 | 51768 | TM7SF3 |
| 0.058429858 | 0.734237327 | 0.76 | 1 | 54906 | C10orf18 |
| 0.058172458 | 0.735367982 | 0.773 | 1 | 1774 | DNASE1L1 |
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| 0.058172458 | 0.735367982 | 0.783 | 1 | 132204 | SYNPR |
| 0.057915058 | 0.736499193 | 0.785 | 1 | 9673 | SLC25A44 |
| 0.057915058 | 0.736499193 | 0.788 | 1 | 340120 | ANKRD34B |
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| 0.057657658 | 0.737630956 | 0.783 | 1 | 9973 | CCS |
| 0.057657658 | 0.737630956 | 0.78 | 1 | 23541 | SEC14L2 |
| 0.057657658 | 0.737630956 | 0.778 | 1 | 79699 | ZYG11B |
| 0.057657658 | 0.737630956 | 0.776 | 1 | 374819 | LRRC37A3 |
| 0.057400257 | 0.73876327 | 0.792 | 1 | 4504 | MT3 |
| 0.057400257 | 0.73876327 | 0.778 | 1 | 160418 | TMTC3 |
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| 0.057142857 | 0.739896131 | 0.777 | 1 | 8897 | MTMR3 |
| 0.057142857 | 0.739896131 | 0.764 | 1 | 440915 | POTEKP |
| 0.056885457 | 0.741029539 | 0.803 | 1 | 26532 | OR10H3 |
| 0.056885457 | 0.741029539 | 0.773 | 1 | 54106 | TLR9 |
| 0.056628057 | 0.742163491 | 0.814 | 1 | 5058 | PAK1 |
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| 0.055855856 | 0.745568586 | 0.784 | 1 | 63917 | GALNT11 |
| 0.055598456 | 0.746704691 | 0.818 | 1 | 55651 | NHP2 |
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| 0.055341055 | 0.747841328 | 0.82 | 1 | 7090 | TLE3 |
| 0.055341055 | 0.747841328 | 0.804 | 1 | 10224 | ZNF443 |
| 0.055341055 | 0.747841328 | 0.781 | 1 | 79735 | TBC1D17 |
| 0.055083655 | 0.748978496 | 0.792 | 1 | 55812 | SPATA7 |
| 0.054826255 | 0.750116191 | 0.791 | 1 | 339302 | CPLX4 |
| 0.054568855 | 0.751254413 | 0.8 | 1 | 136853 | SRCRB4D |
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| 0.054311454 | 0.752393159 | 0.816 | 1 | 55181 | C17orf71 |
| 0.054311454 | 0.752393159 | 0.793 | 1 | 57167 | SALL4 |
| 0.054311454 | 0.752393159 | 0.784 | 1 | 84253 | GARNL3 |
| 0.054311454 | 0.752393159 | 0.801 | 1 | 442523 | DPY19L2P4 |
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| 0.054054054 | 0.753532426 | 0.796 | 1 | 780776 | FAM18A |
| 0.053796654 | 0.754672212 | 0.805 | 1 | 22979 | EFR3B |
| 0.053796654 | 0.754672212 | 0.8 | 1 | 50831 | TAS2R3 |
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| 0.053281853 | 0.756953333 | 0.782 | 1 | 55662 | HIF1AN |
| 0.053281853 | 0.756953333 | 0.804 | 1 | 221937 | FOXK1 |
| 0.053281853 | 0.756953333 | 0.793 | 1 | 100130264 | RP5-1027G4.3 |
| 0.053024453 | 0.758094664 | 0.819 | 1 | 1173 | AP2M1 |
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| 0.077701101 | 9.30046E-13 | 167826 | OLIG3 |
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| 0.075135909 | 5.05339E-12 | 51186 | WBP5 |
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| 0.073186271 | 1.76278E-11 | 269 | AMHR2 |
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| 0.048648649 | 0.777573481 | 0.832 | 1 | 11209 | RP5-1182A14.1 |
| 0.048391248 | 0.778723645 | 0.808 | 1 | 149069 | DCDC2B |
| 0.048133848 | 0.779874279 | 0.808 | 1 | 55048 | VPS37C |
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| 0.047619048 | 0.782176943 | 0.831 | 1 | 150737 | TTC30B |
| 0.047619048 | 0.782176943 | 0.821 | 1 | 285148 | IAH1 |
| 0.047361647 | 0.78332897 | 0.824 | 1 | 9986 | RCE1 |
| 0.047361647 | 0.78332897 | 0.815 | 1 | 10746 | MAP3K2 |
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| 0.046332046 | 0.787941648 | 0.829 | 1 | 653436 | ANKRD20A7P |
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| 0.045045045 | 0.79371761 | 0.822 | 1 | 476 | ATP1A1 |
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| 0.044530245 | 0.796031082 | 0.842 | 1 | 57210 | SLC45A4 |
| 0.044530245 | 0.796031082 | 0.82 | 1 | 64776 | C11orf1 |
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| 0.033719434 | 0.844985456 | 0.845 | 1 | 6191 | RPS4X |
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| 0.033719434 | 0.844985456 | 0.868 | 1 | 144577 | C12orf66 |
| 0.033462033 | 0.846158903 | 0.882 | 1 | 2295 | FOXF2 |
| 0.033462033 | 0.846158903 | 0.898 | 1 | 146542 | ZNF688 |
| 0.033462033 | 0.846158903 | 0.874 | 1 | 169044 | COL22A1 |
| 0.033204633 | 0.84733268 | 0.878 | 1 | 1191 | CLU |
| 0.033204633 | 0.84733268 | 0.862 | 1 | 5887 | RAD23B |
| 0.033204633 | 0.84733268 | 0.879 | 1 | 8660 | IRS2 |
| 0.033204633 | 0.84733268 | 0.866 | 1 | 23576 | DDAH1 |
| 0.033204633 | 0.84733268 | 0.884 | 1 | 401507 | FAM74A1 |
| 0.032947233 | 0.848506784 | 0.867 | 1 | 5805 | PTS |
| 0.032947233 | 0.848506784 | 0.87 | 1 | 80032 | ZNF556 |
| 0.032947233 | 0.848506784 | 0.855 | 1 | 118856 | MMP21 |
| 0.032689833 | 0.849681214 | 0.891 | 1 | 3675 | ITGA3 |
| 0.032689833 | 0.849681214 | 0.88 | 1 | 5348 | FXYD1 |
| 0.032689833 | 0.849681214 | 0.862 | 1 | 84287 | ZDHHC16 |
| 0.032689833 | 0.849681214 | 0.864 | 1 | 401491 | RP11-125B21.2 |
| 0.032175032 | 0.852031038 | 0.866 | 1 | 26521 | TIMM8B |
| 0.032175032 | 0.852031038 | 0.88 | 1 | 203429 | FAM226A |
| 0.031917632 | 0.853206429 | 0.864 | 1 | 90378 | SAMD1 |

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| 0.069308809 | 1.92405E-10 | 2046 | EPHA8 |
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| 0.069004898 | 2.30816E-10 | 10298 | PAK4 |
| 0.068973285 | 2.35217E-10 | 90655 | TGIF2LY |
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| 0.068809657 | 2.59342E-10 | 57095 | C1orf128 |
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| 0.068802113 | 2.6051E-10 | 2926 | GRSF1 |
| 0.068792855 | 2.61952E-10 | 147710 | AC138472.2 |
| 0.068773537 | 2.64984E-10 | 6758 | SSX5 |
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| 0.068638828 | 2.87103E-10 | 25897 | RNF19A |
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| 0.068454988 | 3.2022E-10 | 85455 | DISP2 |
| 0.068431177 | 3.24773E-10 | 79982 | DNAJB14 |
| 0.06829414 | 3.52233E-10 | 81608 | FIP1L1 |
| 0.068208627 | 3.70503E-10 | 1145 | CHRNE |
| 0.06817316 | 3.78349E-10 | 203414 | CXorf24 |
| 0.068120882 | 3.9021E-10 | 219527 | LRRC55 |
| 0.068119096 | 3.90622E-10 | 7049 | TGFBR3 |
| 0.067962575 | 4.28385E-10 | 117166 | WFIKKN1 |
| 0.067895886 | 4.45537E-10 | 84153 | RNASEH2C |
| 0.067856231 | 4.56052E-10 | 80032 | ZNF556 |
| 0.067848554 | 4.58115E-10 | 1408 | CRY2 |
| 0.06779722 | 4.72148E-10 | 84324 | SARNP |
| 0.067796477 | 4.72354E-10 | 121793 | C13orf16 |
| 0.067742577 | 4.87547E-10 | 55843 | ARHGAP15 |
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| 0.067680671 | 5.05585E-10 | 6528 | SLC5A5 |
| 0.067616414 | 5.24996E-10 | 91012 | LASS5 |
| 0.067604522 | 5.28667E-10 | 153478 | PLEKHG4B |
| 0.067592732 | 5.32332E-10 | 128989 | C22orf25 |
| 0.067581079 | 5.35978E-10 | 441554 | DUSPP |
| 0.067528202 | 5.52832E-10 | 283373 | ANKRD52 |
| 0.067386065 | 6.00742E-10 | 1991 | ELANE |
| 0.067362582 | 6.09038E-10 | 440275 | EIF2AK4 |
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| 0.067260359 | 6.46471E-10 | 100133204 | C9orf147 |
| 0.067139197 | 6.93752E-10 | 6714 | SRC |
| 0.067078969 | 7.18493E-10 | 50624 | CUZD1 |
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| 0.066922683 | 7.86776E-10 | 439916 | C12orf37 |
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| 0.066863104 | 8.1444E-10 | 5343 | PLGLB1 |
| 0.066744681 | 8.72271E-10 | 55966 | AJAP1 |
| 0.066739909 | 8.74683E-10 | 343171 | OR2W3 |
| 0.06670823 | 8.90864E-10 | 54212 | SNTG1 |
| 0.066623639 | 9.35513E-10 | 11051 | NUDT21 |
| 0.066592846 | 9.52302E-10 | 4802 | NFYC |
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| 0.06640241 | 1.06285E-09 | 55365 | TMEM176A |
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| 0.066185646 | 1.20394E-09 | 23157 | SEPTIN6 |
| 0.06613846 | 1.23699E-09 | 54662 | TBC1D13 |
| 0.065948308 | 1.37937E-09 | 90271 | LINC00263 |
| 0.065942017 | 1.38434E-09 | 64919 | BCL11B |
| 0.065922282 | 1.40006E-09 | 10203 | CALCRL |
| 0.065845498 | 1.46287E-09 | 122042 | RXFP2 |
| 0.065637556 | 1.6471E-09 | 387804 | VSTM5 |
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| 0.065609968 | 1.67318E-09 | 8778 | SIGLEC5 |
| 0.06555449 | 1.72685E-09 | 10075 | HUWE1 |
| 0.065502902 | 1.77826E-09 | 79805 | VASH2 |
| 0.065416132 | 1.8681E-09 | 8174 | MADCAM1 |
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| 0.065260936 | 2.03996E-09 | 51340 | CRNKL1 |
| 0.065230489 | 2.07544E-09 | 64693 | CTAGE1 |
| 0.06523035 | 2.0756E-09 | 11219 | TREX2 |
| 0.065168186 | 2.14992E-09 | 400793 | C1orf226 |
| 0.065141659 | 2.18241E-09 | 400 | ARL1 |
| 0.065107297 | 2.22522E-09 | 3398 | ID2 |
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| 0.031917632 | 0.853206429 | 0.88 | 1 | 342898 | SYCN |
| 0.031402831 | 0.855558153 | 0.866 | 1 | 1643 | DDB2 |
| 0.031145431 | 0.856734482 | 0.896 | 1 | 50804 | MYEF2 |
| 0.030888031 | 0.857911119 | 0.875 | 1 | 56136 | PCDHA13 |
| 0.030888031 | 0.857911119 | 0.893 | 1 | 56203 | LMOD3 |
| 0.03037323 | 0.860265306 | 0.896 | 1 | 6620 | SNCB |
| 0.03037323 | 0.860265306 | 0.888 | 1 | 79149 | ZSCAN5A |
| 0.03011583 | 0.861442852 | 0.892 | 1 | 51379 | CRLF3 |
| 0.03011583 | 0.861442852 | 0.877 | 1 | 387597 | ILDR2 |
| 0.02985843 | 0.862620695 | 0.876 | 1 | 22983 | MAST1 |
| 0.02985843 | 0.862620695 | 0.886 | 1 | 25845 | AC010442.2 |
| 0.02985843 | 0.862620695 | 0.91 | 1 | 27229 | TUBGCP4 |
| 0.029343629 | 0.864977266 | 0.853 | 1 | 51174 | TUBD1 |
| 0.029343629 | 0.864977266 | 0.879 | 1 | 220972 | MARCHF8 |
| 0.029086229 | 0.866155989 | 0.891 | 1 | 4628 | MYH10 |
| 0.029086229 | 0.866155989 | 0.897 | 1 | 60385 | TSKS |
| 0.028828829 | 0.867334999 | 0.887 | 1 | 91646 | TDRD12 |
| 0.028828829 | 0.867334999 | 0.9 | 1 | 284439 | SLC25A42 |
| 0.028314028 | 0.869693875 | 0.886 | 1 | 78990 | OTUB2 |
| 0.028314028 | 0.869693875 | 0.893 | 1 | 200810 | ALG1L |
| 0.028314028 | 0.869693875 | 0.883 | 1 | 221960 | CCZ1B |
| 0.027799228 | 0.872053872 | 0.876 | 1 | 8295 | TRRAP |
| 0.027799228 | 0.872053872 | 0.881 | 1 | 9332 | CD163 |
| 0.027799228 | 0.872053872 | 0.875 | 1 | 100289341 | LOC100289341 |
| 0.027541828 | 0.873234285 | 0.879 | 1 | 4200 | ME2 |
| 0.027541828 | 0.873234285 | 0.891 | 1 | 644619 | INTS4L2 |
| 0.027284427 | 0.874414971 | 0.903 | 1 | 1901 | S1PR1 |
| 0.027284427 | 0.874414971 | 0.898 | 1 | 222696 | ZSCAN23 |
| 0.026769627 | 0.876777153 | 0.911 | 1 | 9125 | RQCD1 |
| 0.026769627 | 0.876777153 | 0.907 | 1 | 90025 | UBE2CBP |
| 0.026769627 | 0.876777153 | 0.908 | 1 | 116966 | WDR17 |
| 0.026769627 | 0.876777153 | 0.91 | 1 | 220064 | ORAOV1 |
| 0.026512227 | 0.877958643 | 0.897 | 1 | 2681 | GGTA1 |
| 0.026512227 | 0.877958643 | 0.9 | 1 | 149603 | RNF187 |
| 0.025997426 | 0.88032241 | 0.907 | 1 | 9818 | NUPL1 |
| 0.025997426 | 0.88032241 | 0.916 | 1 | 57575 | PCDH10 |
| 0.025225225 | 0.883869989 | 0.906 | 1 | 1124 | CHN2 |
| 0.025225225 | 0.883869989 | 0.911 | 1 | 3421 | IDH3G |
| 0.025225225 | 0.883869989 | 0.898 | 1 | 55011 | PIH1D1 |
| 0.025225225 | 0.883869989 | 0.902 | 1 | 79572 | ATP13A3 |
| 0.025225225 | 0.883869989 | 0.913 | 1 | 84262 | PSMG3 |
| 0.024967825 | 0.88505302 | 0.9 | 1 | 51430 | C1orf9 |
| 0.024710425 | 0.886236299 | 0.922 | 1 | 6787 | NEK4 |
| 0.024195624 | 0.888603589 | 0.902 | 1 | 4147 | MATN2 |
| 0.024195624 | 0.888603589 | 0.899 | 1 | 9455 | HOMER2 |
| 0.024195624 | 0.888603589 | 0.904 | 1 | 9832 | JAKMIP2 |
| 0.023938224 | 0.889787596 | 0.907 | 1 | 55534 | MAML3 |
| 0.023423423 | 0.892156322 | 0.925 | 1 | 6612 | SUMO3 |
| 0.023423423 | 0.892156322 | 0.906 | 1 | 23072 | HECW1 |
| 0.022908623 | 0.894525978 | 0.913 | 1 | 93185 | IGSF8 |
| 0.022908623 | 0.894525978 | 0.905 | 1 | 441294 | CTAGE15P |
| 0.022651223 | 0.895711149 | 0.922 | 1 | 9394 | HS6ST1 |
| 0.022651223 | 0.895711149 | 0.917 | 1 | 126321 | C19orf28 |
| 0.022393822 | 0.896896545 | 0.928 | 1 | 57643 | ZSWIM5 |
| 0.022393822 | 0.896896545 | 0.912 | 1 | 653639 | LYPLA2P1 |
| 0.022136422 | 0.898082164 | 0.921 | 1 | 51506 | UFC1 |
| 0.022136422 | 0.898082164 | 0.91 | 1 | 54965 | PIGX |
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| 0.021879022 | 0.899268003 | 0.912 | 1 | 54522 | ANKRD16 |
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| 0.021879022 | 0.899268003 | 0.915 | 1 | 283464 | GLT8D3 |
| 0.021621622 | 0.900454059 | 0.92 | 1 | 11102 | RPP14 |
| 0.021364221 | 0.901640331 | 0.925 | 1 | 65217 | PCDH15 |
| 0.021364221 | 0.901640331 | 0.921 | 1 | 266727 | MDGA1 |
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| 0.020592021 | 0.90520041 | 0.916 | 1 | 7089 | TLE2 |
| 0.020592021 | 0.90520041 | 0.918 | 1 | 8915 | BCL10 |
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| 0.020592021 | 0.90520041 | 0.922 | 1 | 22843 | PPM1E |
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| 0.01956242 | 0.909950039 | 0.926 | 1 | 22884 | WDR37 |
| 0.019305019 | 0.911137939 | 0.931 | 1 | 642521 | C1DP3 |
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| 0.018790219 | 0.913514313 | 0.935 | 1 | 9868 | TOMM70A |
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| 0.063876481 | 4.43324E-09 | 386653 | IL31 |
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| 0.063303222 | 6.08523E-09 | 4209 | MEF2D |
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| 0.063219428 | 6.37213E-09 | 645676 | RP11-29H23.1 |
| 0.063215662 | 6.38533E-09 | 23625 | FAM89B |
| 0.063120414 | 6.72811E-09 | 100131482 | LOC100131482 |
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| 0.06308367 | 6.86508E-09 | 2623 | GATA1 |
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| 0.062245718 | 1.08372E-08 | 8074 | FGF23 |
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| 0.062200152 | 1.11078E-08 | 1102 | RCBTB2 |
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| 0.061600005 | 1.53454E-08 | 55860 | ACTR10 |
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| 0.061560028 | 1.56777E-08 | 58525 | WIZ |
| 0.061531772 | 1.59167E-08 | 79094 | CHAC1 |
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| 0.061365565 | 1.73961E-08 | 10460 | TACC3 |
| 0.061301248 | 1.80037E-08 | 133308 | NHEDC2 |
| 0.061268167 | 1.83242E-08 | 10495 | ENOX2 |
| 0.061223574 | 1.8765E-08 | 51050 | PI15 |
| 0.061175963 | 1.9247E-08 | 162993 | ZNF846 |
| 0.061130617 | 1.97172E-08 | 151246 | SGOL2 |
| 0.061079117 | 2.02648E-08 | 90637 | ZFAND2A |
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| 0.06081779 | 2.32788E-08 | 89796 | NAV1 |

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| 0.018532819 | 0.914702783 | 0.934 | 1 | 3606 | IL18 |
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| 0.018018018 | 0.917080272 | 0.931 | 1 | 9637 | FEZ2 |
| 0.018018018 | 0.917080272 | 0.931 | 1 | 51663 | ZFR |
| 0.018018018 | 0.917080272 | 0.93 | 1 | 150921 | TCF23 |
| 0.018018018 | 0.917080272 | 0.934 | 1 | 221078 | NSUN6 |
| 0.017760618 | 0.918269286 | 0.923 | 1 | 634 | CEACAM1 |
| 0.017760618 | 0.918269286 | 0.935 | 1 | 284021 | MILR1 |
| 0.017503218 | 0.919458478 | 0.941 | 1 | 4976 | OPA1 |
| 0.017503218 | 0.919458478 | 0.931 | 1 | 123722 | FSD2 |
| 0.016988417 | 0.921837382 | 0.921 | 1 | 222658 | KCTD20 |
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| 0.016731017 | 0.923027089 | 0.934 | 1 | 50512 | PODXL2 |
| 0.016731017 | 0.923027089 | 0.93 | 1 | 127544 | RNF19B |
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| 0.016216216 | 0.925407 | 0.95 | 1 | 160 | AP2A1 |
| 0.016216216 | 0.925407 | 0.936 | 1 | 5537 | PPP6C |
| 0.015958816 | 0.926597198 | 0.934 | 1 | 3094 | HINT1 |
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| 0.046274781 | 2.15351E-05 | 64395 | GMCL1 |
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| 0.0457732 | 2.64273E-05 | 344805 | TMPRSS7 |
| 0.045694852 | 2.72809E-05 | 56956 | LHX9 |
| 0.04568563 | 2.73831E-05 | 79750 | ZNF385D |
| 0.045675268 | 2.74984E-05 | 4544 | MTNR1B |
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| 0.045566488 | 2.87365E-05 | 100130776 | RP11-571M6.6 |
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| 0.044627594 | 4.18589E-05 | 10464 | PIBF1 |
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| -0.026769627 | 0.876777153 | 0.896 | 1 | 55088 | C10orf118 |
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| -0.02985843 | 0.862620695 | 0.89 | 1 | 84342 | COG8 |
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| -0.031660232 | 0.854382134 | 0.871 | 1 | 57003 | CCDC47 |
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| -0.031917632 | 0.853206429 | 0.88 | 1 | 81572 | PDRG1 |
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| -0.032175032 | 0.852031038 | 0.877 | 1 | 2647 | BLOC1S1 |
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| -0.032175032 | 0.852031038 | 0.888 | 1 | 56915 | EXOSC5 |
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| -0.033204633 | 0.84733268 | 0.872 | 1 | 51019 | CCDC53 |
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| -0.035263835 | 0.837951847 | 0.884 | 1 | 408263 | C5orf40 |
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| -0.035521236 | 0.83678078 | 0.871 | 1 | 2825 | GPR1 |
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| -0.043500644 | 0.800663212 | 0.818 | 1 | 26039 | SS18L1 |
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| -0.043758044 | 0.799504537 | 0.807 | 1 | 648771 | LOC648771 |
| -0.044015444 | 0.798346288 | 0.821 | 1 | 2962 | GTF2F1 |
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| -0.044015444 | 0.798346288 | 0.843 | 1 | 124446 | TMEM219 |
| -0.044015444 | 0.798346288 | 0.84 | 1 | 131034 | CPNE4 |
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| -0.044530245 | 0.796031082 | 0.831 | 1 | 2975 | GTF3C1 |
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| -0.045045045 | 0.79371761 | 0.835 | 1 | 54865 | GPATCH4 |
| -0.045302445 | 0.792561531 | 0.82 | 1 | 6141 | RPL18 |
| -0.045559846 | 0.791405893 | 0.818 | 1 | 8336 | HIST1H2AM |
| -0.045559846 | 0.791405893 | 0.834 | 1 | 79173 | C19orf57 |
| -0.045559846 | 0.791405893 | 0.827 | 1 | 79728 | PALB2 |
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| -0.045817246 | 0.790250699 | 0.814 | 1 | 6227 | RPS21 |
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| 0.038182892 | 0.000456852 | 343472 | BARHL2 |
| 0.038180801 | 0.000457181 | 43847 | KLK14 |
| 0.038136695 | 0.000464188 | 7044 | LEFTY2 |
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| 0.037179594 | 0.00064323 | 399670 | RPL13AP17 |
| 0.037123095 | 0.000655587 | 6366 | CCL21 |
| 0.037012959 | 0.000680312 | 2271 | FH |
| 0.036962973 | 0.000691817 | 2559 | GABRA6 |
| 0.036840398 | 0.0007208 | 84134 | TOMM40L |
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| 0.03631434 | 0.000858456 | 284232 | ANKRD20A9P |
| 0.036269798 | 0.000871167 | 8509 | NDST2 |
| 0.036170659 | 0.000900085 | 283551 | C14orf182 |
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| 0.036062281 | 0.000932715 | 8999 | CDKL2 |
| 0.035941156 | 0.000970478 | 283991 | FAM100B |
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| 0.035825893 | 0.001007722 | 23741 | EID1 |
| 0.035815029 | 0.0010113 | 84467 | FBN3 |
| 0.035768412 | 0.001026786 | 503834 | DPRXP4 |
| 0.035756293 | 0.001030848 | 339230 | CCDC137 |
| 0.035697489 | 0.001050768 | 3067 | HDC |
| 0.035584454 | 0.001090063 | 644890 | MEIG1 |
| 0.035467239 | 0.001132243 | 29801 | ZDHHC8 |
| 0.035404127 | 0.001155574 | 56101 | PCDHGB5 |
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| 0.035222364 | 0.001225272 | 387263 | C6orf120 |
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| 0.034564099 | 0.001511457 | 5551 | PRF1 |
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| 0.034472463 | 0.001555853 | 139189 | DGKK |
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| 0.034406548 | 0.001588527 | 9951 | HS3ST4 |
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| 0.034197503 | 0.001696372 | 11161 | C14orf1 |
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| 0.034186074 | 0.001702459 | 9671 | WSCD2 |
| 0.034176228 | 0.001707718 | 2307 | FOXS1 |
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| 0.033714956 | 0.001971509 | 954 | ENTPD2 |
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| 0.033371628 | 0.002191584 | 80741 | LY6G5C |

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| -0.046074646 | 0.789095949 | 0.84 | 1 | 23546 | SYNGR4 |
| -0.046074646 | 0.789095949 | 0.835 | 1 | 56062 | KLHL4 |
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| -0.046846847 | 0.785634399 | 0.823 | 1 | 54984 | PINX1 |
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| -0.050707851 | 0.768389323 | 0.776 | 1 | 220382 | FAM181B |
| -0.050965251 | 0.767243483 | 0.821 | 1 | 1006 | CDH8 |
| -0.050965251 | 0.767243483 | 0.793 | 1 | 51738 | GHRL |
| -0.050965251 | 0.767243483 | 0.83 | 1 | 171023 | ASXL1 |
| -0.051222651 | 0.766098135 | 0.807 | 1 | 54468 | MIOS |
| -0.051222651 | 0.766098135 | 0.794 | 1 | 57149 | LYRM1 |
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| -0.051480051 | 0.764953281 | 0.806 | 1 | 90632 | LINC00473 |
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| -0.051737452 | 0.763808923 | 0.806 | 1 | 449520 | GGNBP1 |
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| -0.051994852 | 0.762665065 | 0.791 | 1 | 392264 | LOC392264 |
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| -0.052509653 | 0.760378853 | 0.771 | 1 | 22944 | KIN |
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| -0.053024453 | 0.758094664 | 0.819 | 1 | 124975 | GGT6 |
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| -0.053539254 | 0.755812516 | 0.795 | 1 | 71 | ACTG1 |
| -0.053539254 | 0.755812516 | 0.793 | 1 | 56147 | PCDHA1 |
| -0.053796654 | 0.754672212 | 0.802 | 1 | 26045 | LRRTM2 |
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| 0.033365865 | 0.002195463 | 81689 | ISCA1 |
| 0.033359334 | 0.002199867 | 3120 | HLA-DQB2 |
| 0.033340248 | 0.002212782 | 8326 | FZD9 |
| 0.033333241 | 0.002217541 | 2042 | EPHA3 |
| 0.03314982 | 0.002345503 | 79153 | GDPD3 |
| 0.032951985 | 0.00249107 | 10494 | STK25 |
| 0.032905808 | 0.002526216 | 10954 | PDIA5 |
| 0.032866732 | 0.002556311 | 11086 | ADAM29 |
| 0.032837691 | 0.002578889 | 79135 | APOO |
| 0.032711647 | 0.002679011 | 79596 | RNF219 |
| 0.032627098 | 0.002748148 | 10863 | ADAM28 |
| 0.03256882 | 0.002796748 | 2210 | FCGR1B |
| 0.032563956 | 0.002800839 | 2019 | EN1 |
| 0.03247986 | 0.00287245 | 729420 | AL359392.2 |
| 0.032476775 | 0.002875108 | 9732 | DOCK4 |
| 0.032448286 | 0.002899764 | 81025 | GJA9 |
| 0.032306888 | 0.003025019 | 777 | CACNA1E |
| 0.032295723 | 0.003035117 | 79924 | ADM2 |
| 0.032269441 | 0.003059007 | 339559 | ZNF642 |
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| 0.031964746 | 0.003348772 | 3036 | HAS1 |
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| 0.031890269 | 0.003423299 | 4889 | NPY5R |
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| 0.031303556 | 0.004065291 | 163115 | ZNF781 |
| 0.031259875 | 0.004117204 | 57722 | IGDCC4 |
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| 0.031191617 | 0.00419953 | 466 | ATF1 |
| 0.031130535 | 0.004274464 | 401399 | RP11-155G14.1 |
| 0.031097347 | 0.004315684 | 57415 | C3orf14 |
| 0.031079512 | 0.004337986 | 94122 | SYTL5 |
| 0.031079404 | 0.00433812 | 1595 | CYP51A1 |
| 0.031044332 | 0.00438228 | 4830 | NME1 |
| 0.030898727 | 0.004569999 | 389549 | FEZF1 |
| 0.030776941 | 0.004732571 | 55851 | PSENEN |
| 0.030762234 | 0.004752553 | 23287 | AGTPBP1 |
| 0.030735658 | 0.004788856 | 2196 | FAT2 |
| 0.030642584 | 0.004917981 | 7151 | TOP1P1 |
| 0.030639042 | 0.004922957 | 150275 | CCDC117 |
| 0.030493543 | 0.00513132 | 493856 | CISD2 |
| 0.030218702 | 0.005546775 | 5005 | ORM2 |
| 0.030115047 | 0.005711184 | 53635 | PTOV1 |
| 0.03007185 | 0.005780987 | 81615 | TMEM163 |
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| 0.029990054 | 0.005915272 | 339366 | ADAMTSL5 |
| 0.02997496 | 0.005940358 | 134549 | SHROOM1 |
| 0.029958458 | 0.005967892 | 6881 | TAF10 |
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| 0.029834982 | 0.006177597 | 80231 | CXorf21 |
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| 0.028706305 | 0.008424361 | 23066 | CAND2 |
| 0.028564475 | 0.008753111 | 163175 | LGI4 |
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| -0.056370656 | 0.743297984 | 0.801 | 1 | 89978 | ATPBD4 |
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| -0.057142857 | 0.739896131 | 0.779 | 1 | 8364 | HIST1H4C |
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| 0.013003943 | 0.232765967 | 8139 | GAN |
| 0.012998449 | 0.232963429 | 2132 | EXT2 |
| 0.012984869 | 0.23345199 | 2967 | GTF2H3 |
| 0.012974934 | 0.233809902 | 83876 | MRO |
| 0.01297097 | 0.233952791 | 390431 | OR4K2 |
| 0.012956049 | 0.234491282 | 168474 | SEPHS1P1 |
| 0.012934927 | 0.235255015 | 10227 | MFSD10 |
| 0.012875531 | 0.237412187 | 766 | CA7 |
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| 0.012769837 | 0.241285244 | 9603 | NFE2L3 |
| 0.012694596 | 0.244069367 | 3638 | INSIG1 |
| 0.012554635 | 0.249308118 | 386685 | KRTAP10-12 |
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| 0.012475567 | 0.252302162 | 80230 | RUFY1 |
| 0.012407178 | 0.25491194 | 285237 | C3orf38 |
| 0.012324394 | 0.25809607 | 89849 | ATG16L2 |
| 0.012235379 | 0.261550522 | 51170 | HSD17B11 |
| 0.012171616 | 0.264044573 | 23090 | ZNF423 |
| 0.012103428 | 0.266729811 | 6768 | ST14 |
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| 0.011916563 | 0.274184486 | 2703 | GJA8 |
| 0.011890271 | 0.275244708 | 2631 | GBAS |
| 0.011760851 | 0.280504133 | 374819 | LRRC37A3 |
| 0.011733724 | 0.281615126 | 399947 | C11orf87 |
| 0.011630788 | 0.285858056 | 81872 | KRTAP2-3 |
| 0.011572501 | 0.288279643 | 1121 | CHM |
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| 0.011459706 | 0.293005007 | 57007 | CXCR7 |
| 0.011296765 | 0.299922414 | 10417 | SPON2 |
| 0.01128604 | 0.300381546 | 3615 | IMPDH2 |
| 0.011192972 | 0.304385152 | 23546 | SYNGR4 |
| 0.01116204 | 0.305723591 | 70 | ACTC1 |
| 0.01115288 | 0.306120695 | 5988 | RFPL1 |
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| 0.011041893 | 0.310959367 | 708 | C1QBP |
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| 0.009847423 | 0.366207465 | 29964 | PRICKLE4 |
| 0.009822811 | 0.367406707 | 64319 | FBRS |
| 0.009813243 | 0.367873581 | 114042 | LINC00334 |
| 0.009810101 | 0.368026995 | 149951 | COMMD7 |
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| -0.099099099 | 0.56393835 | 0.649 | 1 | 1211 | CLTA |
| -0.099099099 | 0.56393835 | 0.647 | 1 | 2081 | ERN1 |
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| -0.099356499 | 0.562921337 | 0.616 | 1 | 2040 | STOM |
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| -0.099356499 | 0.562921337 | 0.636 | 1 | 4705 | NDUFA10 |
| -0.0998713 | 0.560889882 | 0.654 | 1 | 26251 | KCNG2 |
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| -0.100643501 | 0.55784915 | 0.627 | 1 | 57553 | MICAL3 |
| -0.100900901 | 0.556837299 | 0.588 | 1 | 5034 | P4HB |
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| -0.101415701 | 0.554816196 | 0.595 | 1 | 83716 | CRISPLD2 |
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| -0.102187902 | 0.551791061 | 0.602 | 1 | 118427 | OLFM3 |
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| -0.104247104 | 0.543762561 | 0.614 | 1 | 566 | AZU1 |
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| -0.104247104 | 0.543762561 | 0.634 | 1 | 728470 | LOC728470 |
| -0.104504505 | 0.542762965 | 0.625 | 1 | 728492 | SERF1B |
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| 0.009702314 | 0.373313278 | 23355 | VPS8 |
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| 0.009659814 | 0.375410483 | 2797 | GNRH2 |
| 0.009620925 | 0.37733588 | 55 | ACPP |
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| 0.009557823 | 0.380472975 | 2036 | EPB41L1 |
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| 0.009128877 | 0.402219768 | 23620 | NTSR2 |
| 0.009022569 | 0.407722494 | 5216 | PFN1 |
| 0.008855067 | 0.416483151 | 116983 | ACAP3 |
| 0.008760158 | 0.42149602 | 3110 | MNX1 |
| 0.008760094 | 0.421499377 | 89801 | PPP1R3F |
| 0.008683524 | 0.425569314 | 2961 | GTF2E2 |
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| 0.008629533 | 0.428452824 | 1053 | CEBPE |
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| 0.008422517 | 0.439613734 | 85453 | AP003115.1 |
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| 0.00822507 | 0.450412592 | 84516 | DCTN5 |
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| 0.008087502 | 0.458024436 | 8642 | DCHS1 |
| 0.008042082 | 0.460553385 | 55845 | BRK1 |
| 0.0079752 | 0.464291453 | 284382 | ACTL9 |
| 0.00796601 | 0.464806413 | 54972 | TMEM132A |
| 0.007925037 | 0.467106096 | 100129094 | BTNL10 |
| 0.007881954 | 0.469531065 | 5892 | RAD51L3 |
| 0.007844314 | 0.471655321 | 375449 | MAST4 |
| 0.007822521 | 0.472887687 | 445815 | PALM2-AKAP2 |
| 0.007772832 | 0.475704046 | 79366 | NSBP1 |
| 0.007592794 | 0.485985334 | 57127 | RHBG |
| 0.007558163 | 0.487976641 | 9997 | SCO2 |
| 0.007538299 | 0.489120823 | 6003 | RGS13 |
| 0.007495113 | 0.491613369 | 56999 | ADAMTS9 |
| 0.007431524 | 0.495295894 | 89886 | SLAMF9 |
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| 0.007366611 | 0.499070225 | 120526 | DNAJC24 |
| 0.007338514 | 0.500708611 | 6273 | S100A2 |
| 0.007229698 | 0.507080729 | 10402 | ST3GAL6 |
| 0.007153149 | 0.511588737 | 85443 | DCLK3 |
| 0.007143218 | 0.512175119 | 4294 | MAP3K10 |
| 0.007140767 | 0.512319895 | 91039 | DPP9 |
| 0.006970045 | 0.522456102 | 27352 | SGSM3 |
| 0.006962473 | 0.522908044 | 83723 | FAM57B |
| 0.006935265 | 0.524533619 | 8085 | MLL2 |
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| 0.006685535 | 0.539574164 | 8454 | CUL1 |
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| -0.109137709 | 0.52492316 | 0.603 | 1 | 7216 | TRO |
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| 0.003572829 | 0.743035607 | 81034 | SLC25A32 |
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| 0.002467257 | 0.820897737 | 3061 | HCRTR1 |
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| -0.00079135 | 0.942114387 | 8694 | DGAT1 |
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| -0.025668464 | 0.018489297 | 9050 | PSTPIP2 |
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| -0.025915191 | 0.017391669 | 7005 | TEAD3 |
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| -0.026741256 | 0.01412147 | 399473 | SPRED3 |
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| -0.303732304 | 0.072079227 | 0.141 | 1 | 80746 | TSEN2 |
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| -0.305791506 | 0.070097795 | 0.124 | 1 | 10509 | SEMA4B |
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| -0.306048906 | 0.06985318 | 0.13 | 1 | 24148 | PRPF6 |
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| -0.104942677 | 4.63686E-22 | 23344 | ESYT1 |
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| -0.105039192 | 4.24976E-22 | 84988 | PPP1R16A |
| -0.10506872 | 4.13785E-22 | 10987 | COPS5 |
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| -0.105350298 | 3.20696E-22 | 280636 | C11orf31 |
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| -0.105483224 | 2.84276E-22 | 326624 | RAB37 |
| -0.105493776 | 2.81567E-22 | 55366 | LGR4 |
| -0.105496133 | 2.80965E-22 | 401149 | FLJ14186 |
| -0.105507719 | 2.78026E-22 | 199834 | LCE4A |
| -0.105543894 | 2.69044E-22 | 83932 | C1orf124 |
| -0.105667392 | 2.4049E-22 | 710 | SERPING1 |
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| -0.105703811 | 2.32657E-22 | 2245 | FGD1 |
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| -0.105833438 | 2.06772E-22 | 119016 | AGAP4 |
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| -0.107490808 | 4.51857E-23 | 55277 | FGGY |
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| -0.309137709 | 0.066970237 | 0.118 | 1 | 90441 | ZNF622 |
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| -0.309137709 | 0.066970237 | 0.145 | 1 | 728294 | D2HGDH |
| -0.309395109 | 0.066734325 | 0.147 | 1 | 585 | BBS4 |
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| -0.30965251 | 0.066499073 | 0.139 | 1 | 124538 | OR4D2 |
| -0.30965251 | 0.066499073 | 0.143 | 1 | 284600 | RP11-54O7.1 |
| -0.30965251 | 0.066499073 | 0.152 | 1 | 340390 | KIAA1875 |
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| -0.30990991 | 0.066264482 | 0.148 | 1 | 8368 | HIST1H4L |
| -0.30990991 | 0.066264482 | 0.139 | 1 | 10970 | CKAP4 |
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| -0.30990991 | 0.066264482 | 0.127 | 1 | 126123 | C19orf41 |
| -0.30990991 | 0.066264482 | 0.111 | 1 | 388324 | INCA1 |
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| -0.109192877 | 9.24643E-24 | 10939 | AFG3L2 |
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| -0.109411032 | 7.53138E-24 | 7423 | VEGFB |
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| -0.109877762 | 4.84899E-24 | 340596 | LHFPL1 |
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| -0.110649501 | 2.33167E-24 | 51318 | MRPL35 |
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| -0.111127244 | 1.47808E-24 | 54784 | ALKBH4 |
| -0.111142126 | 1.4572E-24 | 2357 | FPR1 |
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| -0.135439507 | 8.99144E-36 | 10307 | APBB3 |
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| -0.355469755 | 0.034004141 | 0.096 | 1 | 199786 | FAM129C |
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| -0.355984556 | 0.033732246 | 0.071 | 1 | 23408 | SIRT5 |
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| -0.356241956 | 0.033596972 | 0.077 | 1 | 90506 | LRRC46 |
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| -0.145726242 | 3.36866E-41 | 112724 | RDH13 |
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| -0.146036661 | 2.27692E-41 | 23120 | ATP10B |
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| -0.146139972 | 1.99826E-41 | 219972 | MPEG1 |
| -0.146199283 | 1.85388E-41 | 128 | ADH5 |
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| -0.146415933 | 1.40929E-41 | 552900 | BOLA2 |
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| -0.14647759 | 1.3034E-41 | 55863 | TMEM126B |
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| -0.14657251 | 1.15565E-41 | 5920 | RARRES3 |
| -0.146654328 | 1.04173E-41 | 50848 | F11R |
| -0.146692023 | 9.93079E-42 | 4651 | MYO10 |
| -0.146702 | 9.80584E-42 | 9986 | RCE1 |
| -0.146703857 | 9.78275E-42 | 6867 | TACC1 |
| -0.146774076 | 8.94845E-42 | 10021 | HCN4 |
| -0.146786363 | 8.80991E-42 | 92283 | ZNF461 |
| -0.146851907 | 8.10616E-42 | 4799 | NFX1 |
| -0.146877081 | 7.85098E-42 | 84214 | RP13-254B10.1 |
| -0.147048967 | 6.30971E-42 | 161424 | C14orf21 |
| -0.147086722 | 6.01375E-42 | 4289 | MKLN1 |
| -0.147102109 | 5.89713E-42 | 9590 | AKAP12 |
| -0.14711346 | 5.81255E-42 | 146712 | B3GNTL1 |
| -0.147270414 | 4.75947E-42 | 54796 | BNC2 |
| -0.147289219 | 4.64677E-42 | 203069 | R3HCC1 |
| -0.147421706 | 3.92455E-42 | 6638 | SNRPN |
| -0.147493568 | 3.58072E-42 | 23409 | SIRT4 |
| -0.147517704 | 3.47209E-42 | 136647 | C7orf11 |
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| -0.147677033 | 2.83282E-42 | 6258 | RXRG |
| -0.148002568 | 1.86789E-42 | 5188 | PET112L |
| -0.14801841 | 1.83037E-42 | 79778 | MICALL2 |
| -0.148020741 | 1.82491E-42 | 10841 | FTCD |
| -0.148133599 | 1.57919E-42 | 80235 | PIGZ |
| -0.148167163 | 1.51267E-42 | 100132644 | LOC100132644 |
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| -0.148382209 | 1.14789E-42 | 84815 | MGC12916 |
| -0.148408416 | 1.1099E-42 | 759 | CA1 |
| -0.148564059 | 9.08694E-43 | 4706 | NDUFAB1 |
| -0.148582367 | 8.87551E-43 | 23255 | KIAA0802 |
| -0.148583007 | 8.86822E-43 | 145389 | SLC38A6 |
| -0.148622275 | 8.43145E-43 | 2017 | CTTN |
| -0.148642208 | 8.218E-43 | 56112 | PCDHGA3 |
| -0.14867383 | 7.89035E-43 | 84914 | ZNF587 |
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| -0.148765093 | 7.01582E-43 | 84808 | C1orf170 |
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| -0.148820549 | 6.53223E-43 | 23580 | CDC42EP4 |
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| -0.148972408 | 5.37112E-43 | 400043 | RP11-834C11.4 |
| -0.148986308 | 5.2757E-43 | 55172 | C14orf104 |
| -0.14908465 | 4.64712E-43 | 7750 | ZMYM2 |
| -0.149139155 | 4.33143E-43 | 57720 | GPR107 |
| -0.149151175 | 4.26473E-43 | 10960 | LMAN2 |
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| -0.14937286 | 3.20256E-43 | 151525 | WDSUB1 |
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| -0.356499356 | 0.033462145 | 0.09 | 1 | 84948 | TIGD5 |
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| -0.357528958 | 0.032927296 | 0.105 | 1 | 3138 | HLA-K |
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| -0.150043935 | 1.34205E-43 | 27315 | PGAP2 |
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| -0.150275485 | 9.93186E-44 | 10089 | KCNK7 |
| -0.150358462 | 8.91514E-44 | 55364 | IMPACT |
| -0.150401815 | 8.42584E-44 | 2905 | GRIN2C |
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| -0.152295751 | 7.03829E-45 | 5352 | PLOD2 |
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| -0.152439463 | 5.82219E-45 | 5994 | RFXAP |
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| -0.152803719 | 3.59684E-45 | 729993 | AC092324.1 |
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| -0.153243998 | 2.00636E-45 | 26519 | TIMM10 |
| -0.153284073 | 1.90237E-45 | 84803 | AGPAT9 |
| -0.153310375 | 1.83706E-45 | 390154 | OR5T3 |
| -0.15336275 | 1.71357E-45 | 81572 | PDRG1 |
| -0.153673913 | 1.13275E-45 | 4267 | CD99 |
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| -0.154361167 | 4.52631E-46 | 55205 | ZNF532 |
| -0.154377331 | 4.42947E-46 | 23013 | SPEN |
| -0.154382964 | 4.39621E-46 | 284521 | OR2L13 |
| -0.154434119 | 4.10532E-46 | 51635 | DHRS7 |
| -0.154549694 | 3.5167E-46 | 5908 | RAP1B |
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| -0.361389961 | 0.030984076 | 0.077 | 1 | 26984 | SEC22A |
| -0.361389961 | 0.030984076 | 0.071 | 1 | 84975 | MFSD5 |
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| -0.166297874 | 2.75705E-53 | 196541 | C13orf39 |
| -0.166442899 | 2.23526E-53 | 6658 | SOX3 |
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| -0.167021605 | 9.65843E-54 | 84054 | PCDHB19P |
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| -0.381209781 | 0.022442252 | 0.066 | 1 | 7001 | PRDX2 |
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| -0.382239382 | 0.022058799 | 0.062 | 1 | 10170 | DHRS9 |
| -0.382239382 | 0.022058799 | 0.066 | 1 | 196541 | C13orf39 |
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| -0.384555985 | 0.021216074 | 0.069 | 1 | 5355 | PLP2 |
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| -0.184257593 | 3.30444E-65 | 51673 | TPPP3 |
| -0.18429227 | 3.12485E-65 | 285533 | RNF175 |
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| -0.186144274 | 1.55451E-66 | 219855 | SLC37A2 |
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| -0.186219953 | 1.37418E-66 | 55229 | PANK4 |
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| -0.186868671 | 4.76506E-67 | 163259 | DENND2C |
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| -0.434749035 | 0.008568208 | 0.027 | 1 | 100129543 | ZNF730 |
| -0.435006435 | 0.0085257 | 0.032 | 1 | 266 | AMELY |
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| -0.227006166 | 7.0497E-99 | 10903 | MTMR11 |
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| -0.438610039 | 0.007949365 | 0.039 | 1 | 22 | ABCB7 |
| -0.438610039 | 0.007949365 | 0.028 | 1 | 6293 | VPS52 |
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| -0.238659305 | 2.1667E-109 | 285368 | PRRT3 |
| -0.238674547 | 2.0973E-109 | 646450 | C3orf71 |
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| -0.448133848 | 0.006585003 | 0.034 | 1 | 3773 | KCNJ16 |
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| -0.320448167 | 2.1236E-200 | 25870 | SUMF2 |
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| -0.333808995 | 2.5727E-218 | 51608 | C7orf20 |
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| -0.334404617 | 3.8948E-219 | 23283 | CSTF2T |
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| -0.337283159 | 4.0012E-223 | 91894 | C11orf52 |
| -0.337311609 | 3.6523E-223 | 285381 | DPH3 |
| -0.337313343 | 3.632E-223 | 54433 | GAR1 |
| -0.337520881 | 1.866E-223 | 56834 | GPR137 |
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| -0.337589637 | 1.4964E-223 | 9688 | NUP93 |
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| -0.337625788 | 1.3324E-223 | 51272 | BET1L |
| -0.337650043 | 1.2325E-223 | 26589 | MRPL46 |
| -0.337689811 | 1.0847E-223 | 80013 | C10orf97 |
| -0.337712095 | 1.0098E-223 | 5027 | P2RX7 |
| -0.337720033 | 9.8435E-224 | 9553 | MRPL33 |
| -0.337775148 | 8.246E-224 | 23731 | C9orf5 |
| -0.337945283 | 4.7725E-224 | 441272 | SPDYE3 |
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| -0.338642233 | 5.0613E-225 | 1796 | DOK1 |
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| -0.34066027 | 7.3854E-228 | 64288 | ZNF323 |
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| -0.341091956 | 1.8155E-228 | 5332 | PLCB4 |
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| -0.342086025 | 7.1121E-230 | 79571 | GCC1 |
| -0.342193875 | 5.0008E-230 | 83464 | APH1B |
| -0.342241799 | 4.2761E-230 | 122704 | MRPL52 |
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| -0.342377954 | 2.7405E-230 | 11333 | PDAP1 |
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| -0.343340335 | 1.173E-231 | 23403 | FBXO46 |
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| -0.34442529 | 3.316E-233 | 30813 | VSX1 |
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| -0.344502682 | 2.5699E-233 | 653509 | SFTPA1 |
| -0.344562142 | 2.1127E-233 | 9903 | KLHL21 |
| -0.344586943 | 1.9469E-233 | 56952 | PRTFDC1 |
| -0.344599646 | 1.8671E-233 | 26472 | PPP1R14B |
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| -0.347336085 | 2.1631E-237 | 81542 | TMX1 |
| -0.347407192 | 1.7072E-237 | 50515 | CHST11 |
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| -0.347533689 | 1.1203E-237 | 10291 | SF3A1 |
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| -0.347648389 | 7.6445E-238 | 84623 | KIRREL3 |
| -0.347704554 | 6.3395E-238 | 644604 | EEF1A1P12 |
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| -0.347751949 | 5.413E-238 | 55661 | DDX27 |
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| -0.348929409 | 1.0593E-239 | 5894 | RAF1 |
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| -0.350362066 | 8.6367E-242 | 343637 | RSPO4 |
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| -0.558043758 | 0.000502992 | 0.004 | 1 | 219854 | TMEM218 |
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| -0.558558559 | 0.00049598 | 0.004 | 1 | 730091 | RP11-392A22.2 |
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| -0.558815959 | 0.000492507 | 0.004 | 1 | 55971 | BAIAP2L1 |
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| -0.351915826 | 4.5579E-244 | 10454 | MAP3K7IP1 |
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| -0.352070655 | 2.6984E-244 | 26082 | AC135731.1 |
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| -0.816988417 | 1.44963E-07 | < 0.001 | < 0.001 | 64063 | PRSS22 |
| -0.816988417 | 1.44963E-07 | < 0.001 | < 0.001 | 161497 | STRC |
| -0.817245817 | 1.43869E-07 | < 0.001 | < 0.001 | 134265 | AFAP1L1 |
| -0.817245817 | 1.43869E-07 | < 0.001 | < 0.001 | 389136 | VGLL3 |
| -0.817760618 | 1.41693E-07 | < 0.001 | < 0.001 | 153129 | SLC38A9 |
| -0.817760618 | 1.41693E-07 | < 0.001 | < 0.001 | 728978 | RP11-790G19.2 |
| -0.818018018 | 1.40611E-07 | < 0.001 | < 0.001 | 6559 | SLC12A3 |
| -0.818018018 | 1.40611E-07 | < 0.001 | < 0.001 | 56975 | FAM20C |
| -0.818018018 | 1.40611E-07 | < 0.001 | < 0.001 | 84787 | SUV420H2 |
| -0.818275418 | 1.39532E-07 | < 0.001 | < 0.001 | 91624 | NEXN |
| -0.818532819 | 1.38458E-07 | < 0.001 | < 0.001 | 633 | BGN |
| -0.818790219 | 1.37387E-07 | < 0.001 | < 0.001 | 22844 | FRMPD1 |
| -0.818790219 | 1.37387E-07 | < 0.001 | < 0.001 | 54839 | LRRC49 |
| -0.819047619 | 1.3632E-07 | < 0.001 | < 0.001 | 440459 | LOC440459 |
| -0.819305019 | 1.35257E-07 | < 0.001 | < 0.001 | 7222 | TRPC3 |
| -0.819305019 | 1.35257E-07 | < 0.001 | < 0.001 | 23584 | VSIG2 |
| -0.819305019 | 1.35257E-07 | < 0.001 | < 0.001 | 57194 | ATP10A |
| -0.820592021 | 1.29997E-07 | < 0.001 | < 0.001 | 1286 | COL4A4 |
| -0.820849421 | 1.28956E-07 | < 0.001 | < 0.001 | 857 | CAV1 |
| -0.820849421 | 1.28956E-07 | < 0.001 | < 0.001 | 8743 | TNFSF10 |
| -0.820849421 | 1.28956E-07 | < 0.001 | < 0.001 | 375612 | LHFPL3 |
| -0.821621622 | 1.25856E-07 | < 0.001 | < 0.001 | 55808 | ST6GALNAC1 |
| -0.821621622 | 1.25856E-07 | < 0.001 | < 0.001 | 220002 | CYBASC3 |
| -0.822136422 | 1.23808E-07 | < 0.001 | < 0.001 | 27436 | EML4 |
| -0.822651223 | 1.21775E-07 | < 0.001 | < 0.001 | 668 | FOXL2 |
| -0.822651223 | 1.21775E-07 | < 0.001 | < 0.001 | 947 | CD34 |
| -0.823166023 | 1.19756E-07 | < 0.001 | < 0.001 | 5564 | PRKAB1 |
| -0.823166023 | 1.19756E-07 | < 0.001 | < 0.001 | 10978 | CLP1 |
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| -0.823166023 | 1.19756E-07 | < 0.001 | < 0.001 | 55824 | PAG1 |
| -0.823166023 | 1.19756E-07 | < 0.001 | < 0.001 | 644256 | DND1P2 |
| -0.823680824 | 1.17752E-07 | < 0.001 | < 0.001 | 26090 | ABHD12 |
| -0.824195624 | 1.15762E-07 | < 0.001 | < 0.001 | 5366 | PMAIP1 |
| -0.824453024 | 1.14773E-07 | < 0.001 | < 0.001 | 5329 | PLAUR |
| -0.824453024 | 1.14773E-07 | < 0.001 | < 0.001 | 113878 | DTX2 |
| -0.824967825 | 1.12805E-07 | < 0.001 | < 0.001 | 8896 | BUD31 |
| -0.824967825 | 1.12805E-07 | < 0.001 | < 0.001 | 9631 | NUP155 |
| -0.825225225 | 1.11826E-07 | < 0.001 | < 0.001 | 222183 | AC005077.3 |
| -0.825482625 | 1.10852E-07 | < 0.001 | < 0.001 | 25914 | RTTN |
| -0.825482625 | 1.10852E-07 | < 0.001 | < 0.001 | 29075 | RP5-1068E13.3 |
| -0.825482625 | 1.10852E-07 | < 0.001 | < 0.001 | 353333 | KRTAP10-10 |
| -0.825997426 | 1.08913E-07 | < 0.001 | < 0.001 | 79228 | THOC6 |
| -0.825997426 | 1.08913E-07 | < 0.001 | < 0.001 | 81629 | TSSK3 |
| -0.826512227 | 1.06988E-07 | < 0.001 | < 0.001 | 10072 | DPP3 |
| -0.827541828 | 1.03181E-07 | < 0.001 | < 0.001 | 9197 | SLC33A1 |
| -0.827541828 | 1.03181E-07 | < 0.001 | < 0.001 | 79025 | C20orf195 |
| -0.828056628 | 1.01299E-07 | < 0.001 | < 0.001 | 25817 | FAM19A5 |
| -0.828056628 | 1.01299E-07 | < 0.001 | < 0.001 | 150135 | LINC00479 |
| -0.828314028 | 1.00364E-07 | < 0.001 | < 0.001 | 9122 | SLC16A4 |
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| -0.828314028 | 1.00364E-07 | < 0.001 | < 0.001 | 54586 | C9orf11 |
| -0.828314028 | 1.00364E-07 | < 0.001 | < 0.001 | 83541 | FAM110A |
| -0.828828829 | 9.85031E-08 | < 0.001 | < 0.001 | 29078 | NDUFAF4 |
| -0.829086229 | 9.75781E-08 | < 0.001 | < 0.001 | 474344 | GIMAP6 |
| -0.82985843 | 9.48242E-08 | < 0.001 | < 0.001 | 23401 | FRAT2 |
| -0.83011583 | 9.39133E-08 | < 0.001 | < 0.001 | 85461 | TANC1 |
| -0.83037323 | 9.30059E-08 | < 0.001 | < 0.001 | 79177 | ZNF576 |
| -0.831917632 | 8.76349E-08 | < 0.001 | < 0.001 | 144453 | BEST3 |
| -0.832175032 | 8.6752E-08 | < 0.001 | < 0.001 | 78989 | COLEC11 |
| -0.832947233 | 8.41241E-08 | < 0.001 | < 0.001 | 3172 | HNF4A |
| -0.832947233 | 8.41241E-08 | < 0.001 | < 0.001 | 80853 | JHDM1D |
| -0.833204633 | 8.32551E-08 | < 0.001 | < 0.001 | 363 | AQP6 |
| -0.833204633 | 8.32551E-08 | < 0.001 | < 0.001 | 56287 | GKN1 |
| -0.833462033 | 8.23896E-08 | < 0.001 | < 0.001 | 7515 | XRCC1 |
| -0.834234234 | 7.98137E-08 | < 0.001 | < 0.001 | 3384 | ICAM2 |

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|---|---|---|---|
| -0.664686333 | < 0.001 | 6998 | TDGF1P3 |
| -0.664966679 | < 0.001 | 2268 | FGR |
| -0.664975768 | < 0.001 | 1879 | EBF1 |
| -0.665476258 | < 0.001 | 5091 | PC |
| -0.666189028 | < 0.001 | 644256 | DND1P2 |
| -0.666518419 | < 0.001 | 83482 | SCRT1 |
| -0.666613485 | < 0.001 | 100293090 | MTND4P12 |
| -0.667376977 | < 0.001 | 1506 | CTRL |
| -0.667496935 | < 0.001 | 29062 | WDR91 |
| -0.668230413 | < 0.001 | 3710 | ITPR3 |
| -0.668366536 | < 0.001 | 125058 | TBC1D16 |
| -0.668849258 | < 0.001 | 11035 | RIPK3 |
| -0.669110921 | < 0.001 | 138065 | RNF183 |
| -0.669346942 | < 0.001 | 91252 | SLC39A13 |
| -0.670308337 | < 0.001 | 100272228 | RP13-507I23.1 |
| -0.670394439 | < 0.001 | 3554 | IL1R1 |
| -0.671175598 | < 0.001 | 2277 | FIGF |
| -0.671564389 | < 0.001 | 91624 | NEXN |
| -0.671930185 | < 0.001 | 7222 | TRPC3 |
| -0.671995956 | < 0.001 | 57194 | ATP10A |
| -0.672856488 | < 0.001 | 64116 | SLC39A8 |
| -0.672943542 | < 0.001 | 51751 | HIGD1B |
| -0.673127959 | < 0.001 | 8743 | TNFSF10 |
| -0.673244075 | < 0.001 | 4017 | LOXL2 |
| -0.673280258 | < 0.001 | 27198 | HCAR1 |
| -0.673386392 | < 0.001 | 100130357 | LOC100130357 |
| -0.673829118 | < 0.001 | 56652 | C10orf2 |
| -0.673915618 | < 0.001 | 55340 | GIMAP5 |
| -0.674181444 | < 0.001 | 83714 | NRIP2 |
| -0.674227329 | < 0.001 | 57703 | CWC22 |
| -0.67532785 | < 0.001 | 127833 | SYT2 |
| -0.675655582 | < 0.001 | 3090 | HIC1 |
| -0.680164102 | < 0.001 | 51167 | CYB5R4 |
| -0.680531704 | < 0.001 | 23463 | ICMT |
| -0.683143327 | < 0.001 | 25788 | RAD54B |
| -0.683214626 | < 0.001 | 79940 | LINC00472 |
| -0.683786763 | < 0.001 | 90952 | ESAM |
| -0.684662824 | < 0.001 | 2296 | FOXC1 |
| -0.686463855 | < 0.001 | 79070 | KDELC1 |
| -0.6865622 | < 0.001 | 947 | CD34 |
| -0.687092533 | < 0.001 | 51705 | EMCN |
| -0.687163753 | < 0.001 | 81698 | LINC00597 |
| -0.68813329 | < 0.001 | 92162 | TMEM88 |
| -0.688490382 | < 0.001 | 27161 | EIF2C2 |
| -0.688824041 | < 0.001 | 26151 | NAT9 |
| -0.688911068 | < 0.001 | 2022 | ENG |
| -0.68900804 | < 0.001 | 100129781 | LOC100129781 |
| -0.690210555 | < 0.001 | 80760 | ITIH5 |
| -0.690531052 | < 0.001 | 116441 | TM4SF18 |
| -0.691864705 | < 0.001 | 7052 | TGM2 |
| -0.693459982 | < 0.001 | 6495 | SIX1 |
| -0.694580124 | < 0.001 | 149563 | C1orf64 |
| -0.695700745 | < 0.001 | 54586 | C9orf11 |
| -0.697356289 | < 0.001 | 22874 | PLEKHA6 |
| -0.697788814 | < 0.001 | 79652 | TMEM204 |
| -0.700181779 | < 0.001 | 9034 | CCRL2 |
| -0.700651866 | < 0.001 | 64981 | MRPL34 |
| -0.702457377 | < 0.001 | 3384 | ICAM2 |
| -0.704433314 | < 0.001 | 29842 | TFCP2L1 |
| -0.714264209 | < 0.001 | 286826 | LIN9 |
| -0.716432768 | < 0.001 | 317671 | RFESD |
| -0.724910017 | < 0.001 | 9934 | P2RY14 |

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|---|---|---|---|---|---|
| -0.834749035 | 7.81138E-08 | < 0.001 | < 0.001 | 83547 | RILP |
| -0.835521236 | 7.55898E-08 | < 0.001 | < 0.001 | 114822 | RHPN1 |
| -0.835778636 | 7.47553E-08 | < 0.001 | < 0.001 | 51705 | EMCN |
| -0.836036036 | 7.39243E-08 | < 0.001 | < 0.001 | 284009 | LOC284009 |
| -0.836293436 | 7.30968E-08 | < 0.001 | < 0.001 | 91252 | SLC39A13 |
| -0.837065637 | 7.06347E-08 | < 0.001 | < 0.001 | 9452 | ITM2A |
| -0.837580438 | 6.90104E-08 | < 0.001 | < 0.001 | 84690 | SPATA22 |
| -0.837837838 | 6.82034E-08 | < 0.001 | < 0.001 | 4846 | NOS3 |
| -0.837837838 | 6.82034E-08 | < 0.001 | < 0.001 | 22878 | KIAA1012 |
| -0.838610039 | 6.58028E-08 | < 0.001 | < 0.001 | 7052 | TGM2 |
| -0.839124839 | 6.42195E-08 | < 0.001 | < 0.001 | 6442 | SGCA |
| -0.839382239 | 6.3433E-08 | < 0.001 | < 0.001 | 92162 | TMEM88 |
| -0.83989704 | 6.18701E-08 | < 0.001 | < 0.001 | 84933 | C8orf76 |
| -0.84015444 | 6.10937E-08 | < 0.001 | < 0.001 | 8833 | GMPS |
| -0.84015444 | 6.10937E-08 | < 0.001 | < 0.001 | 9322 | TRIP10 |
| -0.84015444 | 6.10937E-08 | < 0.001 | < 0.001 | 90952 | ESAM |
| -0.84015444 | 6.10937E-08 | < 0.001 | < 0.001 | 167465 | ZNF366 |
| -0.84041184 | 6.03207E-08 | < 0.001 | < 0.001 | 246329 | STAC3 |
| -0.841956242 | 5.5754E-08 | < 0.001 | < 0.001 | 9306 | SOCS6 |
| -0.842213642 | 5.50046E-08 | < 0.001 | < 0.001 | 83886 | PRSS27 |
| -0.842213642 | 5.50046E-08 | < 0.001 | < 0.001 | 85329 | LGALS12 |
| -0.842728443 | 5.35161E-08 | < 0.001 | < 0.001 | 3640 | INSL3 |
| -0.845045045 | 4.69838E-08 | < 0.001 | < 0.001 | 79070 | KDELC1 |
| -0.846589447 | 4.27791E-08 | < 0.001 | < 0.001 | 85403 | EAF1 |
| -0.846846847 | 4.209E-08 | < 0.001 | < 0.001 | 90102 | PHLDB2 |
| -0.847876448 | 3.93664E-08 | < 0.001 | < 0.001 | 2101 | ESRRA |
| -0.847876448 | 3.93664E-08 | < 0.001 | < 0.001 | 8884 | SLC5A6 |
| -0.848648649 | 3.73584E-08 | < 0.001 | < 0.001 | 2957 | GTF2A1 |
| -0.848648649 | 3.73584E-08 | < 0.001 | < 0.001 | 100129917 | RP11-440L14.1 |
| -0.849420849 | 3.53799E-08 | < 0.001 | < 0.001 | 25769 | SLC24A2 |
| -0.849420849 | 3.53799E-08 | < 0.001 | < 0.001 | 121512 | FGD4 |
| -0.84993565 | 3.40774E-08 | < 0.001 | < 0.001 | 116441 | TM4SF18 |
| -0.850965251 | 3.15114E-08 | < 0.001 | < 0.001 | 6998 | TDGF1P3 |
| -0.852767053 | 2.7146E-08 | < 0.001 | < 0.001 | 2120 | ETV6 |
| -0.853796654 | 2.47226E-08 | < 0.001 | < 0.001 | 57680 | CHD8 |
| -0.853796654 | 2.47226E-08 | < 0.001 | < 0.001 | 285877 | POM121L12 |
| -0.854054054 | 2.41248E-08 | < 0.001 | < 0.001 | 23212 | RRS1 |
| -0.854311454 | 2.35301E-08 | < 0.001 | < 0.001 | 1044 | CDX1 |
| -0.854311454 | 2.35301E-08 | < 0.001 | < 0.001 | 5018 | OXA1L |
| -0.855083655 | 2.17654E-08 | < 0.001 | < 0.001 | 10332 | CLEC4M |
| -0.855598456 | 2.06049E-08 | < 0.001 | < 0.001 | 26151 | NAT9 |
| -0.856885457 | 1.77591E-08 | < 0.001 | < 0.001 | 51167 | CYB5R4 |
| -0.858687259 | 1.39071E-08 | < 0.001 | < 0.001 | 8846 | ALKBH1 |
| -0.858687259 | 1.39071E-08 | < 0.001 | < 0.001 | 85027 | C5ORF62 |
| -0.858944659 | 1.33694E-08 | < 0.001 | < 0.001 | 6899 | TBX1 |
| -0.86048906 | 1.02079E-08 | < 0.001 | < 0.001 | 3554 | IL1R1 |
| -0.86048906 | 1.02079E-08 | < 0.001 | < 0.001 | 23087 | TRIM35 |
| -0.861003861 | 9.17879E-09 | < 0.001 | < 0.001 | 10251 | SPRY3 |
| -0.862548263 | 6.16487E-09 | < 0.001 | < 0.001 | 22874 | PLEKHA6 |
| -0.862805663 | 5.67321E-09 | < 0.001 | < 0.001 | 29842 | TFCP2L1 |
| -0.865637066 | 4.63396E-10 | < 0.001 | < 0.001 | 646262 | RP1-74M1.1 |
| -0.866666667 | < 0.001 | < 0.001 | < 0.001 | 2277 | FIGF |
| -0.866666667 | < 0.001 | < 0.001 | < 0.001 | 83482 | SCRT1 |
| -0.868468468 | < 0.001 | < 0.001 | < 0.001 | 339501 | MPN2 |
| -0.868725869 | < 0.001 | < 0.001 | < 0.001 | 138065 | RNF183 |
| -0.869498069 | < 0.001 | < 0.001 | < 0.001 | 286826 | LIN9 |
| -0.874131274 | < 0.001 | < 0.001 | < 0.001 | 6997 | TDGF1 |
| -0.874646075 | < 0.001 | < 0.001 | < 0.001 | 72 | ACTG2 |
| -0.874646075 | < 0.001 | < 0.001 | < 0.001 | 30849 | PIK3R4 |
| -0.875418275 | < 0.001 | < 0.001 | < 0.001 | 25788 | RAD54B |
| -0.878764479 | < 0.001 | < 0.001 | < 0.001 | 2022 | ENG |
| -0.878764479 | < 0.001 | < 0.001 | < 0.001 | 64981 | MRPL34 |

**Fearfull faces (Neurosynth) Cortex**

| voxel-wise, cortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.272422586 | < 0.001 | 219981 | OR5A2 |
| 0.249310305 | < 0.001 | 122042 | RXFP2 |
| 0.234047359 | < 0.001 | 89822 | KCNK17 |
| 0.227820516 | < 0.001 | 1071 | CETP |
| 0.224643738 | < 0.001 | 3960 | LGALS4 |
| 0.218659896 | < 0.001 | 260429 | PRSS33 |
| 0.218218754 | < 0.001 | 100131315 | LOC100131315 |
| 0.217795563 | < 0.001 | 4239 | MFAP4 |
| 0.217651868 | < 0.001 | 2077 | ERF |
| 0.216831176 | < 0.001 | 84419 | C15orf48 |
| 0.215644202 | < 0.001 | 3698 | ITIH2 |
| 0.215436274 | < 0.001 | 641700 | ECSCR |
| 0.213575655 | < 0.001 | 50848 | F11R |
| 0.213341416 | < 0.001 | 387890 | AC002563.2 |
| 0.212303926 | < 0.001 | 257101 | ZNF683 |
| 0.211870323 | < 0.001 | 284382 | ACTL9 |
| 0.211429282 | < 0.001 | 51340 | CRNKL1 |
| 0.208250747 | < 0.001 | 4969 | OGN |
| 0.208095996 | < 0.001 | 64063 | PRSS22 |
| 0.206259187 | < 0.001 | 1278 | COL1A2 |
| 0.205893042 | < 0.001 | 57211 | GPR126 |
| 0.205119494 | < 0.001 | 389123 | IQCF2 |
| 0.204863575 | < 0.001 | 10500 | SEMA6C |
| 0.204510084 | < 0.001 | 337882 | KRTAP19-1 |
| 0.204255712 | < 0.001 | 162699 | TCEB3C |
| 0.203722246 | < 0.001 | 253039 | RP11-27I1.2 |
| 0.203571315 | < 0.001 | 730 | C7 |
| 0.203331464 | < 0.001 | 7436 | VLDLR |
| 0.202482583 | < 0.001 | 2920 | CXCL2 |
| 0.200422487 | < 0.001 | 9635 | CLCA2 |
| 0.199011274 | < 0.001 | 401 | PHOX2A |
| 0.198771591 | < 0.001 | 4629 | MYH11 |
| 0.19815505 | < 0.001 | 199870 | FAM76A |
| 0.197619898 | < 0.001 | 5616 | PRKY |
| 0.197389786 | < 0.001 | 25865 | PRKD2 |
| 0.197345257 | < 0.001 | 2327 | FMO2 |
| 0.197211717 | < 0.001 | 4312 | MMP1 |
| 0.196357668 | < 0.001 | 114818 | KLHL29 |
| 0.196000617 | < 0.001 | 83481 | EPPK1 |
| 0.194888328 | < 0.001 | 729330 | OC90 |
| 0.194324989 | < 0.001 | 54900 | LAX1 |
| 0.19424111 | < 0.001 | 57695 | USP37 |
| 0.194159246 | < 0.001 | 80152 | CENPT |
| 0.19370958 | < 0.001 | 692094 | MSMP |
| 0.192510679 | < 0.001 | 27042 | C1orf107 |
| 0.191383006 | < 0.001 | 6580 | SLC22A1 |
| 0.191122285 | < 0.001 | 170626 | XAGE3 |
| 0.190736296 | < 0.001 | 353332 | KRTAP12-1 |
| 0.190710547 | < 0.001 | 10682 | EBP |
| 0.190206847 | < 0.001 | 65123 | INTS3 |
| 0.190102929 | < 0.001 | 51365 | PLA1A |
| 0.189883255 | < 0.001 | 3337 | DNAJB1 |
| 0.189503827 | < 0.001 | 84787 | SUV420H2 |
| 0.189350101 | < 0.001 | 434 | ASIP |
| 0.18765064 | < 0.001 | 202 | AIM1 |
| 0.187395871 | < 0.001 | 8685 | MARCO |
| 0.18654009 | < 0.001 | 51270 | TFDP3 |
| 0.186036212 | < 0.001 | 5313 | PKLR |
| 0.185922855 | < 0.001 | 23562 | CLDN14 |
| 0.185494027 | < 0.001 | 29931 | LINC00312 |
| 0.185146309 | < 0.001 | 7512 | XPNPEP2 |
| 0.184749844 | < 0.001 | 1415 | CRYBB2 |
| 0.184186519 | < 0.001 | 646799 | ZAR1L |
| 0.183810049 | < 0.001 | 10319 | LAMC3 |
| 0.183783464 | < 0.001 | 8407 | TAGLN2 |
| 0.183266441 | < 0.001 | 54768 | HYDIN |
| 0.183010356 | < 0.001 | 197135 | PATL2 |
| 0.182717642 | < 0.001 | 3982 | LIM2 |
| 0.18262868 | < 0.001 | 83852 | SETDB2 |
| 0.18218286 | < 0.001 | 79792 | GSDMD |
| 0.181677609 | < 0.001 | 3383 | ICAM1 |
| 0.181640021 | < 0.001 | 59 | ACTA2 |
| 0.181609359 | < 0.001 | 72 | ACTG2 |
| 0.1813979 | < 0.001 | 91373 | UAP1L1 |
| 0.18048859 | < 0.001 | 338667 | LOC338667 |
| 0.180372834 | < 0.001 | 283848 | CES8 |
| 0.180137062 | < 0.001 | 337978 | KRTAP21-2 |

| region-wise, cortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.477394045 | < 0.001 | < 0.001 | < 0.001 | 122042 | RXFP2 |
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| 0.350340954 | 2.24724E-07 | < 0.001 | < 0.001 | 6247 | RS1 |
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| 0.349821344 | 2.34668E-07 | 0.002 | 1 | 7772 | ZNF229 |
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| 0.280114547 | 4.1067E-05 | 0.013 | 1 | 63947 | DMRTC1B |
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| 0.279793193 | 4.19376E-05 | 0.015 | 1 | 8573 | CASK |
| 0.279707671 | 4.21723E-05 | 0.012 | 1 | 51009 | DERL2 |
| 0.279642881 | 4.23508E-05 | 0.022 | 1 | 10885 | WDR3 |
| 0.279583275 | 4.25158E-05 | 0.014 | 1 | 55851 | PSENEN |
| 0.279505528 | 4.27318E-05 | 0.015 | 1 | 134548 | ANKRD43 |
| 0.279504232 | 4.27354E-05 | 0.015 | 1 | 51375 | SNX7 |
| 0.279460176 | 4.28583E-05 | 0.012 | 1 | 619279 | ZNF704 |
| 0.279392795 | 4.30469E-05 | 0.013 | 1 | 8001 | GLRA3 |
| 0.279287836 | 4.33422E-05 | 0.016 | 1 | 64109 | CRLF2 |
| 0.279264512 | 4.34081E-05 | 0.013 | 1 | 653857 | RP5-820A21.1 |
| 0.279260625 | 4.3419E-05 | 0.012 | 1 | 5239 | PGM5 |
| 0.279259329 | 4.34227E-05 | 0.017 | 1 | 5175 | PECAM1 |
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| 0.108056729 | < 0.001 | 442117 | GALNTL6 |
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| 0.107873672 | < 0.001 | 55437 | STRADB |
| 0.107863359 | < 0.001 | 9633 | MTL5 |
| 0.107812866 | < 0.001 | 196872 | RP11-477I4.3 |
| 0.10775637 | < 0.001 | 134526 | ACOT12 |
| 0.107747795 | < 0.001 | 641649 | TMEM91 |
| 0.10771692 | < 0.001 | 54475 | NLE1 |
| 0.107714495 | < 0.001 | 55810 | FOXJ2 |
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| 0.107586105 | < 0.001 | 164127 | C1orf65 |
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| 0.107490016 | 1.2832E-307 | 4013 | VWA5A |
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| 0.107320017 | 2.3038E-308 | 9138 | ARHGEF1 |
| 0.10712609 | 2.9812E-307 | 5800 | PTPRO |
| 0.107091736 | 4.6897E-307 | 388963 | C2orf81 |
| 0.107080858 | 5.413E-307 | 4640 | MYO1A |
| 0.107054149 | 7.6977E-307 | 283450 | C12orf51 |
| 0.107049883 | 8.1429E-307 | 26037 | SIPA1L1 |
| 0.106971572 | 2.2851E-306 | 127254 | C1orf173 |
| 0.106949405 | 3.0597E-306 | 64788 | LMF1 |
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| 0.106938322 | 3.5404E-306 | 4345 | CD200 |
| 0.106880173 | 7.6116E-306 | 64218 | SEMA4A |
| 0.106826452 | 1.5432E-305 | 126374 | WTIP |
| 0.106704032 | 7.7143E-305 | 220042 | C11orf82 |
| 0.106695167 | 8.667E-305 | 148930 | KNCN |
| 0.106675825 | 1.1174E-304 | 196996 | GRAMD2 |
| 0.106655046 | 1.468E-304 | 8623 | ASMTL |
| 0.106647748 | 1.6156E-304 | 10401 | PIAS3 |
| 0.106611435 | 2.6024E-304 | 23231 | AC092436.3 |
| 0.106584444 | 3.7086E-304 | 65264 | UBE2Z |
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| 0.106535313 | 7.0654E-304 | 8620 | NPFF |
| 0.106532569 | 7.3243E-304 | 9095 | TBX19 |
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| 0.106514302 | 9.307E-304 | 26778 | SNORA70 |
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| 0.106356687 | 7.3412E-303 | 7013 | TERF1 |
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| 0.106234921 | 3.6123E-302 | 26751 | SH3YL1 |
| 0.106218343 | 4.4868E-302 | 51760 | SYT17 |
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| 0.106163008 | 9.2491E-302 | 51559 | NT5DC3 |
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| 0.106066512 | 3.2625E-301 | 27341 | RRP7A |
| 0.106055444 | 3.7697E-301 | 440307 | TTLL13 |
| 0.106042758 | 4.4487E-301 | 3703 | STT3A |
| 0.106042436 | 4.4675E-301 | 146378 | C16orf92 |
| 0.106034837 | 4.9333E-301 | 8654 | PDE5A |
| 0.106033943 | 4.9913E-301 | 338442 | NIACR2 |
| 0.106018701 | 6.0899E-301 | 339761 | CYP27C1 |
| 0.106002552 | 7.5186E-301 | 7076 | TIMP1 |
| 0.105996943 | 8.0895E-301 | 2006 | ELN |
| 0.105964901 | 1.2288E-300 | 54733 | SLC35F2 |
| 0.105956995 | 1.3622E-300 | 66036 | MTMR9 |
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| 0.105894256 | 3.0871E-300 | 8239 | USP9X |
| 0.105881346 | 3.6528E-300 | 3195 | TLX1 |
| 0.105880792 | 3.6793E-300 | 65989 | DLK2 |
| 0.105879683 | 3.7328E-300 | 49855 | SCAPER |

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| 0.279111609 | 4.38423E-05 | 0.017 | 1 | 10519 | CIB1 |
| 0.279081806 | 4.39274E-05 | 0.016 | 1 | 5917 | RARS |
| 0.278975552 | 4.42321E-05 | 0.02 | 1 | 83943 | IMMP2L |
| 0.278855044 | 4.45802E-05 | 0.017 | 1 | 200810 | ALG1L |
| 0.278746198 | 4.48967E-05 | 0.02 | 1 | 84125 | LRRIQ1 |
| 0.278660676 | 4.51469E-05 | 0.02 | 1 | 84229 | CCDC135 |
| 0.278607549 | 4.5303E-05 | 0.021 | 1 | 389119 | C3orf54 |
| 0.278542759 | 4.54941E-05 | 0.012 | 1 | 399668 | LINC00086 |
| 0.278537576 | 4.55094E-05 | 0.014 | 1 | 7026 | NR2F2 |
| 0.278436505 | 4.58091E-05 | 0.018 | 1 | 64860 | ARMCX5 |
| 0.2783458 | 4.60796E-05 | 0.006 | 1 | 54985 | HCFC1R1 |
| 0.278306926 | 4.6196E-05 | 0.018 | 1 | 83448 | PUS7L |
| 0.278303039 | 4.62076E-05 | 0.021 | 1 | 492303 | GEMIN8P4 |
| 0.278293968 | 4.62348E-05 | 0.01 | 1 | 8534 | CHST1 |
| 0.27827194 | 4.63009E-05 | 0.019 | 1 | 9021 | SOCS3 |
| 0.278223996 | 4.64452E-05 | 0.012 | 1 | 79974 | C7orf58 |
| 0.278055544 | 4.69553E-05 | 0.017 | 1 | 10324 | KBTBD10 |
| 0.278014079 | 4.70817E-05 | 0.013 | 1 | 51693 | TRAPPC2L |
| 0.278006304 | 4.71054E-05 | 0.005 | 1 | 27185 | DISC1 |
| 0.277868951 | 4.75266E-05 | 0.015 | 1 | 284654 | RSPO1 |
| 0.277858584 | 4.75585E-05 | 0.02 | 1 | 10181 | RBM5 |
| 0.277770471 | 4.78307E-05 | 0.021 | 1 | 23708 | GSPT2 |
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| 0.277692724 | 4.80721E-05 | 0.013 | 1 | 10666 | CD226 |
| 0.277664217 | 4.81609E-05 | 0.019 | 1 | 252983 | STXBP4 |
| 0.27760461 | 4.83471E-05 | 0.012 | 1 | 401375 | GTF2IRD2P1 |
| 0.277596836 | 4.83714E-05 | 0.013 | 1 | 91319 | DERL3 |
| 0.277576103 | 4.84363E-05 | 0.009 | 1 | 645676 | RP11-29H23.1 |
| 0.277493173 | 4.86969E-05 | 0.023 | 1 | 79022 | TMEM106C |
| 0.277482807 | 4.87296E-05 | 0.018 | 1 | 1875 | E2F5 |
| 0.277469849 | 4.87705E-05 | 0.02 | 1 | 1557 | CYP2C19 |
| 0.277455595 | 4.88155E-05 | 0.021 | 1 | 57705 | WDFY4 |
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| 0.277418017 | 4.89343E-05 | 0.012 | 1 | 6675 | UAP1 |
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| 0.277324721 | 4.92304E-05 | 0.017 | 1 | 125875 | CLDND2 |
| 0.277311763 | 4.92716E-05 | 0.018 | 1 | 57536 | KIAA1328 |
| 0.277293622 | 4.93294E-05 | 0.016 | 1 | 387882 | C12ORF75 |
| 0.277271593 | 4.93997E-05 | 0.014 | 1 | 6415 | SEPW1 |
| 0.277265115 | 4.94204E-05 | 0.012 | 1 | 8654 | PDE5A |
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| 0.277249565 | 4.94701E-05 | 0.011 | 1 | 284184 | C17orf89 |
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| 0.277219762 | 4.95655E-05 | 0.015 | 1 | 26519 | TIMM10 |
| 0.277215875 | 4.9578E-05 | 0.014 | 1 | 220972 | MARCHF8 |
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| 0.277033169 | 5.01666E-05 | 0.02 | 1 | 27258 | LSM3 |
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| 0.276999478 | 5.02759E-05 | 0.016 | 1 | 50865 | HEBP1 |
| 0.276954126 | 5.04233E-05 | 0.012 | 1 | 8933 | FAM127A |
| 0.276917844 | 5.05416E-05 | 0.016 | 1 | 7100 | TLR5 |
| 0.276818068 | 5.08681E-05 | 0.011 | 1 | 2295 | FOXF2 |
| 0.276729955 | 5.11581E-05 | 0.018 | 1 | 168090 | C6orf118 |
| 0.276596489 | 5.16004E-05 | 0.012 | 1 | 165 | AEBP1 |
| 0.276557615 | 5.17299E-05 | 0.023 | 1 | 22887 | FOXJ3 |
| 0.276498009 | 5.1929E-05 | 0.013 | 1 | 285704 | RGMB |
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| 0.276338628 | 5.24651E-05 | 0.013 | 1 | 9342 | SNAP29 |
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| 0.27612871 | 5.3179E-05 | 0.016 | 1 | 10056 | FARSB |
| 0.275973216 | 5.37138E-05 | 0.021 | 1 | 7169 | TPM2 |
| 0.275934343 | 5.38483E-05 | 0.026 | 1 | 7409 | VAV1 |
| 0.275916202 | 5.39111E-05 | 0.007 | 1 | 3603 | IL16 |
| 0.275903244 | 5.39561E-05 | 0.014 | 1 | 402509 | SLC29A4P1 |
| 0.275886398 | 5.40146E-05 | 0.022 | 1 | 79946 | C10orf95 |
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| 0.275733496 | 5.45482E-05 | 0.016 | 1 | 64866 | CDCP1 |
| 0.275721834 | 5.45891E-05 | 0.013 | 1 | 79191 | IRX3 |
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| 0.105872356 | 4.1069E-300 | 4057 | LTF |
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| 0.105865075 | 4.5157E-300 | 5563 | PRKAA2 |
| 0.105863764 | 4.5935E-300 | 9382 | COG1 |
| 0.105847261 | 5.6956E-300 | 4343 | MOV10 |
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| 0.105771537 | 1.5271E-299 | 3884 | KRT33B |
| 0.105719639 | 3.001E-299 | 2899 | GRIK3 |
| 0.105715769 | 3.156E-299 | 284297 | AC008735.3 |
| 0.10568757 | 4.5549E-299 | 55625 | ZDHHC7 |
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| 0.105578298 | 1.886E-298 | 1852 | DUSP9 |
| 0.10557463 | 1.9781E-298 | 441272 | SPDYE3 |
| 0.10549667 | 5.4459E-298 | 285016 | FAM150B |
| 0.10548697 | 6.1769E-298 | 148398 | SAMD11 |
| 0.105481415 | 6.6388E-298 | 7087 | ICAM5 |
| 0.105464149 | 8.3069E-298 | 57614 | KIAA1468 |
| 0.105426074 | 1.3616E-297 | 4040 | LRP6 |
| 0.105405132 | 1.7868E-297 | 4282 | MIF |
| 0.105394606 | 2.0482E-297 | 5119 | CHMP1A |
| 0.105334014 | 4.4942E-297 | 81839 | VANGL1 |
| 0.105324102 | 5.1104E-297 | 8787 | RGS9 |
| 0.105288872 | 8.0682E-297 | 81578 | COL21A1 |
| 0.105249578 | 1.3424E-296 | 23394 | ADNP |
| 0.10522559 | 1.8316E-296 | 6688 | SPI1 |
| 0.105199085 | 2.5816E-296 | 166614 | DCLK2 |
| 0.105189602 | 2.9189E-296 | 577 | BAI3 |
| 0.105173427 | 3.5988E-296 | 27236 | ARFIP1 |
| 0.105163491 | 4.0928E-296 | 9636 | ISG15 |
| 0.105161181 | 4.217E-296 | 23704 | KCNE4 |
| 0.105130299 | 6.2888E-296 | 1303 | COL12A1 |
| 0.105101883 | 9.0832E-296 | 5394 | EXOSC10 |
| 0.105097464 | 9.6175E-296 | 11188 | NISCH |
| 0.105078807 | 1.2242E-295 | 57650 | KIAA1524 |
| 0.10504016 | 2.0179E-295 | 100129794 | RP11-537P22.1 |
| 0.105039934 | 2.0238E-295 | 2922 | GRP |
| 0.105038171 | 2.0704E-295 | 54700 | RRN3 |
| 0.105038067 | 2.0732E-295 | 200942 | KLHDC8B |
| 0.104995859 | 3.5775E-295 | 23338 | PHF15 |
| 0.104969686 | 5.017E-295 | 285908 | LINC00174 |
| 0.1049161 | 1.0024E-294 | 138649 | ANKRD19P |
| 0.104889414 | 1.4147E-294 | 64693 | CTAGE1 |
| 0.104889406 | 1.4148E-294 | 83442 | SH3BGRL3 |
| 0.104882008 | 1.5566E-294 | 7188 | TRAF5 |
| 0.104881788 | 1.561E-294 | 114781 | BTBD9 |
| 0.104852148 | 2.2885E-294 | 245936 | DEFB123 |
| 0.104840925 | 2.6451E-294 | 8128 | ST8SIA2 |
| 0.104825669 | 3.2205E-294 | 925 | CD8A |
| 0.104778876 | 5.889E-294 | 4929 | NR4A2 |
| 0.1047687 | 6.7148E-294 | 26070 | AP002380.3 |
| 0.104689072 | 1.874E-293 | 166785 | MMAA |
| 0.104669432 | 2.4135E-293 | 131375 | LYZL4 |
| 0.1046548 | 2.9141E-293 | 374618 | TEX9 |
| 0.104632913 | 3.8629E-293 | 26579 | MYEOV |
| 0.104632613 | 3.8778E-293 | 4625 | MYH7 |
| 0.104625831 | 4.2317E-293 | 246213 | SLC17A8 |
| 0.104617529 | 4.7091E-293 | 22846 | VASH1 |
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| 0.104550278 | 1.1191E-292 | 440093 | RP11-428G5.1 |
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| 0.104523688 | 1.5755E-292 | 92345 | NAF1 |
| 0.104464221 | 3.3848E-292 | 285097 | FLJ38379 |
| 0.104436701 | 4.8213E-292 | 11219 | TREX2 |
| 0.104432031 | 5.1195E-292 | 4175 | MCM6 |
| 0.104384764 | 9.3969E-292 | 55790 | CSGALNACT1 |
| 0.104341303 | 1.6421E-291 | 54457 | TAF7L |
| 0.104339545 | 1.6796E-291 | 3996 | LLGL1 |
| 0.104309407 | 3.6279E-291 | 202181 | LOC202181 |
| 0.104249226 | 5.3535E-291 | 348378 | FAM159A |
| 0.104199516 | 1.0128E-290 | 5600 | MAPK11 |
| 0.104145945 | 2.0127E-290 | 196051 | PPAPDC1A |
| 0.104081556 | 4.5924E-290 | 651302 | ZNF192P1 |
| 0.10407491 | 5.0004E-290 | 23020 | SNRNP200 |
| 0.104073832 | 5.0699E-290 | 7574 | ZNF26 |
| 0.104067478 | 5.4997E-290 | 646626 | LOC646626 |
| 0.104063329 | 9.116E-290 | 132204 | SYNPR |
| 0.104052534 | 6.6596E-290 | 440915 | POTEKP |
| 0.103981414 | 1.655E-289 | 54492 | NEURL1B |

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| 0.275606509 | 5.49951E-05 | 0.014 | 1 | 5874 | RAB27B |
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| 0.27557541 | 5.5105E-05 | 0.012 | 1 | 51527 | C14orf129 |
| 0.275567635 | 5.51326E-05 | 0.01 | 1 | 9610 | RIN1 |
| 0.275524874 | 5.52842E-05 | 0.014 | 1 | 57415 | C3orf14 |
| 0.275495071 | 5.53901E-05 | 0.014 | 1 | 84303 | CHCHD6 |
| 0.275488592 | 5.54131E-05 | 0.017 | 1 | 56655 | POLE4 |
| 0.275463972 | 5.55008E-05 | 0.02 | 1 | 93487 | MAPK1IP1L |
| 0.275422507 | 5.56488E-05 | 0.011 | 1 | 1601 | DAB2 |
| 0.275408254 | 5.56997E-05 | 0.011 | 1 | 2350 | FOLR2 |
| 0.275387521 | 5.57739E-05 | 0.013 | 1 | 9535 | GMFG |
| 0.275267013 | 5.62069E-05 | 0.011 | 1 | 442308 | LOC442308 |
| 0.275251463 | 5.6263E-05 | 0.026 | 1 | 85395 | C21orf70 |
| 0.275224252 | 5.63613E-05 | 0.02 | 1 | 11151 | CORO1A |
| 0.27513873 | 5.66713E-05 | 0.012 | 1 | 11326 | VSIG4 |
| 0.274979348 | 5.72533E-05 | 0.019 | 1 | 81846 | SBF2 |
| 0.274949545 | 5.73628E-05 | 0.015 | 1 | 51535 | PPHLN1 |
| 0.274840699 | 5.77642E-05 | 0.017 | 1 | 25924 | MYRIP |
| 0.274810896 | 5.78746E-05 | 0.008 | 1 | 728 | C5AR1 |
| 0.274784981 | 5.79707E-05 | 0.018 | 1 | 202374 | STK32A |
| 0.274761656 | 5.80574E-05 | 0.015 | 1 | 839 | CASP6 |
| 0.274757769 | 5.80718E-05 | 0.023 | 1 | 84792 | C7orf70 |
| 0.274734445 | 5.81586E-05 | 0.015 | 1 | 79873 | NUDT18 |
| 0.274709825 | 5.82504E-05 | 0.017 | 1 | 2911 | GRM1 |
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| 0.100821669 | 3.1997E-272 | 4683 | NBN |
| 0.100796716 | 4.3598E-272 | 4000 | LMNA |
| 0.100768583 | 6.1787E-272 | 51744 | CD244 |
| 0.100757509 | 7.0874E-272 | 266977 | GPR110 |
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| 0.100181165 | 8.7684E-269 | 8840 | WISP1 |
| 0.100136925 | 1.512E-268 | 3892 | KRT86 |
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| 0.100087773 | 2.769E-268 | 57567 | ZNF319 |
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| 0.09970906 | 2.9012E-266 | 3293 | HSD17B3 |
| 0.099693925 | 3.4926E-266 | 389058 | SP5 |
| 0.099692663 | 3.5471E-266 | 127731 | VWA5B1 |
| 0.099684872 | 3.9025E-266 | 79083 | MLPH |
| 0.09968412 | 3.9386E-266 | 1486 | CTBS |
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| 0.099644618 | 1.7081E-264 | 340061 | TMEM173 |
| 0.099622887 | 8.3402E-266 | 81567 | TXNDC5 |
| 0.099607572 | 1.0061E-265 | 1789 | DNMT3B |
| 0.099565535 | 1.6834E-265 | 7517 | XRCC3 |
| 0.099536903 | 2.3899E-265 | 64847 | SPATA20 |
| 0.099508795 | 3.3709E-265 | 10800 | CYSLTR1 |
| 0.099507399 | 3.4289E-265 | 116 | ADCYAP1 |
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| 0.099436507 | 8.1601E-265 | 125875 | CLDND2 |
| 0.099435451 | 8.2661E-265 | 55762 | ZNF701 |
| 0.09942772 | 9.0855E-265 | 10352 | WARS2 |
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| 0.099403444 | 1.2224E-264 | 29085 | PHPT1 |
| 0.099390378 | 1.434E-264 | 64858 | DCLRE1B |
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| 0.099340364 | 2.6418E-264 | 84958 | SYTL1 |
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| 0.099324593 | 3.203E-264 | 10487 | CAP1 |
| 0.099315824 | 3.5649E-264 | 624 | BDKRB2 |
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| 0.099270438 | 6.204E-264 | 23635 | SSBP2 |
| 0.09922565 | 1.0715E-263 | 282890 | ZNF311 |
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| 0.099200596 | 1.4546E-263 | 93273 | LEMD1 |
| 0.099194653 | 1.5639E-263 | 85417 | CCNB3 |
| 0.099158883 | 2.4189E-263 | 1018 | CDK3 |
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| 0.263216205 | 0.000119693 | 0.025 | 1 | 54869 | EPS8L1 |
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| 0.09892839 | 4.0039E-262 | 3156 | HMGCR |
| 0.098863392 | 8.8241E-262 | 3855 | KRT7 |
| 0.098856517 | 9.5931E-262 | 7258 | TSPY1 |
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| 0.098597025 | 3.7015E-260 | 197259 | MLKL |
| 0.09857572 | 2.8962E-260 | 4943 | TBC1D25 |
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| 0.098540645 | 6.0385E-259 | 57146 | TMEM159 |
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| 0.098466676 | 1.0848E-259 | 54504 | CPVL |
| 0.098447011 | 1.3763E-259 | 375057 | C1orf95 |
| 0.098444556 | 1.4178E-259 | 9875 | URB1 |
| 0.098436143 | 1.5698E-259 | 10493 | VAT1 |
| 0.098393885 | 2.6173E-259 | 84766 | EFCAB4B |
| 0.098376592 | 3.2262E-259 | 2736 | GLI2 |
| 0.098350677 | 4.4134E-259 | 5552 | SRGN |
| 0.098344535 | 4.7535E-259 | 100128327 | BET3L |
| 0.098313378 | 6.9274E-259 | 27036 | SIGLEC7 |
| 0.09823569 | 1.7707E-258 | 65999 | LRRC61 |
| 0.098235502 | 1.7747E-258 | 391334 | LOC391334 |
| 0.098217598 | 2.203E-258 | 22974 | TPX2 |
| 0.098187209 | 3.1792E-258 | 54480 | CSGLCA-T |
| 0.098186779 | 3.1957E-258 | 2978 | GUCA1A |
| 0.098170578 | 3.8858E-258 | 643332 | AL355922.1 |
| 0.098166537 | 4.08E-258 | 10669 | CGREF1 |
| 0.098163316 | 4.2417E-258 | 441381 | LRRC24 |
| 0.098089743 | 1.0302E-257 | 140862 | C20orf82 |
| 0.098061615 | 1.4461E-257 | 148170 | CDC42EP5 |
| 0.098036262 | 1.9628E-257 | 58 | ACTA1 |
| 0.097955511 | 5.1917E-257 | 140706 | C20orf160 |
| 0.097935533 | 6.6033E-257 | 55714 | ODZ3 |
| 0.097913267 | 8.6328E-257 | 81857 | MED25 |
| 0.097893666 | 1.0929E-256 | 8512 | MBL1P |
| 0.097884122 | 1.2259E-256 | 26468 | LHX6 |
| 0.097808865 | 6.0101E-255 | 117154 | DACH2 |
| 0.097777009 | 4.4444E-256 | 212 | ALAS2 |
| 0.097727238 | 8.0819E-256 | 3137 | HLA-J |
| 0.097723954 | 8.407E-256 | 50628 | GEMIN4 |
| 0.097720132 | 8.802E-256 | 4242 | MFNG |
| 0.097710493 | 9.8823E-256 | 8854 | ALDH1A2 |
| 0.09770355 | 1.0742E-255 | 51382 | ATP6V1D |
| 0.097703097 | 1.08E-255 | 84830 | C6orf105 |
| 0.097695211 | 1.1873E-255 | 29980 | DONSON |
| 0.097655408 | 1.9146E-255 | 10392 | NOD1 |
| 0.097649747 | 2.0492E-255 | 9570 | GOSR2 |
| 0.097647195 | 2.1129E-255 | 29115 | SAP30BP |
| 0.09762818 | 2.6545E-255 | 9414 | TJP2 |
| 0.097609259 | 3.331E-255 | 899 | CCNF |
| 0.097528137 | 8.8115E-255 | 157927 | C9orf62 |
| 0.097501271 | 1.2159E-254 | 164592 | CCDC116 |
| 0.09743021 | 2.8482E-254 | 10857 | PGRMC1 |
| 0.097416903 | 3.3402E-254 | 122509 | IFI27L1 |
| 0.097413163 | 3.4931E-254 | 26153 | KIF26A |
| 0.097399582 | 4.1099E-254 | 285672 | SREK1IP1 |
| 0.097376922 | 5.3903E-254 | 60675 | PROK2 |
| 0.097373288 | 5.6299E-254 | 8547 | FCN3 |
| 0.097368666 | 5.95E-254 | 1163 | CKS1B |
| 0.097365715 | 6.1639E-254 | 23169 | SLC35D1 |
| 0.097347555 | 7.6599E-254 | 150280 | HORMAD2 |
| 0.097332741 | 9.1452E-254 | 54836 | BSPRY |
| 0.097319029 | 1.0775E-253 | 1208 | CLPS |
| 0.097314491 | 1.1376E-253 | 3938 | LCT |
| 0.097296766 | 1.4062E-253 | 2734 | GLG1 |
| 0.097282548 | 1.6668E-253 | 79139 | DERL1 |
| 0.097267434 | 1.9969E-253 | 84332 | DYDC2 |
| 0.097218858 | 3.5684E-253 | 64167 | ERAP2 |
| 0.097163274 | 6.9312E-253 | 2562 | GABRB3 |
| 0.097154858 | 7.6639E-253 | 54494 | C11orf71 |
| 0.097100581 | 1.4649E-252 | 474343 | SPIN2B |
| 0.097096514 | 1.5378E-252 | 56905 | C15orf39 |

| | | | | | |
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| 0.261365823 | 0.000134016 | 0.024 | 1 | 89890 | KBTBD6 |
| 0.261342499 | 0.000134207 | 0.028 | 1 | 54972 | TMEM132A |
| 0.261326949 | 0.000134334 | 0.013 | 1 | 8531 | CSDAP1 |
| 0.261297146 | 0.000134578 | 0.025 | 1 | 51031 | GLOD4 |
| 0.261260864 | 0.000134875 | 0.025 | 1 | 712 | C1QA |
| 0.261104074 | 0.000136168 | 0.022 | 1 | 108 | ADCY2 |
| 0.261091116 | 0.000136275 | 0.017 | 1 | 89822 | KCNK17 |
| 0.260969313 | 0.000137288 | 0.02 | 1 | 6399 | TRAPPC2 |
| 0.260951172 | 0.000137439 | 0.027 | 1 | 84067 | FAM160A2 |
| 0.26092396 | 0.000137667 | 0.035 | 1 | 51776 | ZAK |
| 0.260886382 | 0.000137981 | 0.026 | 1 | 716 | C1S |
| 0.260873424 | 0.00013809 | 0.026 | 1 | 131616 | TMEM42 |
| 0.260866945 | 0.000138144 | 0.024 | 1 | 23309 | SIN3B |
| 0.260859171 | 0.00013821 | 0.027 | 1 | 653639 | LYPLA2P1 |
| 0.260815114 | 0.00013858 | 0.028 | 1 | 148014 | TTC9B |
| 0.260773649 | 0.000138929 | 0.022 | 1 | 79633 | FAT4 |
| 0.260764578 | 0.000139006 | 0.031 | 1 | 90780 | PYGO2 |
| 0.260724409 | 0.000139345 | 0.029 | 1 | 3042 | HBM |
| 0.260676465 | 0.000139752 | 0.027 | 1 | 1973 | EIF4A1 |
| 0.260601309 | 0.000140391 | 0.013 | 1 | 222950 | C7orf51 |
| 0.260557253 | 0.000140766 | 0.02 | 1 | 5265 | SERPINA1 |
| 0.260545591 | 0.000140866 | 0.032 | 1 | 6159 | RPL29 |
| 0.26047821 | 0.000141443 | 0.022 | 1 | 149111 | CNIH3 |
| 0.260406942 | 0.000142056 | 0.029 | 1 | 84973 | SNHG7 |
| 0.260401758 | 0.0001421 | 0.025 | 1 | 5908 | RAP1B |
| 0.260383617 | 0.000142257 | 0.018 | 1 | 94122 | SYTL5 |
| 0.26037973 | 0.00014229 | 0.026 | 1 | 127 | ADH4 |
| 0.260374547 | 0.000142335 | 0.018 | 1 | 8437 | RASAL1 |
| 0.260334378 | 0.000142682 | 0.029 | 1 | 344787 | ZNF860 |
| 0.260265701 | 0.000143277 | 0.023 | 1 | 157869 | C8orf84 |
| 0.260261814 | 0.000143311 | 0.021 | 1 | 81931 | ZNF93 |
| 0.260233306 | 0.000143559 | 0.024 | 1 | 137209 | ZNF572 |
| 0.260219053 | 0.000143683 | 0.027 | 1 | 516 | ATP5G1 |
| 0.260199616 | 0.000143852 | 0.029 | 1 | 899 | CCNF |
| 0.260171109 | 0.000144101 | 0.025 | 1 | 29951 | PDZRN4 |
| 0.260160742 | 0.000144192 | 0.026 | 1 | 9577 | BRE |
| 0.26014001 | 0.000144373 | 0.028 | 1 | 56731 | SLC2A4RG |
| 0.260088178 | 0.000144827 | 0.017 | 1 | 100288346 | AP000880.1 |
| 0.260070037 | 0.000144986 | 0.028 | 1 | 84225 | ZMYND15 |
| 0.260064854 | 0.000145032 | 0.033 | 1 | 30815 | ST6GALNAC6 |
| 0.259993586 | 0.000145659 | 0.023 | 1 | 3105 | HLA-A |
| 0.259987107 | 0.000145716 | 0.024 | 1 | 55651 | NHP2 |
| 0.259962487 | 0.000145933 | 0.024 | 1 | 7087 | ICAM5 |
| 0.259948233 | 0.000146059 | 0.018 | 1 | 10966 | RAB40B |
| 0.25978626 | 0.000147498 | 0.028 | 1 | 54511 | HMGCLL1 |
| 0.259759049 | 0.000147741 | 0.02 | 1 | 2064 | ERBB2 |
| 0.259742203 | 0.000147892 | 0.025 | 1 | 2650 | GCNT1 |
| 0.259664456 | 0.000148589 | 0.031 | 1 | 2306 | FOXD2 |
| 0.259637245 | 0.000148833 | 0.022 | 1 | 64108 | RTP4 |
| 0.259600963 | 0.00014916 | 0.028 | 1 | 23673 | STX12 |
| 0.25958023 | 0.000149347 | 0.023 | 1 | 81892 | C14orf156 |
| 0.259553019 | 0.000149593 | 0.025 | 1 | 10683 | DLL3 |
| 0.259488229 | 0.00015018 | 0.032 | 1 | 229 | ALDOB |
| 0.259479159 | 0.000150262 | 0.019 | 1 | 223117 | SEMA3D |
| 0.259435102 | 0.000150663 | 0.023 | 1 | 9726 | ZNF646 |
| 0.259435102 | 0.000150663 | 0.024 | 1 | 94009 | SERHL |
| 0.259432511 | 0.000150686 | 0.025 | 1 | 79139 | DERL1 |
| 0.25932496 | 0.000151669 | 0.027 | 1 | 2764 | GMFB |
| 0.259173353 | 0.000153063 | 0.02 | 1 | 494115 | RBMXL1 |
| 0.259153917 | 0.000153243 | 0.029 | 1 | 3099 | HK2 |
| 0.25905155 | 0.000154192 | 0.021 | 1 | 84628 | NTNG2 |
| 0.259041183 | 0.000154289 | 0.031 | 1 | 84309 | NUDT16L1 |
| 0.258916788 | 0.000155451 | 0.025 | 1 | 140564 | APOBEC3D |
| 0.258888281 | 0.000155718 | 0.031 | 1 | 4277 | MICB |
| 0.258859773 | 0.000155986 | 0.024 | 1 | 150275 | CCDC117 |
| 0.258828674 | 0.000156278 | 0.033 | 1 | 6423 | SFRP2 |
| 0.258809238 | 0.000156462 | 0.029 | 1 | 6347 | CCL2 |
| 0.258800167 | 0.000156547 | 0.02 | 1 | 9282 | MED14 |
| 0.258787209 | 0.00015667 | 0.021 | 1 | 25845 | AC010442.2 |
| 0.258779435 | 0.000156743 | 0.023 | 1 | 1142 | CHRNB3 |
| 0.258610982 | 0.000158342 | 0.032 | 1 | 5792 | PTPRF |
| 0.258592841 | 0.000158515 | 0.024 | 1 | 54976 | C20orf27 |
| 0.258529348 | 0.000159122 | 0.031 | 1 | 318 | NUDT2 |
| 0.258486587 | 0.000159532 | 0.029 | 1 | 7010 | TEK |
| 0.258465854 | 0.000159731 | 0.022 | 1 | 5788 | PTPRC |
| 0.258437347 | 0.000160006 | 0.024 | 1 | 27445 | PCLO |
| 0.258389403 | 0.000160468 | 0.028 | 1 | 10295 | BCKDK |
| 0.258371262 | 0.000160643 | 0.017 | 1 | 8715 | NOL4 |
| 0.258318135 | 0.000161157 | 0.026 | 1 | 128434 | VSTM2L |
| 0.258263712 | 0.000161686 | 0.027 | 1 | 8818 | DPM2 |
| 0.258226134 | 0.000162052 | 0.034 | 1 | 6623 | SNCG |
| 0.258217064 | 0.00016214 | 0.028 | 1 | 125962 | OR7G1 |

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| 0.097076237 | 1.9587E-252 | 10265 | IRX5 |
| 0.09706963 | 2.1193E-252 | 23429 | RYBP |
| 0.097066795 | 2.1922E-252 | 201625 | DNAH12 |
| 0.097032778 | 3.2892E-252 | 26996 | GPR160 |
| 0.097020826 | 3.793E-252 | 5883 | RAD9A |
| 0.096972006 | 6.7876E-252 | 253190 | SERHL2 |
| 0.096929525 | 1.126E-251 | 80818 | ZNF436 |
| 0.096921171 | 1.2438E-251 | 215 | ABCD1 |
| 0.096913647 | 1.3604E-251 | 200728 | TMEM17 |
| 0.096889094 | 1.8224E-251 | 80108 | ZFP2 |
| 0.096859021 | 2.6069E-251 | 441124 | LOC441124 |
| 0.096845009 | 3.08E-251 | 84057 | MND1 |
| 0.096812695 | 4.5242E-251 | 7347 | UCHL3 |
| 0.096763218 | 8.1492E-251 | 11001 | SLC27A2 |
| 0.096759392 | 8.5285E-251 | 154215 | NKAIN2 |
| 0.096705788 | 1.6129E-250 | 54921 | CHTF8 |
| 0.096704347 | 1.6407E-250 | 1142 | CHRNB3 |
| 0.096697037 | 7.832E-250 | 25907 | TMEM158 |
| 0.096674995 | 2.3254E-250 | 4327 | MMP19 |
| 0.096670574 | 2.4508E-250 | 2820 | GPD2 |
| 0.096659071 | 2.8097E-250 | 51339 | DACT1 |
| 0.096585989 | 6.6912E-250 | 339366 | ADAMTSL5 |
| 0.096547531 | 1.0561E-249 | 3769 | KCNJ13 |
| 0.096482036 | 2.2964E-249 | 200810 | ALG1L |
| 0.096463042 | 2.8763E-249 | 115361 | GBP4 |
| 0.096448967 | 3.3985E-249 | 2782 | GNB1 |
| 0.096446431 | 3.5022E-249 | 27291 | C10orf28 |
| 0.096440085 | 3.7757E-249 | 219965 | OR5B17 |
| 0.096436562 | 3.9367E-249 | 727936 | GXYLT2 |
| 0.096427591 | 4.3782E-249 | 1746 | DLX2 |
| 0.096420295 | 4.7735E-249 | 54825 | PCDH24 |
| 0.096418338 | 4.8855E-249 | 55800 | SCN3B |
| 0.096414739 | 5.0983E-249 | 10885 | WDR3 |
| 0.096402935 | 5.8635E-249 | 10178 | ODZ1 |
| 0.096398977 | 6.145E-249 | 813 | CALU |
| 0.096377832 | 7.8938E-249 | 148479 | PHF13 |
| 0.096349429 | 1.105E-248 | 57713 | SFMBT2 |
| 0.09633397 | 1.3269E-248 | 79946 | C10orf95 |
| 0.096316679 | 1.6282E-248 | 2863 | GPR39 |
| 0.096301465 | 1.9494E-248 | 10586 | MAB21L2 |
| 0.096288815 | 2.2642E-248 | 2885 | GRB2 |
| 0.096288431 | 2.2745E-248 | 84063 | KIRREL2 |
| 0.096284882 | 2.372E-248 | 158160 | HSD17B7P2 |
| 0.096262827 | 3.0791E-248 | 51105 | PHF20L1 |
| 0.096234627 | 4.298E-248 | 143282 | FGFBP3 |
| 0.096217066 | 5.2899E-248 | 5525 | PPP2R5A |
| 0.096213945 | 5.4887E-248 | 10971 | YWHAQ |
| 0.096194176 | 6.9337E-248 | 140732 | SPAG4L |
| 0.096139062 | 1.3298E-247 | 90806 | ANGEL2 |
| 0.096133677 | 1.4172E-247 | 51776 | ZAK |
| 0.096126828 | 1.5366E-247 | 51643 | TMBIM4 |
| 0.09609381 | 2.2693E-247 | 7514 | XPO1 |
| 0.095996743 | 7.1349E-247 | 80274 | SCUBE1 |
| 0.095991292 | 7.6087E-247 | 285989 | ZNF789 |
| 0.095980876 | 8.6032E-247 | 3397 | ID1 |
| 0.095966465 | 1.0197E-246 | 78989 | COLEC11 |
| 0.095965058 | 1.0367E-246 | 9578 | AL117209.1 |
| 0.095934153 | 1.4925E-246 | 91653 | BOC |
| 0.09587568 | 2.9727E-246 | 353174 | ZACN |
| 0.095868766 | 3.2249E-246 | 10769 | PLK2 |
| 0.095835329 | 4.7812E-246 | 55813 | UTP6 |
| 0.095829154 | 5.1418E-246 | 81888 | HYI |
| 0.095816417 | 5.9736E-246 | 65982 | ZSCAN18 |
| 0.095758209 | 2.4726E-244 | 161198 | CLEC14A |
| 0.095706257 | 2.1834E-245 | 40 | ACCN1 |
| 0.095698909 | 2.3805E-245 | 84649 | DGAT2 |
| 0.095686173 | 6.3839E-244 | 284656 | RP4-783C10.1 |
| 0.095639181 | 4.8035E-245 | 55532 | SLC30A10 |
| 0.095633359 | 5.1436E-245 | 6509 | SLC1A4 |
| 0.095614595 | 6.4123E-245 | 80115 | BAIAP2L2 |
| 0.095609276 | 6.8257E-245 | 338398 | TAS2R60 |
| 0.095587001 | 8.8668E-245 | 64651 | CSRNP1 |
| 0.095556839 | 1.2635E-244 | 159091 | FAM122C |
| 0.095549424 | 1.3784E-244 | 219743 | TYSND1 |
| 0.095539219 | 1.5539E-244 | 9424 | KCNK6 |
| 0.095536963 | 1.5956E-244 | 3075 | CFH |
| 0.09545745 | 4.0557E-244 | 23670 | TMEM2 |
| 0.095451264 | 4.3609E-244 | 23376 | KIAA0776 |
| 0.095446129 | 4.6316E-244 | 387103 | C6orf173 |
| 0.095433464 | 5.3731E-244 | 83729 | INHBE |
| 0.095417111 | 6.5085E-244 | 256051 | ZNF549 |
| 0.095416898 | 6.5248E-244 | 400410 | ST20 |

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| 0.258213176 | 0.000162178 | 0.022 | 1 | 27156 | RTDR1 |
| 0.258206697 | 0.000162241 | 0.03 | 1 | 56683 | C21orf59 |
| 0.258201514 | 0.000162292 | 0.03 | 1 | 64847 | SPATA20 |
| 0.258174303 | 0.000162557 | 0.017 | 1 | 63894 | C14orf133 |
| 0.258174303 | 0.000162557 | 0.031 | 1 | 83989 | FAM172A |
| 0.258162641 | 0.000162671 | 0.026 | 1 | 149095 | DCST1 |
| 0.25809526 | 0.000163332 | 0.022 | 1 | 127281 | C1orf93 |
| 0.258090077 | 0.000163383 | 0.024 | 1 | 3597 | IL13RA1 |
| 0.258083598 | 0.000163446 | 0.029 | 1 | 2846 | LPAR4 |
| 0.258065457 | 0.000163625 | 0.03 | 1 | 1810 | DR1 |
| 0.258012329 | 0.000164148 | 0.037 | 1 | 146198 | ZFP90 |
| 0.257994188 | 0.000164327 | 0.028 | 1 | 1890 | TYMP |
| 0.257978639 | 0.00016448 | 0.014 | 1 | 644890 | MEIG1 |
| 0.257961794 | 0.000164647 | 0.028 | 1 | 11275 | KLHL2 |
| 0.257799821 | 0.000166256 | 0.025 | 1 | 9308 | CD83 |
| 0.257733735 | 0.000166917 | 0.024 | 1 | 389033 | AC079776.2 |
| 0.257681904 | 0.000167437 | 0.032 | 1 | 11094 | C9orf7 |
| 0.257653397 | 0.000167724 | 0.038 | 1 | 100133234 | SBF1P1 |
| 0.257637847 | 0.00016788 | 0.027 | 1 | 9615 | GDA |
| 0.257595086 | 0.000168311 | 0.023 | 1 | 2731 | GLDC |
| 0.257571762 | 0.000168547 | 0.036 | 1 | 100049587 | SIGLEC14 |
| 0.257464212 | 0.000169638 | 0.027 | 1 | 6352 | CCL5 |
| 0.257442184 | 0.000169862 | 0.022 | 1 | 55803 | ADAP2 |
| 0.257360549 | 0.000170695 | 0.031 | 1 | 6092 | ROBO2 |
| 0.257321676 | 0.000171093 | 0.027 | 1 | 2209 | FCGR1A |
| 0.257218013 | 0.000172159 | 0.03 | 1 | 10398 | MYL9 |
| 0.257162294 | 0.000172735 | 0.012 | 1 | 83539 | CHST9 |
| 0.257137674 | 0.000172989 | 0.023 | 1 | 58 | ACTA1 |
| 0.257100096 | 0.000173379 | 0.025 | 1 | 3241 | HPCAL1 |
| 0.257054744 | 0.000173851 | 0.026 | 1 | 283152 | CCDC153 |
| 0.257004208 | 0.000174377 | 0.025 | 1 | 2550 | GABBR1 |
| 0.256925165 | 0.000175204 | 0.027 | 1 | 51385 | ZNF589 |
| 0.256887587 | 0.000175598 | 0.027 | 1 | 84787 | SUV420H2 |
| 0.256824094 | 0.000176266 | 0.036 | 1 | 64743 | WDR13 |
| 0.256774854 | 0.000176786 | 0.026 | 1 | 4247 | MGAT2 |
| 0.256697107 | 0.00017761 | 0.03 | 1 | 11284 | PNKP |
| 0.25665305 | 0.000178078 | 0.036 | 1 | 51340 | CRNKL1 |
| 0.256624543 | 0.000178382 | 0.028 | 1 | 60676 | PAPPA2 |
| 0.256610289 | 0.000178534 | 0.029 | 1 | 118881 | COMTD1 |
| 0.25655457 | 0.000179129 | 0.023 | 1 | 3823 | KLRC3 |
| 0.256510514 | 0.000179601 | 0.032 | 1 | 4343 | MOV10 |
| 0.256454795 | 0.0001802 | 0.026 | 1 | 10457 | GPNMB |
| 0.256444429 | 0.000180312 | 0.013 | 1 | 720 | C4A |
| 0.256439245 | 0.000180368 | 0.034 | 1 | 23705 | CADM1 |
| 0.256375752 | 0.000181053 | 0.031 | 1 | 23521 | RPL13A |
| 0.256325216 | 0.0001816 | 0.034 | 1 | 55012 | PPP2R3C |
| 0.256312258 | 0.00018174 | 0.024 | 1 | 6573 | SLC19A1 |
| 0.256272089 | 0.000182176 | 0.031 | 1 | 2535 | FZD2 |
| 0.256261723 | 0.000182289 | 0.023 | 1 | 55779 | WDR52 |
| 0.25625654 | 0.000182346 | 0.019 | 1 | 84460 | ZMAT1 |
| 0.256233216 | 0.0001826 | 0.027 | 1 | 58504 | ARHGAP22 |
| 0.256163243 | 0.000183363 | 0.029 | 1 | 196446 | C12orf28 |
| 0.256139919 | 0.000183619 | 0.024 | 1 | 219771 | CCNY |
| 0.256104933 | 0.000184002 | 0.026 | 1 | 388963 | C2orf81 |
| 0.256077721 | 0.000184301 | 0.022 | 1 | 51134 | CCDC41 |
| 0.256073834 | 0.000184344 | 0.029 | 1 | 167838 | TXLNB |
| 0.256069947 | 0.000184387 | 0.038 | 1 | 10522 | DEAF1 |
| 0.256063468 | 0.000184458 | 0.031 | 1 | 10229 | COQ7 |
| 0.256062172 | 0.000184472 | 0.033 | 1 | 64432 | MRPS25 |
| 0.255997383 | 0.000185186 | 0.023 | 1 | 29927 | SEC61A1 |
| 0.255972763 | 0.000185458 | 0.019 | 1 | 9595 | CYTIP |
| 0.255963692 | 0.000185558 | 0.024 | 1 | 65986 | ZBTB10 |
| 0.255839297 | 0.000186939 | 0.012 | 1 | 4097 | MAFG |
| 0.255834114 | 0.000186997 | 0.026 | 1 | 3957 | LGALS2 |
| 0.255620309 | 0.000189393 | 0.015 | 1 | 23196 | FAM120A |
| 0.255572365 | 0.000189934 | 0.025 | 1 | 79703 | C11orf80 |
| 0.255567182 | 0.000189993 | 0.021 | 1 | 84269 | CHCHD5 |
| 0.255512759 | 0.000190609 | 0.016 | 1 | 22862 | FNDC3A |
| 0.255392251 | 0.000191981 | 0.024 | 1 | 147699 | PPM1N |
| 0.255390955 | 0.000191995 | 0.026 | 1 | 1272 | CNTN1 |
| 0.255346898 | 0.000192499 | 0.021 | 1 | 285193 | DUSP28 |
| 0.255283405 | 0.000193227 | 0.023 | 1 | 51138 | COPS4 |
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| 0.255187516 | 0.000194332 | 0.029 | 1 | 2167 | FABP4 |
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| 0.095355238 | 1.344E-243 | 80975 | TMPRSS5 |
| 0.095353686 | 1.3686E-243 | 6404 | SELPLG |
| 0.095319591 | 2.0404E-243 | 55591 | VEZT |
| 0.095304446 | 2.4363E-243 | 58538 | MPP4 |
| 0.095300463 | 2.5526E-243 | 8120 | AP3B2 |
| 0.095275911 | 3.4026E-243 | 728769 | CTD-2037K23.2 |
| 0.095244991 | 4.8862E-243 | 84749 | USP30 |
| 0.095227789 | 5.9755E-243 | 10717 | AP4B1 |
| 0.095224699 | 6.1955E-243 | 2900 | GRIK4 |
| 0.095164885 | 1.247E-242 | 9179 | AP4M1 |
| 0.095150701 | 1.4719E-242 | 5238 | PGM3 |
| 0.095134448 | 1.7799E-242 | 6091 | ROBO1 |
| 0.095113527 | 2.2729E-242 | 64859 | OBFC2A |
| 0.095112476 | 2.3009E-242 | 84225 | ZMYND15 |
| 0.095087888 | 3.0667E-242 | 6428 | SRSF3 |
| 0.095086772 | 3.1069E-242 | 1674 | DES |
| 0.095079822 | 3.3696E-242 | 10890 | RAB10 |
| 0.095076881 | 3.4874E-242 | 3630 | INS |
| 0.095066684 | 3.9285E-242 | 2064 | ERBB2 |
| 0.095046007 | 5.0014E-242 | 4884 | NPTX1 |
| 0.095020662 | 6.7235E-242 | 54536 | EXOC6 |
| 0.09500857 | 7.7428E-242 | 147699 | PPM1N |
| 0.094997222 | 8.8392E-242 | 56895 | AGPAT4 |
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| 0.094762444 | 1.3642E-240 | 10535 | RNASEH2A |
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| 0.094720944 | 2.2112E-240 | 430 | ASCL2 |
| 0.094666154 | 9.0322E-239 | 83857 | TMTC1 |
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| 0.094648137 | 5.157E-240 | 8549 | LGR5 |
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| 0.094621957 | 6.9916E-240 | 56954 | NIT2 |
| 0.094605354 | 8.4797E-240 | 93487 | MAPK1IP1L |
| 0.094599362 | 9.0912E-240 | 5331 | PLCB3 |
| 0.094583796 | 1.0894E-239 | 59350 | RXFP1 |
| 0.094508678 | 2.6065E-239 | 54020 | SLC37A1 |
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| 0.094421573 | 7.1619E-239 | 55660 | PRPF40A |
| 0.094411564 | 8.0435E-239 | 400451 | FAM174B |
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| 0.094252578 | 5.0759E-238 | 164091 | PAQR7 |
| 0.094230139 | 6.5814E-238 | 9540 | TP53I3 |
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| 0.094196604 | 9.702E-238 | 1809 | DPYSL3 |
| 0.094079243 | 3.769E-237 | 404217 | CTXN1 |
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| 0.094034393 | 6.3278E-237 | 10848 | PPP1R13L |
| 0.093973901 | 1.2723E-236 | 80737 | C6orf27 |
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| 0.093918034 | 2.4242E-236 | 347088 | GPR144 |
| 0.093916409 | 2.47E-236 | 2004 | ELK3 |
| 0.093910891 | 2.6324E-236 | 55450 | CAMK2N1 |
| 0.093891505 | 3.2919E-236 | 55615 | PRR5 |
| 0.093872316 | 4.1072E-236 | 26286 | ARFGAP3 |
| 0.093857265 | 4.8854E-236 | 168455 | C7ORF74 |
| 0.093818706 | 7.6193E-236 | 55619 | DOCK10 |
| 0.09378824 | 2.1195E-235 | 79845 | RNF122 |
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| 0.254853204 | 0.000198229 | 0.021 | 1 | 5570 | PKIB |
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| 0.254512412 | 0.000202276 | 0.018 | 1 | 27173 | SLC39A1 |
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| 0.254312861 | 0.000204682 | 0.032 | 1 | 10653 | AC011479.2 |
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| 0.253903393 | 0.000209702 | 0.028 | 1 | 619208 | C6orf225 |
| 0.25383342 | 0.000210571 | 0.027 | 1 | 79144 | PPDPF |
| 0.253825646 | 0.000210668 | 0.023 | 1 | 51108 | METTL9 |
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| 0.253699954 | 0.000212239 | 0.03 | 1 | 5276 | SERPINI2 |
| 0.253663672 | 0.000212694 | 0.034 | 1 | 3050 | HBZ |
| 0.253589813 | 0.000213624 | 0.022 | 1 | 6887 | TAL2 |
| 0.253576855 | 0.000213788 | 0.026 | 1 | 149603 | RNF187 |
| 0.253550939 | 0.000214115 | 0.022 | 1 | 57030 | SLC17A7 |
| 0.253422656 | 0.000215743 | 0.032 | 1 | 2689 | GH2 |
| 0.253388966 | 0.000216172 | 0.027 | 1 | 221938 | MMD2 |
| 0.253366937 | 0.000216453 | 0.033 | 1 | 23177 | CEP68 |
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| 0.25326457 | 0.000217765 | 0.027 | 1 | 3931 | LCAT |
| 0.25326457 | 0.000217765 | 0.033 | 1 | 64326 | RFWD2 |
| 0.253193302 | 0.000218682 | 0.031 | 1 | 55048 | VPS37C |
| 0.25312333 | 0.000219586 | 0.028 | 1 | 9479 | MAPK8IP1 |
| 0.253112963 | 0.00021972 | 0.02 | 1 | 25975 | EGFL6 |
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| 0.253075386 | 0.000220207 | 0.021 | 1 | 122481 | AK7 |
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| 0.25300023 | 0.000221185 | 0.034 | 1 | 6776 | STAT5A |
| 0.252963948 | 0.000221658 | 0.017 | 1 | 390205 | AP003108.2 |
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| 0.252879722 | 0.00022276 | 0.026 | 1 | 3400 | ID4 |
| 0.252873243 | 0.000222845 | 0.027 | 1 | 57096 | RPGRIP1 |
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| 0.252699608 | 0.000225135 | 0.027 | 1 | 945 | CD33 |
| 0.252647776 | 0.000225823 | 0.031 | 1 | 78995 | C17orf53 |
| 0.252621861 | 0.000226167 | 0.025 | 1 | 131965 | METTL6 |
| 0.252584283 | 0.000226668 | 0.029 | 1 | 79838 | TMC5 |
| 0.252577804 | 0.000226754 | 0.028 | 1 | 80169 | CTC1 |
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| 0.252523381 | 0.000227481 | 0.025 | 1 | 57828 | C19orf15 |
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| 0.252457296 | 0.000228367 | 0.022 | 1 | 219285 | SAMD9L |
| 0.252432676 | 0.000228698 | 0.029 | 1 | 10518 | CIB2 |
| 0.252414535 | 0.000228942 | 0.026 | 1 | 114757 | CYGB |
| 0.252395098 | 0.000229204 | 0.021 | 1 | 29937 | NENF |
| 0.252389915 | 0.000229273 | 0.041 | 1 | 219869 | OR10G8 |
| 0.252360112 | 0.000229675 | 0.033 | 1 | 246182 | AKR7A2P1 |
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| 0.252322534 | 0.000230183 | 0.025 | 1 | 7038 | TG |
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| 0.252242195 | 0.000231272 | 0.024 | 1 | 1463 | NCAN |
| 0.252222759 | 0.000231537 | 0.021 | 1 | 4261 | CIITA |
| 0.252032278 | 0.000234141 | 0.033 | 1 | 51686 | OAZ3 |
| 0.251997292 | 0.000234622 | 0.028 | 1 | 3642 | INSM1 |
| 0.25196101 | 0.000235122 | 0.035 | 1 | 10980 | COPS6 |
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| 0.251346807 | 0.000243741 | 0.024 | 1 | 10093 | ARPC4 |
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| 0.093650581 | 5.2787E-235 | 7343 | UBTF |
| 0.093608311 | 8.5828E-235 | 92340 | C17orf72 |
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| 0.093527913 | 2.1622E-234 | 7851 | MALL |
| 0.093527012 | 2.1847E-234 | 5019 | OXCT1 |
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| 0.093506423 | 2.7675E-234 | 57139 | RGL3 |
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| 0.093496911 | 3.0869E-234 | 6504 | SLAMF1 |
| 0.093494722 | 3.1655E-234 | 134121 | C5orf49 |
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| 0.093450062 | 5.2857E-234 | 163589 | TDRD5 |
| 0.093443061 | 5.7279E-234 | 9420 | CYP7B1 |
| 0.093432039 | 6.5003E-234 | 1378 | CR1 |
| 0.093418051 | 7.6319E-234 | 219477 | OR8J1 |
| 0.093400596 | 9.3239E-234 | 8974 | P4HA2 |
| 0.093399725 | 9.4176E-234 | 1062 | CENPE |
| 0.09339541 | 9.8954E-234 | 3631 | INPP4A |
| 0.093389031 | 1.0647E-233 | 799 | CALCR |
| 0.093363092 | 1.4335E-233 | 56683 | C21orf59 |
| 0.09335123 | 1.6424E-233 | 221662 | RBM24 |
| 0.093350845 | 1.6496E-233 | 151963 | C3orf59 |
| 0.093345018 | 1.7636E-233 | 84962 | JUB |
| 0.093338612 | 1.898E-233 | 57486 | NLN |
| 0.093332258 | 2.0414E-233 | 286002 | AC078937.4 |
| 0.093322651 | 2.279E-233 | 546 | ATRX |
| 0.093267741 | 4.2754E-233 | 2520 | GAST |
| 0.093265343 | 4.3945E-233 | 1044 | CDX1 |
| 0.09323695 | 6.0832E-233 | 283209 | PGM2L1 |
| 0.093209429 | 8.3362E-233 | 27044 | SND1 |
| 0.093183634 | 1.1199E-232 | 6217 | RPS16P1 |
| 0.093174424 | 1.2444E-232 | 779 | CACNA1S |
| 0.093119514 | 2.3322E-232 | 80024 | SLC24A6 |
| 0.093100235 | 2.9074E-232 | 23518 | R3HDM1 |
| 0.093074183 | 3.916E-232 | 7477 | WNT7B |
| 0.093071158 | 4.0538E-232 | 6610 | SMPD2 |
| 0.09305839 | 4.6907E-232 | 81491 | GPR63 |
| 0.093026943 | 6.7188E-232 | 163071 | ZNF114 |
| 0.093016923 | 7.5336E-232 | 283385 | MORN3 |
| 0.093009051 | 8.2424E-232 | 79838 | TMC5 |
| 0.092991004 | 1.0129E-231 | 148523 | C1orf51 |
| 0.09298904 | 1.0359E-231 | 254439 | C11orf86 |
| 0.092968951 | 1.303E-231 | 8332 | HIST1H2AL |
| 0.09290072 | 2.8387E-231 | 441027 | TMEM150C |
| 0.092878978 | 3.6378E-231 | 54935 | DUSP23 |
| 0.092859642 | 4.5353E-231 | 2294 | FOXF1 |
| 0.092845747 | 5.314E-231 | 1978 | EIF4EBP1 |
| 0.092835229 | 5.991E-231 | 64326 | RFWD2 |
| 0.092813553 | 7.6703E-231 | 26035 | GLCE |
| 0.092769911 | 1.2612E-230 | 3755 | KCNG1 |
| 0.092742196 | 1.7294E-230 | 10763 | NES |
| 0.092733172 | 1.9166E-230 | 1268 | CNR1 |
| 0.092727405 | 2.0467E-230 | 84253 | GARNL3 |
| 0.092725529 | 2.0908E-230 | 5676 | PSG7 |
| 0.0927034 | 2.6899E-230 | 146330 | FBXL16 |
| 0.092670785 | 3.8991E-230 | 53353 | LRP1B |
| 0.092653999 | 4.7197E-230 | 221091 | LRRN4CL |
| 0.09258979 | 9.7968E-230 | 55627 | SMPD4 |
| 0.092589089 | 9.8753E-230 | 86 | ACTL6A |
| 0.092577679 | 1.1243E-229 | 2494 | NR5A2 |
| 0.092577095 | 1.1318E-229 | 388125 | FAM148B |
| 0.092549112 | 1.5556E-229 | 143384 | C10orf46 |
| 0.092544356 | 1.642E-229 | 1107 | CHD3 |
| 0.092531196 | 1.9069E-229 | 9704 | DHX34 |
| 0.092518302 | 2.2077E-229 | 389558 | FAM180A |
| 0.092517112 | 2.2378E-229 | 3683 | ITGAL |
| 0.092512093 | 2.3691E-229 | 79694 | MANEA |
| 0.092505056 | 2.5663E-229 | 55898 | UNC45A |
| 0.092484388 | 3.2453E-229 | 9427 | ECEL1 |
| 0.092421386 | 6.6356E-229 | 55225 | RAVER2 |
| 0.092397001 | 8.7509E-229 | 64215 | DNAJC1 |
| 0.092395147 | 8.9369E-229 | 2812 | GP1BB |
| 0.092375836 | 1.1126E-228 | 650 | BMP2 |
| 0.092340105 | 1.6685E-228 | 51562 | MBIP |
| 0.092316104 | 2.1902E-228 | 100289274 | DNAJC3-AS1 |

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| 0.251037115 | 0.000248197 | 0.031 | 1 | 6610 | SMPD2 |
| 0.250886803 | 0.000250387 | 0.023 | 1 | 83464 | APH1B |
| 0.250884212 | 0.000250425 | 0.028 | 1 | 192668 | CYS1 |
| 0.250876437 | 0.000250539 | 0.035 | 1 | 81691 | AC004381.2 |
| 0.250862183 | 0.000250748 | 0.03 | 1 | 115290 | FBXO17 |
| 0.250827197 | 0.000251261 | 0.029 | 1 | 29781 | NCAPH2 |
| 0.250802577 | 0.000251622 | 0.029 | 1 | 6844 | VAMP2 |
| 0.250794803 | 0.000251737 | 0.033 | 1 | 23376 | KIAA0776 |
| 0.250745563 | 0.000252462 | 0.027 | 1 | 670 | BPHL |
| 0.250741675 | 0.000252519 | 0.028 | 1 | 79039 | DDX54 |
| 0.250654858 | 0.000253802 | 0.025 | 1 | 51529 | ANAPC11 |
| 0.250613393 | 0.000254418 | 0.026 | 1 | 10160 | FARP1 |
| 0.25043587 | 0.000257067 | 0.033 | 1 | 8346 | HIST1H2BI |
| 0.250367193 | 0.000258098 | 0.03 | 1 | 6643 | SNX2 |
| 0.250345165 | 0.00025843 | 0.026 | 1 | 26157 | GIMAP2 |
| 0.250282967 | 0.000259369 | 0.029 | 1 | 2224 | FDPS |
| 0.250257052 | 0.000259761 | 0.024 | 1 | 282969 | C10orf125 |
| 0.250181896 | 0.000260901 | 0.034 | 1 | 654434 | LINC00338 |
| 0.250141727 | 0.000261513 | 0.026 | 1 | 63923 | TNN |
| 0.250092487 | 0.000262264 | 0.033 | 1 | 84221 | C21orf56 |
| 0.250087304 | 0.000262343 | 0.023 | 1 | 53826 | FXYD6 |
| 0.250078233 | 0.000262482 | 0.033 | 1 | 7337 | UBE3A |
| 0.250060092 | 0.000262759 | 0.034 | 1 | 414919 | C8orf82 |
| 0.25001474 | 0.000263454 | 0.03 | 1 | 23732 | FRRS1L |
| 0.249997894 | 0.000263713 | 0.036 | 1 | 135228 | CD109 |
| 0.249892936 | 0.000265329 | 0.027 | 1 | 401 | PHOX2A |
| 0.249892936 | 0.000265329 | 0.036 | 1 | 3769 | KCNJ13 |
| 0.249883865 | 0.000265469 | 0.02 | 1 | 56155 | TEX14 |
| 0.249877386 | 0.000265569 | 0.03 | 1 | 79090 | TRAPPC6A |
| 0.249795752 | 0.000266834 | 0.02 | 1 | 285958 | C7orf40 |
| 0.249765949 | 0.000267297 | 0.027 | 1 | 9470 | EIF4E2 |
| 0.249746512 | 0.000267599 | 0.028 | 1 | 3883 | KRT33A |
| 0.249720596 | 0.000268003 | 0.024 | 1 | 733 | C8G |
| 0.249649328 | 0.000269116 | 0.033 | 1 | 201625 | DNAH12 |
| 0.249487355 | 0.000271662 | 0.033 | 1 | 126074 | C19orf39 |
| 0.249475693 | 0.000271846 | 0.032 | 1 | 3381 | IBSP |
| 0.249419974 | 0.000272728 | 0.022 | 1 | 4858 | NOVA2 |
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| 0.249387579 | 0.000273242 | 0.031 | 1 | 790955 | C11orf83 |
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| 0.249366847 | 0.000273571 | 0.032 | 1 | 51255 | RNF181 |
| 0.24934741 | 0.00027388 | 0.028 | 1 | 27134 | TJP3 |
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| 0.249283916 | 0.000274892 | 0.035 | 1 | 65989 | DLK2 |
| 0.249247634 | 0.000275471 | 0.041 | 1 | 474343 | SPIN2B |
| 0.249163408 | 0.000276821 | 0.028 | 1 | 8302 | KLRC4 |
| 0.249000139 | 0.000279456 | 0.04 | 1 | 10495 | ENOX2 |
| 0.24898459 | 0.000279708 | 0.036 | 1 | 56034 | PDGFC |
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| 0.248958674 | 0.000280129 | 0.03 | 1 | 127933 | UHMK1 |
| 0.248931463 | 0.000280571 | 0.032 | 1 | 317 | APAF1 |
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| 0.248773377 | 0.000283154 | 0.037 | 1 | 79135 | APOO |
| 0.248676193 | 0.000284753 | 0.044 | 1 | 6629 | SNRPB2 |
| 0.248664531 | 0.000284945 | 0.029 | 1 | 9666 | DZIP3 |
| 0.248660643 | 0.00028501 | 0.039 | 1 | 57633 | LRRN1 |
| 0.248654164 | 0.000285117 | 0.037 | 1 | 7574 | ZNF26 |
| 0.248556981 | 0.000286726 | 0.043 | 1 | 138050 | HGSNAT |
| 0.248533656 | 0.000287113 | 0.037 | 1 | 8214 | DGCR6 |
| 0.248506445 | 0.000287566 | 0.041 | 1 | 148137 | C19orf55 |
| 0.24813585 | 0.000293797 | 0.03 | 1 | 91646 | TDRD12 |
| 0.248087906 | 0.000294612 | 0.03 | 1 | 213 | ALB |
| 0.248064582 | 0.000295009 | 0.034 | 1 | 10842 | C7orf16 |
| 0.248042554 | 0.000295385 | 0.035 | 1 | 286102 | TMED10P1 |
| 0.248008863 | 0.000295961 | 0.036 | 1 | 960 | CD44 |
| 0.248007567 | 0.000295983 | 0.034 | 1 | 254863 | C17orf61 |
| 0.248004976 | 0.000296027 | 0.029 | 1 | 128312 | HIST3H2BB |
| 0.247924637 | 0.000297404 | 0.042 | 1 | 2098 | ESD |
| 0.247862439 | 0.000298474 | 0.028 | 1 | 2790 | GNG10 |
| 0.247828749 | 0.000299055 | 0.025 | 1 | 140706 | C20orf160 |
| 0.24774841 | 0.000300445 | 0.025 | 1 | 256364 | EML3 |
| 0.247719903 | 0.00030094 | 0.038 | 1 | 286527 | TMSB15B |
| 0.24760717 | 0.000302904 | 0.022 | 1 | 152789 | JAKMIP1 |
| 0.247550155 | 0.000303901 | 0.03 | 1 | 54960 | GEMIN8 |
| 0.247487957 | 0.000304993 | 0.038 | 1 | 10549 | PRDX4 |
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| 0.092304551 | 2.4967E-228 | 9706 | ULK2 |
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| 0.09229032 | 2.9337E-228 | 79042 | TSEN34 |
| 0.092262268 | 4.0314E-228 | 7157 | TP53 |
| 0.092254869 | 4.3839E-228 | 8451 | CUL4A |
| 0.092250982 | 4.5812E-228 | 128637 | TBC1D20 |
| 0.09224837 | 4.7188E-228 | 3691 | ITGB4 |
| 0.092230372 | 5.7858E-228 | 728175 | AC103540.1 |
| 0.092224441 | 6.1878E-228 | 114798 | SLITRK1 |
| 0.092204162 | 7.785E-228 | 90488 | C12orf23 |
| 0.092202796 | 7.9062E-228 | 10859 | LILRB1 |
| 0.092194173 | 8.717E-228 | 1382 | CRABP2 |
| 0.092191651 | 8.9695E-228 | 117196 | MRGPRX4 |
| 0.092179446 | 1.0298E-227 | 65997 | RASL11B |
| 0.092174558 | 1.0884E-227 | 256227 | AC099759.1 |
| 0.092162923 | 1.2416E-227 | 10501 | SEMA6B |
| 0.092160175 | 1.2808E-227 | 7515 | XRCC1 |
| 0.092140948 | 1.5921E-227 | 10381 | RP11-566K11.2 |
| 0.092088432 | 2.8836E-227 | 147 | ADRA1B |
| 0.092085333 | 2.9865E-227 | 399668 | LINC00086 |
| 0.092063954 | 3.803E-227 | 8277 | TKTL1 |
| 0.092047214 | 4.5952E-227 | 6755 | SSTR5 |
| 0.092027193 | 5.7619E-227 | 3441 | IFNA4 |
| 0.092014873 | 6.6226E-227 | 285679 | AC136604.1 |
| 0.091984846 | 9.2968E-227 | 25943 | C20orf194 |
| 0.091979098 | 9.9204E-227 | 1060 | CENPC1 |
| 0.091970842 | 1.089E-226 | 55332 | DRAM1 |
| 0.091963743 | 1.1799E-226 | 10683 | DLL3 |
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| 0.091944489 | 1.4664E-226 | 6571 | SLC18A2 |
| 0.091918378 | 1.969E-226 | 6839 | SUV39H1 |
| 0.09189763 | 2.4885E-226 | 167838 | TXLNB |
| 0.091880026 | 3.0353E-226 | 100131176 | RP4-555L14.5 |
| 0.091867337 | 3.5024E-226 | 54972 | TMEM132A |
| 0.091837236 | 4.9181E-226 | 340706 | VWA2 |
| 0.091801676 | 7.3435E-226 | 1397 | CRIP2 |
| 0.091768274 | 1.07E-225 | 23129 | PLXND1 |
| 0.091761422 | 1.1559E-225 | 171023 | ASXL1 |
| 0.091758266 | 1.1977E-225 | 7224 | TRPC5 |
| 0.091753724 | 1.2606E-225 | 29780 | PARVB |
| 0.091752128 | 1.2835E-225 | 126259 | TMIGD2 |
| 0.091743849 | 1.4089E-225 | 55010 | C12orf48 |
| 0.091740149 | 1.4689E-225 | 51131 | PHF11 |
| 0.091737715 | 1.5097E-225 | 144486 | LOC144486 |
| 0.091730229 | 1.6425E-225 | 3762 | KCNJ5 |
| 0.091716389 | 1.9196E-225 | 7739 | ZNF185 |
| 0.09171015 | 2.0593E-225 | 25827 | FBXL2 |
| 0.091701837 | 2.2614E-225 | 129080 | EMID1 |
| 0.091688807 | 2.6187E-225 | 7123 | CLEC3B |
| 0.091684805 | 2.7393E-225 | 3593 | IL12B |
| 0.091681552 | 2.8415E-225 | 4356 | MPP3 |
| 0.091676977 | 2.9917E-225 | 3690 | ITGB3 |
| 0.091672041 | 3.1626E-225 | 6241 | RRM2 |
| 0.091659629 | 3.6367E-225 | 5277 | PIGA |
| 0.091636805 | 4.7017E-225 | 137964 | AGPAT6 |
| 0.09160396 | 6.8032E-225 | 222865 | TMEM130 |
| 0.091595916 | 7.4474E-225 | 374650 | GOLGA6L5 |
| 0.091588201 | 8.1223E-225 | 81558 | FAM117A |
| 0.091566078 | 1.0416E-224 | 8552 | INE1 |
| 0.09155483 | 1.182E-224 | 388512 | CLEC17A |
| 0.091553917 | 1.1942E-224 | 57626 | KLHL1 |
| 0.09154599 | 1.3055E-224 | 2767 | GNA11 |
| 0.091545322 | 1.3153E-224 | 997 | CDC34 |
| 0.091544448 | 1.3283E-224 | 10376 | TUBA1B |
| 0.091525174 | 1.6496E-224 | 117177 | RAB3IP |
| 0.091495306 | 2.3074E-224 | 4485 | MST1 |
| 0.091463132 | 3.3117E-224 | 22953 | P2RX2 |
| 0.091434779 | 4.5531E-224 | 100506658 | OCLN |
| 0.091399268 | 6.7827E-224 | 55065 | GPR172B |
| 0.091371192 | 9.2942E-224 | 51440 | HPCAL4 |
| 0.091368556 | 9.5732E-224 | 337977 | KRTAP21-1 |
| 0.091350452 | 1.9811E-222 | 260434 | PYDC1 |
| 0.091301945 | 2.0205E-223 | 115560 | ZNF501 |
| 0.091281165 | 2.5503E-223 | 200150 | PLD5 |
| 0.091277178 | 4.0896E-222 | 8448 | DOC2A |
| 0.091267621 | 2.9683E-223 | 55133 | SRBD1 |
| 0.091265859 | 3.0275E-223 | 3359 | HTR3A |
| 0.091265525 | 3.0389E-223 | 4247 | MGAT2 |
| 0.091222851 | 4.9015E-223 | 653240 | KRTAP4-14 |
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| 0.247183448 | 0.000310392 | 0.021 | 1 | 649330 | LOC649330 |
| 0.247169194 | 0.000310647 | 0.039 | 1 | 51309 | ARMCX1 |
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| 0.24703832 | 0.000312996 | 0.032 | 1 | 5350 | PLN |
| 0.246916516 | 0.000315197 | 0.036 | 1 | 23167 | EFR3A |
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| 0.246422821 | 0.000324267 | 0.036 | 1 | 7142 | TNP2 |
| 0.246416342 | 0.000324388 | 0.031 | 1 | 7873 | ARMET |
| 0.246398201 | 0.000324726 | 0.047 | 1 | 9775 | EIF4A3 |
| 0.24623882 | 0.00032771 | 0.038 | 1 | 6860 | SYT4 |
| 0.246228454 | 0.000327905 | 0.027 | 1 | 25987 | TSKU |
| 0.246225862 | 0.000327953 | 0.027 | 1 | 145781 | GCOM1 |
| 0.246197355 | 0.00032849 | 0.025 | 1 | 641455 | AL589182.2 |
| 0.24613127 | 0.000329738 | 0.025 | 1 | 3113 | HLA-DPA1 |
| 0.2460911 | 0.000330498 | 0.031 | 1 | 402055 | SRRD |
| 0.245987437 | 0.000332468 | 0.033 | 1 | 79639 | TMEM53 |
| 0.245975775 | 0.00033269 | 0.032 | 1 | 121457 | AC013283.1 |
| 0.245962817 | 0.000332937 | 0.043 | 1 | 57801 | HES4 |
| 0.245947268 | 0.000333234 | 0.035 | 1 | 153642 | ARSK |
| 0.245920056 | 0.000333754 | 0.03 | 1 | 92235 | DUSP27 |
| 0.245903211 | 0.000334076 | 0.028 | 1 | 5549 | PRELP |
| 0.245771041 | 0.000336615 | 0.033 | 1 | 25759 | SHC2 |
| 0.245749013 | 0.000337039 | 0.032 | 1 | 54494 | C11orf71 |
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| 0.245706252 | 0.000337866 | 0.035 | 1 | 1536 | CYBB |
| 0.245566307 | 0.000340582 | 0.041 | 1 | 400456 | CTD-2536I1.1 |
| 0.245553349 | 0.000340835 | 0.03 | 1 | 51275 | C12ORF47 |
| 0.245539095 | 0.000341113 | 0.033 | 1 | 129450 | C2orf60 |
| 0.245533912 | 0.000341214 | 0.036 | 1 | 9256 | BZRAP1 |
| 0.245475602 | 0.000342354 | 0.038 | 1 | 399821 | RP11-383C5.4 |
| 0.245449686 | 0.000342862 | 0.028 | 1 | 85002 | FAM86B1 |
| 0.245418587 | 0.000343472 | 0.029 | 1 | 2014 | EMP3 |
| 0.245387489 | 0.000344084 | 0.03 | 1 | 832 | CAPZB |
| 0.245289009 | 0.000346026 | 0.026 | 1 | 4040 | LRP6 |
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| 0.245211262 | 0.000347567 | 0.033 | 1 | 54862 | CC2D1A |
| 0.245193121 | 0.000347927 | 0.036 | 1 | 57630 | SH3RF1 |
| 0.245141289 | 0.000348959 | 0.036 | 1 | 728568 | C12orf73 |
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| 0.245072613 | 0.00035033 | 0.024 | 1 | 56829 | ZC3HAV1 |
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| 0.244584101 | 0.00036023 | 0.045 | 1 | 11264 | PXMP4 |
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| 0.244213507 | 0.000367913 | 0.027 | 1 | 8882 | ZNF259 |
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| 0.09117387 | 8.482E-223 | 3965 | LGALS9 |
| 0.091171167 | 8.7426E-223 | 339906 | RP11-427P5.1 |
| 0.09114132 | 1.221E-222 | 389206 | BEND4 |
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| 0.090943939 | 1.1087E-221 | 653483 | C6orf124 |
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| 0.090919571 | 1.4553E-221 | 92745 | SLC38A5 |
| 0.090919135 | 1.4624E-221 | 286102 | TMED10P1 |
| 0.090917469 | 1.4899E-221 | 23563 | CHST5 |
| 0.090913055 | 1.5651E-221 | 79600 | TCTN1 |
| 0.090902774 | 1.7554E-221 | 57093 | TRIM49 |
| 0.090830728 | 3.9212E-221 | 2317 | FLNB |
| 0.090813412 | 4.7563E-221 | 3754 | KCNF1 |
| 0.090798035 | 5.6456E-221 | 64359 | NXN |
| 0.090787052 | 6.3808E-221 | 79958 | DENND1C |
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| 0.090694889 | 1.7813E-220 | 8662 | EIF3B |
| 0.090638673 | 3.3303E-220 | 5157 | PDGFRL |
| 0.090624225 | 3.9111E-220 | 930 | CD19 |
| 0.090621996 | 4.0093E-220 | 26330 | GAPDHS |
| 0.090598099 | 5.23E-220 | 154822 | AC004863.6 |
| 0.090588844 | 5.7971E-220 | 284383 | OR2Z1 |
| 0.090578007 | 6.5394E-220 | 2232 | FDXR |
| 0.090539074 | 1.0081E-219 | 2306 | FOXD2 |
| 0.090538543 | 1.0141E-219 | 115653 | KIR3DL3 |
| 0.090537406 | 1.027E-219 | 57038 | RARS2 |
| 0.090509758 | 1.3963E-219 | 1740 | DLG2 |
| 0.09046498 | 2.2962E-219 | 388551 | CEACAM16 |
| 0.090448841 | 2.7469E-219 | 3116 | HLA-DPB2 |
| 0.090430693 | 3.36E-219 | 57709 | SLC7A14 |
| 0.090409652 | 4.2439E-219 | 84734 | FAM167B |
| 0.090407306 | 4.3559E-219 | 79668 | PARP8 |
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| 0.090274728 | 1.8949E-218 | 8609 | KLF7 |
| 0.090273937 | 1.9116E-218 | 1307 | COL16A1 |
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| 0.090138994 | 8.518E-218 | 11073 | TOPBP1 |
| 0.090118753 | 1.0656E-217 | 5336 | PLCG2 |
| 0.090074187 | 1.7444E-217 | 229 | ALDOB |
| 0.090072231 | 1.7825E-217 | 84261 | FBXW9 |
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| 0.090014168 | 3.3864E-217 | 7576 | ZNF28 |
| 0.090011684 | 3.4806E-217 | 8818 | DPM2 |
| 0.090007646 | 3.6394E-217 | 8013 | NR4A3 |
| 0.089969759 | 5.5307E-217 | 203068 | TUBB |
| 0.089962143 | 6.016E-217 | 129642 | MBOAT2 |
| 0.089960577 | 6.121E-217 | 6192 | RPS4Y1 |
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| 0.089902579 | 1.1611E-216 | 8324 | FZD7 |
| 0.089894562 | 1.2685E-216 | 79414 | LRFN3 |
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| 0.089801192 | 3.5521E-216 | 57718 | PPP4R4 |

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| 0.087329226 | 1.6547E-204 | 5651 | PRSS7 |
| 0.087320873 | 1.8096E-204 | 10677 | AVIL |
| 0.087296433 | 2.3512E-204 | 8354 | HIST1H3I |
| 0.087296043 | 2.3611E-204 | 23130 | ATG2A |
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| 0.236077268 | 0.000580176 | 0.035 | 1 | 6261 | RYR1 |
| 0.235995633 | 0.00058279 | 0.045 | 1 | 919 | CD247 |
| 0.235993042 | 0.000582873 | 0.038 | 1 | 158067 | C9orf98 |
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| 0.235904928 | 0.000585706 | 0.049 | 1 | 55365 | TMEM176A |
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| 0.234153026 | 0.000644755 | 0.042 | 1 | 646450 | C3orf71 |
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| 0.234055842 | 0.000648186 | 0.049 | 1 | 4332 | MNDA |
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| 0.233943109 | 0.000652188 | 0.036 | 1 | 64097 | EPB41L4A |
| 0.233940517 | 0.00065228 | 0.049 | 1 | 118432 | RPL29P2 |
| 0.233879615 | 0.000654452 | 0.039 | 1 | 10971 | YWHAQ |
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| 0.086951355 | 9.4033E-203 | 4342 | MOS |
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| 0.086771334 | 6.404E-202 | 5580 | PRKCD |
| 0.086744587 | 8.5132E-202 | 200162 | SPAG17 |
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| 0.086720396 | 1.1013E-201 | 338557 | GPR120 |
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| 0.086537235 | 7.7143E-201 | 1263 | PLK3 |
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| 0.086508218 | 1.0497E-200 | 27006 | FGF22 |
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| 0.086170827 | 3.7418E-199 | 115004 | C6orf150 |
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| 0.233209694 | 0.000678785 | 0.039 | 1 | 3903 | LAIR1 |
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| 0.23106776 | 0.00076231 | 0.046 | 1 | 58155 | PTBP2 |
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| 0.085814441 | 1.6062E-197 | 441168 | FAM26F |
| 0.085798633 | 1.897E-197 | 222068 | TMED4 |
| 0.08577776 | 2.363E-197 | 6234 | RPS28 |
| 0.085767153 | 2.6419E-197 | 256302 | C17orf103 |
| 0.085744182 | 3.3641E-197 | 26147 | PHF19 |
| 0.085720763 | 4.3036E-197 | 71 | ACTG1 |
| 0.085685237 | 6.2522E-197 | 2940 | GSTA3 |
| 0.085681883 | 6.4765E-197 | 55174 | INTS10 |
| 0.085666977 | 7.5748E-197 | 6441 | SFTPD |
| 0.08563195 | 1.0944E-196 | 283297 | OR10A4 |
| 0.085539886 | 2.8771E-196 | 115992 | RNF166 |
| 0.085510554 | 3.9137E-196 | 161 | AP2A2 |
| 0.085497414 | 4.492E-196 | 283596 | SNHG10 |
| 0.085492564 | 4.7264E-196 | 9873 | FCHSD2 |
| 0.085488399 | 4.9374E-196 | 201243 | C17orf74 |
| 0.085470138 | 5.9793E-196 | 79644 | SRD5A3 |
| 0.085452726 | 7.1767E-196 | 84078 | KBTBD7 |
| 0.085432583 | 8.8635E-196 | 399821 | RP11-383C5.4 |
| 0.085424311 | 9.6661E-196 | 285590 | SH3PXD2B |
| 0.085377038 | 1.5861E-195 | 121643 | FOXN4 |
| 0.085368784 | 1.7292E-195 | 57556 | SEMA6A |
| 0.085358881 | 1.9182E-195 | 63947 | DMRTC1B |
| 0.085353396 | 2.0316E-195 | 56102 | PCDHGB3 |
| 0.085350545 | 2.0931E-195 | 93556 | EGFEM1P |
| 0.085348109 | 2.1472E-195 | 8190 | MIA |
| 0.085346059 | 2.1937E-195 | 401127 | AC021148.2 |
| 0.085344286 | 2.2349E-195 | 7529 | YWHAB |
| 0.085306946 | 3.3035E-195 | 23504 | RIMBP2 |
| 0.085280129 | 4.3734E-195 | 149603 | RNF187 |
| 0.085266003 | 5.0697E-195 | 51118 | UTP11L |
| 0.085234064 | 7.0799E-195 | 3995 | FADS3 |
| 0.085233321 | 7.1351E-195 | 8192 | CLPP |
| 0.085227134 | 7.6119E-195 | 389033 | AC079776.2 |
| 0.085200776 | 1.0026E-194 | 7108 | TM7SF2 |
| 0.085173662 | 1.4172E-193 | 23362 | PSD3 |
| 0.085147687 | 1.7459E-194 | 9467 | SH3BP5 |
| 0.085129531 | 2.1104E-194 | 30815 | ST6GALNAC6 |
| 0.085110764 | 2.5671E-194 | 55771 | PRR11 |
| 0.085101633 | 2.8239E-194 | 54619 | CCNJ |
| 0.085074003 | 3.7677E-194 | 282974 | STK32C |
| 0.085053518 | 4.6655E-194 | 340371 | NRBP2 |
| 0.085038193 | 5.4743E-194 | 23030 | KDM4B |
| 0.085024197 | 6.3346E-194 | 64344 | HIF3A |
| 0.085022433 | 6.4523E-194 | 2625 | GATA3 |
| 0.085010828 | 2.5576E-193 | 55530 | SVOP |
| 0.08500644 | 7.6232E-194 | 4852 | NPY |
| 0.085001726 | 8.0072E-194 | 146223 | CMTM4 |
| 0.084962474 | 1.2055E-193 | 54960 | GEMIN8 |
| 0.084958995 | 1.25E-193 | 221833 | SP8 |
| 0.084951566 | 1.3506E-193 | 271 | AMPD2 |
| 0.084941069 | 1.5067E-193 | 8756 | ADAM7 |
| 0.084916197 | 1.9523E-193 | 5569 | PKIA |
| 0.084875695 | 2.9765E-193 | 1234 | CCR5 |
| 0.084854811 | 3.6992E-193 | 148109 | FAM187B |
| 0.084850833 | 3.8556E-193 | 79774 | GRTP1 |
| 0.08484372 | 4.1518E-193 | 57085 | AGTRAP |
| 0.084840858 | 4.2774E-193 | 11151 | CORO1A |
| 0.084828729 | 4.8527E-193 | 25934 | NIPSNAP3A |
| 0.084810394 | 5.8725E-193 | 29942 | PURG |
| 0.084807385 | 6.0592E-193 | 154007 | SNRNP48 |
| 0.084798582 | 6.6402E-193 | 5428 | POLG |
| 0.084786345 | 7.5414E-193 | 341152 | OR2AT4 |
| 0.084770241 | 8.9161E-193 | 9068 | ANGPTL1 |
| 0.084738863 | 1.2355E-192 | 4109 | MAGEA10 |
| 0.084728695 | 1.3732E-192 | 343035 | RD3 |
| 0.084692104 | 2.0083E-192 | 7166 | TPH1 |
| 0.084664677 | 2.6701E-192 | 11201 | POLI |
| 0.084647735 | 3.1837E-192 | 4093 | SMAD9 |
| 0.084640131 | 3.4452E-192 | 136319 | MTPN |
| 0.084635962 | 3.5976E-192 | 51450 | PRRX2 |
| 0.084631165 | 3.7812E-192 | 3725 | JUN |
| 0.084621268 | 4.1903E-192 | 55352 | C17orf79 |
| 0.084565193 | 7.4974E-192 | 9061 | PAPSS1 |
| 0.084555858 | 8.2596E-192 | 283638 | KIAA0284 |
| 0.084546066 | 9.1424E-192 | 170679 | PSORS1C1 |
| 0.084523677 | 1.1531E-191 | 2556 | GABRA3 |
| 0.084521704 | 1.1769E-191 | 160428 | ALDH1L2 |

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| 0.229593156 | 0.00082522 | 0.035 | 1 | 475 | ATOX1 |
| 0.229571127 | 0.000826195 | 0.048 | 1 | 283420 | CLEC9A |
| 0.229556874 | 0.000826827 | 0.042 | 1 | 79690 | GAL3ST4 |
| 0.229555578 | 0.000826884 | 0.05 | 1 | 4600 | MX2 |
| 0.229555578 | 0.000826884 | 0.04 | 1 | 132001 | C3orf31 |
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| 0.229453211 | 0.000831433 | 0.049 | 1 | 8560 | DEGS1 |
| 0.229403971 | 0.000833629 | 0.047 | 1 | 7739 | ZNF185 |
| 0.229392309 | 0.00083415 | 0.032 | 1 | 7561 | ZNF14 |
| 0.229388422 | 0.000834324 | 0.04 | 1 | 191 | AHCY |
| 0.229375464 | 0.000834903 | 0.043 | 1 | 10555 | AGPAT2 |
| 0.229276984 | 0.000839318 | 0.066 | 1 | 7114 | TMSB4X |
| 0.229252364 | 0.000840425 | 0.047 | 1 | 64131 | XYLT1 |
| 0.229234223 | 0.000841242 | 0.047 | 1 | 5691 | PSMB3 |
| 0.229134447 | 0.000845746 | 0.049 | 1 | 9364 | RAB28 |
| 0.22913056 | 0.000845922 | 0.048 | 1 | 5331 | PLCB3 |
| 0.229068362 | 0.000848741 | 0.039 | 1 | 10512 | SEMA3C |
| 0.229061883 | 0.000849035 | 0.048 | 1 | 54935 | DUSP23 |
| 0.228945263 | 0.000854347 | 0.046 | 1 | 9933 | KIAA0020 |
| 0.22894008 | 0.000854584 | 0.048 | 1 | 387486 | LINC00320 |
| 0.228934896 | 0.000854821 | 0.055 | 1 | 84789 | MGC2889 |
| 0.228929713 | 0.000855058 | 0.046 | 1 | 116372 | LYPD1 |
| 0.228927122 | 0.000855176 | 0.04 | 1 | 57628 | DPP10 |
| 0.22891546 | 0.00085571 | 0.05 | 1 | 26091 | HERC4 |
| 0.228872699 | 0.000857668 | 0.047 | 1 | 10969 | EBNA1BP2 |
| 0.22874312 | 0.000863627 | 0.049 | 1 | 51378 | ANGPT4 |
| 0.228702951 | 0.000865482 | 0.056 | 1 | 10468 | FST |
| 0.228585034 | 0.000870949 | 0.05 | 1 | 83938 | C10orf11 |
| 0.228581147 | 0.00087113 | 0.052 | 1 | 81031 | SLC2A10 |
| 0.228543569 | 0.000872879 | 0.04 | 1 | 5931 | RBBP7 |
| 0.228534499 | 0.000873302 | 0.043 | 1 | 340527 | NHSL2 |
| 0.228502104 | 0.000874813 | 0.05 | 1 | 128977 | C22orf39 |
| 0.228468414 | 0.000876387 | 0.047 | 1 | 7322 | UBE2D2 |
| 0.228446385 | 0.000877418 | 0.047 | 1 | 8942 | KYNU |
| 0.228349201 | 0.000881978 | 0.035 | 1 | 653479 | MRPL45P2 |
| 0.228323286 | 0.000883198 | 0.056 | 1 | 84334 | APOPT1 |
| 0.22819889 | 0.000889075 | 0.05 | 1 | 1491 | CTH |
| 0.228188524 | 0.000889567 | 0.047 | 1 | 58530 | LY6G6D |
| 0.228180749 | 0.000889935 | 0.046 | 1 | 6904 | TBCD |
| 0.228175566 | 0.000890181 | 0.053 | 1 | 553158 | ARHGAP8 |
| 0.228172974 | 0.000890304 | 0.052 | 1 | 10567 | RABAC1 |
| 0.228153538 | 0.000891227 | 0.042 | 1 | 440093 | RP11-428G5.1 |
| 0.228150946 | 0.00089135 | 0.058 | 1 | 51659 | GINS2 |
| 0.228143171 | 0.000891719 | 0.056 | 1 | 9518 | GDF15 |
| 0.228047283 | 0.000896286 | 0.047 | 1 | 6132 | RPL8 |
| 0.228004522 | 0.00089833 | 0.047 | 1 | 116254 | C6orf72 |
| 0.227990269 | 0.000899012 | 0.049 | 1 | 117581 | TWIST2 |
| 0.227957874 | 0.000900564 | 0.046 | 1 | 10161 | LPAR6 |
| 0.227924184 | 0.000902181 | 0.043 | 1 | 10863 | ADAM28 |
| 0.227916409 | 0.000902555 | 0.041 | 1 | 2023 | ENO1 |
| 0.227887902 | 0.000903925 | 0.048 | 1 | 5156 | PDGFRA |
| 0.227776464 | 0.000909302 | 0.067 | 1 | 8260 | NAA10 |
| 0.227438264 | 0.000925801 | 0.045 | 1 | 79971 | GPR177 |
| 0.227312573 | 0.000932003 | 0.051 | 1 | 23595 | ORC3L |
| 0.227127275 | 0.000941215 | 0.046 | 1 | 164633 | CABP7 |
| 0.227078035 | 0.000943677 | 0.051 | 1 | 55001 | TTC22 |
| 0.227074148 | 0.000943872 | 0.06 | 1 | 5768 | QSOX1 |
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| 0.22701195 | 0.000946991 | 0.043 | 1 | 617 | BCS1L |
| 0.22691995 | 0.000951622 | 0.054 | 1 | 5139 | PDE3A |
| 0.226913471 | 0.000951949 | 0.042 | 1 | 6847 | SYCP1 |
| 0.226883668 | 0.000953454 | 0.042 | 1 | 124857 | WFIKKN2 |
| 0.226860343 | 0.000954634 | 0.055 | 1 | 3301 | DNAJA1 |
| 0.226859048 | 0.0009547 | 0.047 | 1 | 5805 | PTS |
| 0.226712624 | 0.000962135 | 0.05 | 1 | 254295 | PHYHD1 |
| 0.226703553 | 0.000962598 | 0.048 | 1 | 79172 | CENPO |
| 0.226584341 | 0.000968694 | 0.041 | 1 | 221833 | SP8 |
| 0.226522143 | 0.000971888 | 0.054 | 1 | 55072 | RNF31 |
| 0.226401635 | 0.000978106 | 0.052 | 1 | 50626 | CYHR1 |
| 0.226322592 | 0.000982203 | 0.072 | 1 | 126328 | NDUFA11 |
| 0.226231887 | 0.000986925 | 0.049 | 1 | 54413 | NLGN3 |
| 0.226212451 | 0.00098794 | 0.051 | 1 | 4217 | MAP3K5 |
| 0.226208563 | 0.000988143 | 0.056 | 1 | 192111 | PGAM5 |
| 0.22612952 | 0.000992279 | 0.046 | 1 | 5676 | PSG7 |
| 0.226108788 | 0.000993367 | 0.055 | 1 | 9540 | TP53I3 |
| 0.226084168 | 0.00099466 | 0.055 | 1 | 92 | ACVR2A |
| 0.226027153 | 0.00099766 | 0.047 | 1 | 84443 | FRMPD3 |
| 0.225998646 | 0.000999163 | 0.052 | 1 | 5699 | PSMB10 |
| 0.225907941 | 0.00100396 | 0.047 | 1 | 9442 | MED27 |
| 0.225843152 | 0.0010074 | 0.032 | 1 | 4000 | LMNA |
| 0.225835377 | 0.001007813 | 0.068 | 1 | 1591 | CYP24A1 |
| 0.225778362 | 0.00101085 | 0.044 | 1 | 55752 | SEPTIN11 |

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| 0.084507812 | 1.3592E-191 | 347730 | LRRTM1 |
| 0.08445469 | 2.3568E-191 | 245973 | ATP6V1C2 |
| 0.084441501 | 2.7018E-191 | 9442 | MED27 |
| 0.084414643 | 3.5681E-191 | 358 | AQP1 |
| 0.084406202 | 3.8939E-191 | 55603 | FAM46A |
| 0.084386423 | 4.7785E-191 | 729085 | C3orf41 |
| 0.08436087 | 6.2249E-191 | 741 | ZNHIT2 |
| 0.084357689 | 6.4331E-191 | 5820 | PVT1 |
| 0.084354777 | 7.5909E-190 | 79883 | PODNL1 |
| 0.084338245 | 7.8664E-191 | 3048 | HBG2 |
| 0.084321166 | 9.3862E-191 | 220594 | AC107983.3 |
| 0.084284427 | 1.3723E-190 | 4886 | NPY1R |
| 0.084244025 | 2.0834E-190 | 8907 | AP1M1 |
| 0.084220099 | 2.6676E-190 | 54872 | PIGG |
| 0.084192594 | 3.5439E-190 | 93185 | IGSF8 |
| 0.084133592 | 6.5158E-190 | 53827 | FXYD5 |
| 0.084131139 | 6.6829E-190 | 4486 | MST1R |
| 0.084127006 | 6.974E-190 | 162966 | ZNF600 |
| 0.084109173 | 8.3826E-190 | 84815 | MGC12916 |
| 0.084104955 | 8.7553E-190 | 126382 | NR2C2AP |
| 0.084098813 | 9.328E-190 | 5650 | KLK7 |
| 0.084074423 | 1.1995E-189 | 1844 | DUSP2 |
| 0.084071964 | 1.2304E-189 | 84324 | SARNP |
| 0.084039877 | 1.7127E-189 | 26585 | GREM1 |
| 0.08402463 | 2.0041E-189 | 10982 | MAPRE2 |
| 0.084022684 | 2.0447E-189 | 6631 | SNRPC |
| 0.084020562 | 2.0899E-189 | 2542 | SLC37A4 |
| 0.083977886 | 3.2438E-189 | 5064 | PALM |
| 0.083970136 | 3.5133E-189 | 79848 | CSPP1 |
| 0.083958826 | 3.9472E-189 | 162540 | AC217771.1 |
| 0.083946253 | 4.4927E-189 | 2103 | ESRRB |
| 0.08392763 | 5.442E-189 | 23352 | UBR4 |
| 0.083844952 | 1.2739E-188 | 858 | CAV2 |
| 0.083840527 | 1.3332E-188 | 11123 | RCAN3 |
| 0.08379734 | 2.0782E-188 | 2071 | ERCC3 |
| 0.083791698 | 2.2023E-188 | 344901 | OSTN |
| 0.083790671 | 2.2257E-188 | 8517 | IKBKG |
| 0.083773665 | 2.6506E-188 | 127262 | TPRG1L |
| 0.083745071 | 3.5555E-188 | 54491 | FAM105A |
| 0.083724802 | 4.3781E-188 | 1591 | CYP24A1 |
| 0.083661428 | 8.3901E-188 | 1007 | CDH9 |
| 0.08365934 | 8.5718E-188 | 6666 | SOX12 |
| 0.08363709 | 1.077E-187 | 4825 | NKX6-1 |
| 0.083626088 | 1.2056E-187 | 387496 | RASL11A |
| 0.083623986 | 1.2319E-187 | 1445 | CSK |
| 0.08361836 | 1.305E-187 | 10329 | TMEM5 |
| 0.083609882 | 1.4235E-187 | 246182 | AKR7A2P1 |
| 0.083594697 | 1.6633E-187 | 58499 | ZNF462 |
| 0.083570393 | 2.1339E-187 | 5613 | PRKX |
| 0.083545018 | 2.7675E-187 | 57414 | RHBDD2 |
| 0.083541088 | 2.8812E-187 | 57605 | PITPNM2 |
| 0.08351171 | 3.8927E-187 | 503542 | SPRN |
| 0.083507482 | 4.0649E-187 | 8525 | DGKZ |
| 0.083494476 | 4.644E-187 | 246778 | IL27 |
| 0.083467885 | 6.097E-187 | 60386 | SLC25A19 |
| 0.083464008 | 6.3438E-187 | 64224 | HERPUD2 |
| 0.083442275 | 7.9239E-187 | 390152 | OR8H3 |
| 0.083432685 | 8.7409E-187 | 9437 | NCR1 |
| 0.083420488 | 9.9025E-187 | 51673 | TPPP3 |
| 0.083352272 | 1.9892E-186 | 55832 | CAND1 |
| 0.083345856 | 2.124E-186 | 200035 | NUDT17 |
| 0.083343937 | 2.1661E-186 | 148808 | MFSD4 |
| 0.083326272 | 2.5946E-186 | 3600 | IL15 |
| 0.083323786 | 2.9652E-186 | 116159 | CYYR1 |
| 0.083300573 | 3.3736E-186 | 120787 | OR52W1 |
| 0.083296787 | 3.5066E-186 | 4669 | NAGLU |
| 0.083223235 | 7.4306E-186 | 84792 | C7orf70 |
| 0.08322299 | 7.4492E-186 | 6751 | SSTR1 |
| 0.083201952 | 9.2329E-186 | 9364 | RAB28 |
| 0.083198576 | 9.5565E-186 | 654 | BMP6 |
| 0.0831897 | 1.0462E-185 | 55359 | STYK1 |
| 0.083186832 | 1.0773E-185 | 11117 | EMILIN1 |
| 0.083182662 | 1.1241E-185 | 56666 | PANX2 |
| 0.083128277 | 1.9572E-185 | 6102 | RP2 |
| 0.083110734 | 2.3404E-185 | 6660 | SOX5 |
| 0.08310986 | 2.3613E-185 | 8826 | IQGAP1 |
| 0.083109195 | 2.3774E-185 | 8484 | GALR3 |
| 0.083102149 | 2.5544E-185 | 115426 | UHRF2 |
| 0.08310104 | 5.619E-185 | 8531 | CSDAP1 |
| 0.083067497 | 3.6358E-185 | 2550 | GABBR1 |
| 0.083063619 | 3.7823E-185 | 23049 | SMG1 |
| 0.083043723 | 4.6319E-185 | 113026 | PLCD3 |

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| 0.225749855 | 0.001012371 | 0.064 | 1 | 10125 | RASGRP1 |
| 0.225721348 | 0.001013895 | 0.058 | 1 | 100289060 | LOC100289060 |
| 0.225705798 | 0.001014727 | 0.052 | 1 | 29118 | DDX25 |
| 0.225661742 | 0.001017088 | 0.058 | 1 | 7976 | FZD3 |
| 0.22557622 | 0.001021684 | 0.039 | 1 | 5355 | PLP2 |
| 0.22557622 | 0.001021684 | 0.051 | 1 | 79644 | SRD5A3 |
| 0.225558079 | 0.001022662 | 0.056 | 1 | 54433 | GAR1 |
| 0.225542529 | 0.0010235 | 0.05 | 1 | 55084 | SOBP |
| 0.225541234 | 0.00102357 | 0.063 | 1 | 51506 | UFC1 |
| 0.225498473 | 0.00102588 | 0.038 | 1 | 1434 | CSE1L |
| 0.225432388 | 0.001029458 | 0.066 | 1 | 409 | ARRB2 |
| 0.225431092 | 0.001029529 | 0.055 | 1 | 100131801 | PET100 |
| 0.225409063 | 0.001030724 | 0.052 | 1 | 1501 | CTNND2 |
| 0.22540388 | 0.001031006 | 0.051 | 1 | 84277 | DNAJC30 |
| 0.225387035 | 0.001031921 | 0.042 | 1 | 57190 | SEPN1 |
| 0.225385739 | 0.001031992 | 0.063 | 1 | 84433 | CARD11 |
| 0.225304105 | 0.001036438 | 0.059 | 1 | 4856 | NOV |
| 0.22528726 | 0.001037358 | 0.044 | 1 | 23504 | RIMBP2 |
| 0.225249682 | 0.001039412 | 0.047 | 1 | 79148 | MMP28 |
| 0.225241907 | 0.001039838 | 0.048 | 1 | 57007 | CXCR7 |
| 0.225210808 | 0.001041541 | 0.04 | 1 | 22802 | CLCA4 |
| 0.225204329 | 0.001041897 | 0.061 | 1 | 56928 | SPPL2B |
| 0.225131765 | 0.001045883 | 0.046 | 1 | 23286 | WWC1 |
| 0.22505661 | 0.001050027 | 0.078 | 1 | 337971 | KRTAP19-4 |
| 0.225052722 | 0.001050242 | 0.047 | 1 | 79657 | RPAP3 |
| 0.224978862 | 0.001054329 | 0.061 | 1 | 116039 | OSR2 |
| 0.224937397 | 0.001056631 | 0.055 | 1 | 55850 | USE1 |
| 0.224890749 | 0.001059225 | 0.038 | 1 | 23589 | CARHSP1 |
| 0.22488427 | 0.001059586 | 0.052 | 1 | 389740 | GPR116P1 |
| 0.22483503 | 0.001062332 | 0.067 | 1 | 6870 | TACR3 |
| 0.224815593 | 0.001063417 | 0.05 | 1 | 374887 | YJEFN3 |
| 0.224792269 | 0.001064722 | 0.049 | 1 | 401491 | RP11-125B21.2 |
| 0.224755987 | 0.001066753 | 0.056 | 1 | 114818 | KLHL29 |
| 0.224658803 | 0.001072213 | 0.049 | 1 | 653145 | ANXA8 |
| 0.22464455 | 0.001073015 | 0.059 | 1 | 81300 | OR4P4 |
| 0.224548662 | 0.001078431 | 0.065 | 1 | 133619 | PRRC1 |
| 0.224525337 | 0.001079752 | 0.048 | 1 | 400043 | RP11-834C11.4 |
| 0.224489055 | 0.00108181 | 0.048 | 1 | 55026 | FAM70A |
| 0.224459252 | 0.001083503 | 0.048 | 1 | 972 | CD74 |
| 0.224387984 | 0.001087562 | 0.053 | 1 | 116143 | WDR92 |
| 0.224328378 | 0.001090967 | 0.05 | 1 | 8324 | FZD7 |
| 0.2242908 | 0.001093119 | 0.055 | 1 | 126272 | EID2B |
| 0.224271363 | 0.001094234 | 0.05 | 1 | 57507 | ZNF608 |
| 0.224264885 | 0.001094605 | 0.049 | 1 | 148479 | PHF13 |
| 0.224244152 | 0.001095796 | 0.058 | 1 | 222161 | DKFZP586I1420 |
| 0.224236377 | 0.001096243 | 0.062 | 1 | 126859 | C1orf125 |
| 0.22418325 | 0.0010993 | 0.042 | 1 | 643418 | LIPN |
| 0.224181954 | 0.001099374 | 0.051 | 1 | 2737 | GLI3 |
| 0.224162517 | 0.001100495 | 0.061 | 1 | 9070 | ASH2L |
| 0.22408477 | 0.001104987 | 0.057 | 1 | 10135 | PBEF1 |
| 0.223981107 | 0.001111003 | 0.056 | 1 | 3963 | LGALS7 |
| 0.223965558 | 0.001111908 | 0.047 | 1 | 653464 | SRGAP2C |
| 0.223953896 | 0.001112587 | 0.045 | 1 | 27042 | C1orf107 |
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| 0.223154396 | 0.001160068 | 0.071 | 1 | 6748 | SSR4 |
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| 0.082744222 | 9.7239E-184 | 23373 | CRTC1 |
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| 0.082703907 | 1.4636E-183 | 440104 | AC023055.2 |
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| 0.082677322 | 1.9164E-183 | 90809 | TMEM55B |
| 0.082661699 | 2.2453E-183 | 5743 | PTGS2 |
| 0.082613666 | 3.6529E-183 | 375061 | FAM89A |
| 0.082597111 | 4.3198E-183 | 80731 | THSD7B |
| 0.082562137 | 6.1554E-183 | 10079 | ATP9A |
| 0.082542633 | 7.4988E-183 | 1026 | CDKN1A |
| 0.082536238 | 8.0002E-183 | 9314 | KLF4 |
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| 0.081933698 | 3.4794E-180 | 90199 | WFDC8 |
| 0.081918952 | 4.0348E-180 | 64374 | SIL1 |
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| 0.081819256 | 1.0975E-179 | 11118 | BTN3A2 |
| 0.0818025 | 1.2984E-179 | 114134 | SLC2A13 |
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| 0.081781167 | 1.6081E-179 | 389873 | SEPHS1P4 |
| 0.081749955 | 2.1988E-179 | 65094 | JMJD4 |
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| 0.081738599 | 2.4638E-179 | 150383 | C22orf40 |
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| 0.222941887 | 0.001172999 | 0.047 | 1 | 339479 | FAM5C |
| 0.222843408 | 0.001179035 | 0.052 | 1 | 56164 | STK31 |
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| 0.222234388 | 0.001217007 | 0.04 | 1 | 55907 | CMAS |
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| 0.222154049 | 0.001222099 | 0.054 | 1 | 53981 | CPSF2 |
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| 0.222078894 | 0.00122688 | 0.061 | 1 | 10209 | EIF1 |
| 0.222059457 | 0.00122812 | 0.063 | 1 | 163747 | C1orf177 |
| 0.22200633 | 0.001231513 | 0.043 | 1 | 64098 | PARVG |
| 0.221992076 | 0.001232425 | 0.05 | 1 | 4361 | MRE11A |
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| 0.221876751 | 0.001239825 | 0.054 | 1 | 64376 | IKZF5 |
| 0.221744581 | 0.001248357 | 0.063 | 1 | 5349 | FXYD3 |
| 0.22170182 | 0.001251129 | 0.062 | 1 | 4129 | MAOB |
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| 0.221656468 | 0.001254075 | 0.064 | 1 | 257106 | ARHGAP30 |
| 0.221655172 | 0.001254159 | 0.056 | 1 | 1747 | DLX3 |
| 0.221655172 | 0.001254159 | 0.061 | 1 | 59269 | HIVEP3 |
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| 0.2214621 | 0.001266773 | 0.051 | 1 | 3776 | KCNK2 |
| 0.221459508 | 0.001266943 | 0.066 | 1 | 120526 | DNAJC24 |
| 0.221390832 | 0.001271458 | 0.051 | 1 | 56944 | OLFML3 |
| 0.221383057 | 0.001271971 | 0.05 | 1 | 647589 | AC226150.1 |
| 0.221373986 | 0.001272568 | 0.062 | 1 | 6647 | SOD1 |
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| 0.221316972 | 0.001276331 | 0.064 | 1 | 25927 | CNRIP1 |
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| 0.221249591 | 0.001280791 | 0.059 | 1 | 9953 | HS3ST3B1 |
| 0.221191281 | 0.001284662 | 0.059 | 1 | 10245 | TIMM17B |
| 0.221069477 | 0.001292784 | 0.042 | 1 | 57494 | AC092490.2 |
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| 0.220679445 | 0.001319107 | 0.055 | 1 | 7252 | TSHB |
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| 0.220123553 | 0.001357475 | 0.035 | 1 | 3195 | TLX1 |
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| 0.081457211 | 4.1124E-178 | 5836 | PYGL |
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| 0.081321734 | 1.5891E-177 | 401777 | LOC401777 |
| 0.081308075 | 1.8209E-177 | 442308 | LOC442308 |
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| 0.081286335 | 2.2615E-177 | 55114 | ARHGAP17 |
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| 0.081266899 | 2.7447E-177 | 149951 | COMMD7 |
| 0.081212796 | 4.7044E-177 | 5025 | P2RX4 |
| 0.08121229 | 4.7282E-177 | 9479 | MAPK8IP1 |
| 0.081205027 | 5.0827E-177 | 340602 | CXorf67 |
| 0.0811973 | 5.4891E-177 | 64919 | BCL11B |
| 0.081177007 | 9.1087E-177 | 7764 | ZNF217 |
| 0.081163142 | 7.7113E-177 | 81887 | LAS1L |
| 0.081132194 | 1.0491E-176 | 729501 | ZNF962P |
| 0.081107275 | 1.3442E-176 | 646450 | C3orf71 |
| 0.081101749 | 1.4201E-176 | 9086 | EIF1AY |
| 0.081088318 | 1.6229E-176 | 341350 | OVCH1 |
| 0.081079575 | 1.7703E-176 | 130271 | PLEKHH2 |
| 0.081046798 | 2.4519E-176 | 30010 | NXPH1 |
| 0.081043188 | 2.5414E-176 | 441177 | LINC00602 |
| 0.081036568 | 2.7142E-176 | 9252 | RPS6KA5 |
| 0.0810212 | 3.1618E-176 | 9546 | APBA3 |
| 0.080986238 | 4.4741E-176 | 10325 | RRAGB |
| 0.08097492 | 5.0061E-176 | 55022 | PID1 |
| 0.080930077 | 7.8121E-176 | 22926 | ATF6 |
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| 0.080860761 | 1.5534E-175 | 1949 | EFNB3 |
| 0.080860251 | 1.5613E-175 | 118932 | ANKRD22 |
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| 0.080829943 | 2.1083E-175 | 29781 | NCAPH2 |
| 0.080827899 | 2.1514E-175 | 79369 | B3GNT4 |
| 0.080820832 | 2.3074E-175 | 7260 | TSSC1 |
| 0.080810928 | 2.5453E-175 | 283796 | GOLGA9P |
| 0.08080529 | 2.6915E-175 | 84106 | PRAM1 |
| 0.080781729 | 3.3989E-175 | 91614 | DEPDC7 |
| 0.080743065 | 4.984E-175 | 10964 | IFI44L |
| 0.080701505 | 7.5193E-175 | 56829 | ZC3HAV1 |
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| 0.08064238 | 1.3493E-174 | 63036 | CELA2A |
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| 0.080584274 | 2.3959E-174 | 3796 | KIF2A |
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| 0.080575621 | 2.6097E-174 | 401720 | FIGNL2 |
| 0.080567123 | 2.8381E-174 | 1186 | CLCN7 |
| 0.080552165 | 3.2899E-174 | 9240 | PNMA1 |
| 0.080509899 | 4.9932E-174 | 414260 | C10orf136 |
| 0.080509652 | 5.0054E-174 | 10516 | FBLN5 |
| 0.080430408 | 1.0937E-173 | 175 | AGA |
| 0.080416554 | 1.2538E-173 | 51233 | C22orf43 |
| 0.080392546 | 1.5885E-173 | 7571 | ZNF23 |
| 0.080369796 | 1.9876E-173 | 51384 | WNT16 |
| 0.080368767 | 2.0078E-173 | 219348 | PLAC9 |
| 0.080368572 | 2.0117E-173 | 65217 | PCDH15 |
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| 0.219934368 | 0.001370764 | 0.072 | 1 | 29785 | CYP2S1 |
| 0.219882537 | 0.001374426 | 0.063 | 1 | 9051 | PSTPIP1 |
| 0.219881241 | 0.001374517 | 0.05 | 1 | 79734 | KCTD17 |
| 0.219851438 | 0.001376627 | 0.055 | 1 | 196 | AHR |
| 0.219821635 | 0.00137874 | 0.054 | 1 | 80344 | WDR23 |
| 0.219723155 | 0.001385742 | 0.069 | 1 | 158880 | USP51 |
| 0.219635042 | 0.001392034 | 0.049 | 1 | 50613 | UBQLN3 |
| 0.219619493 | 0.001393147 | 0.059 | 1 | 146395 | GSG1L |
| 0.219609126 | 0.00139389 | 0.071 | 1 | 286256 | LCN12 |
| 0.219602647 | 0.001394354 | 0.045 | 1 | 80014 | WWC2 |
| 0.219601352 | 0.001394447 | 0.078 | 1 | 83394 | PITPNM3 |
| 0.219596168 | 0.001394819 | 0.057 | 1 | 23505 | TMEM131 |
| 0.219575436 | 0.001396306 | 0.056 | 1 | 60492 | CCDC90B |
| 0.219571548 | 0.001396585 | 0.063 | 1 | 441461 | RP11-60I3.5 |
| 0.219528788 | 0.001399657 | 0.059 | 1 | 51729 | WBP11 |
| 0.219463998 | 0.001404324 | 0.074 | 1 | 64219 | PJA1 |
| 0.219413463 | 0.001407974 | 0.074 | 1 | 55055 | ZWILCH |
| 0.219412167 | 0.001408068 | 0.06 | 1 | 10787 | NCKAP1 |
| 0.21933442 | 0.001413701 | 0.051 | 1 | 3133 | HLA-E |
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| 0.218554357 | 0.001471371 | 0.069 | 1 | 1018 | CDK3 |
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| 0.218429961 | 0.001480764 | 0.056 | 1 | 7096 | TLR1 |
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| 0.217850745 | 0.00152523 | 0.074 | 1 | 9365 | KL |
| 0.21784297 | 0.001525835 | 0.053 | 1 | 118932 | ANKRD22 |
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| 0.217747082 | 0.001533316 | 0.065 | 1 | 140465 | MYL6B |
| 0.217731533 | 0.001534533 | 0.067 | 1 | 219743 | TYSND1 |
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| 0.217653785 | 0.001540627 | 0.067 | 1 | 6839 | SUV39H1 |
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| 0.217521615 | 0.001551039 | 0.049 | 1 | 9722 | NOS1AP |
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| 0.080142416 | 1.8611E-172 | 6590 | SLPI |
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| 0.080036743 | 5.2515E-172 | 4968 | OGG1 |
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| 0.079568846 | 5.1036E-170 | 253582 | C6orf191 |
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| 0.079033109 | 9.3151E-168 | 7316 | UBC |
| 0.079019051 | 1.0674E-167 | 7220 | TRPC1 |
| 0.079006641 | 1.2037E-167 | 8809 | IL18R1 |
| 0.078998562 | 1.3016E-167 | 8111 | GPR68 |
| 0.078987682 | 1.4462E-167 | 862 | RUNX1T1 |
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| 0.217208035 | 0.001576 | 0.066 | 1 | 9379 | NRXN2 |
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| 0.217176936 | 0.001578495 | 0.056 | 1 | 26063 | DECR2 |
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| 0.217128992 | 0.001582349 | 0.072 | 1 | 6782 | HSPA13 |
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| 0.21686206 | 0.001603965 | 0.066 | 1 | 6634 | SNRPD3 |
| 0.216846511 | 0.001605233 | 0.075 | 1 | 641 | BLM |
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| 0.216798567 | 0.001609147 | 0.046 | 1 | 26579 | MYEOV |
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| 0.216617157 | 0.001624035 | 0.052 | 1 | 5097 | PCDH1 |
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| 0.216561438 | 0.001628633 | 0.055 | 1 | 148170 | CDC42EP5 |
| 0.216556255 | 0.001629061 | 0.07 | 1 | 25837 | RAB26 |
| 0.216544593 | 0.001630026 | 0.07 | 1 | 115752 | DIS3L |
| 0.216534227 | 0.001630883 | 0.056 | 1 | 79934 | ADCK4 |
| 0.216518677 | 0.00163217 | 0.054 | 1 | 1780 | DYNC1I1 |
| 0.21649017 | 0.001634532 | 0.075 | 1 | 9095 | TBX19 |
| 0.216472029 | 0.001636036 | 0.079 | 1 | 7168 | TPM1 |
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| 0.216240083 | 0.001655386 | 0.069 | 1 | 389289 | ANXA2R |
| 0.21620121 | 0.001658649 | 0.061 | 1 | 51451 | LCMT1 |
| 0.216184364 | 0.001660065 | 0.062 | 1 | 154 | ADRB2 |
| 0.216162336 | 0.001661918 | 0.059 | 1 | 90480 | GADD45GIP1 |
| 0.216137716 | 0.001663992 | 0.053 | 1 | 10019 | SH2B3 |
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| 0.216075518 | 0.001669241 | 0.059 | 1 | 8313 | AXIN2 |
| 0.216052194 | 0.001671213 | 0.066 | 1 | 1717 | DHCR7 |
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| 0.216026279 | 0.001673407 | 0.067 | 1 | 221476 | PI16 |
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| 0.215554613 | 0.001713799 | 0.053 | 1 | 2275 | FHL3 |
| 0.215549429 | 0.001714248 | 0.067 | 1 | 66000 | TMEM108 |
| 0.215545542 | 0.001714584 | 0.062 | 1 | 11157 | LSM6 |
| 0.215541655 | 0.001714921 | 0.074 | 1 | 114987 | WDR31 |
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| 0.215403006 | 0.00172697 | 0.06 | 1 | 4637 | MYL6 |
| 0.215374498 | 0.001729457 | 0.055 | 1 | 8527 | DGKD |
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| 0.215263061 | 0.00173921 | 0.068 | 1 | 7431 | VIM |
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| 0.215169764 | 0.001747414 | 0.066 | 1 | 7260 | TSSC1 |
| 0.215130891 | 0.001750843 | 0.066 | 1 | 51192 | CKLF |
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| 0.215116637 | 0.001752102 | 0.054 | 1 | 8986 | RPS6KA4 |
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| 0.214862663 | 0.00177467 | 0.056 | 1 | 91368 | CDKN2AIPNL |
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| 0.078561346 | 8.8653E-166 | 574407 | C1orf145 |
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| 0.07854672 | 1.0206E-165 | 139411 | PTCHD1 |
| 0.078539227 | 1.0969E-165 | 56033 | BARX1 |
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| 0.078367884 | 5.6963E-165 | 29122 | TSP50 |
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| 0.078271599 | 1.4352E-164 | 343099 | CCDC18 |
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| 0.078237801 | 1.9847E-164 | 149134 | LOC149134 |
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| 0.078163948 | 4.0276E-164 | 100130932 | LOC100130932 |
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| 0.078101759 | 7.3053E-164 | 222642 | BZRPL1 |
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| 0.078068622 | 1.0031E-163 | 374875 | HSD11B1L |
| 0.078046038 | 1.245E-163 | 317762 | CCDC85C |
| 0.078045641 | 1.2497E-163 | 400798 | RP5-990P15.1 |
| 0.07802664 | 1.4987E-163 | 645027 | EVPLL |
| 0.078018956 | 1.613E-163 | 4829 | NMBR |
| 0.078012816 | 1.7105E-163 | 256643 | CXorf23 |
| 0.078002258 | 1.8921E-163 | 79134 | TMEM185B |
| 0.077970797 | 2.5558E-163 | 440044 | SLC22A20 |
| 0.077967216 | 2.6447E-163 | 4245 | MGAT1 |
| 0.07794477 | 3.2772E-163 | 123872 | LRRC50 |
| 0.077942919 | 3.3356E-163 | 10690 | FUT9 |
| 0.077938635 | 3.4749E-163 | 4762 | NEUROG1 |
| 0.077921948 | 4.0752E-163 | 388507 | ZNF788 |

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| 0.214253644 | 0.001829875 | 0.093 | 1 | 6626 | SNRPA |
| 0.214243277 | 0.001830828 | 0.06 | 1 | 223082 | ZNRF2 |
| 0.214186263 | 0.001836078 | 0.077 | 1 | 285097 | FLJ38379 |
| 0.214152572 | 0.001839187 | 0.063 | 1 | 64750 | SMURF2 |
| 0.214135727 | 0.001840743 | 0.07 | 1 | 83987 | CCDC8 |
| 0.214045022 | 0.001849143 | 0.05 | 1 | 23373 | CRTC1 |
| 0.214025585 | 0.001850948 | 0.076 | 1 | 794 | CALB2 |
| 0.214006149 | 0.001852754 | 0.049 | 1 | 26289 | AK5 |
| 0.213936176 | 0.00185927 | 0.056 | 1 | 347918 | EP400NL |
| 0.213921922 | 0.001860599 | 0.074 | 1 | 80342 | TRAF3IP3 |
| 0.213880457 | 0.001864473 | 0.075 | 1 | 63922 | CHTF18 |
| 0.213868795 | 0.001865564 | 0.065 | 1 | 11177 | BAZ1A |
| 0.21382733 | 0.001869447 | 0.058 | 1 | 9636 | ISG15 |
| 0.213796231 | 0.001872364 | 0.065 | 1 | 55785 | FGD6 |
| 0.21369516 | 0.001881873 | 0.065 | 1 | 79626 | TNFAIP8L2 |
| 0.213682202 | 0.001883095 | 0.065 | 1 | 2887 | GRB10 |
| 0.213671836 | 0.001884074 | 0.063 | 1 | 115727 | RASGRP4 |
| 0.213540961 | 0.001896466 | 0.056 | 1 | 4008 | LMO7 |
| 0.213432115 | 0.001906829 | 0.049 | 1 | 9873 | FCHSD2 |
| 0.213395833 | 0.001910294 | 0.079 | 1 | 84268 | RPAIN |
| 0.213353072 | 0.001914386 | 0.067 | 1 | 993 | CDC25A |
| 0.213311607 | 0.001918362 | 0.064 | 1 | 23526 | HMHA1 |
| 0.213311607 | 0.001918362 | 0.064 | 1 | 23646 | PLD3 |
| 0.213284396 | 0.001920975 | 0.058 | 1 | 55790 | CSGALNACT1 |
| 0.213242931 | 0.001924963 | 0.072 | 1 | 136853 | SRCRB4D |
| 0.21323386 | 0.001925837 | 0.072 | 1 | 624 | BDKRB2 |
| 0.213206649 | 0.001928459 | 0.058 | 1 | 84106 | PRAM1 |
| 0.213189803 | 0.001930084 | 0.07 | 1 | 338398 | TAS2R60 |
| 0.213148338 | 0.00193409 | 0.091 | 1 | 645212 | LOC645212 |
| 0.213112056 | 0.001937601 | 0.068 | 1 | 10079 | ATP9A |
| 0.213093915 | 0.001939358 | 0.074 | 1 | 391356 | PTRHD1 |
| 0.213012281 | 0.001947286 | 0.062 | 1 | 684 | BST2 |
| 0.213012281 | 0.001947286 | 0.071 | 1 | 140710 | C20orf117 |
| 0.212921576 | 0.001956129 | 0.047 | 1 | 30061 | SLC40A1 |
| 0.212883998 | 0.001959803 | 0.062 | 1 | 55796 | MBNL3 |
| 0.212859378 | 0.001962214 | 0.075 | 1 | 51050 | PI15 |
| 0.212814026 | 0.001966662 | 0.076 | 1 | 22926 | ATF6 |
| 0.21277256 | 0.001970736 | 0.065 | 1 | 10945 | KDELR1 |
| 0.212744053 | 0.001973542 | 0.066 | 1 | 2596 | GAP43 |
| 0.212720729 | 0.001975841 | 0.062 | 1 | 55701 | AL161668.2 |
| 0.212632616 | 0.001984545 | 0.076 | 1 | 55120 | FANCL |
| 0.212466755 | 0.002001026 | 0.065 | 1 | 546 | ATRX |
| 0.212343655 | 0.002013338 | 0.074 | 1 | 114134 | SLC2A13 |
| 0.212227035 | 0.002025066 | 0.06 | 1 | 283377 | SPRYD4 |
| 0.212197232 | 0.002028073 | 0.056 | 1 | 5819 | PVRL2 |
| 0.212176499 | 0.002030168 | 0.061 | 1 | 728858 | C12orf71 |
| 0.212033963 | 0.00204462 | 0.07 | 1 | 10005 | ACOT8 |
| 0.211912159 | 0.002057044 | 0.063 | 1 | 80790 | AC099524.1 |
| 0.211842186 | 0.002064212 | 0.084 | 1 | 387787 | AP001372.1 |
| 0.211839595 | 0.002064478 | 0.069 | 1 | 3600 | IL15 |
| 0.211839595 | 0.002064478 | 0.074 | 1 | 730091 | RP11-392A22.2 |
| 0.211820158 | 0.002066474 | 0.064 | 1 | 83852 | SETDB2 |
| 0.211767031 | 0.002071937 | 0.054 | 1 | 168455 | C7ORF74 |
| 0.21174889 | 0.002073805 | 0.058 | 1 | 9940 | DLEC1 |
| 0.211713903 | 0.002077413 | 0.064 | 1 | 86 | ACTL6A |
| 0.211575254 | 0.002091768 | 0.068 | 1 | 116028 | C16orf75 |
| 0.211533789 | 0.002096079 | 0.069 | 1 | 8842 | PROM1 |
| 0.211501395 | 0.002099452 | 0.065 | 1 | 11119 | BTN3A1 |
| 0.211489733 | 0.002100667 | 0.089 | 1 | 80215 | RUNX1-IT1 |
| 0.211479366 | 0.002101748 | 0.077 | 1 | 79796 | ALG9 |
| 0.21141069 | 0.002108923 | 0.069 | 1 | 3822 | KLRC2 |
| 0.211387365 | 0.002111365 | 0.068 | 1 | 1132 | CHRM4 |
| 0.211300548 | 0.002120476 | 0.082 | 1 | 29886 | SNX8 |
| 0.211295365 | 0.002121022 | 0.081 | 1 | 3623 | INHA |
| 0.211265562 | 0.002124158 | 0.078 | 1 | 9902 | MRC2 |
| 0.211247421 | 0.00212607 | 0.072 | 1 | 79651 | RHBDF2 |
| 0.211230575 | 0.002127846 | 0.063 | 1 | 10544 | PROCR |
| 0.211205955 | 0.002130445 | 0.079 | 1 | 84253 | GARNL3 |
| 0.21118004 | 0.002133183 | 0.082 | 1 | 219870 | OR10G9 |
| 0.211152828 | 0.002136062 | 0.07 | 1 | 5901 | RAN |
| 0.211093222 | 0.002142381 | 0.076 | 1 | 2210 | FCGR1B |
| 0.211018066 | 0.002150372 | 0.069 | 1 | 4490 | MT1B |
| 0.210977897 | 0.002154654 | 0.049 | 1 | 26575 | RSG17 |
| 0.210975306 | 0.00215493 | 0.08 | 1 | 283651 | HMGN2P46 |
| 0.210962348 | 0.002156314 | 0.076 | 1 | 2538 | G6PC |
| 0.210946798 | 0.002157974 | 0.07 | 1 | 3135 | HLA-G |
| 0.210946798 | 0.002157974 | 0.067 | 1 | 4201 | MEA1 |
| 0.210922178 | 0.002160607 | 0.07 | 1 | 53919 | SLCO1C1 |
| 0.21084184 | 0.002169216 | 0.056 | 1 | 55227 | LRRC1 |
| 0.210828882 | 0.002170607 | 0.061 | 1 | 93082 | NEURL3 |
| 0.21080167 | 0.002173532 | 0.068 | 1 | 5031 | P2RY6 |
| 0.2107926 | 0.002174508 | 0.066 | 1 | 9358 | ITGBL1 |

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| 0.07791522 | 4.3456E-163 | 5598 | MAPK7 |
| 0.077885869 | 5.7508E-163 | 5340 | PLG |
| 0.077871386 | 6.6032E-163 | 2913 | GRM3 |
| 0.07784549 | 8.4538E-163 | 6307 | SC4MOL |
| 0.077836571 | 9.2045E-163 | 51199 | NIN |
| 0.077828367 | 9.9536E-163 | 401498 | TMEM215 |
| 0.077822569 | 1.0519E-162 | 374387 | AC044839.2 |
| 0.077800682 | 1.2961E-162 | 8216 | LZTR1 |
| 0.077768829 | 1.7558E-162 | 10082 | GPC6 |
| 0.07775699 | 1.9655E-162 | 196383 | RILPL2 |
| 0.077752415 | 2.0531E-162 | 90226 | UCN2 |
| 0.077690795 | 3.6921E-162 | 9545 | RAB3D |
| 0.077664217 | 4.7548E-162 | 8021 | NUP214 |
| 0.077662614 | 4.8279E-162 | 221060 | C10orf111 |
| 0.077606808 | 8.2095E-162 | 23193 | GANAB |
| 0.0775978 | 8.9437E-162 | 9723 | SEMA3E |
| 0.077523949 | 1.8044E-161 | 7038 | TG |
| 0.077487877 | 2.5416E-161 | 10599 | SLCO1B1 |
| 0.077487613 | 2.548E-161 | 55075 | UACA |
| 0.077485748 | 2.5935E-161 | 643036 | SLED1 |
| 0.077472648 | 2.937E-161 | 11025 | LILRB3 |
| 0.077459589 | 3.3246E-161 | 5792 | PTPRF |
| 0.077437133 | 4.1142E-161 | 114991 | ZNF618 |
| 0.077433089 | 4.2751E-161 | 54497 | HEATR5B |
| 0.077426442 | 4.5534E-161 | 3150 | HMGN1 |
| 0.077420555 | 4.8149E-161 | 282969 | C10orf125 |
| 0.077405334 | 5.5628E-161 | 4753 | NELL2 |
| 0.077370119 | 7.7681E-161 | 100129478 | LOC100129478 |
| 0.077369053 | 7.8469E-161 | 333 | APLP1 |
| 0.077366886 | 8.0098E-161 | 160857 | CCDC122 |
| 0.077361217 | 8.452E-161 | 220074 | AP000812.2 |
| 0.077348942 | 9.4949E-161 | 147429 | CHST9-AS1 |
| 0.077299109 | 1.5224E-160 | 58475 | MS4A7 |
| 0.0772785 | 1.8506E-160 | 57661 | PHRF1 |
| 0.077253555 | 2.3435E-160 | 2650 | GCNT1 |
| 0.077252976 | 2.3564E-160 | 647309 | RP11-332P22.1 |
| 0.077247801 | 2.4747E-160 | 4135 | MAP6 |
| 0.07719707 | 3.9993E-160 | 838 | CASP5 |
| 0.077191417 | 4.219E-160 | 3033 | HADH |
| 0.077168072 | 5.2611E-160 | 1557 | CYP2C19 |
| 0.077162434 | 5.5492E-160 | 4292 | MLH1 |
| 0.077151271 | 6.1668E-160 | 8352 | HIST1H3C |
| 0.077104873 | 9.5607E-160 | 283521 | LINC00282 |
| 0.077089645 | 1.104E-159 | 5689 | PSMB1 |
| 0.077088513 | 1.1159E-159 | 54874 | FNBP1L |
| 0.077039302 | 1.7759E-159 | 23318 | ZCCHC11 |
| 0.0770291 | 1.9554E-159 | 123624 | AGBL1 |
| 0.076992431 | 2.7637E-159 | 29034 | CPS1-IT1 |
| 0.076982482 | 3.0356E-159 | 375307 | C2orf62 |
| 0.076963487 | 3.6312E-159 | 817 | CAMK2D |
| 0.076946741 | 4.2523E-159 | 5621 | PRNP |
| 0.076943311 | 4.392E-159 | 57642 | COL20A1 |
| 0.076933025 | 4.8392E-159 | 6844 | VAMP2 |
| 0.076909569 | 6.0365E-159 | 255758 | TCTEX1D2 |
| 0.076881964 | 7.8296E-159 | 22990 | PCNX |
| 0.07686758 | 8.9655E-159 | 3049 | HBQ1 |
| 0.0768247 | 1.3425E-158 | 23529 | CLCF1 |
| 0.076806086 | 1.5995E-158 | 57665 | RDH14 |
| 0.076796262 | 1.7545E-158 | 4001 | LMNB1 |
| 0.076794762 | 1.7794E-158 | 90993 | CREB3L1 |
| 0.076793474 | 1.8011E-158 | 140606 | SELM |
| 0.07679049 | 1.8524E-158 | 90113 | VWA5B2 |
| 0.076756683 | 2.5459E-158 | 57176 | VARS2 |
| 0.07672893 | 3.305E-158 | 3320 | HSP90AA2 |
| 0.076718726 | 3.6377E-158 | 23309 | SIN3B |
| 0.076681742 | 5.1495E-158 | 22807 | IKZF2 |
| 0.076680339 | 5.2178E-158 | 9615 | GDA |
| 0.076659273 | 6.3596E-158 | 26508 | HEYL |
| 0.076606979 | 1.0391E-157 | 286042 | AC068020.3 |
| 0.07660168 | 1.0921E-157 | 23215 | BAT2D1 |
| 0.076600384 | 1.1055E-157 | 7103 | TSPAN8 |
| 0.076597111 | 1.1399E-157 | 81691 | AC004381.2 |
| 0.076594503 | 1.1682E-157 | 1417 | CRYBB3 |
| 0.076557969 | 1.6458E-157 | 343 | AQP8 |
| 0.076556436 | 1.6696E-157 | 255252 | LRRC57 |
| 0.07653559 | 2.0301E-157 | 8392 | OR3A3 |
| 0.076531598 | 2.1076E-157 | 30000 | TNPO2 |
| 0.076526569 | 2.2093E-157 | 317781 | DDX51 |
| 0.076489637 | 3.1232E-157 | 3866 | KRT15 |
| 0.076489092 | 3.1392E-157 | 112 | ADCY6 |
| 0.076478719 | 3.4597E-157 | 64600 | PLA2G2F |
| 0.07646863 | 3.8027E-157 | 2098 | ESD |

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| 0.210779642 | 0.002175903 | 0.081 | 1 | 11196 | SEC23IP |
| 0.210755022 | 0.002178555 | 0.094 | 1 | 389362 | PSMG4 |
| 0.210734289 | 0.00218079 | 0.076 | 1 | 23480 | SEC61G |
| 0.210696712 | 0.002184848 | 0.067 | 1 | 953 | ENTPD1 |
| 0.21069412 | 0.002185128 | 0.075 | 1 | 199704 | ZNF585A |
| 0.210672092 | 0.00218751 | 0.068 | 1 | 60686 | C14orf93 |
| 0.210656542 | 0.002189192 | 0.083 | 1 | 1545 | CYP1B1 |
| 0.210647472 | 0.002190175 | 0.063 | 1 | 51562 | MBIP |
| 0.210609894 | 0.002194248 | 0.068 | 1 | 221914 | GPC2 |
| 0.210604711 | 0.00219481 | 0.065 | 1 | 7465 | WEE1 |
| 0.210580091 | 0.002197483 | 0.07 | 1 | 4811 | NID1 |
| 0.210552879 | 0.002200441 | 0.069 | 1 | 728698 | EIF4A1P4 |
| 0.21050364 | 0.002205803 | 0.085 | 1 | 151230 | KLHL23 |
| 0.210458287 | 0.002210751 | 0.075 | 1 | 23016 | EXOSC7 |
| 0.210419413 | 0.002215001 | 0.069 | 1 | 79442 | LRRC2 |
| 0.210265215 | 0.002231933 | 0.058 | 1 | 51379 | CRLF3 |
| 0.210197834 | 0.002239368 | 0.063 | 1 | 7296 | TXNRD1 |
| 0.21014082 | 0.002245677 | 0.059 | 1 | 92815 | HIST3H2A |
| 0.210074734 | 0.00225301 | 0.058 | 1 | 2357 | FPR1 |
| 0.210073439 | 0.002253154 | 0.065 | 1 | 5341 | PLEK |
| 0.21001772 | 0.002259355 | 0.066 | 1 | 997 | CDC34 |
| 0.209945156 | 0.002267453 | 0.073 | 1 | 283431 | GAS2L3 |
| 0.209928311 | 0.002269336 | 0.05 | 1 | 26223 | FBXL21 |
| 0.209904987 | 0.002271947 | 0.072 | 1 | 9791 | PTDSS1 |
| 0.209888141 | 0.002273834 | 0.045 | 1 | 127003 | C1orf194 |
| 0.209880367 | 0.002274705 | 0.076 | 1 | 6521 | SLC4A1 |
| 0.20986093 | 0.002276885 | 0.06 | 1 | 3925 | STMN1 |
| 0.209810394 | 0.002282562 | 0.065 | 1 | 9413 | C9orf61 |
| 0.209784478 | 0.002285478 | 0.061 | 1 | 59349 | KLHL12 |
| 0.209763746 | 0.002287813 | 0.065 | 1 | 3714 | JAG2 |
| 0.209702844 | 0.002294686 | 0.079 | 1 | 120071 | GYLTL1B |
| 0.209687294 | 0.002296444 | 0.062 | 1 | 1174 | AP1S1 |
| 0.209682111 | 0.00229703 | 0.077 | 1 | 79047 | KCTD15 |
| 0.209628984 | 0.002303046 | 0.063 | 1 | 729967 | MORN2 |
| 0.209606956 | 0.002305545 | 0.064 | 1 | 10286 | BCAS2 |
| 0.209591406 | 0.00230731 | 0.075 | 1 | 348262 | AC174470.1 |
| 0.2095318 | 0.002314089 | 0.052 | 1 | 9749 | PHACTR2 |
| 0.209511068 | 0.002316451 | 0.086 | 1 | 653499 | LGALS7B |
| 0.209474786 | 0.002320589 | 0.08 | 1 | 140732 | SPAG4L |
| 0.20947349 | 0.002320737 | 0.068 | 1 | 9310 | ZNF235 |
| 0.209372419 | 0.002332303 | 0.068 | 1 | 467 | ATF3 |
| 0.209320587 | 0.002338254 | 0.075 | 1 | 130589 | GALM |
| 0.209240248 | 0.002347506 | 0.065 | 1 | 219960 | OR10Q1 |
| 0.209233769 | 0.002348253 | 0.075 | 1 | 23096 | IQSEC2 |
| 0.209233769 | 0.002348253 | 0.074 | 1 | 92345 | NAF1 |
| 0.209201375 | 0.002351995 | 0.078 | 1 | 57088 | PLSCR4 |
| 0.209188417 | 0.002353492 | 0.075 | 1 | 4192 | MDK |
| 0.209152135 | 0.002357691 | 0.061 | 1 | 55970 | GNG12 |
| 0.209127515 | 0.002360545 | 0.069 | 1 | 10200 | MPHOSPH6 |
| 0.209109374 | 0.002362649 | 0.078 | 1 | 155185 | AMZ1 |
| 0.20900312 | 0.002375009 | 0.064 | 1 | 50632 | CALY |
| 0.208957767 | 0.002380302 | 0.074 | 1 | 4241 | MFI2 |
| 0.208905936 | 0.002386365 | 0.083 | 1 | 84861 | KLHL22 |
| 0.208843738 | 0.002393659 | 0.074 | 1 | 84910 | TMEM87B |
| 0.208837259 | 0.002394419 | 0.08 | 1 | 29984 | RHOD |
| 0.208743962 | 0.002405401 | 0.083 | 1 | 4707 | NDUFB1 |
| 0.208609201 | 0.002421345 | 0.072 | 1 | 387885 | CCDC42B |
| 0.208563848 | 0.002426733 | 0.071 | 1 | 8386 | OR1D5 |
| 0.208513313 | 0.002432748 | 0.085 | 1 | 399815 | LOC399815 |
| 0.208449819 | 0.002440326 | 0.087 | 1 | 631 | BFSP1 |
| 0.208426495 | 0.002443115 | 0.069 | 1 | 57153 | SLC44A2 |
| 0.208410946 | 0.002444976 | 0.071 | 1 | 4753 | NELL2 |
| 0.208379847 | 0.002448702 | 0.072 | 1 | 3608 | ILF2 |
| 0.208303395 | 0.002457883 | 0.071 | 1 | 5800 | PTPRO |
| 0.208298212 | 0.002458506 | 0.083 | 1 | 27006 | FGF22 |
| 0.208255451 | 0.002463656 | 0.057 | 1 | 4232 | MEST |
| 0.208168634 | 0.002474143 | 0.063 | 1 | 90050 | FAM181A |
| 0.208156971 | 0.002475555 | 0.08 | 1 | 656 | BMP8B |
| 0.208146605 | 0.00247681 | 0.063 | 1 | 3953 | LEPR |
| 0.208083112 | 0.002484512 | 0.073 | 1 | 3033 | HADH |
| 0.2080559 | 0.00248782 | 0.082 | 1 | 302 | ANXA2 |
| 0.208044238 | 0.002489239 | 0.076 | 1 | 81789 | TIGD6 |
| 0.208018322 | 0.002492394 | 0.071 | 1 | 3017 | HIST1H2BD |
| 0.207960012 | 0.002499508 | 0.073 | 1 | 83604 | TMEM47 |
| 0.20795742 | 0.002499824 | 0.07 | 1 | 3814 | KISS1 |
| 0.207888744 | 0.002508227 | 0.088 | 1 | 84779 | NAA11 |
| 0.207882265 | 0.002509021 | 0.081 | 1 | 1460 | CSNK2B |
| 0.207879673 | 0.002509338 | 0.069 | 1 | 93349 | SP140L |
| 0.207703446 | 0.002531026 | 0.071 | 1 | 754 | PTTG1IP |
| 0.207702151 | 0.002531186 | 0.08 | 1 | 128240 | APOA1BP |
| 0.207698263 | 0.002531666 | 0.059 | 1 | 8339 | HIST1H2BG |
| 0.20761922 | 0.002541451 | 0.067 | 1 | 3672 | ITGA1 |

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| 0.076462383 | 1.6405E-156 | 463 | ATBF1 |
| 0.076452118 | 4.4388E-157 | 146547 | PRSS36 |
| 0.076451584 | 4.461E-157 | 1515 | CTSL2 |
| 0.076444693 | 4.7585E-157 | 51009 | DERL2 |
| 0.076444556 | 4.7646E-157 | 202374 | STK32A |
| 0.076427047 | 5.6135E-157 | 55830 | GLT8D1 |
| 0.076397468 | 7.4045E-157 | 10772 | FUSIP1 |
| 0.076368358 | 9.723E-157 | 390261 | OR6M1 |
| 0.076355203 | 1.0996E-156 | 60626 | RIC8A |
| 0.076342117 | 1.2428E-156 | 6288 | SAA1 |
| 0.076328102 | 1.4169E-156 | 10021 | HCN4 |
| 0.076318292 | 1.553E-156 | 83698 | CALN1 |
| 0.076311546 | 1.6541E-156 | 374378 | GALNTL4 |
| 0.076301575 | 1.8157E-156 | 9577 | BRE |
| 0.076266131 | 2.5288E-156 | 92906 | HNRPLL |
| 0.076246862 | 3.0276E-156 | 23761 | PISD |
| 0.076182706 | 5.5113E-156 | 9705 | ST18 |
| 0.076148998 | 7.5484E-156 | 9874 | TLK1 |
| 0.076133249 | 8.7429E-156 | 27315 | PGAP2 |
| 0.076108772 | 1.0985E-155 | 2870 | GRK6 |
| 0.076104768 | 1.1403E-155 | 401494 | PTPLAD2 |
| 0.076094774 | 1.2516E-155 | 152118 | RP11-292E2.1 |
| 0.076085386 | 1.3661E-155 | 4927 | NUP88 |
| 0.076054422 | 1.8231E-155 | 7221 | TRPC2 |
| 0.07605028 | 1.8948E-155 | 55690 | PACS1 |
| 0.076046325 | 1.9659E-155 | 8140 | SLC7A5 |
| 0.076039191 | 2.101E-155 | 2887 | GRB10 |
| 0.075981545 | 3.5938E-155 | 9015 | TAF1A |
| 0.075980147 | 3.6409E-155 | 147906 | DACT3 |
| 0.075922938 | 6.2E-155 | 89 | ACTN3 |
| 0.075916616 | 6.5755E-155 | 80790 | AC099524.1 |
| 0.075889758 | 8.441E-155 | 116179 | TGM7 |
| 0.075886363 | 8.7117E-155 | 349114 | LINC00265 |
| 0.075874501 | 9.7273E-155 | 364 | AQP7 |
| 0.075824636 | 1.5461E-154 | 9046 | DOK2 |
| 0.075795107 | 2.0339E-154 | 5865 | RAB3B |
| 0.075767762 | 2.6217E-154 | 116349 | C5orf55 |
| 0.075752533 | 3.0197E-154 | 6612 | SUMO3 |
| 0.075719878 | 4.0883E-154 | 54784 | ALKBH4 |
| 0.07568052 | 5.8893E-154 | 1464 | CSPG4 |
| 0.075680315 | 5.9005E-154 | 100289060 | LOC100289060 |
| 0.075667157 | 6.6659E-154 | 51108 | METTL9 |
| 0.075636314 | 8.8716E-154 | 5239 | PGM5 |
| 0.075633977 | 9.0659E-154 | 8345 | HIST1H2BH |
| 0.075632885 | 9.158E-154 | 643783 | USP46-AS1 |
| 0.075632654 | 9.1777E-154 | 84765 | ZNF577 |
| 0.075630935 | 9.3249E-154 | 8728 | ADAM19 |
| 0.075630729 | 9.3428E-154 | 128434 | VSTM2L |
| 0.075608502 | 1.1479E-153 | 151295 | SLC23A3 |
| 0.075588305 | 1.384E-153 | 6629 | SNRPB2 |
| 0.075586615 | 1.4058E-153 | 10637 | LEFTY1 |
| 0.075581618 | 1.4724E-153 | 2011 | MARK2 |
| 0.075577092 | 1.5354E-153 | 2897 | GRIK1 |
| 0.075555825 | 1.8695E-153 | 4718 | NDUFC2 |
| 0.075526668 | 2.4485E-153 | 53840 | TRIM34 |
| 0.075522669 | 2.5408E-153 | 50801 | KCNK4 |
| 0.075518914 | 2.6306E-153 | 401242 | XXBAC-BPG308K3.6 |
| 0.075518274 | 2.6463E-153 | 347689 | SOX2-OT |
| 0.075507082 | 2.9349E-153 | 653635 | WASH5P |
| 0.07549088 | 3.4094E-153 | 440087 | C12orf69 |
| 0.075487995 | 3.5016E-153 | 286257 | C9orf142 |
| 0.075474212 | 3.9775E-153 | 10298 | PAK4 |
| 0.075470882 | 4.1019E-153 | 92737 | DNER |
| 0.075418117 | 6.68E-153 | 164781 | WDR69 |
| 0.075395194 | 8.2553E-153 | 4043 | LRPAP1 |
| 0.075380476 | 9.4572E-153 | 9098 | USP6 |
| 0.07532863 | 1.5262E-152 | 8310 | ACOX3 |
| 0.075327454 | 1.5429E-152 | 4925 | NUCB2 |
| 0.075327357 | 1.5442E-152 | 2158 | F9 |
| 0.075316908 | 1.7005E-152 | 201134 | CCDC46 |
| 0.075311808 | 1.7825E-152 | 10994 | ILVBL |
| 0.075291192 | 2.1558E-152 | 2175 | FANCA |
| 0.075268539 | 2.6567E-152 | 285834 | HCG22 |
| 0.075253392 | 3.0548E-152 | 79415 | C17orf62 |
| 0.075242462 | 3.3786E-152 | 221756 | MGC39372 |
| 0.075211101 | 4.5108E-152 | 23302 | WSCD1 |
| 0.075208119 | 4.6364E-152 | 159013 | CXorf38 |
| 0.075200486 | 4.9742E-152 | 441416 | GPR116P2 |
| 0.075200435 | 3.4515E-151 | 57110 | HRASLS |
| 0.075140294 | 8.6584E-152 | 132671 | SPATA18 |
| 0.075131801 | 9.3624E-152 | 119678 | OR52E2 |
| 0.075107044 | 1.1758E-151 | 129450 | C2orf60 |

| | | | | | |
|---|---|---|---|---|---|
| 0.207602375 | 0.002543541 | 0.07 | 1 | 221178 | SPATA13 |
| 0.207534994 | 0.002551916 | 0.066 | 1 | 5552 | SRGN |
| 0.207528515 | 0.002552722 | 0.073 | 1 | 2697 | GJA1 |
| 0.20741319 | 0.002567118 | 0.087 | 1 | 313 | AOAH |
| 0.207352289 | 0.00257475 | 0.087 | 1 | 112817 | NPL2 |
| 0.207300457 | 0.002581262 | 0.073 | 1 | 9114 | ATP6V0D1 |
| 0.207283612 | 0.002583382 | 0.08 | 1 | 8881 | CDC16 |
| 0.20728102 | 0.002583708 | 0.072 | 1 | 8970 | HIST1H2BJ |
| 0.207264175 | 0.002585829 | 0.07 | 1 | 10924 | SMPDL3A |
| 0.20724733 | 0.002587952 | 0.067 | 1 | 134637 | ADAT2 |
| 0.207174766 | 0.002597115 | 0.06 | 1 | 2669 | GEM |
| 0.207169583 | 0.002597771 | 0.068 | 1 | 4751 | NEK2 |
| 0.207067216 | 0.00261075 | 0.08 | 1 | 128272 | ARHGEF19 |
| 0.207021863 | 0.00261652 | 0.059 | 1 | 3739 | KCNA4 |
| 0.206954482 | 0.002625112 | 0.077 | 1 | 130271 | PLEKHH2 |
| 0.206941524 | 0.002626768 | 0.072 | 1 | 147694 | ZNF548 |
| 0.20688451 | 0.002634063 | 0.08 | 1 | 25950 | RWDD3 |
| 0.206878031 | 0.002634893 | 0.078 | 1 | 79666 | PLEKHF2 |
| 0.206843045 | 0.00263938 | 0.078 | 1 | 6288 | SAA1 |
| 0.206722537 | 0.002654888 | 0.077 | 1 | 7485 | WRB |
| 0.206719945 | 0.002655223 | 0.076 | 1 | 2870 | GRK6 |
| 0.206716058 | 0.002655724 | 0.088 | 1 | 58484 | NLRC4 |
| 0.206660339 | 0.002662925 | 0.078 | 1 | 84726 | BAT2L |
| 0.206583888 | 0.002672833 | 0.084 | 1 | 145814 | AC069029.1 |
| 0.206569634 | 0.002674685 | 0.068 | 1 | 4925 | NUCB2 |
| 0.206522986 | 0.002680751 | 0.079 | 1 | 84300 | MNF1 |
| 0.20649707 | 0.002684126 | 0.084 | 1 | 388743 | CAPN8 |
| 0.206454309 | 0.002689704 | 0.064 | 1 | 6881 | TAF10 |
| 0.206445238 | 0.002690889 | 0.075 | 1 | 51665 | ASB1 |
| 0.206433576 | 0.002692413 | 0.082 | 1 | 51097 | SCCPDH |
| 0.206421914 | 0.002693937 | 0.072 | 1 | 201456 | FBXO15 |
| 0.206341576 | 0.002704461 | 0.084 | 1 | 51380 | CSAD |
| 0.206302702 | 0.002709566 | 0.093 | 1 | 650 | BMP2 |
| 0.20629104 | 0.002711099 | 0.085 | 1 | 2695 | GIP |
| 0.206258645 | 0.002715363 | 0.096 | 1 | 22953 | P2RX2 |
| 0.206230138 | 0.002719119 | 0.084 | 1 | 390748 | AC092384.2 |
| 0.206174419 | 0.002726476 | 0.087 | 1 | 283106 | CSNK2A1P |
| 0.206162757 | 0.002728018 | 0.077 | 1 | 8792 | TNFRSF11A |
| 0.2061187 | 0.00273385 | 0.076 | 1 | 6742 | SSBP1 |
| 0.206113517 | 0.002734537 | 0.081 | 1 | 25902 | MTHFD1L |
| 0.206101855 | 0.002736084 | 0.06 | 1 | 10972 | TMED10 |
| 0.206079827 | 0.002739006 | 0.082 | 1 | 100268168 | AC008429.1 |
| 0.206079827 | 0.002739006 | 0.067 | 1 | 100287482 | RP11-305M3.3 |
| 0.206066869 | 0.002740727 | 0.097 | 1 | 2804 | GOLGB1 |
| 0.2060267 | 0.002746067 | 0.088 | 1 | 474149 | TTTY4B |
| 0.206020221 | 0.002746929 | 0.078 | 1 | 2529 | FUT7 |
| 0.206000784 | 0.002749517 | 0.068 | 1 | 54625 | PARP14 |
| 0.205999488 | 0.002749689 | 0.076 | 1 | 51465 | UBE2J1 |
| 0.205996897 | 0.002750035 | 0.063 | 1 | 10561 | IFI44 |
| 0.205995601 | 0.002750207 | 0.071 | 1 | 117248 | GALNTL2 |
| 0.205982643 | 0.002751934 | 0.057 | 1 | 54502 | RBM47 |
| 0.205917854 | 0.002760584 | 0.085 | 1 | 135114 | HINT3 |
| 0.205888051 | 0.002764571 | 0.068 | 1 | 81619 | TSPAN14 |
| 0.205729965 | 0.002785807 | 0.081 | 1 | 27044 | SND1 |
| 0.205656105 | 0.00279578 | 0.069 | 1 | 10623 | POLR3C |
| 0.205632781 | 0.002798936 | 0.086 | 1 | 57149 | LYRM1 |
| 0.205606865 | 0.002802446 | 0.085 | 1 | 29081 | METTL5 |
| 0.205534301 | 0.002812297 | 0.085 | 1 | 128178 | EDARADD |
| 0.20550709 | 0.002815999 | 0.073 | 1 | 401565 | FAM166A |
| 0.205498019 | 0.002817234 | 0.086 | 1 | 2040 | STOM |
| 0.205481174 | 0.002819528 | 0.067 | 1 | 9450 | LY86 |
| 0.205479878 | 0.002819705 | 0.08 | 1 | 1301 | COL11A1 |
| 0.205350299 | 0.002837416 | 0.065 | 1 | 10376 | TUBA1B |
| 0.205290693 | 0.002845596 | 0.072 | 1 | 9263 | STK17A |
| 0.205271257 | 0.002848269 | 0.082 | 1 | 8187 | ZNF239 |
| 0.20525182 | 0.002850943 | 0.074 | 1 | 6720 | SREBF1 |
| 0.20525182 | 0.002850943 | 0.094 | 1 | 7305 | TYROBP |
| 0.205209059 | 0.002856835 | 0.089 | 1 | 10775 | POP4 |
| 0.205193509 | 0.00285898 | 0.078 | 1 | 27243 | CHMP2A |
| 0.205184439 | 0.002860232 | 0.071 | 1 | 10950 | BTG3 |
| 0.205118354 | 0.00286937 | 0.089 | 1 | 3077 | HFE |
| 0.205060043 | 0.002877454 | 0.081 | 1 | 5316 | PKNOX1 |
| 0.205039311 | 0.002880334 | 0.097 | 1 | 30008 | EFEMP2 |
| 0.205036719 | 0.002880694 | 0.08 | 1 | 7274 | TTPA |
| 0.20503024 | 0.002881594 | 0.095 | 1 | 152 | ADRA2C |
| 0.205025057 | 0.002882315 | 0.056 | 1 | 4897 | NRCAM |
| 0.205022466 | 0.002882675 | 0.071 | 1 | 340562 | SATL1 |
| 0.205017283 | 0.002883396 | 0.092 | 1 | 58472 | SQRDL |
| 0.204997846 | 0.0028861 | 0.063 | 1 | 5413 | SEPTIN5 |
| 0.204951197 | 0.002892601 | 0.063 | 1 | 339761 | CYP27C1 |
| 0.20494731 | 0.002893143 | 0.083 | 1 | 3638 | INSIG1 |
| 0.204934352 | 0.002894951 | 0.07 | 1 | 541471 | AC068491.1 |

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| 0.075107037 | 1.1758E-151 | 11243 | PMF1 |
| 0.075098595 | 1.2708E-151 | 121441 | NEDD1 |
| 0.075095623 | 1.306E-151 | 1510 | CTSE |
| 0.075089739 | 1.3787E-151 | 3183 | HNRNPC |
| 0.075052543 | 1.9409E-151 | 56651 | LINC00470 |
| 0.075049367 | 1.9985E-151 | 150159 | NHEDC1 |
| 0.075048112 | 2.0216E-151 | 26696 | OR2T1 |
| 0.075047567 | 2.0318E-151 | 6643 | SNX2 |
| 0.075044204 | 2.0956E-151 | 23108 | GARNL4 |
| 0.075037956 | 2.2195E-151 | 440603 | BCL2L15 |
| 0.075032439 | 2.3349E-151 | 5890 | RAD51L1 |
| 0.075020112 | 2.615E-151 | 170960 | ZNF721 |
| 0.074998234 | 3.1973E-151 | 64403 | CDH24 |
| 0.074971722 | 4.0788E-151 | 27345 | KCNMB4 |
| 0.074907901 | 5.0064E-150 | 2823 | GPM6A |
| 0.07490741 | 7.3609E-151 | 7424 | VEGFC |
| 0.074874482 | 9.9569E-151 | 5106 | PCK2 |
| 0.074872661 | 1.0125E-150 | 1326 | MAP3K8 |
| 0.074857443 | 1.1641E-150 | 64792 | RABL5 |
| 0.074845921 | 1.2938E-150 | 2890 | GRIA1 |
| 0.074826908 | 1.5401E-150 | 8000 | PSCA |
| 0.074821783 | 1.6142E-150 | 51061 | TXNDC11 |
| 0.074799692 | 1.9764E-150 | 146310 | RNF151 |
| 0.07479231 | 2.1147E-150 | 7832 | BTG2 |
| 0.074783459 | 2.2933E-150 | 15 | AANAT |
| 0.074672238 | 6.3476E-150 | 147138 | TMC8 |
| 0.074652036 | 7.6357E-150 | 93611 | FBXO44 |
| 0.074648493 | 7.8871E-150 | 171558 | PTCRA |
| 0.074598555 | 1.245E-149 | 114926 | C8orf40 |
| 0.074579401 | 1.4831E-149 | 400765 | MIR2682 |
| 0.074574523 | 1.5506E-149 | 30820 | KCNIP1 |
| 0.074559599 | 1.7771E-149 | 57628 | DPP10 |
| 0.07454651 | 2.0027E-149 | 51538 | ZCCHC17 |
| 0.074543698 | 2.0548E-149 | 9256 | BZRAP1 |
| 0.074542035 | 2.0863E-149 | 23359 | FAM189A1 |
| 0.074511892 | 2.7471E-149 | 5917 | RARS |
| 0.074488243 | 3.4088E-149 | 10322 | SMYD5 |
| 0.074486691 | 3.4574E-149 | 118881 | COMTD1 |
| 0.074467948 | 4.1021E-149 | 55150 | C19orf73 |
| 0.074454661 | 4.6306E-149 | 260293 | CYP4X1 |
| 0.074448545 | 4.8962E-149 | 8715 | NOL4 |
| 0.074411678 | 6.8522E-149 | 808 | CALM3 |
| 0.074404265 | 7.3312E-149 | 386677 | KRTAP10-1 |
| 0.074379596 | 9.179E-149 | 158763 | RP13-102H20.1 |
| 0.074367309 | 1.1004E-148 | 4199 | ME1 |
| 0.074365471 | 1.0439E-148 | 142 | PARP1 |
| 0.074356625 | 1.1315E-148 | 7936 | RDBP |
| 0.074339182 | 1.3263E-148 | 23286 | WWC1 |
| 0.074311231 | 1.7107E-148 | 10522 | DEAF1 |
| 0.074306252 | 1.79E-148 | 10746 | MAP3K2 |
| 0.074304558 | 1.8178E-148 | 23705 | CADM1 |
| 0.07429969 | 1.9001E-148 | 999 | CDH1 |
| 0.074274572 | 2.3881E-148 | 26074 | C20orf26 |
| 0.074273355 | 2.4146E-148 | 247 | ALOX15B |
| 0.074272134 | 2.4416E-148 | 126014 | OSCAR |
| 0.07427156 | 2.4544E-148 | 728039 | SSR4P1 |
| 0.074217528 | 4.0118E-148 | 150921 | TCF23 |
| 0.074208555 | 4.3528E-148 | 10534 | SSSCA1 |
| 0.074188618 | 5.2175E-148 | 114825 | PWWP2A |
| 0.074187156 | 5.2872E-148 | 111 | ADCY5 |
| 0.074165017 | 6.4652E-148 | 23189 | KANK1 |
| 0.074161893 | 6.6513E-148 | 5787 | PTPRB |
| 0.074146671 | 7.6375E-148 | 118425 | RP11-610O8.1 |
| 0.074146247 | 7.667E-148 | 977 | CD151 |
| 0.074126668 | 9.1588E-148 | 283149 | BCL9L |
| 0.074121775 | 9.5748E-148 | 116085 | SLC22A12 |
| 0.074110502 | 1.0607E-147 | 57048 | PLSCR3 |
| 0.074065618 | 1.5939E-147 | 79807 | GSTCD |
| 0.074056478 | 1.7317E-147 | 221823 | PRPS1L1 |
| 0.074052955 | 1.7879E-147 | 653499 | LGALS7B |
| 0.074043108 | 1.955E-147 | 7223 | TRPC4 |
| 0.074028453 | 2.2328E-147 | 9626 | GUCA1C |
| 0.074022986 | 2.3463E-147 | 392309 | OR13J1 |
| 0.074016197 | 2.4952E-147 | 389741 | MGC21881 |
| 0.074007082 | 2.7102E-147 | 10893 | MMP24 |
| 0.074006433 | 2.7261E-147 | 337975 | KRTAP20-1 |
| 0.073992702 | 3.0874E-147 | 653857 | RP5-820A21.1 |
| 0.07397098 | 3.7591E-147 | 28983 | TMPRSS11E2 |
| 0.073914842 | 6.2501E-147 | 64857 | PLEKHG2 |
| 0.073883587 | 8.2937E-147 | 56241 | SUSD2 |
| 0.073846065 | 1.1646E-146 | 83888 | FGFBP2 |
| 0.073806259 | 1.6692E-146 | 84674 | CARD6 |

| | | | | | |
|---|---|---|---|---|---|
| 0.204881225 | 0.002902376 | 0.073 | 1 | 8795 | TNFRSF10B |
| 0.204655758 | 0.002934077 | 0.064 | 1 | 54894 | RNF43 |
| 0.204597448 | 0.002942327 | 0.09 | 1 | 142 | PARP1 |
| 0.204593561 | 0.002942878 | 0.067 | 1 | 89932 | PAPLN |
| 0.204576715 | 0.002945265 | 0.079 | 1 | 123624 | AGBL1 |
| 0.204530067 | 0.002951886 | 0.072 | 1 | 4794 | NFKBIE |
| 0.204514518 | 0.002954096 | 0.081 | 1 | 222256 | CTA-351J1.1 |
| 0.204498968 | 0.002956308 | 0.081 | 1 | 10982 | MAPRE2 |
| 0.204405672 | 0.002969608 | 0.072 | 1 | 5900 | RALGDS |
| 0.204390122 | 0.00297183 | 0.083 | 1 | 340385 | ZNF517 |
| 0.204360319 | 0.002976093 | 0.073 | 1 | 283212 | KLHL35 |
| 0.204283868 | 0.002987054 | 0.07 | 1 | 79029 | SPATA5L1 |
| 0.204265727 | 0.00298966 | 0.071 | 1 | 81029 | WNT5B |
| 0.204242403 | 0.002993014 | 0.071 | 1 | 284434 | NWD1 |
| 0.204235924 | 0.002993947 | 0.074 | 1 | 9761 | MLEC |
| 0.204092091 | 0.003014711 | 0.072 | 1 | 374378 | GALNTL4 |
| 0.204055809 | 0.003019969 | 0.063 | 1 | 10113 | PREB |
| 0.20400657 | 0.003027119 | 0.093 | 1 | 57491 | AHRR |
| 0.204005274 | 0.003027308 | 0.08 | 1 | 253190 | SERHL2 |
| 0.204001386 | 0.003027873 | 0.08 | 1 | 54921 | CHTF8 |
| 0.203971583 | 0.003032209 | 0.097 | 1 | 171389 | NLRP6 |
| 0.203896428 | 0.003043168 | 0.062 | 1 | 56955 | MEPE |
| 0.203861442 | 0.003048282 | 0.076 | 1 | 84868 | HAVCR2 |
| 0.203839413 | 0.003051505 | 0.078 | 1 | 9578 | AL117209.1 |
| 0.203804427 | 0.003056632 | 0.084 | 1 | 147 | ADRA1B |
| 0.20380054 | 0.003057202 | 0.081 | 1 | 80863 | PRRT1 |
| 0.203770737 | 0.003061576 | 0.09 | 1 | 2819 | GPD1 |
| 0.203740934 | 0.003065956 | 0.088 | 1 | 3606 | IL18 |
| 0.203716314 | 0.003069578 | 0.076 | 1 | 55135 | WRAP53 |
| 0.20366837 | 0.003076643 | 0.072 | 1 | 100038246 | TLX1NB |
| 0.203663186 | 0.003077408 | 0.068 | 1 | 56107 | PCDHGA9 |
| 0.203663186 | 0.003077408 | 0.077 | 1 | 140893 | C20orf151 |
| 0.203606172 | 0.00308583 | 0.085 | 1 | 648740 | ACTG1P4 |
| 0.203514171 | 0.003099466 | 0.082 | 1 | 54466 | SPIN2A |
| 0.203485664 | 0.003103702 | 0.087 | 1 | 10298 | PAK4 |
| 0.20343772 | 0.003110838 | 0.081 | 1 | 146712 | B3GNTL1 |
| 0.203415691 | 0.003114122 | 0.085 | 1 | 4610 | MYCL1 |
| 0.203350902 | 0.003123798 | 0.077 | 1 | 6865 | TACR2 |
| 0.203284817 | 0.003133696 | 0.081 | 1 | 445 | ASS1 |
| 0.203239464 | 0.003140505 | 0.05 | 1 | 686 | BTD |
| 0.203188929 | 0.003148108 | 0.108 | 1 | 3889 | KRT83 |
| 0.20315783 | 0.003152796 | 0.082 | 1 | 10058 | ABCB6 |
| 0.203122844 | 0.003158076 | 0.086 | 1 | 27147 | DENND2A |
| 0.203109886 | 0.003160034 | 0.079 | 1 | 7157 | TP53 |
| 0.203102111 | 0.003161209 | 0.075 | 1 | 153579 | BTNL9 |
| 0.203085266 | 0.003163757 | 0.09 | 1 | 3067 | HDC |
| 0.203023068 | 0.00317318 | 0.083 | 1 | 942 | CD86 |
| 0.203007519 | 0.003175539 | 0.079 | 1 | 11230 | PRAF2 |
| 0.202982899 | 0.003179279 | 0.075 | 1 | 57156 | TMEM63C |
| 0.202906448 | 0.003190916 | 0.077 | 1 | 3208 | HPCA |
| 0.202875349 | 0.003195661 | 0.096 | 1 | 203 | AK1 |
| 0.202807968 | 0.003205964 | 0.063 | 1 | 407738 | FAM19A1 |
| 0.202783348 | 0.003209736 | 0.069 | 1 | 955 | ENTPD6 |
| 0.202740587 | 0.003216296 | 0.078 | 1 | 548593 | GIYD2 |
| 0.202683572 | 0.003225063 | 0.085 | 1 | 81572 | PDRG1 |
| 0.202660248 | 0.003228655 | 0.103 | 1 | 285834 | HCG22 |
| 0.202644699 | 0.003231052 | 0.056 | 1 | 51100 | SH3GLB1 |
| 0.202591572 | 0.003239255 | 0.07 | 1 | 646627 | LOC646627 |
| 0.202586388 | 0.003240056 | 0.09 | 1 | 2542 | SLC37A4 |
| 0.202553994 | 0.003245067 | 0.086 | 1 | 10574 | CCT7 |
| 0.202516416 | 0.00325089 | 0.069 | 1 | 7099 | TLR4 |
| 0.202461993 | 0.003259339 | 0.088 | 1 | 3116 | HLA-DPB2 |
| 0.202414049 | 0.003266798 | 0.095 | 1 | 190 | NR0B1 |
| 0.202367401 | 0.003274071 | 0.093 | 1 | 440097 | DBX2 |
| 0.202292245 | 0.00328582 | 0.084 | 1 | 58497 | PRUNE |
| 0.202265034 | 0.003290083 | 0.076 | 1 | 83592 | AKR1CL2 |
| 0.202191174 | 0.00330168 | 0.083 | 1 | 503542 | SPRN |
| 0.202166554 | 0.003305553 | 0.059 | 1 | 23704 | KCNE4 |
| 0.202163962 | 0.003305961 | 0.064 | 1 | 441191 | RNF216L |
| 0.202136751 | 0.003310248 | 0.078 | 1 | 55783 | FTSJD1 |
| 0.202109539 | 0.00331454 | 0.072 | 1 | 79414 | LRFN3 |
| 0.202057708 | 0.003322729 | 0.102 | 1 | 6185 | RPN2 |
| 0.202046046 | 0.003324574 | 0.088 | 1 | 285313 | IGSF10 |
| 0.20202013 | 0.003328677 | 0.096 | 1 | 81551 | STMN4 |
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| 0.071330754 | 5.9835E-137 | 2149 | F2R |
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| 0.071273586 | 9.8566E-137 | 51307 | FAM53C |
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| 0.071127413 | 3.5252E-136 | 23348 | DOCK9 |
| 0.071124485 | 3.6162E-136 | 2528 | FUT6 |
| 0.071102334 | 4.3856E-136 | 7267 | TTC3 |
| 0.07109953 | 4.4939E-136 | 2348 | FOLR1 |
| 0.071092367 | 4.7831E-136 | 57188 | ADAMTSL3 |
| 0.071062785 | 6.1875E-136 | 1392 | CRH |
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| 0.070860364 | 3.5922E-135 | 3216 | HOXB6 |
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| 0.07036372 | 2.6312E-133 | 9501 | RPH3AL |
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| 0.070329635 | 3.5291E-133 | 342931 | RFPL4A |
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| 0.070232286 | 8.8722E-133 | 2002 | ELK1 |
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| 0.193904624 | 0.004863747 | 0.08 | 1 | 145783 | RP11-323F24.1 |
| 0.193883891 | 0.004868374 | 0.094 | 1 | 23624 | CBLC |
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| 0.193720622 | 0.004904953 | 0.091 | 1 | 10858 | CYP46A1 |
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| 0.069535449 | 3.1681E-130 | 353141 | LCE2D |
| 0.069509453 | 5.0745E-130 | 6623 | SNCG |
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| 0.191788606 | 0.005356962 | 0.081 | 1 | 80022 | MYO15B |
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| 0.191690126 | 0.005380973 | 0.094 | 1 | 353116 | RILPL1 |
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| 0.191589054 | 0.005405716 | 0.095 | 1 | 10302 | SNAPC5 |
| 0.191569618 | 0.005410487 | 0.126 | 1 | 89894 | TMEM116 |
| 0.191430969 | 0.005444623 | 0.108 | 1 | 64850 | AGXT2L1 |
| 0.191430969 | 0.005444623 | 0.098 | 1 | 112812 | FDX1L |
| 0.191405053 | 0.005451025 | 0.082 | 1 | 2925 | GRPR |
| 0.191333785 | 0.005468665 | 0.091 | 1 | 340204 | C6orf127 |
| 0.19132601 | 0.005470593 | 0.102 | 1 | 59307 | SIGIRR |
| 0.191318235 | 0.005472521 | 0.109 | 1 | 51118 | UTP11L |
| 0.191309165 | 0.005474771 | 0.107 | 1 | 729627 | AC130416.2 |
| 0.191258629 | 0.005487323 | 0.103 | 1 | 118856 | MMP21 |
| 0.191235305 | 0.005493125 | 0.087 | 1 | 8897 | MTMR3 |
| 0.191127755 | 0.005519951 | 0.107 | 1 | 401548 | SNX30 |
| 0.191100543 | 0.005526756 | 0.092 | 1 | 55816 | DOK5 |
| 0.191084994 | 0.005530649 | 0.092 | 1 | 55300 | PI4K2B |
| 0.190899696 | 0.005577222 | 0.112 | 1 | 2857 | GPR34 |
| 0.190894513 | 0.00557853 | 0.091 | 1 | 51411 | BIN2 |
| 0.19088933 | 0.005579838 | 0.097 | 1 | 79781 | IQCA1 |
| 0.19085564 | 0.005588347 | 0.087 | 1 | 10927 | SPIN1 |
| 0.190853048 | 0.005589002 | 0.106 | 1 | 3094 | HINT1 |
| 0.190727357 | 0.005620854 | 0.108 | 1 | 128308 | MRPL55 |
| 0.19072347 | 0.005621842 | 0.095 | 1 | 1464 | CSPG4 |
| 0.190710512 | 0.005625136 | 0.097 | 1 | 124454 | EARS2 |
| 0.190697554 | 0.005628431 | 0.111 | 1 | 6130 | RPL7A |
| 0.190689779 | 0.005630409 | 0.103 | 1 | 80235 | PIGZ |
| 0.190687188 | 0.005631068 | 0.09 | 1 | 303 | ANXA2P1 |
| 0.190672934 | 0.005634696 | 0.093 | 1 | 999 | CDH1 |
| 0.190612032 | 0.005650223 | 0.1 | 1 | 9091 | PIGQ |
| 0.190610736 | 0.005650553 | 0.108 | 1 | 23643 | LY96 |
| 0.190599074 | 0.005653531 | 0.106 | 1 | 116988 | AGAP3 |
| 0.190552426 | 0.005665456 | 0.109 | 1 | 4993 | OR2C1 |
| 0.190530398 | 0.005671095 | 0.097 | 1 | 344 | APOC2 |
| 0.190503186 | 0.005678067 | 0.087 | 1 | 126969 | SLC44A3 |
| 0.190494116 | 0.005680393 | 0.107 | 1 | 1910 | EDNRB |
| 0.19047727 | 0.005684715 | 0.094 | 1 | 4736 | RPL10A |
| 0.190470791 | 0.005686378 | 0.106 | 1 | 124152 | IQCK |
| 0.190459129 | 0.005689373 | 0.116 | 1 | 353189 | SLCO4C1 |
| 0.190455242 | 0.005690371 | 0.108 | 1 | 100289274 | DNAJC3-AS1 |
| 0.190439693 | 0.005694367 | 0.128 | 1 | 3487 | IGFBP4 |
| 0.190431918 | 0.005696365 | 0.099 | 1 | 10221 | TRIB1 |
| 0.190416368 | 0.005700365 | 0.112 | 1 | 60592 | SCOC |
| 0.19036972 | 0.005712378 | 0.097 | 1 | 149951 | COMMD7 |
| 0.19028679 | 0.005733791 | 0.082 | 1 | 57495 | KIAA1239 |
| 0.190249212 | 0.005743517 | 0.105 | 1 | 151242 | PPP1R1C |
| 0.190216817 | 0.005751914 | 0.077 | 1 | 781 | CACNA2D1 |
| 0.190216817 | 0.005751914 | 0.088 | 1 | 54784 | ALKBH4 |
| 0.190189606 | 0.005758975 | 0.104 | 1 | 6361 | CCL17 |
| 0.190185718 | 0.005759985 | 0.095 | 1 | 80323 | CCDC68 |
| 0.190177944 | 0.005762004 | 0.123 | 1 | 3018 | HIST1H2BB |
| 0.190171465 | 0.005763687 | 0.111 | 1 | 3183 | HNRNPC |
| 0.190050957 | 0.005795077 | 0.105 | 1 | 5798 | PTPRN |
| 0.190037999 | 0.005798462 | 0.105 | 1 | 57348 | TTYH1 |
| 0.190001717 | 0.005807947 | 0.097 | 1 | 11270 | NRM |
| 0.189990055 | 0.005810999 | 0.112 | 1 | 8216 | LZTR1 |
| 0.189942111 | 0.005823561 | 0.115 | 1 | 2987 | GUK1 |
| 0.189920082 | 0.005829341 | 0.101 | 1 | 26330 | GAPDHS |
| 0.189853997 | 0.005846711 | 0.095 | 1 | 64919 | BCL11B |
| 0.189826786 | 0.005853877 | 0.091 | 1 | 5338 | PLD2 |
| 0.189824194 | 0.00585456 | 0.106 | 1 | 3120 | HLA-DQB2 |
| 0.189812532 | 0.005857634 | 0.088 | 1 | 2170 | FABP3 |
| 0.189794391 | 0.005862418 | 0.095 | 1 | 142940 | TRUB1 |
| 0.189787912 | 0.005864128 | 0.101 | 1 | 5918 | RARRES1 |
| 0.189773659 | 0.00586789 | 0.091 | 1 | 6793 | STK10 |
| 0.189765884 | 0.005869944 | 0.095 | 1 | 22981 | NINL |
| 0.189697207 | 0.005888109 | 0.109 | 1 | 84100 | ARL6 |
| 0.189688137 | 0.005890512 | 0.109 | 1 | 155038 | GIMAP8 |
| 0.18961039 | 0.005911144 | 0.112 | 1 | 11077 | HSF2BP |
| 0.189369373 | 0.005975517 | 0.106 | 1 | 145567 | TTC7B |
| 0.189304584 | 0.005992929 | 0.092 | 1 | 1429 | CRYZ |
| 0.189292922 | 0.005996068 | 0.111 | 1 | 921 | CD5 |
| 0.189286443 | 0.005997812 | 0.091 | 1 | 84894 | LINGO1 |
| 0.189286443 | 0.005997812 | 0.109 | 1 | 94235 | GNG8 |
| 0.189279964 | 0.005999557 | 0.091 | 1 | 11237 | RNF24 |
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| 0.189265711 | 0.006003397 | 0.104 | 1 | 843 | CASP10 |

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| 0.068910946 | 6.2989E-128 | 10106 | CTDSP2 |
| 0.068895325 | 7.1861E-128 | 6536 | SLC6A9 |
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| 0.068858906 | 9.7691E-128 | 51280 | GOLM1 |
| 0.068836131 | 1.1836E-127 | 55588 | MED29 |
| 0.068831537 | 1.2304E-127 | 554 | AVPR2 |
| 0.068799901 | 1.6061E-127 | 25816 | TNFAIP8 |
| 0.068792979 | 1.7025E-127 | 401548 | SNX30 |
| 0.068782862 | 1.854E-127 | 125476 | INO80C |
| 0.06878017 | 1.8965E-127 | 6374 | CXCL5 |
| 0.068736595 | 2.7368E-127 | 164395 | TTLL9 |
| 0.068734545 | 2.7844E-127 | 84648 | LCE3D |
| 0.068719603 | 3.1574E-127 | 5008 | OSM |
| 0.068716029 | 3.2537E-127 | 3107 | HLA-C |
| 0.06868749 | 4.1364E-127 | 389137 | ARMC10P1 |
| 0.068677517 | 4.4982E-127 | 144455 | E2F7 |
| 0.068622273 | 7.156E-127 | 921 | CD5 |
| 0.06860304 | 8.4106E-127 | 23510 | KCTD2 |
| 0.068601176 | 8.5433E-127 | 140578 | CHODL |
| 0.068592995 | 9.1509E-127 | 284801 | RP3-410C9.1 |
| 0.068591057 | 9.301E-127 | 3127 | HLA-DRB5 |
| 0.068584436 | 9.8328E-127 | 347734 | SLC35B2 |
| 0.06858349 | 9.9111E-127 | 219858 | OR8B12 |
| 0.068560161 | 1.2055E-126 | 541465 | CT45A4 |
| 0.068516728 | 1.7356E-126 | 196549 | EEF1DP3 |
| 0.068467874 | 2.6142E-126 | 58528 | RRAGD |
| 0.068464865 | 2.6809E-126 | 29090 | C18orf55 |
| 0.068459536 | 2.8034E-126 | 84660 | CCDC62 |
| 0.068448355 | 3.0788E-126 | 6376 | CX3CL1 |
| 0.068448224 | 3.0821E-126 | 5330 | PLCB2 |
| 0.068445615 | 3.1502E-126 | 8321 | FZD1 |
| 0.068427938 | 3.6531E-126 | 167555 | FAM151B |
| 0.068418499 | 3.9536E-126 | 342979 | AC022098.3 |
| 0.068392715 | 4.9065E-126 | 79642 | ARSJ |
| 0.068392671 | 4.9083E-126 | 6045 | RNF2 |
| 0.068387784 | 5.1132E-126 | 284184 | C17orf89 |
| 0.06838231 | 5.353E-126 | 151230 | KLHL23 |
| 0.06837526 | 5.6784E-126 | 347744 | C6orf52 |
| 0.068369427 | 5.9625E-126 | 24148 | PRPF6 |
| 0.068346983 | 7.1944E-126 | 10882 | AC015936.3 |
| 0.068324032 | 8.7172E-126 | 10950 | BTG3 |
| 0.06832401 | 8.7188E-126 | 55425 | KIAA1704 |
| 0.068305242 | 1.02E-125 | 29993 | PACSIN1 |
| 0.068277553 | 1.2857E-125 | 162282 | ANKFN1 |
| 0.068236651 | 1.8096E-125 | 80772 | GLTPD1 |
| 0.068194907 | 2.5643E-125 | 2846 | LPAR4 |
| 0.068175684 | 3.0105E-125 | 64755 | C16orf58 |
| 0.068171389 | 3.1204E-125 | 8349 | HIST2H2BE |
| 0.068143719 | 3.9307E-125 | 93650 | ACPT |
| 0.068120355 | 4.7764E-125 | 201456 | FBXO15 |
| 0.068084855 | 6.4214E-125 | 22897 | CEP164 |
| 0.068069825 | 7.2783E-125 | 10155 | TRIM28 |
| 0.068060967 | 7.8358E-125 | 8677 | STX10 |
| 0.068058184 | 8.0196E-125 | 54677 | CROT |
| 0.068056638 | 8.1235E-125 | 84955 | NUDCD1 |
| 0.068052029 | 8.4415E-125 | 121053 | C12orf45 |
| 0.068037962 | 9.4908E-125 | 29125 | C11orf21 |
| 0.068020257 | 1.0999E-124 | 23168 | RTF1 |
| 0.068006064 | 1.2378E-124 | 3560 | IL2RB |
| 0.068003317 | 1.2664E-124 | 6492 | SIM1 |
| 0.067991965 | 1.3919E-124 | 10934 | MORF4 |
| 0.067979343 | 1.5461E-124 | 1032 | CDKN2D |
| 0.067977087 | 1.5754E-124 | 2013 | EMP2 |
| 0.067972683 | 1.6342E-124 | 65065 | NBEAL1 |
| 0.067929972 | 2.3313E-124 | 53826 | FXYD6 |
| 0.06792644 | 2.4008E-124 | 10420 | TESK2 |
| 0.067923307 | 2.4642E-124 | 10093 | ARPC4 |
| 0.067919469 | 2.5441E-124 | 3120 | HLA-DQB2 |
| 0.067891584 | 3.2077E-124 | 115123 | MARCHF3 |
| 0.067869411 | 3.8567E-124 | 27173 | SLC39A1 |
| 0.067866797 | 3.9413E-124 | 11163 | NUDT4 |
| 0.067858847 | 4.2104E-124 | 388796 | RP4-564F22.1 |
| 0.06785348 | 4.4024E-124 | 55959 | SULF2 |
| 0.067844539 | 4.7417E-124 | 10160 | FARP1 |
| 0.067823509 | 5.6464E-124 | 2046 | EPHA8 |
| 0.067820956 | 5.7674E-124 | 51427 | ZNF588 |
| 0.06781655 | 7.9104E-124 | 54538 | ROBO4 |
| 0.067808842 | 6.3775E-124 | 155038 | GIMAP8 |
| 0.067793418 | 7.2484E-124 | 10988 | METAP2 |
| 0.067792184 | 7.323E-124 | 139886 | SPIN4 |
| 0.067781449 | 8.0053E-124 | 64376 | IKZF5 |
| 0.067776378 | 8.3493E-124 | 7932 | OR2H2 |

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| 0.189237203 | 0.006011085 | 0.097 | 1 | 4943 | TBC1D25 |
| 0.18923202 | 0.006012484 | 0.109 | 1 | 2900 | GRIK4 |
| 0.189229429 | 0.006013183 | 0.08 | 1 | 343472 | BARHL2 |
| 0.189193147 | 0.006022983 | 0.117 | 1 | 221143 | N6AMT2 |
| 0.189180189 | 0.006026486 | 0.116 | 1 | 3315 | HSPB1 |
| 0.189114104 | 0.006044382 | 0.086 | 1 | 167227 | DCP2 |
| 0.189103737 | 0.006047193 | 0.108 | 1 | 51663 | ZFR |
| 0.189097258 | 0.006048951 | 0.11 | 1 | 26017 | FAM32A |
| 0.189053202 | 0.006060916 | 0.121 | 1 | 654817 | NCF1C |
| 0.189051906 | 0.006061268 | 0.114 | 1 | 11052 | CPSF6 |
| 0.189040244 | 0.006064439 | 0.109 | 1 | 25999 | CLIP3 |
| 0.189037652 | 0.006065144 | 0.121 | 1 | 8721 | EDF1 |
| 0.189009145 | 0.006072902 | 0.107 | 1 | 54964 | C1orf56 |
| 0.188933989 | 0.006093399 | 0.099 | 1 | 7105 | TSPAN6 |
| 0.188930102 | 0.00609446 | 0.114 | 1 | 2863 | GPR39 |
| 0.188926215 | 0.006095522 | 0.092 | 1 | 770 | CA11 |
| 0.188914553 | 0.006098709 | 0.117 | 1 | 9015 | TAF1A |
| 0.188876975 | 0.006108989 | 0.123 | 1 | 653635 | WASH5P |
| 0.188826439 | 0.006122837 | 0.106 | 1 | 340665 | CYP26C1 |
| 0.188803115 | 0.006129238 | 0.116 | 1 | 7225 | TRPC6 |
| 0.188801819 | 0.006129594 | 0.112 | 1 | 56986 | DTWD1 |
| 0.188749988 | 0.00614384 | 0.097 | 1 | 51232 | CRIM1 |
| 0.188700748 | 0.006157402 | 0.11 | 1 | 54456 | MOV10L1 |
| 0.188700748 | 0.006157402 | 0.087 | 1 | 149992 | ANKRD30BP2 |
| 0.188691677 | 0.006159903 | 0.109 | 1 | 51388 | NIP7 |
| 0.188686494 | 0.006161333 | 0.104 | 1 | 8000 | PSCA |
| 0.188600972 | 0.006184965 | 0.105 | 1 | 23640 | HSPBP1 |
| 0.188518042 | 0.006207958 | 0.108 | 1 | 51617 | AC093310.1 |
| 0.188454549 | 0.006225614 | 0.097 | 1 | 7343 | UBTF |
| 0.188420858 | 0.006235001 | 0.099 | 1 | 256297 | PTF1A |
| 0.188415675 | 0.006236446 | 0.103 | 1 | 27306 | PGDS |
| 0.188359956 | 0.006252001 | 0.114 | 1 | 339512 | C1orf110 |
| 0.188343111 | 0.006256711 | 0.105 | 1 | 4734 | NEDD4 |
| 0.188322379 | 0.006262512 | 0.105 | 1 | 8804 | CREG1 |
| 0.188321083 | 0.006262874 | 0.109 | 1 | 65985 | AACS |
| 0.188178546 | 0.006302887 | 0.12 | 1 | 285755 | PPIL6 |
| 0.188162997 | 0.006307266 | 0.09 | 1 | 9502 | XAGE2B |
| 0.188150039 | 0.006310917 | 0.105 | 1 | 726 | CAPN5 |
| 0.188099503 | 0.006325174 | 0.115 | 1 | 2171 | FABP5 |
| 0.188090433 | 0.006327736 | 0.099 | 1 | 10428 | CFDP1 |
| 0.187942713 | 0.006369592 | 0.1 | 1 | 1842 | ECM2 |
| 0.187929755 | 0.006373276 | 0.093 | 1 | 93974 | ATPIF1 |
| 0.187844234 | 0.006397634 | 0.102 | 1 | 21 | ABCA3 |
| 0.187736683 | 0.006428384 | 0.111 | 1 | 118980 | SFXN2 |
| 0.187705585 | 0.006437301 | 0.096 | 1 | 56171 | DNAH7 |
| 0.187705585 | 0.006437301 | 0.098 | 1 | 401563 | C9orf139 |
| 0.187680965 | 0.006444367 | 0.107 | 1 | 4927 | NUP88 |
| 0.187587668 | 0.006471209 | 0.113 | 1 | 23054 | NCOA6 |
| 0.187464568 | 0.006506778 | 0.131 | 1 | 51225 | ABI3 |
| 0.187441244 | 0.006513537 | 0.098 | 1 | 91373 | UAP1L1 |
| 0.187392004 | 0.006527827 | 0.094 | 1 | 51474 | LIMA1 |
| 0.187336286 | 0.006544031 | 0.096 | 1 | 2746 | GLUD1 |
| 0.187322032 | 0.006548182 | 0.121 | 1 | 9973 | CCS |
| 0.187248172 | 0.006569729 | 0.086 | 1 | 474381 | H2AFB2 |
| 0.187158763 | 0.006595897 | 0.113 | 1 | 5191 | PEX7 |
| 0.187117298 | 0.006608065 | 0.095 | 1 | 10162 | U47924.1 |
| 0.18700586 | 0.006640865 | 0.092 | 1 | 341359 | SYT10 |
| 0.186999381 | 0.006642776 | 0.124 | 1 | 4151 | MB |
| 0.186973466 | 0.006650427 | 0.103 | 1 | 2555 | GABRA2 |
| 0.186834816 | 0.006691492 | 0.108 | 1 | 1000 | CDH2 |
| 0.186829633 | 0.006693031 | 0.118 | 1 | 10776 | ARPP19 |
| 0.186792056 | 0.006704203 | 0.089 | 1 | 28982 | FLVCR1 |
| 0.186786872 | 0.006705745 | 0.096 | 1 | 200150 | PLD5 |
| 0.186728562 | 0.006723116 | 0.105 | 1 | 644538 | Z83826.4 |
| 0.1867169 | 0.006726595 | 0.099 | 1 | 3111 | HLA-DOA |
| 0.186703942 | 0.006730462 | 0.117 | 1 | 11147 | HHLA3 |
| 0.186696167 | 0.006732784 | 0.104 | 1 | 401827 | MSLNL |
| 0.186687097 | 0.006735493 | 0.092 | 1 | 7325 | UBE2E2 |
| 0.186653406 | 0.006745564 | 0.104 | 1 | 83877 | TM2D2 |
| 0.186635265 | 0.006750993 | 0.117 | 1 | 1633 | DCK |
| 0.186614533 | 0.006757202 | 0.112 | 1 | 5228 | PGF |
| 0.186422757 | 0.006814877 | 0.083 | 1 | 5920 | RARRES3 |
| 0.186372221 | 0.006830148 | 0.105 | 1 | 55530 | SVOP |
| 0.186369629 | 0.006830932 | 0.108 | 1 | 55315 | SLC29A3 |
| 0.186346305 | 0.006837992 | 0.123 | 1 | 1398 | CRK |
| 0.186332052 | 0.006842309 | 0.094 | 1 | 113457 | TUBA3D |
| 0.18632946 | 0.006843094 | 0.097 | 1 | 7851 | MALL |
| 0.186142867 | 0.006899842 | 0.116 | 1 | 79160 | MGC4294 |
| 0.186085852 | 0.006917265 | 0.118 | 1 | 8862 | APLN |
| 0.1860405 | 0.006931152 | 0.116 | 1 | 4947 | OAZ2 |
| 0.186026246 | 0.006935522 | 0.094 | 1 | 348487 | FAM131C |
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| 0.067774668 | 8.4686E-124 | 79012 | CAMKV |
| 0.067762088 | 9.4001E-124 | 723790 | HIST2H2AA4 |
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| 0.06773551 | 1.1718E-123 | 2521 | FUS |
| 0.067733769 | 1.1888E-123 | 325 | APCS |
| 0.067717675 | 1.3585E-123 | 3699 | ITIH3 |
| 0.067711881 | 1.4254E-123 | 255031 | FLJ35390 |
| 0.067700121 | 1.5713E-123 | 439933 | MGC42157 |
| 0.067693174 | 1.6644E-123 | 11092 | C9orf9 |
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| 0.06765074 | 2.3654E-123 | 3948 | LDHC |
| 0.06758643 | 4.028E-123 | 10019 | SH2B3 |
| 0.0675838 | 4.1166E-123 | 64222 | TOR3A |
| 0.067549178 | 5.4814E-123 | 727 | C5 |
| 0.067542875 | 5.7747E-123 | 169714 | QSOX2 |
| 0.067537946 | 6.0148E-123 | 388692 | LOC388692 |
| 0.067520688 | 6.9371E-123 | 8573 | CASK |
| 0.067498349 | 8.3436E-123 | 85457 | KIAA1737 |
| 0.067483606 | 9.4242E-123 | 80063 | ATF7IP2 |
| 0.067472306 | 1.0346E-122 | 140886 | PABPC5 |
| 0.067448392 | 1.2605E-122 | 84671 | ZNF347 |
| 0.067442849 | 1.3195E-122 | 54520 | CCDC93 |
| 0.067431935 | 1.4439E-122 | 342357 | ZKSCAN2 |
| 0.067431871 | 1.4447E-122 | 344405 | NCRNA00117 |
| 0.067408957 | 1.7454E-122 | 55758 | RCOR3 |
| 0.067360701 | 2.5987E-122 | 115650 | TNFRSF13C |
| 0.067353288 | 2.7625E-122 | 441161 | OOEP |
| 0.067349951 | 2.8396E-122 | 554203 | JPX |
| 0.067334476 | 3.2259E-122 | 55048 | VPS37C |
| 0.067307501 | 4.0289E-122 | 4071 | TM4SF1 |
| 0.067262379 | 5.8422E-122 | 205147 | FAM123C |
| 0.067256755 | 6.1191E-122 | 285958 | C7orf40 |
| 0.067250302 | 6.4529E-122 | 55593 | OTUD5 |
| 0.067247921 | 6.5807E-122 | 84960 | KIAA1984 |
| 0.06724369 | 6.8139E-122 | 7567 | ZNF19 |
| 0.067228385 | 7.7286E-122 | 8273 | SLC10A3 |
| 0.067212837 | 8.7833E-122 | 7003 | TEAD1 |
| 0.067201212 | 9.6648E-122 | 29945 | ANAPC4 |
| 0.067191034 | 1.0509E-121 | 729975 | AC018755.8 |
| 0.067181898 | 1.1329E-121 | 149111 | CNIH3 |
| 0.067161954 | 1.3347E-121 | 10715 | LASS1 |
| 0.067160322 | 1.3528E-121 | 158880 | USP51 |
| 0.067157737 | 1.3818E-121 | 55860 | ACTR10 |
| 0.067149622 | 1.4771E-121 | 10457 | GPNMB |
| 0.067146918 | 1.5103E-121 | 4607 | MYBPC3 |
| 0.067077112 | 2.6798E-121 | 4582 | MUC1 |
| 0.067042991 | 3.546E-121 | 10013 | HDAC6 |
| 0.067042763 | 3.5527E-121 | 646517 | LOC646517 |
| 0.067042309 | 3.5659E-121 | 1990 | CELA1 |
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| 0.066646777 | 9.0702E-120 | 80174 | DBF4B |
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| 0.18077961 | 0.008721342 | 0.114 | 1 | 91851 | CHRDL1 |
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| 0.064888202 | 1.274E-113 | 317 | APAF1 |
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| 0.179251878 | 0.009313031 | 0.133 | 1 | 23326 | USP22 |
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| 0.179153398 | 0.009352366 | 0.151 | 1 | 732253 | RP11-535K1.1 |
| 0.179135257 | 0.009359628 | 0.126 | 1 | 115827 | RAB3C |
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| 0.178575478 | 0.009586186 | 0.132 | 1 | 23161 | SNX13 |
| 0.178571591 | 0.009587777 | 0.109 | 1 | 9858 | KIAA0649 |
| 0.178509393 | 0.009613251 | 0.142 | 1 | 124790 | HEXIM2 |
| 0.178496435 | 0.009618566 | 0.097 | 1 | 26140 | TTLL3 |
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| 0.178423871 | 0.009648377 | 0.15 | 1 | 169693 | C9orf71 |
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| 0.178316321 | 0.009692712 | 0.12 | 1 | 8208 | CHAF1B |
| 0.178305954 | 0.009696994 | 0.095 | 1 | 7079 | TIMP4 |
| 0.178250236 | 0.009720043 | 0.118 | 1 | 283310 | C12orf64 |
| 0.17814139 | 0.009765208 | 0.132 | 1 | 55256 | ADI1 |
| 0.178127136 | 0.009771136 | 0.128 | 1 | 146562 | C16orf71 |
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| 0.178053276 | 0.009801906 | 0.105 | 1 | 23541 | SEC14L2 |
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| 0.17713586 | 0.010191322 | 0.139 | 1 | 10576 | CCT2 |
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| 0.176906506 | 0.010290791 | 0.125 | 1 | 64968 | MRPS6 |
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| 0.176563123 | 0.01044132 | 0.124 | 1 | 10613 | ERLIN1 |
| 0.176548869 | 0.01044761 | 0.134 | 1 | 100130331 | RP11-193H5.1 |
| 0.176547573 | 0.010448182 | 0.127 | 1 | 55016 | MARCHF1 |
| 0.176524249 | 0.010458483 | 0.12 | 1 | 6809 | STX3 |
| 0.176515179 | 0.010462491 | 0.145 | 1 | 11034 | DSTN |
| 0.176454277 | 0.01048944 | 0.122 | 1 | 221409 | SPATS1 |
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| 0.176235289 | 0.010586847 | 0.112 | 1 | 4291 | MLF1 |
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| 0.176169204 | 0.010616399 | 0.141 | 1 | 91687 | CENPL |
| 0.176162725 | 0.0106193 | 0.142 | 1 | 3106 | HLA-B |

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| 0.063701563 | 1.4456E-109 | 55191 | NADSYN1 |
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| 0.063679954 | 1.7108E-109 | 60677 | BRUNOL6 |
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| 0.063608215 | 2.9912E-109 | 374403 | TBC1D10C |
| 0.063602806 | 3.1198E-109 | 10865 | ARID5A |
| 0.063594244 | 3.3347E-109 | 23673 | STX12 |
| 0.063586605 | 3.539E-109 | 51134 | CCDC41 |
| 0.063570577 | 4.009E-109 | 3430 | IFI35 |
| 0.063525884 | 5.6752E-109 | 56890 | MDM1 |
| 0.063496123 | 7.152E-109 | 10654 | PMVK |
| 0.063493971 | 7.2726E-109 | 51582 | AZIN1 |
| 0.063459881 | 9.4775E-109 | 161394 | SAMD15 |
| 0.063427111 | 1.2223E-108 | 83440 | ADPGK |
| 0.0634236 | 1.2561E-108 | 516 | ATP5G1 |
| 0.06342209 | 1.2709E-108 | 5931 | RBBP7 |
| 0.063420606 | 1.2856E-108 | 55769 | ZNF83 |
| 0.063391332 | 1.6134E-108 | 6815 | STYX |
| 0.063357554 | 2.0966E-108 | 138428 | PTRH1 |
| 0.063334765 | 2.5017E-108 | 55268 | ECHDC2 |
| 0.063314953 | 2.9168E-108 | 3784 | KCNQ1 |
| 0.063297995 | 3.3263E-108 | 55716 | LMBR1L |
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| 0.063273877 | 4.0094E-108 | 90333 | ZNF468 |
| 0.063266102 | 4.2581E-108 | 5641 | LGMN |
| 0.063228476 | 5.6975E-108 | 9274 | BCL7C |
| 0.063224349 | 5.8824E-108 | 256364 | EML3 |
| 0.063218276 | 6.1654E-108 | 4123 | MAN2C1 |
| 0.063212129 | 6.4656E-108 | 55748 | CNDP2 |
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| 0.063195053 | 7.3785E-108 | 401036 | ASB18 |
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| 0.063122187 | 1.2958E-107 | 51379 | CRLF3 |
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| 0.063083985 | 1.7404E-107 | 728532 | LOC728532 |
| 0.063083556 | 1.7462E-107 | 79632 | FAM184A |
| 0.063074184 | 1.8772E-107 | 54991 | C1orf159 |
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| 0.063063773 | 2.0342E-107 | 160418 | TMTC3 |
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| 0.063035807 | 2.5241E-107 | 27250 | PDCD4 |
| 0.063035672 | 2.5267E-107 | 51475 | CABP2 |
| 0.063033441 | 2.5706E-107 | 9340 | GLP2R |
| 0.063029499 | 2.65E-107 | 23187 | PHLDB1 |
| 0.063017872 | 2.8985E-107 | 2569 | GABRR1 |
| 0.062998162 | 3.3742E-107 | 1842 | ECM2 |
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| 0.062862662 | 9.5793E-107 | 9586 | CREB5 |
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| 0.062837301 | 1.1642E-106 | 55106 | SLFN12 |
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| 0.062811755 | 1.4169E-106 | 400579 | FLJ35934 |
| 0.062798706 | 1.5663E-106 | 136895 | C7orf31 |
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| 0.062760295 | 2.1039E-106 | 50865 | HEBP1 |
| 0.062758062 | 2.1403E-106 | 9902 | MRC2 |
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| 0.176064245 | 0.010663484 | 0.112 | 1 | 27255 | CNTN6 |
| 0.176038329 | 0.010675138 | 0.125 | 1 | 23683 | PRKD3 |
| 0.17597354 | 0.010704323 | 0.115 | 1 | 29082 | CHMP4A |
| 0.175963174 | 0.010709 | 0.124 | 1 | 51222 | ZNF219 |
| 0.175952807 | 0.010713677 | 0.136 | 1 | 8115 | TCL1A |
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| 0.175763623 | 0.010799368 | 0.133 | 1 | 51296 | SLC15A3 |
| 0.175723453 | 0.010817641 | 0.116 | 1 | 5600 | MAPK11 |
| 0.175715679 | 0.010821181 | 0.138 | 1 | 55647 | RAB20 |
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| 0.175645706 | 0.010853085 | 0.113 | 1 | 22979 | EFR3B |
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| 0.175479846 | 0.010929041 | 0.13 | 1 | 339105 | AC135050.2 |
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| 0.175338605 | 0.010994093 | 0.115 | 1 | 286464 | CXorf59 |
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| 0.175273816 | 0.011024047 | 0.121 | 1 | 3801 | KIFC3 |
| 0.175236238 | 0.011041454 | 0.144 | 1 | 2947 | GSTM3 |
| 0.175053532 | 0.011126432 | 0.122 | 1 | 133383 | C5orf35 |
| 0.175018546 | 0.011142771 | 0.139 | 1 | 64092 | SAMSN1 |
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| 0.175015954 | 0.011143982 | 0.104 | 1 | 146760 | RTN4RL1 |
| 0.174944686 | 0.011177332 | 0.13 | 1 | 8277 | TKTL1 |
| 0.174938207 | 0.011180368 | 0.151 | 1 | 55829 | AC023024.1 |
| 0.174930433 | 0.011184013 | 0.144 | 1 | 147495 | APCDD1 |
| 0.1749097 | 0.011193736 | 0.146 | 1 | 5652 | PRSS8 |
| 0.174868235 | 0.011213206 | 0.127 | 1 | 353355 | ZNF233 |
| 0.174834544 | 0.011229047 | 0.106 | 1 | 115557 | GEFT |
| 0.174829361 | 0.011231486 | 0.153 | 1 | 100506049 | AC005014.1 |
| 0.174771051 | 0.011258955 | 0.144 | 1 | 147991 | DPY19L3 |
| 0.174767163 | 0.011260789 | 0.123 | 1 | 84614 | ZBTB37 |
| 0.17472829 | 0.011279137 | 0.142 | 1 | 25855 | BRMS1 |
| 0.174717924 | 0.011284034 | 0.137 | 1 | 521 | ATP5I |
| 0.174693304 | 0.011295673 | 0.149 | 1 | 4493 | MT1E |
| 0.174689416 | 0.011297512 | 0.121 | 1 | 80351 | TNKS2 |
| 0.174642768 | 0.011319596 | 0.13 | 1 | 2937 | GSS |
| 0.174589641 | 0.011344795 | 0.118 | 1 | 90060 | CCDC120 |
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| 0.17434992 | 0.011459112 | 0.115 | 1 | 22808 | MRAS |
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| 0.174287723 | 0.011488938 | 0.13 | 1 | 440278 | CATSPER2P1 |
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| 0.17419313 | 0.01153443 | 0.137 | 1 | 445328 | ARHGEF5L |
| 0.174141299 | 0.011559424 | 0.125 | 1 | 1730 | DIAPH2 |
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| 0.174019495 | 0.01161835 | 0.128 | 1 | 5662 | PSD |
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| 0.173921015 | 0.011666185 | 0.149 | 1 | 160418 | TMTC3 |
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| 0.173740901 | 0.011754123 | 0.141 | 1 | 4489 | MT1A |
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| 0.173637238 | 0.011804999 | 0.13 | 1 | 5956 | OPN1LW |
| 0.173587998 | 0.011829233 | 0.163 | 1 | 29766 | TMOD3 |
| 0.173485631 | 0.011879756 | 0.149 | 1 | 3125 | HLA-DRB3 |
| 0.173468786 | 0.011888088 | 0.128 | 1 | 145482 | PTGR2 |
| 0.173352165 | 0.011945912 | 0.157 | 1 | 3712 | IVD |
| 0.173324954 | 0.01195944 | 0.132 | 1 | 79605 | PGBD5 |
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| 0.173050247 | 0.012096766 | 0.148 | 1 | 838 | CASP5 |
| 0.173038585 | 0.012102627 | 0.128 | 1 | 57124 | CD248 |
| 0.172950472 | 0.012146988 | 0.132 | 1 | 79033 | ERI3 |
| 0.17289864 | 0.012173149 | 0.118 | 1 | 64151 | NCAPG |
| 0.172881795 | 0.012181662 | 0.13 | 1 | 22999 | RIMS1 |
| 0.172868837 | 0.012188214 | 0.15 | 1 | 4693 | NDP |
| 0.172850696 | 0.012197392 | 0.116 | 1 | 7576 | ZNF28 |
| 0.172775541 | 0.012235481 | 0.154 | 1 | 6609 | SMPD1 |
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| 0.062657987 | 4.6128E-106 | 642954 | RBBP4P1 |
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| 0.062611664 | 6.579E-106 | 344787 | ZNF860 |
| 0.062607108 | 6.8126E-106 | 8723 | SNX4 |
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| 0.062561475 | 9.6624E-106 | 404636 | FAM45A |
| 0.062548351 | 1.0683E-105 | 8516 | ITGA8 |
| 0.06252287 | 1.2983E-105 | 127933 | UHMK1 |
| 0.06250711 | 1.4647E-105 | 10109 | ARPC2 |
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| 0.062488712 | 1.686E-105 | 5908 | RAP1B |
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| 0.062446063 | 2.3358E-105 | 8214 | DGCR6 |
| 0.062441628 | 2.4163E-105 | 81617 | CAB39L |
| 0.062426507 | 2.7122E-105 | 149992 | ANKRD30BP2 |
| 0.062425816 | 2.7265E-105 | 337971 | KRTAP19-4 |
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| 0.062284962 | 7.9863E-105 | 648771 | LOC648771 |
| 0.062277657 | 8.4435E-105 | 116068 | AC027323.1 |
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| 0.062134764 | 2.5054E-104 | 83987 | CCDC8 |
| 0.062109196 | 3.0429E-104 | 8558 | CDK10 |
| 0.0621057 | 3.1248E-104 | 51337 | C8orf55 |
| 0.06208804 | 3.5735E-104 | 64420 | SUSD1 |
| 0.062084779 | 3.6632E-104 | 22878 | KIAA1012 |
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| 0.062043358 | 5.0173E-104 | 57571 | ATPGD1 |
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| 0.062026163 | 5.7168E-104 | 659 | BMPR2 |
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| 0.061762916 | 4.1975E-103 | 23643 | LY96 |
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| 0.061663531 | 8.8901E-103 | 201973 | CCDC111 |
| 0.06164002 | 1.0615E-102 | 389073 | C2orf80 |
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| 0.172506017 | 0.012372938 | 0.141 | 1 | 858 | CAV2 |
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| 0.17196697 | 0.012651939 | 0.114 | 1 | 552900 | BOLA2 |
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| 0.171816659 | 0.012730719 | 0.124 | 1 | 2890 | GRIA1 |
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| 0.171744095 | 0.012768904 | 0.144 | 1 | 79149 | ZSCAN5A |
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| 0.171535474 | 0.01287925 | 0.126 | 1 | 6187 | RPS2 |
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| 0.171453839 | 0.012922657 | 0.148 | 1 | 6234 | RPS28 |
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| 0.171260767 | 0.01302583 | 0.138 | 1 | 91012 | LASS5 |
| 0.171259471 | 0.013026524 | 0.139 | 1 | 8736 | MYOM1 |
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| 0.171201161 | 0.013057828 | 0.152 | 1 | 27159 | CHIA |
| 0.171155809 | 0.01308222 | 0.148 | 1 | 51473 | DCDC2 |
| 0.171058625 | 0.013134625 | 0.139 | 1 | 923 | CD6 |
| 0.171056033 | 0.013136025 | 0.157 | 1 | 6953 | TCP10 |
| 0.171053441 | 0.013137425 | 0.159 | 1 | 375748 | C9orf102 |
| 0.170999018 | 0.013166858 | 0.148 | 1 | 56902 | PNO1 |
| 0.170975694 | 0.01317949 | 0.122 | 1 | 340260 | UNCX |
| 0.170938117 | 0.013199863 | 0.159 | 1 | 64857 | PLEKHG2 |
| 0.170932933 | 0.013202676 | 0.147 | 1 | 3619 | INCENP |
| 0.170913497 | 0.013213227 | 0.148 | 1 | 4093 | SMAD9 |
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| 0.170856482 | 0.013244219 | 0.137 | 1 | 718 | C3 |
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| 0.170751523 | 0.01330144 | 0.129 | 1 | 157773 | C8orf48 |
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| 0.170583071 | 0.01339373 | 0.146 | 1 | 7780 | SLC30A2 |
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| 0.170507916 | 0.013435087 | 0.154 | 1 | 2677 | GGCX |
| 0.170417211 | 0.01348515 | 0.15 | 1 | 56918 | C2orf83 |
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| 0.169972756 | 0.013732835 | 0.166 | 1 | 4284 | MIP |
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| 0.169874276 | 0.013788254 | 0.146 | 1 | 652968 | GATSL3 |
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| 0.169734332 | 0.013867344 | 0.158 | 1 | 2547 | XRCC6 |
| 0.169694162 | 0.013890119 | 0.144 | 1 | 8732 | RNGTT |
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| 0.169607345 | 0.013939456 | 0.144 | 1 | 2671 | GFER |
| 0.169582725 | 0.013953474 | 0.144 | 1 | 6093 | ROCK1 |
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| 0.169563288 | 0.013964551 | 0.13 | 1 | 343450 | KCNT2 |
| 0.1695594 | 0.013966767 | 0.149 | 1 | 26037 | SIPA1L1 |
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| 0.169488132 | 0.014007451 | 0.157 | 1 | 6189 | RPS3AP47 |
| 0.169486836 | 0.014008192 | 0.154 | 1 | 1768 | DNAH6 |
| 0.169420751 | 0.014046013 | 0.12 | 1 | 590 | BCHE |
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| 0.061440204 | 4.7793E-102 | 10204 | NUTF2 |
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| 0.061402631 | 6.3387E-102 | 348262 | AC174470.1 |
| 0.061394953 | 6.715E-102 | 115752 | DIS3L |
| 0.061388654 | 7.0404E-102 | 548593 | GIYD2 |
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| 0.061379931 | 7.5171E-102 | 59344 | ALOXE3 |
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| 0.06137545 | 7.7744E-102 | 147111 | NOTUM |
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| 0.061329741 | 1.0957E-101 | 131831 | C3orf44 |
| 0.061320543 | 1.174E-101 | 2079 | ERH |
| 0.061311127 | 1.2599E-101 | 3265 | HRAS |
| 0.061300057 | 1.369E-101 | 29015 | SLC43A3 |
| 0.061293037 | 1.443E-101 | 168544 | ZNF467 |
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| 0.061252056 | 1.962E-101 | 345557 | PLCXD3 |
| 0.061251465 | 1.9707E-101 | 83886 | PRSS27 |
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| 0.061206023 | 2.7699E-101 | 54870 | QRICH1 |
| 0.061203704 | 2.8184E-101 | 1903 | S1PR3 |
| 0.061202442 | 2.8452E-101 | 8839 | WISP2 |
| 0.061168478 | 3.6689E-101 | 8655 | DYNLL1 |
| 0.061154827 | 4.0635E-101 | 9997 | SCO2 |
| 0.061118177 | 5.3452E-101 | 165100 | C2orf57 |
| 0.061110212 | 5.6732E-101 | 219960 | OR10Q1 |
| 0.061089431 | 6.6267E-101 | 56243 | KIAA1217 |
| 0.061079735 | 7.1248E-101 | 3050 | HBZ |
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| 0.061052107 | 8.7583E-101 | 339524 | LOC339524 |
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| 0.060956675 | 1.7856E-100 | 84641 | HIATL1 |
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| 0.060681706 | 1.3817E-99 | 55276 | PGM2 |
| 0.06063789 | 1.9126E-99 | 26519 | TIMM10 |
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| 0.060555391 | 3.5259E-99 | 11168 | PSIP1 |
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| 0.060501435 | 5.2578E-99 | 130502 | TTC32 |

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| 0.169398723 | 0.014058639 | 0.14 | 1 | 643201 | RP11-844P9.2 |
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| 0.169217313 | 0.014163003 | 0.156 | 1 | 4060 | LUM |
| 0.169213426 | 0.014165247 | 0.127 | 1 | 81857 | MED25 |
| 0.169179735 | 0.014184706 | 0.164 | 1 | 84902 | CCDC123 |
| 0.169166777 | 0.014192197 | 0.126 | 1 | 349565 | NMNAT3 |
| 0.169098101 | 0.014231955 | 0.15 | 1 | 6286 | S100P |
| 0.169086439 | 0.014238716 | 0.119 | 1 | 57537 | SORCS2 |
| 0.169077368 | 0.014243977 | 0.147 | 1 | 4946 | OAZ1 |
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| 0.168921874 | 0.014334423 | 0.174 | 1 | 114036 | LINC00310 |
| 0.168899845 | 0.014347277 | 0.155 | 1 | 7188 | TRAF5 |
| 0.168875226 | 0.014361655 | 0.133 | 1 | 223075 | CCDC129 |
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| 0.168397081 | 0.01464341 | 0.159 | 1 | 27238 | GPKOW |
| 0.16835432 | 0.014668842 | 0.162 | 1 | 51154 | MRTO4 |
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| 0.167706427 | 0.01505894 | 0.163 | 1 | 23173 | METAP1 |
| 0.167692173 | 0.015067624 | 0.134 | 1 | 10577 | NPC2 |
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| 0.166668502 | 0.015702827 | 0.163 | 1 | 65251 | ZNF649 |
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| 0.166404162 | 0.015870612 | 0.151 | 1 | 11156 | PTP4A3 |
| 0.166321232 | 0.015923573 | 0.145 | 1 | 85441 | RP4-697K14.1 |
| 0.166286246 | 0.015945962 | 0.172 | 1 | 328 | APEX1 |
| 0.166142413 | 0.016038295 | 0.146 | 1 | 1635 | DCTD |
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| 0.163895521 | 0.017542567 | 0.161 | 1 | 157376 | FER1L6-AS2 |
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| 0.15964016 | 0.020730997 | 0.149 | 1 | 8557 | TCAP |
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| 0.057111561 | 2.05361E-88 | 54360 | CYTL1 |
| 0.057106033 | 2.13448E-88 | 56120 | PCDHGB8P |
| 0.057092178 | 2.35138E-88 | 60509 | AGBL5 |
| 0.057091226 | 2.36706E-88 | 5798 | PTPRN |
| 0.057073907 | 2.67137E-88 | 390212 | GPR152 |
| 0.057072955 | 2.68918E-88 | 83983 | TSSK6 |
| 0.057066916 | 2.80499E-88 | 2629 | GBA |
| 0.05706424 | 2.85788E-88 | 79934 | ADCK4 |
| 0.05704341 | 3.30509E-88 | 7301 | TYRO3 |
| 0.057029281 | 4.47347E-88 | 353116 | RILPL1 |
| 0.057015534 | 4.01462E-88 | 5894 | RAF1 |
| 0.057004684 | 4.33021E-88 | 23002 | DAAM1 |
| 0.056987872 | 4.86876E-88 | 79753 | SNIP1 |
| 0.056971381 | 5.46184E-88 | 6754 | SSTR4 |
| 0.056967626 | 5.60667E-88 | 93621 | MRFAP1 |
| 0.056962905 | 5.79421E-88 | 100131479 | LOC100131479 |
| 0.056957309 | 6.02462E-88 | 8843 | HCAR3 |
| 0.056934562 | 7.0591E-88 | 572 | BAD |
| 0.056894662 | 9.31963E-88 | 126272 | EID2B |
| 0.056865184 | 1.14414E-87 | 6352 | CCL5 |
| 0.056860134 | 1.18504E-87 | 89894 | TMEM116 |
| 0.056840343 | 1.35992E-87 | 55785 | FGD6 |
| 0.056826024 | 1.50227E-87 | 1601 | DAB2 |
| 0.056805832 | 1.72861E-87 | 119016 | AGAP4 |
| 0.056805298 | 1.73504E-87 | 653641 | GOLGA6C |
| 0.056783695 | 2.01603E-87 | 79797 | ZNF408 |
| 0.056771046 | 2.20116E-87 | 4018 | LPA |
| 0.056751173 | 2.52685E-87 | 58512 | DLGAP3 |
| 0.05673376 | 2.85151E-87 | 283106 | CSNK2A1P |
| 0.0566859 | 3.97441E-87 | 26769 | SNORD81 |
| 0.05665623 | 4.88205E-87 | 5030 | P2RY4 |
| 0.056640145 | 5.45777E-87 | 80025 | PANK2 |
| 0.056635865 | 5.62203E-87 | 30009 | TBX21 |
| 0.056594368 | 7.49395E-87 | 6004 | RGS16 |
| 0.056588014 | 7.83094E-87 | 79172 | CENPO |
| 0.056574633 | 8.59089E-87 | 113540 | CMTM1 |
| 0.056554718 | 9.86025E-87 | 51063 | CALHM2 |
| 0.05654619 | 1.04594E-86 | 51611 | DPH5 |
| 0.056536715 | 1.11679E-86 | 50856 | CLEC4A |
| 0.056535711 | 1.12457E-86 | 128272 | ARHGEF19 |
| 0.056531474 | 1.15801E-86 | 8797 | TNFRSF10A |
| 0.05652935 | 1.17515E-86 | 51298 | THEG |
| 0.056524455 | 1.2156E-86 | 137868 | SGCZ |
| 0.056521438 | 1.24123E-86 | 375759 | C9orf50 |
| 0.056520564 | 1.24875E-86 | 4037 | LRP3 |
| 0.056509411 | 1.34885E-86 | 78995 | C17orf53 |
| 0.05647356 | 1.72807E-86 | 10970 | CKAP4 |
| 0.056470875 | 1.76043E-86 | 9232 | PTTG1 |
| 0.056470629 | 1.76342E-86 | 55210 | ATAD3A |
| 0.056449433 | 2.04144E-86 | 388567 | ZNF749 |
| 0.056447856 | 2.06379E-86 | 54625 | PARP14 |
| 0.056443472 | 2.12723E-86 | 4821 | NKX2-2 |
| 0.056442613 | 2.13987E-86 | 79710 | MORC4 |
| 0.056431695 | 2.30741E-86 | 8325 | FZD8 |
| 0.056423156 | 2.44751E-86 | 2318 | FLNC |
| 0.056421608 | 2.4738E-86 | 114131 | UCN3 |
| 0.056415216 | 2.58538E-86 | 388536 | ZNF790 |
| 0.056404399 | 2.78575E-86 | 64799 | IQCH |
| 0.056398067 | 2.91016E-86 | 51763 | INPP5K |
| 0.056386404 | 3.15398E-86 | 171391 | NS3BP |
| 0.056340404 | 4.33115E-86 | 2023 | ENO1 |
| 0.05630731 | 5.44044E-86 | 84650 | EBPL |
| 0.056268075 | 7.12793E-86 | 90480 | GADD45GIP1 |
| 0.05624563 | 8.31858E-86 | 6609 | SMPD1 |
| 0.056233428 | 9.04703E-86 | 10241 | CALCOCO2 |
| 0.056217828 | 1.00717E-85 | 56882 | CDC42SE1 |
| 0.056211468 | 1.0522E-85 | 79917 | MAGIX |
| 0.056204297 | 1.10539E-85 | 23218 | NBEAL2 |
| 0.056199755 | 1.14045E-85 | 8823 | FGF16 |

| | | | | | |
|---|---|---|---|---|---|
| 0.157069321 | 0.022891387 | 0.177 | 1 | 50801 | KCNK4 |
| 0.156939743 | 0.023005245 | 0.186 | 1 | 80115 | BAIAP2L2 |
| 0.156896982 | 0.023042926 | 0.19 | 1 | 27352 | SGSM3 |
| 0.156736304 | 0.02318499 | 0.167 | 1 | 2676 | GFRA3 |
| 0.156700022 | 0.023217173 | 0.187 | 1 | 100129583 | FAM47E |
| 0.156670219 | 0.023243638 | 0.19 | 1 | 3385 | ICAM3 |
| 0.156636529 | 0.023273587 | 0.162 | 1 | 29968 | PSAT1 |
| 0.156592472 | 0.023312801 | 0.192 | 1 | 3303 | HSPA1A |
| 0.15658081 | 0.02332319 | 0.207 | 1 | 6284 | S100A13 |
| 0.156541936 | 0.023357852 | 0.167 | 1 | 55148 | UBR7 |
| 0.156535458 | 0.023363633 | 0.141 | 1 | 3885 | KRT34 |
| 0.15653157 | 0.023367102 | 0.202 | 1 | 57529 | RGAG1 |
| 0.156462894 | 0.023428466 | 0.196 | 1 | 55228 | PNMAL1 |
| 0.15637478 | 0.023507401 | 0.184 | 1 | 55150 | C19orf73 |
| 0.156309991 | 0.023565588 | 0.189 | 1 | 253512 | SLC25A30 |
| 0.156268526 | 0.023602893 | 0.204 | 1 | 23466 | CBX6 |
| 0.156228356 | 0.023639081 | 0.187 | 1 | 1642 | DDB1 |
| 0.156183004 | 0.023679995 | 0.203 | 1 | 90993 | CREB3L1 |
| 0.156172638 | 0.023689356 | 0.2 | 1 | 7511 | XPNPEP1 |
| 0.156137651 | 0.023720971 | 0.183 | 1 | 5710 | PSMD4 |
| 0.156078045 | 0.023774918 | 0.192 | 1 | 2850 | GPR27 |
| 0.156044355 | 0.023805456 | 0.182 | 1 | 6239 | RREB1 |
| 0.155954946 | 0.023886664 | 0.182 | 1 | 221424 | C6orf154 |
| 0.155914776 | 0.023923227 | 0.191 | 1 | 338707 | B4GALNT4 |
| 0.155908297 | 0.023929129 | 0.203 | 1 | 910 | CD1B |
| 0.155815001 | 0.024014253 | 0.193 | 1 | 527 | ATP6V0C |
| 0.155813705 | 0.024015437 | 0.2 | 1 | 10908 | PNPLA6 |
| 0.155789085 | 0.024037944 | 0.159 | 1 | 57763 | ANKRA2 |
| 0.15578131 | 0.024045056 | 0.179 | 1 | 7638 | ZNF221 |
| 0.155598604 | 0.024212699 | 0.163 | 1 | 25819 | CCRN4L |
| 0.155419786 | 0.02437775 | 0.188 | 1 | 92129 | RIPPLY1 |
| 0.155383504 | 0.024411356 | 0.164 | 1 | 81788 | NUAK2 |
| 0.155358884 | 0.024434183 | 0.169 | 1 | 50628 | GEMIN4 |
| 0.155336856 | 0.024454623 | 0.213 | 1 | 29980 | DONSON |
| 0.155326489 | 0.024464247 | 0.181 | 1 | 55110 | MAGOHB |
| 0.15532001 | 0.024470264 | 0.177 | 1 | 2247 | FGF2 |
| 0.155257813 | 0.024528088 | 0.179 | 1 | 55612 | FERMT1 |
| 0.155172291 | 0.024607789 | 0.162 | 1 | 286319 | TUSC1 |
| 0.155082882 | 0.02469135 | 0.202 | 1 | 4358 | MPV17 |
| 0.155024571 | 0.024745979 | 0.195 | 1 | 26100 | WIPI2 |
| 0.155009022 | 0.024760564 | 0.21 | 1 | 286140 | RNF5P1 |
| 0.155007726 | 0.02476178 | 0.173 | 1 | 25886 | WDR51A |
| 0.154867781 | 0.024893385 | 0.197 | 1 | 368 | ABCC6 |
| 0.154830203 | 0.024928826 | 0.2 | 1 | 54700 | RRN3 |
| 0.154805584 | 0.024952069 | 0.2 | 1 | 29988 | SLC2A8 |
| 0.154765414 | 0.024990033 | 0.206 | 1 | 9152 | SLC6A5 |
| 0.154736907 | 0.025017005 | 0.202 | 1 | 23760 | PITPNB |
| 0.154722653 | 0.025030501 | 0.205 | 1 | 125965 | COX6B2 |
| 0.154682484 | 0.025068567 | 0.207 | 1 | 158062 | LCN6 |
| 0.154664343 | 0.025085774 | 0.22 | 1 | 340075 | ARSI |
| 0.154604737 | 0.025142385 | 0.192 | 1 | 23367 | LARP1 |
| 0.154578821 | 0.025167033 | 0.193 | 1 | 138009 | DCAF4L2 |
| 0.154576229 | 0.025169499 | 0.208 | 1 | 81793 | TLR10 |
| 0.154541243 | 0.025202809 | 0.179 | 1 | 3171 | FOXA3 |
| 0.154532173 | 0.025211451 | 0.201 | 1 | 6193 | RPS5 |
| 0.154525694 | 0.025217626 | 0.201 | 1 | 122664 | TPPP2 |
| 0.154524398 | 0.025218861 | 0.172 | 1 | 144110 | TMEM86A |
| 0.154387045 | 0.025350073 | 0.164 | 1 | 284424 | MIR7-3HG |
| 0.154333918 | 0.025400982 | 0.173 | 1 | 6617 | SNAPC1 |
| 0.154324847 | 0.025409683 | 0.208 | 1 | 170506 | DHX36 |
| 0.154288565 | 0.025444511 | 0.179 | 1 | 8667 | EIF3H |
| 0.154283382 | 0.02544949 | 0.2 | 1 | 23547 | LILRA4 |
| 0.154217297 | 0.025513043 | 0.198 | 1 | 8411 | EEA1 |
| 0.154170649 | 0.025557986 | 0.183 | 1 | 388403 | YPEL2 |
| 0.154138254 | 0.025589237 | 0.193 | 1 | 148109 | FAM187B |
| 0.154130479 | 0.025596742 | 0.173 | 1 | 9056 | SLC7A7 |
| 0.154112338 | 0.025614261 | 0.193 | 1 | 51171 | HSD17B14 |
| 0.154100676 | 0.025625528 | 0.158 | 1 | 7643 | ZNF90 |
| 0.154087718 | 0.025638053 | 0.186 | 1 | 3075 | CFH |
| 0.154034591 | 0.02568946 | 0.19 | 1 | 116154 | PHACTR3 |
| 0.153976281 | 0.025745983 | 0.172 | 1 | 54545 | MTMR12 |
| 0.153950365 | 0.025771139 | 0.182 | 1 | 55174 | INTS10 |
| 0.153921858 | 0.025798835 | 0.206 | 1 | 80024 | SLC24A6 |
| 0.153857068 | 0.025861876 | 0.17 | 1 | 171546 | C14orf147 |
| 0.153851885 | 0.025866925 | 0.187 | 1 | 715 | C1R |
| 0.153832448 | 0.025885866 | 0.18 | 1 | 1558 | CYP2C8 |
| 0.153820786 | 0.025897236 | 0.187 | 1 | 9508 | ADAMTS3 |
| 0.153796166 | 0.025921254 | 0.231 | 1 | 57224 | NHSL1 |
| 0.153762476 | 0.025954153 | 0.182 | 1 | 202151 | RANBP3L |
| 0.15367825 | 0.026036555 | 0.164 | 1 | 55223 | TRIM62 |
| 0.153676954 | 0.026037825 | 0.158 | 1 | 283663 | AC016525.1 |
| 0.153657517 | 0.026056873 | 0.2 | 1 | 24140 | FTSJ1 |

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| 0.056181147 | 1.29606E-85 | 9788 | MTSS1 |
| 0.056169424 | 1.40479E-85 | 64241 | ABCG8 |
| 0.056166618 | 1.43215E-85 | 63897 | HEATR6 |
| 0.056159952 | 1.49926E-85 | 383 | ARG1 |
| 0.056127865 | 1.8689E-85 | 5630 | PRPH |
| 0.056051629 | 3.15328E-85 | 3269 | HRH1 |
| 0.056034763 | 3.53982E-85 | 3906 | LALBA |
| 0.056012641 | 4.11932E-85 | 399512 | SLC25A35 |
| 0.056006726 | 4.2897E-85 | 79999 | AC007952.2 |
| 0.055991702 | 4.75471E-85 | 23190 | UBXN4 |
| 0.055984292 | 5.00223E-85 | 55159 | RFWD3 |
| 0.055967707 | 5.60385E-85 | 140803 | TRPM6 |
| 0.055946344 | 6.48627E-85 | 55340 | GIMAP5 |
| 0.055932833 | 7.11458E-85 | 23112 | TNRC6B |
| 0.055918472 | 7.84907E-85 | 25924 | MYRIP |
| 0.055917669 | 7.89234E-85 | 55018 | LINC00483 |
| 0.05587112 | 1.08501E-84 | 64110 | MAGEF1 |
| 0.055865166 | 1.13007E-84 | 151254 | ALS2CR11 |
| 0.05581689 | 1.57154E-84 | 140771 | AL135932.1 |
| 0.05580183 | 1.74172E-84 | 894 | CCND2 |
| 0.055794603 | 1.8298E-84 | 219285 | SAMD9L |
| 0.055792502 | 1.85622E-84 | 26747 | NUFIP1 |
| 0.055781877 | 1.99581E-84 | 3569 | IL6 |
| 0.055776984 | 2.06357E-84 | 10121 | ACTR1A |
| 0.055771506 | 2.14216E-84 | 79852 | EPHX3 |
| 0.055745285 | 2.5617E-84 | 440934 | AC010980.2 |
| 0.055717593 | 3.09398E-84 | 79001 | VKORC1 |
| 0.055654384 | 8.71476E-84 | 146325 | C16orf11 |
| 0.055653172 | 4.79846E-84 | 63923 | TNN |
| 0.055649476 | 4.92075E-84 | 83955 | NACAP1 |
| 0.055636839 | 5.36274E-84 | 29896 | TRA2A |
| 0.055601417 | 6.82425E-84 | 5620 | PRM2 |
| 0.055596414 | 7.06049E-84 | 25987 | TSKU |
| 0.055596104 | 7.07537E-84 | 152078 | C3orf55 |
| 0.055575963 | 8.1139E-84 | 375 | ARF1 |
| 0.055568098 | 8.55949E-84 | 54545 | MTMR12 |
| 0.055562934 | 8.86528E-84 | 26155 | NOC2L |
| 0.055548658 | 9.76853E-84 | 7711 | ZNF155 |
| 0.055546233 | 9.93082E-84 | 91133 | L3MBTL4 |
| 0.055538951 | 1.04345E-83 | 23764 | MAFF |
| 0.055528872 | 1.1174E-83 | 8747 | ADAM21 |
| 0.055469805 | 1.66867E-83 | 5989 | RFX1 |
| 0.055466291 | 1.70893E-83 | 162073 | ITPRIPL2 |
| 0.055434151 | 2.12524E-83 | 124857 | WFIKKN2 |
| 0.055431362 | 2.16581E-83 | 3990 | LIPC |
| 0.055428641 | 2.20615E-83 | 80313 | LRRC27 |
| 0.055426838 | 2.23327E-83 | 6019 | RLN2 |
| 0.055401098 | 2.65902E-83 | 130507 | UBR3 |
| 0.055390025 | 2.86622E-83 | 8639 | AOC3 |
| 0.055355173 | 3.62941E-83 | 2588 | GALNS |
| 0.055349194 | 3.77936E-83 | 10495 | ENOX2 |
| 0.055334053 | 4.18732E-83 | 10524 | KAT5 |
| 0.055320281 | 4.59638E-83 | 728255 | KRTAP1-4 |
| 0.055318994 | 4.63658E-83 | 54926 | UBE2R2 |
| 0.055317368 | 4.68789E-83 | 79047 | KCTD15 |
| 0.055299051 | 5.30637E-83 | 145864 | HAPLN3 |
| 0.055297921 | 5.34712E-83 | 56920 | SEMA3G |
| 0.055276859 | 6.16571E-83 | 5579 | PRKCB |
| 0.055264797 | 6.68964E-83 | 56655 | POLE4 |
| 0.055261604 | 6.8356E-83 | 6764 | ST5 |
| 0.055246872 | 7.55132E-83 | 6336 | SCN10A |
| 0.055244455 | 7.67566E-83 | 81856 | ZNF611 |
| 0.055223041 | 8.87061E-83 | 60482 | SLC5A7 |
| 0.055211748 | 9.57374E-83 | 284307 | ZIK1 |
| 0.055211313 | 9.60187E-83 | 51375 | SNX7 |
| 0.055191617 | 1.18214E-82 | 79776 | ZFHX4 |
| 0.055170717 | 1.26296E-82 | 7755 | ZNF205 |
| 0.05516896 | 1.27803E-82 | 475 | ATOX1 |
| 0.055130384 | 1.65792E-82 | 954 | ENTPD2 |
| 0.05510768 | 1.93218E-82 | 401250 | MCCD1 |
| 0.055105902 | 1.95549E-82 | 1687 | DFNA5 |
| 0.055097812 | 2.06508E-82 | 255101 | CCDC108 |
| 0.055091357 | 2.1569E-82 | 9144 | SYNGR2 |
| 0.05509028 | 2.17262E-82 | 22818 | COPZ1 |
| 0.055081353 | 2.30732E-82 | 56271 | BEX4 |
| 0.055073973 | 2.42495E-82 | 81309 | OR4C15 |
| 0.055068687 | 2.51285E-82 | 126 | ADH1C |
| 0.055064429 | 2.58597E-82 | 51253 | MRPL37 |
| 0.055048894 | 2.8712E-82 | 2979 | GUCA1B |
| 0.055043313 | 2.98115E-82 | 146395 | GSG1L |
| 0.055035207 | 8.88263E-82 | 3763 | KCNJ6 |
| 0.055029629 | 3.26886E-82 | 51198 | C9orf53 |

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|---|---|---|---|---|---|
| 0.153656222 | 0.026058144 | 0.179 | 1 | 84832 | ANKRD36BL1 |
| 0.153618644 | 0.026095007 | 0.178 | 1 | 51430 | C1orf9 |
| 0.153582362 | 0.026130641 | 0.221 | 1 | 54847 | SIDT1 |
| 0.153535713 | 0.026176518 | 0.187 | 1 | 285051 | C2orf61 |
| 0.153533122 | 0.026179069 | 0.179 | 1 | 199974 | CYP4Z1 |
| 0.15353053 | 0.02618162 | 0.18 | 1 | 337879 | KRTAP8-1 |
| 0.153483882 | 0.026227574 | 0.198 | 1 | 10693 | CCT6B |
| 0.153482586 | 0.026228851 | 0.167 | 1 | 4004 | LMO1 |
| 0.153429459 | 0.026281274 | 0.172 | 1 | 26958 | COPG2 |
| 0.153377628 | 0.026332506 | 0.2 | 1 | 4547 | MTTP |
| 0.153376332 | 0.026333788 | 0.178 | 1 | 130502 | TTC32 |
| 0.153334867 | 0.026374836 | 0.178 | 1 | 83478 | ARHGAP24 |
| 0.153325796 | 0.026383823 | 0.178 | 1 | 58478 | ENOPH1 |
| 0.15331543 | 0.026394096 | 0.185 | 1 | 645996 | NAP1L6 |
| 0.153227316 | 0.026481562 | 0.205 | 1 | 55039 | TRMT12 |
| 0.15321695 | 0.026491868 | 0.206 | 1 | 84287 | ZDHHC16 |
| 0.153175485 | 0.026533128 | 0.189 | 1 | 79966 | SCD5 |
| 0.153171598 | 0.026536999 | 0.18 | 1 | 54952 | TRNAU1AP |
| 0.153165119 | 0.026543452 | 0.173 | 1 | 140823 | ROMO1 |
| 0.153114583 | 0.026593829 | 0.186 | 1 | 26769 | SNORD81 |
| 0.152983709 | 0.026724675 | 0.211 | 1 | 113451 | ADC |
| 0.152799707 | 0.026909572 | 0.194 | 1 | 64927 | TTC23 |
| 0.152759538 | 0.026950082 | 0.192 | 1 | 9293 | GPR52 |
| 0.152737509 | 0.02697232 | 0.196 | 1 | 4046 | LSP1 |
| 0.152737509 | 0.02697232 | 0.174 | 1 | 8434 | RECK |
| 0.152733622 | 0.026976246 | 0.146 | 1 | 84649 | DGAT2 |
| 0.152597565 | 0.027113962 | 0.166 | 1 | 143888 | KDELC2 |
| 0.152543142 | 0.027169218 | 0.176 | 1 | 5481 | PPID |
| 0.152512043 | 0.027200836 | 0.188 | 1 | 55276 | PGM2 |
| 0.15244207 | 0.027272091 | 0.194 | 1 | 23327 | NEDD4L |
| 0.15238376 | 0.027331593 | 0.186 | 1 | 83259 | PCDH11Y |
| 0.152370802 | 0.027344831 | 0.167 | 1 | 125144 | C17orf45 |
| 0.152339703 | 0.027376624 | 0.197 | 1 | 51131 | PHF11 |
| 0.152287872 | 0.027429683 | 0.186 | 1 | 8349 | HIST2H2BE |
| 0.152261956 | 0.027456246 | 0.179 | 1 | 4615 | MYD88 |
| 0.152237336 | 0.027481501 | 0.212 | 1 | 29109 | FHOD1 |
| 0.152182913 | 0.027537398 | 0.185 | 1 | 81833 | SPACA1 |
| 0.152127194 | 0.027594728 | 0.193 | 1 | 9040 | UBE2M |
| 0.152102574 | 0.027620092 | 0.227 | 1 | 11224 | RPL35 |
| 0.152084433 | 0.027638794 | 0.188 | 1 | 55349 | CHDH |
| 0.15204556 | 0.027678907 | 0.198 | 1 | 5000 | ORC4 |
| 0.15204556 | 0.027678907 | 0.179 | 1 | 127262 | TPRG1L |
| 0.152035194 | 0.027689612 | 0.224 | 1 | 401127 | AC021148.2 |
| 0.152022236 | 0.027702998 | 0.199 | 1 | 222894 | FERD3L |
| 0.151855079 | 0.027876181 | 0.201 | 1 | 11184 | MAP4K1 |
| 0.151805839 | 0.027927373 | 0.204 | 1 | 57132 | CHMP1B |
| 0.151791586 | 0.027942206 | 0.197 | 1 | 6608 | SMO |
| 0.151715134 | 0.028021884 | 0.181 | 1 | 80177 | MYCT1 |
| 0.151696993 | 0.02804082 | 0.206 | 1 | 8632 | DNAH17 |
| 0.151649049 | 0.028090915 | 0.21 | 1 | 55181 | C17orf71 |
| 0.151630908 | 0.02810989 | 0.203 | 1 | 57636 | ARHGAP23 |
| 0.15155964 | 0.028184542 | 0.186 | 1 | 100288165 | HMGN2P15 |
| 0.151555753 | 0.028188619 | 0.176 | 1 | 1573 | CYP2J2 |
| 0.151542795 | 0.028202212 | 0.176 | 1 | 1020 | CDK5 |
| 0.151515583 | 0.028230775 | 0.185 | 1 | 7805 | LAPTM5 |
| 0.151512992 | 0.028233497 | 0.203 | 1 | 53340 | SPA17 |
| 0.151454682 | 0.028294793 | 0.193 | 1 | 9772 | KIAA0195 |
| 0.151426174 | 0.028324801 | 0.202 | 1 | 2940 | GSTA3 |
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| 0.149802555 | 0.030079517 | 0.198 | 1 | 55964 | SEPTIN3 |
| 0.149790893 | 0.030092449 | 0.186 | 1 | 115426 | UHRF2 |
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| 0.146854642 | 0.03350341 | 0.201 | 1 | 127829 | ARL8A |
| 0.146844276 | 0.033516012 | 0.21 | 1 | 256130 | TMEM196 |
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| 0.146761345 | 0.033616973 | 0.205 | 1 | 84876 | ORAI1 |
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| 0.146379089 | 0.03408569 | 0.197 | 1 | 100506658 | OCLN |
| 0.146370018 | 0.034096879 | 0.195 | 1 | 85001 | CTD-2514K5.2 |
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| 0.051174959 | 2.44875E-71 | 440570 | LOC440570 |
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| 0.051144413 | 2.96461E-71 | 8792 | TNFRSF11A |
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| 0.141411046 | 0.040700201 | 0.241 | 1 | 4588 | MUC6 |
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| 0.141386426 | 0.0407355 | 0.235 | 1 | 51614 | ERGIC3 |
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| 0.141280172 | 0.040888138 | 0.214 | 1 | 10516 | FBLN5 |
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| 0.141232227 | 0.040957168 | 0.23 | 1 | 79981 | FRMD1 |
| 0.141057296 | 0.041209871 | 0.255 | 1 | 93190 | C1orf158 |
| 0.141043043 | 0.041230519 | 0.197 | 1 | 8525 | DGKZ |
| 0.141035268 | 0.041241786 | 0.216 | 1 | 85439 | STON2 |
| 0.140980845 | 0.041320723 | 0.214 | 1 | 4066 | LYL1 |
| 0.140970479 | 0.041335773 | 0.221 | 1 | 2152 | F3 |
| 0.140848675 | 0.041512958 | 0.24 | 1 | 344967 | AC098591.2 |
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| 0.14078259 | 0.041609358 | 0.208 | 1 | 55512 | SMPD3 |
| 0.140763153 | 0.041637747 | 0.257 | 1 | 442721 | LMOD2 |
| 0.140651715 | 0.041800823 | 0.237 | 1 | 203328 | SUSD3 |
| 0.140633574 | 0.041827421 | 0.247 | 1 | 9381 | OTOF |
| 0.140599884 | 0.041876856 | 0.221 | 1 | 79544 | OR4K1 |
| 0.140544165 | 0.041958721 | 0.26 | 1 | 3855 | KRT7 |
| 0.140526024 | 0.041985403 | 0.241 | 1 | 51233 | C22orf43 |
| 0.140513066 | 0.042004471 | 0.205 | 1 | 55890 | GPRC5C |
| 0.140488446 | 0.04204072 | 0.239 | 1 | 93594 | WDR67 |
| 0.140487151 | 0.042042629 | 0.234 | 1 | 10963 | AP005668.1 |
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| 0.140402925 | 0.042166842 | 0.203 | 1 | 2580 | GAK |
| 0.140353685 | 0.042239602 | 0.22 | 1 | 285093 | CXXC11 |
| 0.140239656 | 0.042408505 | 0.245 | 1 | 64087 | MCCC2 |
| 0.140207261 | 0.042456592 | 0.223 | 1 | 93621 | MRFAP1 |
| 0.140205965 | 0.042458517 | 0.212 | 1 | 10186 | LHFP |
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| 0.140156725 | 0.0425317 | 0.194 | 1 | 767 | CA8 |
| 0.14011526 | 0.04259341 | 0.215 | 1 | 11095 | ADAMTS8 |
| 0.140102302 | 0.04261271 | 0.225 | 1 | 377 | ARF3 |
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| 0.13985092 | 0.042988585 | 0.209 | 1 | 7267 | TTC3 |
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| 0.139773173 | 0.043105397 | 0.242 | 1 | 54829 | ASPN |
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| 0.13975244 | 0.043136592 | 0.237 | 1 | 10133 | OPTN |
| 0.139725229 | 0.043177565 | 0.217 | 1 | 10399 | GNB2L1 |
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| 0.139547706 | 0.043445664 | 0.227 | 1 | 27037 | TRMT2A |
| 0.139547706 | 0.043445664 | 0.248 | 1 | 55971 | BAIAP2L1 |
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| 0.139508832 | 0.043504558 | 0.212 | 1 | 84133 | ZNRF3 |
| 0.139480325 | 0.04354779 | 0.18 | 1 | 55766 | H2AFJ |
| 0.139354634 | 0.043738832 | 0.244 | 1 | 1892 | ECHS1 |
| 0.139353338 | 0.043740806 | 0.219 | 1 | 91694 | LONRF1 |
| 0.139318352 | 0.04379411 | 0.235 | 1 | 440307 | TTLL13 |
| 0.139226351 | 0.04393454 | 0.244 | 1 | 51450 | PRRX2 |
| 0.139155083 | 0.044043583 | 0.249 | 1 | 644096 | SDHAF1 |
| 0.139082519 | 0.044154843 | 0.232 | 1 | 81027 | TUBB1 |
| 0.139047533 | 0.04420857 | 0.222 | 1 | 1937 | EEF1G |
| 0.139043645 | 0.044214543 | 0.252 | 1 | 55608 | ANKRD10 |
| 0.138964602 | 0.044336142 | 0.223 | 1 | 339366 | ADAMTSL5 |
| 0.138934799 | 0.044382064 | 0.253 | 1 | 654502 | IQCJ |
| 0.138810404 | 0.044574169 | 0.237 | 1 | 57407 | NMRAL1 |
| 0.138730065 | 0.044698607 | 0.236 | 1 | 339168 | TMEM95 |
| 0.138686008 | 0.044766971 | 0.22 | 1 | 657 | BMPR1A |
| 0.138678234 | 0.044779044 | 0.249 | 1 | 5473 | PPBP |
| 0.138675642 | 0.044783069 | 0.24 | 1 | 9700 | ESPL1 |
| 0.138640656 | 0.044837437 | 0.225 | 1 | 84687 | PPP1R9B |
| 0.138609557 | 0.04488581 | 0.256 | 1 | 283464 | GLT8D3 |
| 0.138594008 | 0.044910014 | 0.247 | 1 | 4634 | MYL3 |
| 0.138561613 | 0.044960472 | 0.214 | 1 | 37 | ACADVL |
| 0.138437218 | 0.045154674 | 0.246 | 1 | 129138 | ANKRD54 |
| 0.138437218 | 0.045154674 | 0.236 | 1 | 168544 | ZNF467 |
| 0.138432034 | 0.045162781 | 0.252 | 1 | 8891 | EIF2B3 |
| 0.138429443 | 0.045166835 | 0.248 | 1 | 801 | CALM1 |
| 0.138416485 | 0.045187109 | 0.227 | 1 | 2335 | FN1 |

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| 0.051124966 | 3.34809E-71 | 54979 | HRASLS2 |
| 0.051116338 | 3.53371E-71 | 4547 | MTTP |
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| 0.051098421 | 3.95256E-71 | 80776 | B9D2 |
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| 0.051084052 | 4.32396E-71 | 390940 | AC026369.2 |
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| 0.051059356 | 5.04531E-71 | 1778 | DYNC1H1 |
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| 0.050990368 | 1.84938E-70 | 54739 | XAF1 |
| 0.050985342 | 8.00785E-71 | 162989 | DEDD2 |
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| 0.050936764 | 1.08402E-70 | 22955 | SCMH1 |
| 0.050868021 | 1.66318E-70 | 340595 | ZCCHC16 |
| 0.050858543 | 1.76422E-70 | 445 | ASS1 |
| 0.050841104 | 1.96637E-70 | 2800 | GOLGA1 |
| 0.050833742 | 2.05849E-70 | 57205 | ATP10D |
| 0.050826621 | 2.15169E-70 | 5747 | PTK2 |
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| 0.050819379 | 2.25077E-70 | 4152 | MBD1 |
| 0.050816501 | 2.29141E-70 | 641 | BLM |
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| 0.050798798 | 2.55792E-70 | 6528 | SLC5A5 |
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| 0.050761561 | 3.22364E-70 | 644037 | HNRNPA1P12 |
| 0.050754133 | 3.37582E-70 | 255180 | FLJ38723 |
| 0.05074202 | 3.63945E-70 | 80725 | AC115090.1 |
| 0.050720684 | 4.15473E-70 | 151534 | LBX2-AS1 |
| 0.050711571 | 4.3964E-70 | 400578 | KRT16P2 |
| 0.050651972 | 6.3617E-70 | 57630 | SH3RF1 |
| 0.050649344 | 6.46614E-70 | 54596 | L1TD1 |
| 0.050632315 | 7.18554E-70 | 11326 | VSIG4 |
| 0.050609083 | 8.29736E-70 | 9766 | KIAA0247 |
| 0.050603537 | 8.58719E-70 | 27340 | UTP20 |
| 0.050596923 | 8.94606E-70 | 126003 | TRAPPC5 |
| 0.050594542 | 9.07888E-70 | 149986 | LSM14B |
| 0.050580959 | 9.87498E-70 | 128153 | SPATA17 |
| 0.050571975 | 1.04394E-69 | 201501 | ZBTB7C |
| 0.050550523 | 1.19207E-69 | 362 | AQP5 |
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| 0.050540917 | 1.26502E-69 | 10537 | UBD |
| 0.050530481 | 1.34932E-69 | 10066 | SCAMP2 |
| 0.050523482 | 1.40898E-69 | 1810 | DR1 |
| 0.050505962 | 1.57009E-69 | 286464 | CXorf59 |
| 0.050502867 | 1.6004E-69 | 2047 | EPHB1 |
| 0.050497243 | 1.65698E-69 | 84865 | CCDC142 |
| 0.050452041 | 2.19044E-69 | 138255 | C9orf135 |
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| 0.050429153 | 2.52271E-69 | 84366 | PRAC |
| 0.050426283 | 2.56778E-69 | 55504 | TNFRSF19 |
| 0.050422934 | 2.62137E-69 | 387836 | CLEC2A |
| 0.050415461 | 2.74502E-69 | 55884 | WSB2 |
| 0.050414072 | 2.76864E-69 | 23505 | TMEM131 |
| 0.050413198 | 2.78361E-69 | 257364 | SNX33 |
| 0.050403637 | 2.95266E-69 | 339479 | FAM5C |
| 0.050383812 | 3.3365E-69 | 84334 | APOPT1 |
| 0.050359342 | 9.24791E-69 | 163782 | KANK4 |
| 0.050351224 | 4.07843E-69 | 23334 | KIAA0467 |
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| 0.050319305 | 4.96424E-69 | 1727 | CYB5R3 |
| 0.050307177 | 5.34899E-69 | 389458 | LOC389458 |
| 0.050290921 | 5.91168E-69 | 152 | ADRA2C |
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| 0.050279112 | 6.35711E-69 | 55096 | EBLN2 |
| 0.050249362 | 7.63317E-69 | 575 | BAI1 |
| 0.050245613 | 7.81116E-69 | 8859 | STK19 |
| 0.050224513 | 8.89259E-69 | 124274 | GPR139 |
| 0.050196142 | 1.05855E-68 | 51474 | LIMA1 |
| 0.050188141 | 1.11185E-68 | 25839 | COG4 |
| 0.050186125 | 1.1257E-68 | 389362 | PSMG4 |
| 0.05018574 | 1.12836E-68 | 7465 | WEE1 |
| 0.050182221 | 1.153E-68 | 26025 | PCDHGA12 |
| 0.050166104 | 1.27289E-68 | 51255 | RNF181 |
| 0.050156072 | 1.35372E-68 | 6499 | SKIV2L |

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| 0.138382795 | 0.045239858 | 0.214 | 1 | 79036 | C19orf50 |
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| 0.138284315 | 0.045394343 | 0.245 | 1 | 85460 | ZNF518B |
| 0.138145666 | 0.045612592 | 0.239 | 1 | 79707 | NOL9 |
| 0.138131412 | 0.045635078 | 0.253 | 1 | 91661 | ZNF765 |
| 0.138088651 | 0.045702593 | 0.223 | 1 | 6929 | TCF3 |
| 0.138044594 | 0.045772242 | 0.241 | 1 | 56980 | PRDM10 |
| 0.138035524 | 0.045786593 | 0.24 | 1 | 80223 | RAB11FIP1 |
| 0.137948706 | 0.045924138 | 0.256 | 1 | 138046 | RALYL |
| 0.137920199 | 0.045969377 | 0.235 | 1 | 57504 | MTA3 |
| 0.137918903 | 0.045971435 | 0.239 | 1 | 2767 | GNA11 |
| 0.137894283 | 0.046010537 | 0.238 | 1 | 408 | ARRB1 |
| 0.137883917 | 0.046027009 | 0.229 | 1 | 65220 | NADK |
| 0.137861889 | 0.046062029 | 0.219 | 1 | 80206 | FHOD3 |
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| 0.137766001 | 0.04621473 | 0.207 | 1 | 10865 | ARID5A |
| 0.137689549 | 0.046336781 | 0.241 | 1 | 6217 | RPS16P1 |
| 0.137596253 | 0.046486091 | 0.241 | 1 | 10523 | CHERP |
| 0.137556083 | 0.046550501 | 0.23 | 1 | 341152 | OR2AT4 |
| 0.137535351 | 0.046583774 | 0.247 | 1 | 28958 | CCDC56 |
| 0.137296926 | 0.046967847 | 0.242 | 1 | 634 | CEACAM1 |
| 0.13727101 | 0.047009753 | 0.251 | 1 | 92906 | HNRPLL |
| 0.13708053 | 0.047318725 | 0.286 | 1 | 83985 | SPNS1 |
| 0.137063685 | 0.04734613 | 0.226 | 1 | 25943 | C20orf194 |
| 0.137057206 | 0.047356675 | 0.232 | 1 | 258 | AMBN |
| 0.137046839 | 0.047373549 | 0.227 | 1 | 5301 | PIN1P1 |
| 0.137004078 | 0.047443211 | 0.232 | 1 | 6014 | RIT2 |
| 0.136975571 | 0.047489699 | 0.217 | 1 | 1404 | HAPLN1 |
| 0.136944472 | 0.047540457 | 0.256 | 1 | 96626 | LIMS3 |
| 0.136941881 | 0.047544689 | 0.242 | 1 | 29985 | SLC39A3 |
| 0.136890049 | 0.047629393 | 0.224 | 1 | 389 | RHOC |
| 0.136877091 | 0.047650589 | 0.207 | 1 | 126006 | PCP2 |
| 0.1367514 | 0.047856597 | 0.2 | 1 | 8934 | RAB7L1 |
| 0.136734555 | 0.047884262 | 0.257 | 1 | 84944 | MAEL |
| 0.13654537 | 0.048195889 | 0.245 | 1 | 7423 | VEGFB |
| 0.136450778 | 0.048352337 | 0.217 | 1 | 11118 | BTN3A2 |
| 0.136443003 | 0.048365215 | 0.207 | 1 | 84315 | MON1A |
| 0.136439116 | 0.048371655 | 0.238 | 1 | 706 | TSPO |
| 0.136396355 | 0.04844254 | 0.281 | 1 | 70 | ACTC1 |
| 0.136391172 | 0.048451138 | 0.252 | 1 | 64800 | EFCAB6 |
| 0.136293988 | 0.048612589 | 0.237 | 1 | 2330 | FMO5 |
| 0.136291396 | 0.0486169 | 0.24 | 1 | 983 | CDC2 |
| 0.136277143 | 0.048640619 | 0.233 | 1 | 1408 | CRY2 |
| 0.136196804 | 0.048774489 | 0.237 | 1 | 5802 | PTPRS |
| 0.136159226 | 0.04883721 | 0.237 | 1 | 4878 | NPPA |
| 0.136126832 | 0.048891335 | 0.248 | 1 | 7205 | TRIP6 |
| 0.136040014 | 0.049036635 | 0.249 | 1 | 6203 | RPS9 |
| 0.136036127 | 0.04904315 | 0.261 | 1 | 84666 | RETNLB |
| 0.13601669 | 0.049075733 | 0.225 | 1 | 5996 | RGS1 |
| 0.135984295 | 0.049130078 | 0.242 | 1 | 57583 | TMEM181 |
| 0.135963563 | 0.049164885 | 0.245 | 1 | 645683 | RPL13AP3 |
| 0.135955788 | 0.049177943 | 0.238 | 1 | 201798 | TIGD4 |
| 0.13594283 | 0.049199713 | 0.264 | 1 | 85313 | PPIL4 |
| 0.135814547 | 0.049415667 | 0.235 | 1 | 503834 | DPRXP4 |
| 0.135776969 | 0.049479076 | 0.238 | 1 | 3577 | IL8RA |
| 0.135709588 | 0.049592945 | 0.227 | 1 | 115939 | C16orf42 |
| 0.135614996 | 0.049753169 | 0.264 | 1 | 1645 | AKR1C1 |
| 0.135551503 | 0.049860958 | 0.242 | 1 | 57565 | KLHL14 |
| 0.135491896 | 0.049962325 | 0.219 | 1 | 2290 | FOXG1B |
| 0.13548153 | 0.049979971 | 0.259 | 1 | 6231 | RPS26P20 |
| 0.135478939 | 0.049984384 | 0.249 | 1 | 9133 | CCNB2 |
| 0.135436178 | 0.050057236 | 0.258 | 1 | 80737 | C6orf27 |
| 0.135428403 | 0.050070491 | 0.227 | 1 | 55092 | TMEM51 |
| 0.135385642 | 0.050143448 | 0.254 | 1 | 92949 | ADAMTSL1 |
| 0.135372684 | 0.050165574 | 0.23 | 1 | 7101 | NR2E1 |
| 0.13534936 | 0.050205421 | 0.27 | 1 | 55627 | SMPD4 |
| 0.135304008 | 0.050282976 | 0.227 | 1 | 9855 | FARP2 |
| 0.135293641 | 0.050300717 | 0.258 | 1 | 51230 | PHF20 |
| 0.135228852 | 0.050411715 | 0.206 | 1 | 118672 | PSTK |
| 0.13516795 | 0.05051624 | 0.213 | 1 | 114800 | CCDC85A |
| 0.135142034 | 0.050560774 | 0.265 | 1 | 256006 | ANKRD31 |
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| 0.135072062 | 0.050681178 | 0.245 | 1 | 1297 | COL9A1 |
| 0.135052625 | 0.050714666 | 0.226 | 1 | 170394 | PWWP2B |
| 0.134951554 | 0.0508891 | 0.276 | 1 | 81579 | PLA2G12A |
| 0.134939892 | 0.050909259 | 0.254 | 1 | 79727 | LIN28 |
| 0.134899722 | 0.050978747 | 0.234 | 1 | 11236 | RNF139 |
| 0.134849187 | 0.051066279 | 0.257 | 1 | 10046 | MAMLD1 |
| 0.134841412 | 0.051079757 | 0.239 | 1 | 10556 | RPP30 |
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| 0.050060032 | 2.43895E-68 | 537 | ATP6AP1 |
| 0.050058614 | 2.46021E-68 | 716 | C1S |
| 0.050055545 | 2.50689E-68 | 51114 | ZDHHC9 |
| 0.050049845 | 2.59594E-68 | 100128569 | C19orf71 |
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| 0.050028642 | 2.95572E-68 | 220070 | SHANK2-AS3 |
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| 0.049993864 | 3.65652E-68 | 252969 | NEIL2 |
| 0.049986064 | 5.50489E-68 | 220963 | SLC16A9 |
| 0.049980473 | 3.96853E-68 | 116143 | WDR92 |
| 0.049978811 | 4.00908E-68 | 10436 | EMG1 |
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| 0.12950407 | 0.061057008 | 0.276 | 1 | 5810 | RAD1 |
| 0.129502775 | 0.061059612 | 0.235 | 1 | 203547 | VMA21 |
| 0.129475563 | 0.061114325 | 0.292 | 1 | 51103 | NDUFAF1 |
| 0.129447056 | 0.061171687 | 0.29 | 1 | 6940 | ZNF354A |
| 0.129348576 | 0.061370186 | 0.274 | 1 | 153562 | MARVELD2 |
| 0.129296745 | 0.061474872 | 0.274 | 1 | 1870 | E2F2 |
| 0.129296745 | 0.061474872 | 0.281 | 1 | 9719 | ADAMTSL2 |
| 0.1291568 | 0.061758259 | 0.275 | 1 | 199920 | C1orf168 |
| 0.129138659 | 0.061795073 | 0.281 | 1 | 2968 | GTF2H4 |
| 0.12913218 | 0.061808225 | 0.258 | 1 | 10952 | SEC61B |
| 0.129128293 | 0.061816118 | 0.266 | 1 | 2625 | GATA3 |
| 0.129089419 | 0.061895088 | 0.264 | 1 | 55862 | ECHDC1 |
| 0.129088123 | 0.061897721 | 0.288 | 1 | 60312 | AFAP1 |
| 0.129053137 | 0.061968868 | 0.242 | 1 | 576 | BAI2 |
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| 0.128930037 | 0.062219733 | 0.25 | 1 | 5196 | PF4 |

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| 0.047946929 | 7.74174E-63 | 5192 | PEX10 |
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| 0.047866449 | 1.24078E-62 | 94233 | OPN4 |
| 0.047863069 | 1.26558E-62 | 80128 | TRIM46 |
| 0.047848932 | 1.3748E-62 | 8667 | EIF3H |
| 0.047846379 | 1.39549E-62 | 3257 | HPS1 |
| 0.047843172 | 1.42194E-62 | 843 | CASP10 |
| 0.047837057 | 1.47375E-62 | 197187 | MGC23284 |
| 0.047826283 | 1.56966E-62 | 11072 | DUSP14 |
| 0.047823805 | 1.59258E-62 | 642517 | BMS1P6 |
| 0.047809094 | 1.73572E-62 | 128497 | C20orf165 |
| 0.047807872 | 1.74817E-62 | 79654 | HECTD3 |
| 0.047802272 | 1.80637E-62 | 8717 | TRADD |
| 0.047793299 | 1.90369E-62 | 80086 | TUBA4B |
| 0.047773412 | 2.13839E-62 | 8687 | KRT38 |
| 0.047735758 | 2.66458E-62 | 84914 | ZNF587 |
| 0.047731403 | 2.73322E-62 | 9231 | DLG5 |
| 0.047722641 | 2.8767E-62 | 64342 | HS1BP3 |
| 0.047719299 | 2.93338E-62 | 79544 | OR4K1 |
| 0.047646682 | 4.48073E-62 | 84624 | FNDC1 |
| 0.047644018 | 4.55084E-62 | 4634 | MYL3 |
| 0.047642746 | 4.58472E-62 | 27300 | ZNF544 |
| 0.047623413 | 5.13147E-62 | 401190 | RGS7BP |
| 0.047586647 | 6.35682E-62 | 134285 | TMEM171 |
| 0.04757908 | 6.64309E-62 | 2949 | GSTM5 |
| 0.047574196 | 6.83467E-62 | 9761 | MLEC |
| 0.047566996 | 7.12718E-62 | 653657 | AC010606.4 |
| 0.04753096 | 8.78943E-62 | 1003 | CDH5 |
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| 0.04747752 | 1.19908E-61 | 100093630 | SNHG8 |
| 0.047472742 | 1.23283E-61 | 10282 | BET1 |
| 0.047468383 | 1.26443E-61 | 6449 | SGTA |
| 0.047466545 | 1.278E-61 | 92 | ACVR2A |
| 0.047462312 | 1.30981E-61 | 6702 | SPRR2C |
| 0.047437555 | 1.51225E-61 | 10892 | MALT1 |
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| 0.047421528 | 1.65965E-61 | 10351 | ABCA8 |
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| 0.047368824 | 2.2529E-61 | 100190939 | XXyac-R12DG2.1 |
| 0.047363278 | 2.32647E-61 | 399687 | MYO18A |
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| 0.047314701 | 3.08239E-61 | 5087 | PBX1 |
| 0.047299618 | 3.36357E-61 | 26538 | OR10H2 |
| 0.047261037 | 4.20462E-61 | 820 | CAMP |
| 0.047244431 | 4.62827E-61 | 6118 | RPA2 |
| 0.047204932 | 5.81477E-61 | 8541 | PPFIA3 |
| 0.047203028 | 5.87907E-61 | 143570 | XRRA1 |
| 0.047194298 | 6.18307E-61 | 5026 | P2RX5 |
| 0.047181875 | 6.64282E-61 | 283358 | B4GALNT3 |
| 0.047179134 | 6.74873E-61 | 332 | BIRC5 |
| 0.047157602 | 7.64167E-61 | 140612 | ZFP28 |
| 0.04715123 | 7.92785E-61 | 79701 | C17orf101 |
| 0.04713892 | 8.51124E-61 | 124446 | TMEM219 |
| 0.047117862 | 9.61002E-61 | 79672 | FN3KRP |
| 0.047116931 | 9.66173E-61 | 25950 | RWDD3 |
| 0.047105872 | 1.02977E-60 | 2879 | GPX4 |
| 0.047048834 | 1.43027E-60 | 2346 | FOLH1 |
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| 0.04704557 | 1.4574E-60 | 51309 | ARMCX1 |
| 0.047035733 | 1.54229E-60 | 27120 | DKKL1 |
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| 0.047000814 | 1.88541E-60 | 5626 | PROP1 |
| 0.046999497 | 1.89975E-60 | 23135 | KDM6B |
| 0.046998676 | 1.90873E-60 | 51386 | EIF3L |
| 0.046993227 | 1.96949E-60 | 26118 | WSB1 |
| 0.046985691 | 2.0567E-60 | 226 | ALDOA |
| 0.04698313 | 2.08719E-60 | 730101 | RP1-152L7.5 |
| 0.046982092 | 2.09968E-60 | 9320 | TRIP12 |
| 0.046976876 | 2.16359E-60 | 2055 | CLN8 |
| 0.046965121 | 2.31479E-60 | 9659 | PDE4DIP |
| 0.046962848 | 2.34523E-60 | 55691 | FRMD4A |
| 0.046958953 | 2.39831E-60 | 128240 | APOA1BP |
| 0.046942789 | 2.63167E-60 | 84464 | BTBD12 |
| 0.046938599 | 2.69576E-60 | 223082 | ZNRF2 |
| 0.046936306 | 2.73149E-60 | 84705 | GTPBP3 |
| 0.046926088 | 2.89656E-60 | 26505 | CNNM3 |

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| 0.128909305 | 0.062262066 | 0.275 | 1 | 7637 | ZNF84 |
| 0.128896347 | 0.062288537 | 0.274 | 1 | 55634 | ZNF673 |
| 0.128856177 | 0.062370653 | 0.263 | 1 | 84282 | RNF135 |
| 0.128828966 | 0.062426331 | 0.263 | 1 | 6754 | SSTR4 |
| 0.12879398 | 0.062497977 | 0.276 | 1 | 3678 | ITGA5 |
| 0.128784909 | 0.062516563 | 0.285 | 1 | 6894 | TARBP1 |
| 0.128764177 | 0.062559062 | 0.293 | 1 | 7167 | TPI1 |
| 0.12875381 | 0.062580321 | 0.244 | 1 | 6731 | SRP72 |
| 0.128747331 | 0.06259361 | 0.258 | 1 | 5358 | PLS3 |
| 0.128717528 | 0.062654772 | 0.241 | 1 | 4054 | LTBP3 |
| 0.128701979 | 0.062686702 | 0.262 | 1 | 124512 | C17orf95 |
| 0.128690317 | 0.062710658 | 0.259 | 1 | 387597 | ILDR2 |
| 0.128687725 | 0.062715983 | 0.292 | 1 | 10444 | ZER1 |
| 0.128657922 | 0.062777243 | 0.297 | 1 | 22902 | RUFY3 |
| 0.128657922 | 0.062777243 | 0.244 | 1 | 80350 | LPAL2 |
| 0.128629415 | 0.062835886 | 0.316 | 1 | 51186 | WBP5 |
| 0.128629415 | 0.062835886 | 0.273 | 1 | 57326 | PBXIP1 |
| 0.128600908 | 0.062894574 | 0.284 | 1 | 63827 | BCAN |
| 0.12850502 | 0.063092309 | 0.272 | 1 | 3837 | KPNB1 |
| 0.128476512 | 0.063151194 | 0.263 | 1 | 100049716 | AC021054.1 |
| 0.128407836 | 0.063293238 | 0.254 | 1 | 29933 | GPR132 |
| 0.128393582 | 0.063322751 | 0.245 | 1 | 80896 | NPL |
| 0.128384511 | 0.063341539 | 0.246 | 1 | 3663 | IRF5 |
| 0.128354708 | 0.063403301 | 0.284 | 1 | 7182 | NR2C2 |
| 0.128328793 | 0.063457047 | 0.27 | 1 | 51005 | AMDHD2 |
| 0.128296398 | 0.063524283 | 0.286 | 1 | 84648 | LCE3D |
| 0.128284736 | 0.063548502 | 0.285 | 1 | 23529 | CLCF1 |
| 0.128236792 | 0.063648149 | 0.269 | 1 | 220965 | FAM13C |
| 0.128231609 | 0.063658929 | 0.246 | 1 | 7128 | TNFAIP3 |
| 0.128213468 | 0.063696673 | 0.283 | 1 | 55789 | DEPDC1B |
| 0.128070931 | 0.063993865 | 0.286 | 1 | 51639 | AC008073.1 |
| 0.128067044 | 0.064001986 | 0.285 | 1 | 3237 | HOXD11 |
| 0.128013917 | 0.064113061 | 0.281 | 1 | 8574 | AKR7A2 |
| 0.12799448 | 0.064153737 | 0.29 | 1 | 23030 | KDM4B |
| 0.127986705 | 0.064170014 | 0.278 | 1 | 189 | AGXT |
| 0.127985409 | 0.064172727 | 0.258 | 1 | 5519 | PPP2R1B |
| 0.127951719 | 0.0642433 | 0.29 | 1 | 114042 | LINC00334 |
| 0.127942649 | 0.064262311 | 0.268 | 1 | 11104 | KATNA1 |
| 0.127927099 | 0.064294913 | 0.263 | 1 | 11197 | WIF1 |
| 0.127919324 | 0.064311219 | 0.287 | 1 | 132430 | PABPC4L |
| 0.127826028 | 0.064507155 | 0.279 | 1 | 55833 | UBAP2 |
| 0.127805295 | 0.064550763 | 0.292 | 1 | 4888 | NPY6R |
| 0.127802704 | 0.064556216 | 0.271 | 1 | 162979 | ZNF296 |
| 0.127789746 | 0.064583485 | 0.269 | 1 | 3418 | IDH2 |
| 0.127771605 | 0.064621677 | 0.272 | 1 | 10053 | AP1M2 |
| 0.127765126 | 0.064635322 | 0.28 | 1 | 7993 | UBXN8 |
| 0.127666646 | 0.064843012 | 0.289 | 1 | 1382 | CRABP2 |
| 0.127627773 | 0.064925146 | 0.285 | 1 | 7571 | ZNF23 |
| 0.127626477 | 0.064927885 | 0.271 | 1 | 63877 | FAM204A |
| 0.127612223 | 0.064958024 | 0.274 | 1 | 10773 | ZBTB6 |
| 0.127592786 | 0.064999139 | 0.259 | 1 | 198437 | C20orf201 |
| 0.127562983 | 0.065062225 | 0.318 | 1 | 28991 | COMMD5 |
| 0.1275578 | 0.065073202 | 0.307 | 1 | 339906 | RP11-427P5.1 |
| 0.127556504 | 0.065075946 | 0.286 | 1 | 727837 | SSX2B |
| 0.127553913 | 0.065081435 | 0.253 | 1 | 25805 | BAMBI |
| 0.127543547 | 0.065103395 | 0.289 | 1 | 128077 | LIX1L |
| 0.127526701 | 0.065139093 | 0.276 | 1 | 10417 | SPON2 |
| 0.127441179 | 0.065320577 | 0.267 | 1 | 79590 | MRPL24 |
| 0.127384165 | 0.065441796 | 0.262 | 1 | 26045 | LRRTM2 |
| 0.127369911 | 0.06547213 | 0.321 | 1 | 4902 | NRTN |
| 0.127366024 | 0.065480405 | 0.28 | 1 | 153770 | PLAC8L1 |
| 0.127346587 | 0.065521792 | 0.271 | 1 | 26240 | FAM50B |
| 0.127218304 | 0.065795483 | 0.309 | 1 | 2358 | FPR2 |
| 0.127215713 | 0.065801022 | 0.274 | 1 | 387820 | LOC387820 |
| 0.127202755 | 0.065828722 | 0.282 | 1 | 5693 | PSMB5 |
| 0.127165177 | 0.065909104 | 0.253 | 1 | 57622 | LRFN1 |
| 0.127150923 | 0.065939616 | 0.315 | 1 | 27189 | IL17C |
| 0.127055035 | 0.066145173 | 0.269 | 1 | 130749 | CPO |
| 0.127009683 | 0.066242579 | 0.26 | 1 | 1428 | CRYM |
| 0.126998021 | 0.066267645 | 0.283 | 1 | 680 | BRS3 |
| 0.126991542 | 0.066281574 | 0.26 | 1 | 51759 | C9orf78 |
| 0.126929344 | 0.066415415 | 0.271 | 1 | 4735 | SEPTIN2 |
| 0.126867146 | 0.066549477 | 0.296 | 1 | 84078 | KBTBD7 |
| 0.126858076 | 0.066569046 | 0.283 | 1 | 1981 | EIF4G1 |
| 0.126681849 | 0.066950184 | 0.277 | 1 | 23022 | PALLD |
| 0.12667537 | 0.06696423 | 0.297 | 1 | 23587 | C17orf81 |
| 0.126668891 | 0.066978279 | 0.271 | 1 | 6598 | SMARCB1 |
| 0.126648159 | 0.067023251 | 0.284 | 1 | 4738 | NEDD8 |
| 0.126637792 | 0.067045747 | 0.279 | 1 | 60674 | GAS5 |
| 0.126632609 | 0.067056997 | 0.292 | 1 | 121441 | NEDD1 |
| 0.126624834 | 0.067073875 | 0.264 | 1 | 84458 | LCOR |
| 0.12661706 | 0.067090756 | 0.284 | 1 | 26070 | AP002380.3 |

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| 0.046890934 | 3.54409E-60 | 80263 | TRIM45 |
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| 0.046854209 | 4.37495E-60 | 55148 | UBR7 |
| 0.04684399 | 4.63887E-60 | 59271 | C21orf63 |
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| 0.046834863 | 4.88796E-60 | 7353 | UFD1L |
| 0.046826344 | 5.13247E-60 | 345456 | PFN3 |
| 0.046820824 | 5.29737E-60 | 51715 | RAB23 |
| 0.04681396 | 5.5098E-60 | 9823 | ARMCX2 |
| 0.046813748 | 5.51649E-60 | 123722 | FSD2 |
| 0.046805265 | 5.79113E-60 | 3099 | HK2 |
| 0.046804188 | 5.82694E-60 | 84876 | ORAI1 |
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| 0.046755585 | 7.69583E-60 | 5127 | PCTK1 |
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| 0.046715622 | 9.6716E-60 | 5980 | REV3L |
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| 0.046697565 | 1.07229E-59 | 170591 | S100Z |
| 0.046690762 | 1.11478E-59 | 3460 | IFNGR2 |
| 0.046680369 | 1.18297E-59 | 90070 | LACRT |
| 0.046676673 | 1.2082E-59 | 130940 | CCDC148 |
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| 0.046661348 | 1.3187E-59 | 50807 | ASAP1 |
| 0.046645587 | 1.44284E-59 | 9260 | PDLIM7 |
| 0.046643993 | 1.45602E-59 | 27185 | DISC1 |
| 0.046638148 | 1.50541E-59 | 10907 | TXNL4A |
| 0.046632104 | 1.55823E-59 | 55741 | EDEM2 |
| 0.046622212 | 1.6487E-59 | 124995 | MRPL10 |
| 0.046617078 | 1.69769E-59 | 57678 | GPAM |
| 0.046615579 | 1.71227E-59 | 908 | CCT6A |
| 0.046612761 | 1.74001E-59 | 158801 | NKAPP1 |
| 0.046600651 | 1.86441E-59 | 389432 | SAMD5 |
| 0.046598136 | 1.89134E-59 | 8999 | CDKL2 |
| 0.046585239 | 2.03563E-59 | 3267 | AGFG1 |
| 0.04658338 | 2.05732E-59 | 55773 | TBC1D23 |
| 0.046582315 | 2.06984E-59 | 9342 | SNAP29 |
| 0.04658 | 2.09734E-59 | 64598 | MOSPD3 |
| 0.046559192 | 2.36134E-59 | 375790 | AGRN |
| 0.046551317 | 2.46968E-59 | 54585 | LZTFL1 |
| 0.046533799 | 2.72875E-59 | 402360 | LOC402360 |
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| 0.046453992 | 4.29668E-59 | 8729 | GBF1 |
| 0.046435068 | 4.7845E-59 | 57535 | KIAA1324 |
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| 0.046411588 | 5.4671E-59 | 152006 | RNF38 |
| 0.046405927 | 5.6457E-59 | 146849 | CCDC42 |
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| 0.046397024 | 5.93842E-59 | 5730 | PTGDS |
| 0.046385663 | 6.33398E-59 | 527 | ATP6V0C |
| 0.046374724 | 6.73962E-59 | 8625 | RFXANK |
| 0.046361513 | 7.26419E-59 | 5537 | PPP6C |
| 0.046355558 | 7.51375E-59 | 5179 | PENK |
| 0.046351864 | 7.67281E-59 | 3423 | IDS |
| 0.046348597 | 7.81629E-59 | 1608 | DGKG |
| 0.046348103 | 7.83822E-59 | 6500 | SKP1 |
| 0.04634219 | 8.10552E-59 | 5920 | RARRES3 |
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| 0.046304631 | 1.00285E-58 | 51050 | PI15 |
| 0.04628147 | 1.14342E-58 | 55915 | LANCL2 |
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| 0.0462092 | 1.72109E-58 | 26504 | CNNM4 |
| 0.04620298 | 1.78269E-58 | 10613 | ERLIN1 |
| 0.046198513 | 1.82828E-58 | 1459 | CSNK2A2 |
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| 0.04618377 | 1.98715E-58 | 340260 | UNCX |
| 0.046135242 | 2.61374E-58 | 59348 | ZNF350 |
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| 0.04611599 | 2.91373E-58 | 64848 | YTHDC2 |
| 0.046096481 | 3.25273E-58 | 80816 | ASXL3 |
| 0.046085464 | 3.46124E-58 | 25793 | FBXO7 |
| 0.046077479 | 3.62063E-58 | 7549 | ZNF2 |
| 0.046077417 | 3.62191E-58 | 285987 | DLX6-AS1 |
| 0.046067992 | 3.81954E-58 | 10008 | KCNE3 |
| 0.046051644 | 4.18816E-58 | 341 | APOC1 |

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| 0.126589848 | 0.067149869 | 0.255 | 1 | 84107 | ZIC4 |
| 0.12655227 | 0.067231571 | 0.246 | 1 | 344595 | RP11-446H18.3 |
| 0.126496552 | 0.067352864 | 0.258 | 1 | 317772 | HIST2H2AB |
| 0.126468044 | 0.067414991 | 0.29 | 1 | 3838 | KPNA2 |
| 0.126443424 | 0.067468683 | 0.288 | 1 | 10281 | DSCR4 |
| 0.126409734 | 0.067542214 | 0.264 | 1 | 89790 | SIGLEC10 |
| 0.126399368 | 0.067564851 | 0.285 | 1 | 28976 | ACAD9 |
| 0.126315142 | 0.067749015 | 0.282 | 1 | 284417 | TMEM150B |
| 0.126291817 | 0.067800087 | 0.261 | 1 | 90594 | ZNF439 |
| 0.126260719 | 0.067868231 | 0.305 | 1 | 340543 | TCEAL5 |
| 0.126216662 | 0.067964865 | 0.278 | 1 | 3454 | IFNAR1 |
| 0.126186859 | 0.068030299 | 0.277 | 1 | 27032 | ATP2C1 |
| 0.126085787 | 0.068252589 | 0.269 | 1 | 79841 | AGBL2 |
| 0.126054689 | 0.068321105 | 0.252 | 1 | 26985 | AP3M1 |
| 0.126046914 | 0.068338243 | 0.284 | 1 | 83443 | SF3B5 |
| 0.126028773 | 0.068378245 | 0.305 | 1 | 26276 | VPS33B |
| 0.125883645 | 0.06869895 | 0.275 | 1 | 1201 | CLN3 |
| 0.125865504 | 0.068739125 | 0.243 | 1 | 347689 | SOX2-OT |
| 0.125803306 | 0.068877011 | 0.269 | 1 | 4135 | MAP6 |
| 0.125803306 | 0.068877011 | 0.276 | 1 | 127018 | LYPLAL1 |
| 0.125767024 | 0.06895755 | 0.306 | 1 | 29102 | RNASEN |
| 0.125733334 | 0.069032404 | 0.259 | 1 | 7069 | THRSP |
| 0.125650403 | 0.069216944 | 0.276 | 1 | 29106 | SCG3 |
| 0.125633558 | 0.069254478 | 0.281 | 1 | 51072 | MEMO1 |
| 0.125628375 | 0.06926603 | 0.304 | 1 | 51199 | NIN |
| 0.125529895 | 0.069485821 | 0.301 | 1 | 283659 | PRTG |
| 0.125505275 | 0.069540858 | 0.26 | 1 | 100287825 | LOC100287825 |
| 0.125500092 | 0.069552449 | 0.282 | 1 | 80741 | LY6G5C |
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| 0.125395134 | 0.069787511 | 0.276 | 1 | 388722 | C1orf53 |
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| 0.125209836 | 0.07020408 | 0.278 | 1 | 3912 | LAMB1 |
| 0.1251904 | 0.070247893 | 0.298 | 1 | 100130776 | RP11-571M6.6 |
| 0.125180033 | 0.070271269 | 0.28 | 1 | 9235 | IL32 |
| 0.125143751 | 0.070353136 | 0.311 | 1 | 266675 | BEST4 |
| 0.125124314 | 0.070397026 | 0.3 | 1 | 3352 | HTR1D |
| 0.125119131 | 0.070408733 | 0.286 | 1 | 84075 | FSCB |
| 0.125095807 | 0.070461437 | 0.287 | 1 | 390535 | GOLGA8E |
| 0.125066004 | 0.070528827 | 0.303 | 1 | 3683 | ITGAL |
| 0.125053046 | 0.070558144 | 0.299 | 1 | 92749 | C2orf39 |
| 0.125034905 | 0.070599204 | 0.267 | 1 | 23533 | PIK3R5 |
| 0.125014173 | 0.070646153 | 0.252 | 1 | 8458 | TTF2 |
| 0.12500899 | 0.070657895 | 0.306 | 1 | 146547 | PRSS36 |
| 0.124990849 | 0.070699002 | 0.284 | 1 | 152404 | IGSF11 |
| 0.124985665 | 0.07071075 | 0.26 | 1 | 9240 | PNMA1 |
| 0.124971412 | 0.070743067 | 0.294 | 1 | 148808 | MFSD4 |
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| 0.124896256 | 0.070913663 | 0.306 | 1 | 10342 | TFG |
| 0.124847016 | 0.071025615 | 0.277 | 1 | 84983 | MGC14436 |
| 0.124840537 | 0.071040356 | 0.283 | 1 | 164832 | LONRF2 |
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| 0.124727804 | 0.071297252 | 0.304 | 1 | 26534 | OR10G2 |
| 0.124691522 | 0.071380093 | 0.279 | 1 | 1723 | DHODH |
| 0.124594338 | 0.071602373 | 0.283 | 1 | 10480 | EIF3M |
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| 0.124538619 | 0.071730067 | 0.267 | 1 | 10752 | CHL1 |
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| 0.124174503 | 0.072569112 | 0.295 | 1 | 84986 | ARHGAP19 |
| 0.124152475 | 0.072620128 | 0.306 | 1 | 59351 | PBOV1 |
| 0.124070841 | 0.072809442 | 0.289 | 1 | 84694 | GJA10 |
| 0.123916642 | 0.07316813 | 0.283 | 1 | 8729 | GBF1 |
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| 0.123892022 | 0.073225533 | 0.274 | 1 | 25976 | TIPARP |
| 0.123890726 | 0.073228555 | 0.315 | 1 | 730144 | LOC730144 |
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| 0.123807796 | 0.073422187 | 0.295 | 1 | 348180 | C16orf84 |
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| 0.123684696 | 0.073710377 | 0.263 | 1 | 10570 | DPYSL4 |
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| 0.045907208 | 9.43904E-58 | 91050 | CCDC149 |
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| 0.045822684 | 1.51682E-57 | 2296 | FOXC1 |
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| 0.045790073 | 1.82102E-57 | 1855 | DVL1 |
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| 0.045751715 | 2.25742E-57 | 2350 | FOLR2 |
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| 0.045730133 | 2.54724E-57 | 55084 | SOBP |
| 0.045701504 | 2.98965E-57 | 388581 | FAM132A |
| 0.045695661 | 3.08895E-57 | 7846 | TUBA1A |
| 0.045683942 | 3.2981E-57 | 130814 | PQLC3 |
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| 0.045648751 | 4.01481E-57 | 2673 | GFPT1 |
| 0.045637455 | 4.27625E-57 | 145165 | ST13P4 |
| 0.045623261 | 4.62894E-57 | 8635 | RNASET2 |
| 0.045593477 | 5.46598E-57 | 9293 | GPR52 |
| 0.045578512 | 5.94181E-57 | 8882 | ZNF259 |
| 0.045567003 | 6.33565E-57 | 154743 | C7orf60 |
| 0.045558688 | 6.63628E-57 | 646424 | SPINK8 |
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| 0.045523918 | 8.05515E-57 | 284207 | METRNL |
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| 0.045387033 | 1.72476E-56 | 5519 | PPP2R1B |
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| 0.0453391 | 2.2505E-56 | 2938 | GSTA1 |
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| 0.045303032 | 2.74883E-56 | 84131 | CEP78 |
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| 0.045271711 | 3.26985E-56 | 3839 | KPNA3 |
| 0.045261044 | 3.46886E-56 | 79602 | ADIPOR2 |
| 0.045243119 | 3.83083E-56 | 8736 | MYOM1 |
| 0.045209945 | 7.25491E-56 | 55512 | SMPD3 |
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| 0.04514331 | 6.65279E-56 | 202018 | TAPT1 |
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| 0.045100233 | 8.43917E-56 | 81669 | CCNL2 |
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| 0.045092257 | 8.81887E-56 | 2831 | NPBWR1 |
| 0.045084465 | 9.20629E-56 | 3123 | HLA-DRB1 |
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| 0.044953309 | 1.89614E-55 | 57007 | CXCR7 |
| 0.044929434 | 2.16218E-55 | 58508 | MLL3 |
| 0.044876691 | 2.88905E-55 | 3768 | KCNJ12 |
| 0.04486487 | 3.08279E-55 | 157848 | NKX6-3 |
| 0.044853337 | 3.28426E-55 | 55622 | TTC27 |
| 0.044851626 | 3.31525E-55 | 150759 | LINC00342 |
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| 0.123407398 | 0.074362933 | 0.285 | 1 | 55366 | LGR4 |
| 0.123355567 | 0.074485425 | 0.299 | 1 | 8945 | BTRC |
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| 0.123250608 | 0.074733974 | 0.268 | 1 | 7481 | WNT11 |
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| 0.123133987 | 0.07501093 | 0.298 | 1 | 8800 | PEX11A |
| 0.1231301 | 0.075020176 | 0.29 | 1 | 133923 | ZNF474 |
| 0.123091227 | 0.075112689 | 0.301 | 1 | 378 | ARF4 |
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| 0.123017367 | 0.075288718 | 0.286 | 1 | 54843 | SYTL2 |
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| 0.122960352 | 0.075424829 | 0.289 | 1 | 3840 | KPNA4 |
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| 0.122837253 | 0.075719387 | 0.303 | 1 | 9532 | BAG2 |
| 0.12281652 | 0.075769089 | 0.272 | 1 | 63976 | PRDM16 |
| 0.122800971 | 0.075806382 | 0.28 | 1 | 63974 | NEUROD6 |
| 0.122769872 | 0.075881014 | 0.306 | 1 | 1524 | CX3CR1 |
| 0.122741364 | 0.075949479 | 0.302 | 1 | 7386 | UQCRFS1 |
| 0.122738773 | 0.075955705 | 0.283 | 1 | 55748 | CNDP2 |
| 0.122699899 | 0.076049153 | 0.26 | 1 | 8462 | KLF11 |
| 0.122679167 | 0.07609903 | 0.302 | 1 | 56267 | CCBL2 |
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| 0.122581983 | 0.076333183 | 0.288 | 1 | 100128775 | LOC100128775 |
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| 0.122519785 | 0.076483347 | 0.246 | 1 | 2914 | GRM4 |
| 0.122444629 | 0.076665114 | 0.325 | 1 | 6916 | TBXAS1 |
| 0.122399277 | 0.076774971 | 0.328 | 1 | 25853 | WDR40A |
| 0.122361699 | 0.076866092 | 0.292 | 1 | 29942 | PURG |
| 0.122294318 | 0.0770297 | 0.292 | 1 | 84318 | CCDC77 |
| 0.122276177 | 0.077073797 | 0.32 | 1 | 122706 | PSMB11 |
| 0.122194543 | 0.077272485 | 0.3 | 1 | 81542 | TMX1 |
| 0.122144007 | 0.07739569 | 0.308 | 1 | 283489 | ZNF828 |
| 0.122133641 | 0.077420983 | 0.284 | 1 | 100288570 | AC108938.1 |
| 0.122107725 | 0.077484244 | 0.294 | 1 | 2059 | EPS8 |
| 0.122096063 | 0.077512725 | 0.299 | 1 | 56241 | SUSD2 |
| 0.122072739 | 0.077569712 | 0.27 | 1 | 147686 | ZNF418 |
| 0.122064964 | 0.077588715 | 0.299 | 1 | 1080 | CFTR |
| 0.122039049 | 0.077652087 | 0.268 | 1 | 4695 | NDUFA2 |
| 0.122006654 | 0.07773136 | 0.303 | 1 | 3310 | HSPA6 |
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| 0.121930202 | 0.077918706 | 0.292 | 1 | 23164 | MPRIP |
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| 0.121871892 | 0.078061842 | 0.308 | 1 | 386653 | IL31 |
| 0.121858934 | 0.078093679 | 0.315 | 1 | 5524 | PPP2R4 |
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| 0.121655496 | 0.078594898 | 0.272 | 1 | 54543 | TOMM7 |
| 0.121612735 | 0.078700581 | 0.281 | 1 | 6768 | ST14 |
| 0.121599777 | 0.078732628 | 0.282 | 1 | 7472 | WNT2 |
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| 0.121564791 | 0.07881921 | 0.286 | 1 | 439933 | MGC42157 |
| 0.121558312 | 0.078835252 | 0.31 | 1 | 5720 | PSME1 |
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| 0.121515551 | 0.078941195 | 0.29 | 1 | 28974 | C19orf53 |
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| 0.121119041 | 0.079929077 | 0.314 | 1 | 245936 | DEFB123 |
| 0.121112562 | 0.079945302 | 0.286 | 1 | 7117 | TMSB4XP8 |
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| 0.1211009 | 0.079974512 | 0.309 | 1 | 8760 | CDS2 |
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| 0.04387535 | 6.64286E-53 | 57495 | KIAA1239 |
| 0.043856459 | 7.35186E-53 | 84549 | MAK16 |
| 0.043852767 | 7.49901E-53 | 79998 | ANKRD53 |
| 0.043844029 | 7.859E-53 | 4991 | OR1D2 |
| 0.043817495 | 9.06108E-53 | 387486 | LINC00320 |
| 0.043817244 | 9.07333E-53 | 11274 | USP18 |
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| 0.043764261 | 1.20526E-52 | 23614 | PPY2 |

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| 0.120822306 | 0.080674892 | 0.313 | 1 | 202299 | C5ORF27 |
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| 0.120679769 | 0.081035136 | 0.33 | 1 | 8453 | CUL2 |
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| 0.120647375 | 0.081117191 | 0.321 | 1 | 147710 | AC138472.2 |
| 0.120625346 | 0.081173026 | 0.265 | 1 | 23385 | NCSTN |
| 0.120618867 | 0.081189454 | 0.286 | 1 | 50940 | PDE11A |
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| 0.120177004 | 0.082316198 | 0.319 | 1 | 6173 | RPL36A |
| 0.12009537 | 0.082525739 | 0.294 | 1 | 23335 | WDR7 |
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| 0.12004613 | 0.082652336 | 0.296 | 1 | 7538 | ZFP36 |
| 0.12004613 | 0.082652336 | 0.312 | 1 | 79825 | CCDC48 |
| 0.120029285 | 0.082695681 | 0.291 | 1 | 26094 | DCAF4 |
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| 0.12002151 | 0.082715693 | 0.298 | 1 | 390424 | ATP5G1P5 |
| 0.11998782 | 0.082802456 | 0.303 | 1 | 39 | ACAT2 |
| 0.11998782 | 0.082802456 | 0.309 | 1 | 5496 | PPM1G |
| 0.119970974 | 0.082845865 | 0.318 | 1 | 6874 | TAF4 |
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| 0.119758466 | 0.083395061 | 0.326 | 1 | 57600 | FNIP2 |
| 0.119750691 | 0.083415209 | 0.283 | 1 | 887 | CCKBR |
| 0.119553731 | 0.083926935 | 0.282 | 1 | 169792 | GLIS3 |
| 0.119545957 | 0.083947187 | 0.288 | 1 | 114798 | SLITRK1 |
| 0.119523928 | 0.084004587 | 0.307 | 1 | 127731 | VWA5B1 |
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| 0.119429336 | 0.084251431 | 0.315 | 1 | 22990 | PCNX |
| 0.11941897 | 0.084278518 | 0.311 | 1 | 353143 | LCE3B |
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| 0.119253109 | 0.084712861 | 0.327 | 1 | 8491 | MAP4K3 |
| 0.119117052 | 0.085070501 | 0.326 | 1 | 9734 | HDAC9 |
| 0.119088544 | 0.085145588 | 0.283 | 1 | 355 | FAS |
| 0.119074291 | 0.085183152 | 0.3 | 1 | 4522 | MTHFD1 |
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| 0.119021163 | 0.08532328 | 0.343 | 1 | 51032 | CELA2B |
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| 0.118913613 | 0.085607521 | 0.311 | 1 | 79858 | NEK11 |
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| 0.118715358 | 0.086133479 | 0.292 | 1 | 196394 | AMN1 |
| 0.118712766 | 0.086140371 | 0.285 | 1 | 5394 | EXOSC10 |
| 0.118697217 | 0.086181735 | 0.339 | 1 | 1475 | CSTA |
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| 0.118645386 | 0.086319729 | 0.332 | 1 | 137797 | LYPD2 |
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| 0.11852099 | 0.08665164 | 0.319 | 1 | 84071 | ARMC2 |
| 0.118465271 | 0.08680064 | 0.338 | 1 | 7374 | UNG |
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| 0.11829034 | 0.087269769 | 0.326 | 1 | 5134 | PDCD2 |
| 0.1182411 | 0.087402187 | 0.318 | 1 | 63928 | AC130454.1 |
| 0.118239805 | 0.087405674 | 0.318 | 1 | 1109 | AKR1C4 |
| 0.118237213 | 0.087412648 | 0.319 | 1 | 6542 | SLC7A2 |
| 0.118230734 | 0.087430085 | 0.323 | 1 | 346653 | FAM71F2 |
| 0.11821648 | 0.087468456 | 0.33 | 1 | 400750 | LOC400750 |
| 0.118208706 | 0.087489391 | 0.318 | 1 | 6138 | RPL15 |
| 0.118132254 | 0.087695471 | 0.337 | 1 | 221749 | C6orf145 |
| 0.118116705 | 0.087737433 | 0.302 | 1 | 58505 | OSTC |
| 0.118103747 | 0.087772414 | 0.329 | 1 | 6517 | SLC2A4 |
| 0.118092085 | 0.087803906 | 0.267 | 1 | 1006 | CDH8 |
| 0.118073944 | 0.087852912 | 0.316 | 1 | 201895 | C4orf34 |
| 0.118057099 | 0.087898437 | 0.318 | 1 | 81552 | VOPP1 |
| 0.118057099 | 0.087898437 | 0.322 | 1 | 375341 | C3orf62 |
| 0.118020817 | 0.087996556 | 0.292 | 1 | 2633 | GBP1 |
| 0.118013042 | 0.088017593 | 0.292 | 1 | 84250 | ANKRD32 |
| 0.117984535 | 0.088094762 | 0.322 | 1 | 63934 | ZNF667 |
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| 0.043720562 | 1.52292E-52 | 23161 | SNX13 |
| 0.043668112 | 2.01598E-52 | 149018 | LELP1 |
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| 0.043655692 | 2.15431E-52 | 1975 | EIF4B |
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| 0.043611837 | 2.72279E-52 | 112752 | C14orf179 |
| 0.043603853 | 2.84133E-52 | 158405 | KIAA1958 |
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| 0.043533088 | 4.14373E-52 | 55589 | BMP2K |
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| 0.043512429 | 4.62575E-52 | 112574 | SNX18 |
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| 0.04347032 | 5.78791E-52 | 4360 | MRC1 |
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| 0.043404364 | 8.21863E-52 | 6932 | TCF7 |
| 0.04339811 | 8.49625E-52 | 6753 | SSTR3 |
| 0.043394048 | 8.68154E-52 | 5196 | PF4 |
| 0.043357807 | 1.05233E-51 | 284018 | C17orf58 |
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| 0.04332334 | 1.26343E-51 | 5260 | PHKG1 |
| 0.04331447 | 1.32426E-51 | 90956 | ADCK2 |
| 0.043256231 | 1.80288E-51 | 23098 | SARM1 |
| 0.04323084 | 2.06218E-51 | 79613 | TMCO7 |
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| 0.043209186 | 2.31245E-51 | 26246 | OR2L2 |
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| 0.043197191 | 2.46387E-51 | 57600 | FNIP2 |
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| 0.043171039 | 2.82909E-51 | 5360 | PLTP |
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| 0.04312509 | 3.60602E-51 | 29086 | C19orf62 |
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| 0.042899303 | 1.1837E-50 | 4060 | LUM |
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| 0.042876612 | 1.33343E-50 | 140564 | APOBEC3D |
| 0.042871249 | 1.37149E-50 | 79092 | CARD14 |
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| 0.042756759 | 2.4989E-50 | 835 | CASP2 |
| 0.042754616 | 2.52708E-50 | 165186 | FAM179A |
| 0.042698604 | 3.38713E-50 | 23034 | SAMD4A |
| 0.042692888 | 3.48984E-50 | 11145 | PLA2G16 |
| 0.042688054 | 3.57912E-50 | 138046 | RALYL |
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| 0.117884759 | 0.088365282 | 0.353 | 1 | 55117 | SLC6A15 |
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| 0.117840703 | 0.088484945 | 0.297 | 1 | 55240 | STEAP3 |
| 0.117765547 | 0.088689374 | 0.311 | 1 | 7753 | ZNF202 |
| 0.117764251 | 0.088692902 | 0.295 | 1 | 8200 | GDF5 |
| 0.117757772 | 0.088710544 | 0.296 | 1 | 139081 | MAGEC3 |
| 0.11764763 | 0.08901088 | 0.324 | 1 | 112464 | PRKCDBP |
| 0.117616532 | 0.089095828 | 0.302 | 1 | 7803 | PTP4A1 |
| 0.117615236 | 0.089099369 | 0.28 | 1 | 144363 | LYRM5 |
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| 0.117245937 | 0.090113134 | 0.27 | 1 | 92285 | ZNF585B |
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| 0.11721743 | 0.090191772 | 0.303 | 1 | 7091 | TLE4 |
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| 0.11712802 | 0.090438765 | 0.346 | 1 | 5211 | PFKL |
| 0.117015287 | 0.090750962 | 0.332 | 1 | 116085 | SLC22A12 |
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| 0.116906441 | 0.091053211 | 0.341 | 1 | 392 | ARHGAP1 |
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| 0.116802778 | 0.091341815 | 0.299 | 1 | 84620 | ST6GAL2 |
| 0.116762609 | 0.091453845 | 0.328 | 1 | 284383 | OR2Z1 |
| 0.116708186 | 0.091605804 | 0.294 | 1 | 2308 | FOXO1 |
| 0.116642101 | 0.091790596 | 0.314 | 1 | 23168 | RTF1 |
| 0.116639509 | 0.091797849 | 0.318 | 1 | 127623 | OR2B11 |
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| 0.11662396 | 0.091841375 | 0.33 | 1 | 3484 | IGFBP1 |
| 0.116592861 | 0.091928478 | 0.321 | 1 | 56097 | PCDHGC5 |
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| 0.116459395 | 0.092303042 | 0.313 | 1 | 6229 | RPS24 |
| 0.116454212 | 0.092317613 | 0.319 | 1 | 441452 | FAM75C1 |
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| 0.11641793 | 0.09241966 | 0.35 | 1 | 83483 | PLVAP |
| 0.116404972 | 0.092456127 | 0.337 | 1 | 644844 | AC013356.1 |
| 0.11640238 | 0.092463422 | 0.287 | 1 | 11072 | DUSP14 |
| 0.116373873 | 0.092543695 | 0.285 | 1 | 8697 | CDC23 |
| 0.11636869 | 0.092558296 | 0.318 | 1 | 2107 | ETF1 |
| 0.116296126 | 0.092762904 | 0.328 | 1 | 940 | CD28 |
| 0.116223562 | 0.092967874 | 0.287 | 1 | 2628 | GATM |
| 0.116185984 | 0.09307416 | 0.316 | 1 | 79857 | AC024940.3 |
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| 0.116130265 | 0.093231937 | 0.331 | 1 | 126549 | ANKLE1 |
| 0.116106941 | 0.093298046 | 0.303 | 1 | 80758 | PRR7 |
| 0.11599032 | 0.093629153 | 0.33 | 1 | 118487 | CHCHD1 |
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| 0.115736346 | 0.094353475 | 0.315 | 1 | 144486 | LOC144486 |
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| 0.115567894 | 0.094836351 | 0.324 | 1 | 219537 | SMTNL1 |
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| 0.115400738 | 0.095317458 | 0.333 | 1 | 5396 | PRRX1 |
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| 0.115167497 | 0.095992015 | 0.322 | 1 | 8175 | SF3A2 |
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| 0.042416243 | 1.47435E-49 | 118442 | GPR62 |
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| 0.042284323 | 2.92139E-49 | 5777 | PTPN6 |
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| 0.04220433 | 4.41802E-49 | 2815 | GP9 |
| 0.042195089 | 4.63401E-49 | 83884 | SLC25A2 |
| 0.042180285 | 5.00217E-49 | 10096 | ACTR3 |
| 0.042166796 | 5.3629E-49 | 7547 | ZIC3 |
| 0.042155428 | 5.68692E-49 | 54932 | EXD3 |
| 0.042145151 | 5.99663E-49 | 23007 | PLCH1 |
| 0.042135795 | 6.29312E-49 | 26281 | FGF20 |
| 0.042133505 | 6.36787E-49 | 388561 | ZNF761 |
| 0.042130832 | 6.45627E-49 | 29959 | NRBP1 |
| 0.042121104 | 6.78838E-49 | 84259 | DCUN1D5 |
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| 0.042098706 | 7.61912E-49 | 3782 | KCNN3 |
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| 0.042072639 | 8.71417E-49 | 4089 | SMAD4 |
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| 0.042051543 | 1.78122E-48 | 375611 | SLC26A5 |
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| 0.042034846 | 1.05856E-48 | 2519 | FUCA2 |
| 0.042034222 | 1.06196E-48 | 55793 | FAM63A |
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| 0.042004733 | 1.2359E-48 | 8897 | MTMR3 |
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| 0.041976213 | 1.43102E-48 | 10249 | GLYAT |
| 0.041951958 | 1.6209E-48 | 1069 | CETN2 |
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| 0.04192562 | 1.85557E-48 | 326625 | MMAB |
| 0.04189677 | 2.15157E-48 | 386684 | KRTAP12-4 |
| 0.041891273 | 2.21309E-48 | 113 | ADCY7 |
| 0.041872659 | 2.43469E-48 | 9246 | UBE2L6 |
| 0.041859567 | 2.60365E-48 | 23520 | ANP32C |
| 0.041859237 | 2.60806E-48 | 896 | CCND3 |
| 0.041857645 | 2.62942E-48 | 401546 | C9orf152 |
| 0.041856259 | 2.64816E-48 | 4947 | OAZ2 |
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| 0.114939438 | 0.096655252 | 0.302 | 1 | 10765 | KDM5B |
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| 0.114803381 | 0.097052665 | 0.301 | 1 | 5423 | POLB |
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| 0.114154192 | 0.098966818 | 0.328 | 1 | 342371 | ATXN1L |
| 0.114094586 | 0.09914406 | 0.342 | 1 | 811 | CALR |
| 0.114086811 | 0.099167198 | 0.34 | 1 | 388569 | ZNF324B |
| 0.11401036 | 0.099394941 | 0.313 | 1 | 283927 | NUDT7 |
| 0.113901514 | 0.099719901 | 0.351 | 1 | 26279 | PLA2G2D |
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| 0.113883373 | 0.099774143 | 0.305 | 1 | 1604 | CD55 |
| 0.113856161 | 0.09985555 | 0.323 | 1 | 2665 | GDI2 |
| 0.113839316 | 0.099905971 | 0.345 | 1 | 144717 | FAM109A |
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| 0.113766752 | 0.1001234 | 0.329 | 1 | 9368 | SLC9A3R1 |
| 0.113711033 | 0.100290609 | 0.323 | 1 | 10992 | SF3B2 |
| 0.11370585 | 0.100306175 | 0.348 | 1 | 6640 | SNTA1 |
| 0.113635878 | 0.100516497 | 0.332 | 1 | 301 | ANXA1 |
| 0.113624216 | 0.100551585 | 0.351 | 1 | 23645 | PPP1R15A |
| 0.113609962 | 0.100594484 | 0.306 | 1 | 3768 | KCNJ12 |
| 0.113489454 | 0.100957749 | 0.321 | 1 | 1070 | CETN3 |
| 0.113432439 | 0.101129978 | 0.355 | 1 | 9344 | TAOK2 |
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| 0.113383199 | 0.101278908 | 0.343 | 1 | 6672 | SP100 |
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| 0.113138296 | 0.102022225 | 0.343 | 1 | 51132 | RLIM |
| 0.113109789 | 0.102109028 | 0.319 | 1 | 2923 | PDIA3 |
| 0.113079986 | 0.10219984 | 0.309 | 1 | 387758 | FIBIN |
| 0.113073507 | 0.10221959 | 0.318 | 1 | 6369 | CCL24 |
| 0.113041112 | 0.102318386 | 0.336 | 1 | 551 | AVP |
| 0.113002238 | 0.102437041 | 0.285 | 1 | 83549 | UCK1 |
| 0.112949111 | 0.102599378 | 0.329 | 1 | 254122 | SNX32 |
| 0.112929674 | 0.102658821 | 0.323 | 1 | 1288 | COL4A6 |
| 0.112912829 | 0.10271036 | 0.363 | 1 | 2702 | GJA5 |
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| 0.112875251 | 0.102825405 | 0.356 | 1 | 55515 | ACCN4 |
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| 0.112809166 | 0.103027973 | 0.301 | 1 | 11309 | SLCO2B1 |
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| 0.112688658 | 0.103398175 | 0.372 | 1 | 1855 | DVL1 |
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| 0.112246795 | 0.104764584 | 0.33 | 1 | 63925 | ZNF335 |
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| 0.112095188 | 0.105236682 | 0.343 | 1 | 100129387 | GABPB1-AS1 |
| 0.112042061 | 0.105402515 | 0.348 | 1 | 29880 | ALG5 |
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| 0.112004483 | 0.105519936 | 0.316 | 1 | 2776 | GNAQ |
| 0.111938398 | 0.105726685 | 0.348 | 1 | 828 | CAPS |
| 0.111917666 | 0.105791613 | 0.344 | 1 | 144448 | TSPAN19 |
| 0.111747918 | 0.106324397 | 0.356 | 1 | 148753 | FAM163A |
| 0.1116611 | 0.106597706 | 0.325 | 1 | 10675 | CSPG5 |
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| 0.111601494 | 0.106785672 | 0.352 | 1 | 27348 | TOR1B |
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| 0.111491352 | 0.107133686 | 0.361 | 1 | 729009 | FTH1P20 |
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| 0.041578596 | 1.09333E-47 | 125704 | C18orf51 |
| 0.041545657 | 1.2928E-47 | 1439 | CSF2RB |
| 0.041533117 | 1.37793E-47 | 84466 | MEGF10 |
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| 0.041502026 | 1.61381E-47 | 9770 | RASSF2 |
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| 0.041469517 | 1.9035E-47 | 29895 | MYLPF |
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| 0.041468254 | 1.91575E-47 | 57585 | CRAMP1L |
| 0.041465643 | 1.94131E-47 | 163033 | ZNF579 |
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| 0.041459013 | 2.00775E-47 | 117583 | PARD3B |
| 0.041456087 | 2.03779E-47 | 3695 | ITGB7 |
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| 0.041447894 | 2.12429E-47 | 23411 | SIRT1 |
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| 0.041394696 | 2.78205E-47 | 11024 | LILRA1 |
| 0.041393803 | 2.79467E-47 | 23164 | MPRIP |
| 0.041389114 | 2.86187E-47 | 784 | CACNB3 |
| 0.041366682 | 3.20624E-47 | 3957 | LGALS2 |
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| 0.041266337 | 5.32621E-47 | 8704 | B4GALT2 |
| 0.041264518 | 5.37537E-47 | 4642 | MYO1D |
| 0.041253469 | 5.6839E-47 | 7114 | TMSB4X |
| 0.041210995 | 7.04299E-47 | 23503 | ZFYVE26 |
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| 0.041096727 | 1.25251E-46 | 55333 | SYNJ2BP |
| 0.041093802 | 1.27107E-46 | 60686 | C14orf93 |
| 0.041086225 | 1.32046E-46 | 92565 | FANK1 |
| 0.041084371 | 1.33283E-46 | 148423 | C1orf52 |
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| 0.041067609 | 1.45004E-46 | 728327 | LOC728327 |
| 0.041067381 | 1.45171E-46 | 55558 | PLXNA3 |
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| 0.041051004 | 1.57627E-46 | 57549 | IGSF9 |
| 0.041049953 | 1.58461E-46 | 51596 | CUTA |
| 0.041041531 | 1.65312E-46 | 170575 | GIMAP1 |
| 0.04103627 | 1.90456E-46 | 9369 | NRXN3 |
| 0.041023792 | 1.80719E-46 | 64121 | RRAGC |
| 0.041021467 | 1.82842E-46 | 127550 | A3GALT2P |
| 0.041018873 | 1.85239E-46 | 6278 | S100A7 |
| 0.041016797 | 1.8718E-46 | 8664 | EIF3D |
| 0.041015367 | 1.88529E-46 | 2571 | GAD1 |
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| 0.111225716 | 0.107976692 | 0.317 | 1 | 4808 | NHLH2 |
| 0.111203688 | 0.108046834 | 0.338 | 1 | 51143 | DYNC1LI1 |
| 0.111154448 | 0.108203751 | 0.333 | 1 | 84172 | POLR1B |
| 0.111087067 | 0.10841877 | 0.339 | 1 | 140831 | ZSWIM3 |
| 0.111071518 | 0.108468437 | 0.345 | 1 | 55643 | BTBD2 |
| 0.111035236 | 0.108584398 | 0.331 | 1 | 1459 | CSNK2A2 |
| 0.110905657 | 0.108999339 | 0.353 | 1 | 286359 | LOC286359 |
| 0.110856417 | 0.109157343 | 0.369 | 1 | 6524 | SLC5A2 |
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| 0.110847347 | 0.109186469 | 0.315 | 1 | 5571 | PRKAG1 |
| 0.110839572 | 0.109211438 | 0.322 | 1 | 26275 | HIBCH |
| 0.110816248 | 0.109286374 | 0.341 | 1 | 80725 | AC115090.1 |
| 0.110801994 | 0.109332189 | 0.353 | 1 | 10584 | COLEC10 |
| 0.110750163 | 0.109498913 | 0.325 | 1 | 23555 | TSPAN15 |
| 0.110742388 | 0.109523939 | 0.362 | 1 | 200845 | KCTD6 |
| 0.11070481 | 0.109644961 | 0.336 | 1 | 4889 | NPY5R |
| 0.11068019 | 0.109724308 | 0.32 | 1 | 56852 | RAD18 |
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| 0.110675007 | 0.109741018 | 0.353 | 1 | 2110 | ETFDH |
| 0.110589485 | 0.110017029 | 0.359 | 1 | 284612 | SYPL2 |
| 0.110557091 | 0.110121721 | 0.329 | 1 | 387522 | TMEM189-UBE2V1 |
| 0.110430104 | 0.110532868 | 0.348 | 1 | 642946 | FLVCR1-AS1 |
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| 0.110376976 | 0.110705236 | 0.353 | 1 | 138799 | OR13C5 |
| 0.110335511 | 0.110839913 | 0.353 | 1 | 4791 | NFKB2 |
| 0.110330328 | 0.110856757 | 0.34 | 1 | 26227 | PHGDH |
| 0.110312187 | 0.110915726 | 0.338 | 1 | 375033 | PEAR1 |
| 0.110264243 | 0.111071691 | 0.356 | 1 | 284111 | SLC13A5 |
| 0.110246102 | 0.11113075 | 0.347 | 1 | 4351 | MPI |
| 0.110243511 | 0.111139188 | 0.333 | 1 | 224 | ALDH3A2 |
| 0.110178721 | 0.111350326 | 0.372 | 1 | 10652 | YKT6 |
| 0.110145031 | 0.111460242 | 0.358 | 1 | 7203 | CCT3 |
| 0.110072467 | 0.111697273 | 0.344 | 1 | 90806 | ANGEL2 |
| 0.109876803 | 0.112338382 | 0.341 | 1 | 80086 | TUBA4B |
| 0.109823676 | 0.112512955 | 0.344 | 1 | 55171 | TBCCD1 |
| 0.109744633 | 0.11277308 | 0.352 | 1 | 78986 | DUSP26 |
| 0.109727788 | 0.112828577 | 0.329 | 1 | 5293 | PIK3CD |
| 0.109687618 | 0.112961003 | 0.356 | 1 | 51101 | ZC2HC1A |
| 0.109682435 | 0.112978099 | 0.356 | 1 | 55164 | SHQ1 |
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| 0.109589139 | 0.113286175 | 0.344 | 1 | 1356 | CP |
| 0.109585251 | 0.113299026 | 0.332 | 1 | 644563 | LOC644563 |
| 0.109511392 | 0.113543408 | 0.359 | 1 | 353142 | LCE3A |
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| 0.109379221 | 0.113981753 | 0.364 | 1 | 29956 | LASS2 |
| 0.109368855 | 0.114016189 | 0.36 | 1 | 64759 | TNS3 |
| 0.109339052 | 0.114115238 | 0.32 | 1 | 4170 | MCL1 |
| 0.109323503 | 0.114166943 | 0.325 | 1 | 57456 | KIAA1143 |
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| 0.10925353 | 0.114399839 | 0.338 | 1 | 7251 | TSG101 |
| 0.109227614 | 0.114486192 | 0.326 | 1 | 285533 | RNF175 |
| 0.109160234 | 0.114710947 | 0.346 | 1 | 162966 | ZNF600 |
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| 0.109110994 | 0.114875409 | 0.351 | 1 | 9810 | RNF40 |
| 0.1090475 | 0.115087751 | 0.364 | 1 | 6386 | SDCBP |
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| 0.108960683 | 0.115378593 | 0.354 | 1 | 64344 | HIF3A |
| 0.108949021 | 0.115417705 | 0.347 | 1 | 11051 | NUDT21 |
| 0.108942542 | 0.115439438 | 0.356 | 1 | 1824 | DSC2 |
| 0.108827217 | 0.115826829 | 0.349 | 1 | 2067 | ERCC1 |
| 0.108796118 | 0.115931467 | 0.366 | 1 | 26097 | C1orf77 |
| 0.108759836 | 0.116053639 | 0.334 | 1 | 10421 | CD2BP2 |
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| 0.108717075 | 0.116197756 | 0.328 | 1 | 54102 | CLIC6 |
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| 0.108654877 | 0.116407631 | 0.355 | 1 | 84624 | FNDC1 |
| 0.108652286 | 0.116416382 | 0.349 | 1 | 26998 | FETUB |
| 0.108639328 | 0.116460146 | 0.365 | 1 | 54932 | EXD3 |
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| 0.108347776 | 0.117448232 | 0.324 | 1 | 387978 | C14orf23 |
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| 0.040034443 | 2.44952E-44 | 219870 | OR10G9 |
| 0.04001336 | 2.71615E-44 | 9495 | AKAP5 |
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| 0.03965677 | 1.54647E-43 | 85508 | SCRT2 |
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| 0.03963477 | 1.72079E-43 | 654346 | LGALS9C |
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| 0.039580958 | 2.23396E-43 | 149281 | METTL11B |
| 0.039576738 | 2.28013E-43 | 286333 | LINC00256A |
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| 0.0393654 | 6.33268E-43 | 90204 | ZSWIM1 |
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| 0.104895803 | 0.129650506 | 0.36 | 1 | 3586 | IL10 |
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| 0.104793436 | 0.130026765 | 0.381 | 1 | 64600 | PLA2G2F |
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| 0.10476752 | 0.130122154 | 0.386 | 1 | 200879 | LIPH |
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| 0.104606842 | 0.130714771 | 0.356 | 1 | 400830 | DEFB132 |
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| 0.038790302 | 9.92812E-42 | 91351 | DDX60L |
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| 0.10164338 | 0.142021849 | 0.415 | 1 | 140596 | DEFB104A |
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| 0.101534534 | 0.142450944 | 0.396 | 1 | 183 | AGT |
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| 0.101270194 | 0.143497151 | 0.371 | 1 | 3589 | IL11 |
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| 0.099269501 | 0.151606441 | 0.388 | 1 | 100128203 | ENSAP3 |
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| 0.036860099 | 7.60303E-38 | 84247 | LDOC1L |
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| 0.036828604 | 8.76467E-38 | 10051 | SMC4 |
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| 0.036680243 | 1.70962E-37 | 23753 | SDF2L1 |
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| 0.095348453 | 0.168499151 | 0.443 | 1 | 10316 | NMUR1 |
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| 0.094784786 | 0.171038754 | 0.411 | 1 | 125150 | ZSWIM7 |
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| 0.035959587 | 4.22527E-36 | 9933 | KIAA0020 |
| 0.035935714 | 4.69387E-36 | 79570 | NKAIN1 |
| 0.03591169 | 5.21752E-36 | 390637 | C15orf58 |
| 0.035904735 | 5.3797E-36 | 23584 | VSIG2 |
| 0.035881994 | 5.9457E-36 | 51053 | GMNN |
| 0.035874856 | 6.13526E-36 | 25829 | TMEM184B |
| 0.035873979 | 6.15897E-36 | 24142 | NAT6 |
| 0.035864548 | 9.85608E-36 | 115677 | NOSTRIN |
| 0.035861799 | 6.49772E-36 | 65992 | DDRGK1 |
| 0.035842332 | 7.07796E-36 | 396 | ARHGDIA |
| 0.035829329 | 7.49393E-36 | 1760 | DMPK |
| 0.035820687 | 7.78374E-36 | 120796 | OR56A1 |
| 0.035783927 | 9.14616E-36 | 4668 | NAGA |
| 0.035778442 | 9.36883E-36 | 22979 | EFR3B |
| 0.035764907 | 9.94158E-36 | 27005 | USP21 |
| 0.035764782 | 9.94703E-36 | 3140 | MR1 |
| 0.035764716 | 9.9499E-36 | 10549 | PRDX4 |
| 0.035738341 | 1.11689E-35 | 51659 | GINS2 |
| 0.03573712 | 1.12287E-35 | 8642 | DCHS1 |
| 0.035729824 | 1.15933E-35 | 1056 | CEL |
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| 0.035657517 | 1.59069E-35 | 1066 | CES1 |
| 0.035644085 | 1.68684E-35 | 284648 | LOC284648 |
| 0.035634826 | 1.75646E-35 | 55803 | ADAP2 |
| 0.03563018 | 1.79246E-35 | 388569 | ZNF324B |
| 0.035616214 | 1.9137E-35 | 4761 | NEUROD2 |
| 0.035605364 | 1.99755E-35 | 3777 | KCNK3 |
| 0.03560396 | 2.00983E-35 | 7096 | TLR1 |
| 0.035601854 | 2.02839E-35 | 10924 | SMPDL3A |
| 0.035601459 | 2.03188E-35 | 80341 | BPIL1 |
| 0.0355951 | 2.08904E-35 | 4689 | NCF4 |
| 0.035585323 | 2.18007E-35 | 26240 | FAM50B |
| 0.035550563 | 2.53676E-35 | 1762 | DMWD |
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| 0.035529538 | 2.78007E-35 | 131965 | METTL6 |
| 0.035523855 | 2.84972E-35 | 128864 | C20orf144 |
| 0.035510588 | 3.01915E-35 | 50859 | SPOCK3 |
| 0.035473099 | 3.55395E-35 | 23381 | SMG5 |
| 0.035467881 | 3.63549E-35 | 81890 | QTRT1 |
| 0.035451898 | 3.89702E-35 | 27031 | NPHP3 |
| 0.035436089 | 4.17408E-35 | 101 | ADAM8 |

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| 0.093253167 | 0.178083301 | 0.423 | 1 | 8701 | DNAH11 |
| 0.09324928 | 0.178101449 | 0.384 | 1 | 8600 | TNFSF11 |
| 0.093242801 | 0.1781317 | 0.435 | 1 | 93436 | ARMC6 |
| 0.093237618 | 0.178155904 | 0.418 | 1 | 79847 | TMEM180 |
| 0.093223364 | 0.178222476 | 0.431 | 1 | 55341 | LSG1 |
| 0.093222069 | 0.178228529 | 0.435 | 1 | 84967 | LSM10 |
| 0.093174124 | 0.178452594 | 0.415 | 1 | 27328 | PCDH11X |
| 0.093144321 | 0.178591983 | 0.414 | 1 | 23761 | PISD |
| 0.093083419 | 0.178877072 | 0.455 | 1 | 8516 | ITGA8 |
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| 0.092978461 | 0.179369185 | 0.406 | 1 | 2532 | DARC |
| 0.092929221 | 0.179600397 | 0.442 | 1 | 162083 | C16orf82 |
| 0.092925334 | 0.17961866 | 0.436 | 1 | 4245 | MGAT1 |
| 0.092885164 | 0.179807458 | 0.433 | 1 | 56951 | C5orf15 |
| 0.092806121 | 0.180179392 | 0.433 | 1 | 4821 | NKX2-2 |
| 0.09277891 | 0.180307566 | 0.445 | 1 | 255031 | FLJ35390 |
| 0.092752994 | 0.180429699 | 0.452 | 1 | 283897 | C16orf54 |
| 0.092751698 | 0.180435808 | 0.398 | 1 | 51651 | PTRH2 |
| 0.092708937 | 0.180637466 | 0.375 | 1 | 121268 | RHEBL1 |
| 0.092676543 | 0.180790349 | 0.413 | 1 | 5780 | PTPN9 |
| 0.092650627 | 0.180912724 | 0.44 | 1 | 388507 | ZNF788 |
| 0.092644148 | 0.180943327 | 0.41 | 1 | 7078 | TIMP3 |
| 0.092578063 | 0.181255698 | 0.414 | 1 | 3181 | HNRNPA2B1 |
| 0.092534006 | 0.181464167 | 0.424 | 1 | 400831 | RP4-545L17.1 |
| 0.092475696 | 0.181740353 | 0.424 | 1 | 6658 | SOX3 |
| 0.092452372 | 0.181850915 | 0.416 | 1 | 54762 | GRAMD1C |
| 0.092429048 | 0.181961526 | 0.427 | 1 | 84054 | PCDHB19P |
| 0.092423864 | 0.181986113 | 0.386 | 1 | 126075 | AC024575.3 |
| 0.092361667 | 0.182281347 | 0.454 | 1 | 55633 | TBC1D22B |
| 0.092338343 | 0.182392151 | 0.408 | 1 | 154754 | PRSS23P2 |
| 0.092315018 | 0.182503005 | 0.39 | 1 | 10467 | ZNHIT1 |
| 0.092312427 | 0.182515325 | 0.439 | 1 | 6094 | ROM1 |
| 0.092217835 | 0.18296543 | 0.451 | 1 | 114770 | PGLYRP2 |
| 0.092141383 | 0.183329811 | 0.416 | 1 | 6571 | SLC18A2 |
| 0.092070115 | 0.18366997 | 0.43 | 1 | 7982 | ST7 |
| 0.09206234 | 0.183707106 | 0.463 | 1 | 284355 | TPRX1 |
| 0.092040312 | 0.183812356 | 0.434 | 1 | 28981 | IFT81 |
| 0.092010509 | 0.183954823 | 0.411 | 1 | 254887 | ZDHHC23 |
| 0.091965156 | 0.184171777 | 0.441 | 1 | 26290 | GALNT8 |
| 0.091941832 | 0.184283426 | 0.454 | 1 | 81563 | C1orf21 |
| 0.091939241 | 0.184295835 | 0.427 | 1 | 5978 | REST |
| 0.091901663 | 0.184475829 | 0.455 | 1 | 84920 | ALG10 |
| 0.091869268 | 0.184631099 | 0.386 | 1 | 646658 | TMEM90A |
| 0.091836874 | 0.184786466 | 0.42 | 1 | 1609 | DGKQ |
| 0.091813549 | 0.18489839 | 0.377 | 1 | 26002 | MOXD1 |
| 0.091794113 | 0.184991698 | 0.397 | 1 | 29 | ABR |
| 0.091786338 | 0.185029031 | 0.448 | 1 | 27198 | HCAR1 |
| 0.091744873 | 0.185228233 | 0.426 | 1 | 1652 | DDT |
| 0.091726732 | 0.185315434 | 0.421 | 1 | 59272 | ACE2 |
| 0.091651576 | 0.185677015 | 0.458 | 1 | 131177 | FAM3D |
| 0.091646393 | 0.185701971 | 0.409 | 1 | 777 | CACNA1E |
| 0.091603632 | 0.18590795 | 0.448 | 1 | 8693 | GALNT4 |
| 0.09155828 | 0.186126596 | 0.408 | 1 | 10219 | KLRG1 |
| 0.091551801 | 0.186157846 | 0.426 | 1 | 645249 | RP5-1121A15.1 |
| 0.091537547 | 0.186226611 | 0.432 | 1 | 274 | BIN1 |
| 0.091515519 | 0.186332921 | 0.424 | 1 | 8991 | SELENBP1 |
| 0.091502561 | 0.186395477 | 0.388 | 1 | 22941 | SHANK2 |
| 0.091496082 | 0.186426761 | 0.43 | 1 | 54462 | KIAA1128 |
| 0.091494786 | 0.186433018 | 0.425 | 1 | 152503 | SH3D19 |
| 0.091489603 | 0.186458048 | 0.403 | 1 | 51573 | GDE1 |
| 0.091472758 | 0.186539414 | 0.402 | 1 | 4940 | OAS3 |
| 0.091283573 | 0.187455007 | 0.411 | 1 | 56134 | PCDHAC2 |
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| 0.091236925 | 0.187681276 | 0.43 | 1 | 1789 | DNMT3B |
| 0.091163065 | 0.188039946 | 0.451 | 1 | 2647 | BLOC1S1 |
| 0.091163065 | 0.188039946 | 0.431 | 1 | 83733 | SLC25A18 |
| 0.091125487 | 0.188222619 | 0.449 | 1 | 9401 | RECQL4 |
| 0.091107346 | 0.188310853 | 0.449 | 1 | 2961 | GTF2E2 |
| 0.09109698 | 0.188361286 | 0.424 | 1 | 5682 | PSMA1 |
| 0.09108143 | 0.188436955 | 0.439 | 1 | 8314 | BAP1 |
| 0.091080135 | 0.188443261 | 0.434 | 1 | 10250 | SRRM1 |
| 0.091059402 | 0.188544189 | 0.442 | 1 | 90407 | TMEM41A |
| 0.091041261 | 0.188632534 | 0.423 | 1 | 79631 | EFTUD1 |
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| 0.090976472 | 0.188948297 | 0.403 | 1 | 6446 | SGK1 |
| 0.090918161 | 0.189232816 | 0.419 | 1 | 8624 | PSMG1 |
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| 0.090876696 | 0.189435332 | 0.443 | 1 | 23620 | NTSR2 |
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| 0.035425588 | 4.36883E-35 | 79658 | ARHGAP10 |
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| 0.035325762 | 6.73519E-35 | 129684 | CNTNAP5 |
| 0.035314335 | 7.07677E-35 | 6263 | RYR3 |
| 0.035304531 | 7.38354E-35 | 153743 | PPP1R2P3 |
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| 0.035259299 | 8.97881E-35 | 55997 | CFC1 |
| 0.035227859 | 1.0285E-34 | 118432 | RPL29P2 |
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| 0.035202863 | 1.14569E-34 | 2925 | GRPR |
| 0.035202712 | 1.14643E-34 | 2074 | ERCC6 |
| 0.035194632 | 1.18711E-34 | 23033 | DOPEY1 |
| 0.035171039 | 1.31425E-34 | 4637 | MYL6 |
| 0.035169182 | 1.32481E-34 | 4137 | MAPT |
| 0.035165602 | 1.34541E-34 | 140738 | TMEM37 |
| 0.035162905 | 1.36115E-34 | 9378 | NRXN1 |
| 0.035152684 | 1.42245E-34 | 8572 | PDLIM4 |
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| 0.035126099 | 1.59503E-34 | 5581 | PRKCE |
| 0.035123133 | 1.61553E-34 | 4881 | NPR1 |
| 0.035109468 | 1.71341E-34 | 23080 | AVL9 |
| 0.035090158 | 1.86184E-34 | 150135 | LINC00479 |
| 0.035067133 | 2.05562E-34 | 728673 | LOC728673 |
| 0.035036873 | 2.34104E-34 | 9278 | ZBTB22 |
| 0.035035621 | 2.35367E-34 | 83854 | ANGPTL6 |
| 0.035023073 | 2.48396E-34 | 55256 | ADI1 |
| 0.035018902 | 2.52885E-34 | 80704 | SLC19A3 |
| 0.035012889 | 2.59496E-34 | 23317 | DNAJC13 |
| 0.035010897 | 2.61724E-34 | 23200 | ATP11B |
| 0.034972014 | 3.09228E-34 | 27178 | IL1F7 |
| 0.034951408 | 3.37779E-34 | 54876 | C4orf30 |
| 0.034949648 | 3.40337E-34 | 2615 | LRRC32 |
| 0.034928623 | 3.72408E-34 | 150147 | C21orf128 |
| 0.034920082 | 4.15309E-34 | 4781 | NFIB |
| 0.034917307 | 3.90894E-34 | 8061 | FOSL1 |
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| 0.034876319 | 4.65812E-34 | 3301 | DNAJA1 |
| 0.034865662 | 4.87524E-34 | 29880 | ALG5 |
| 0.034840918 | 5.41888E-34 | 219844 | HYLS1 |
| 0.034832023 | 5.6287E-34 | 85302 | FBF1 |
| 0.034821392 | 5.89006E-34 | 80264 | ZNF430 |
| 0.034812996 | 6.10498E-34 | 701 | BUB1B |
| 0.034805535 | 6.30249E-34 | 55205 | ZNF532 |
| 0.034801903 | 6.4009E-34 | 5427 | POLE2 |
| 0.034801735 | 6.40551E-34 | 337879 | KRTAP8-1 |
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| 0.034792856 | 6.65279E-34 | 949 | SCARB1 |
| 0.034786873 | 6.82474E-34 | 503834 | DPRXP4 |
| 0.034782928 | 6.94051E-34 | 197358 | NLRC3 |
| 0.034766752 | 7.43601E-34 | 9733 | SART3 |
| 0.034761372 | 7.6085E-34 | 27013 | C2orf24 |
| 0.034756218 | 7.77744E-34 | 55315 | SLC29A3 |
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| 0.034713045 | 9.34715E-34 | 113278 | C20orf54 |
| 0.034698289 | 9.95283E-34 | 5707 | PSMD1 |
| 0.034680026 | 1.07567E-33 | 54541 | DDIT4 |
| 0.034671708 | 1.11438E-33 | 374768 | SPEM1 |
| 0.034652012 | 1.21167E-33 | 57143 | ADCK1 |
| 0.034640911 | 1.27017E-33 | 401431 | RP4-751H13.1 |
| 0.034607572 | 1.46327E-33 | 196968 | C15orf51 |
| 0.034591145 | 1.56887E-33 | 5973 | RENBP |
| 0.034556688 | 1.8156E-33 | 84310 | C7orf50 |
| 0.034529179 | 2.03993E-33 | 123591 | C15orf27 |
| 0.034515215 | 2.16413E-33 | 6810 | STX4 |
| 0.034514913 | 2.1669E-33 | 23524 | SRRM2 |
| 0.034496795 | 2.33952E-33 | 152065 | C3orf22 |
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| 0.034480071 | 2.51096E-33 | 127579 | DCST2 |

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| 0.09079247 | 0.18984718 | 0.461 | 1 | 84891 | ZSCAN10 |
| 0.090763963 | 0.189986723 | 0.417 | 1 | 5998 | RGS3 |
| 0.090763963 | 0.189986723 | 0.432 | 1 | 23677 | SH3BP4 |
| 0.090679737 | 0.190399449 | 0.447 | 1 | 57107 | PDSS2 |
| 0.090587736 | 0.190851023 | 0.437 | 1 | 3833 | KIFC1 |
| 0.090582553 | 0.190876487 | 0.452 | 1 | 54460 | MRPS21 |
| 0.090541088 | 0.191080289 | 0.467 | 1 | 29953 | TRHDE |
| 0.090530721 | 0.191131265 | 0.421 | 1 | 9936 | CD302 |
| 0.090524243 | 0.191163129 | 0.465 | 1 | 4045 | LSAMP |
| 0.09047889 | 0.191386291 | 0.426 | 1 | 64963 | MRPS11 |
| 0.090407622 | 0.191737359 | 0.461 | 1 | 171423 | PDIA3P |
| 0.090359678 | 0.191973797 | 0.46 | 1 | 64699 | TMPRSS3 |
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| 0.090300072 | 0.192268044 | 0.423 | 1 | 122525 | C14orf28 |
| 0.09029748 | 0.192280844 | 0.436 | 1 | 124491 | TMEM170A |
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| 0.090092746 | 0.193294079 | 0.427 | 1 | 56938 | ARNTL2 |
| 0.090087563 | 0.193319781 | 0.422 | 1 | 57666 | FBRSL1 |
| 0.090073309 | 0.193390475 | 0.457 | 1 | 322 | APBB1 |
| 0.09003314 | 0.193589803 | 0.456 | 1 | 8913 | CACNA1G |
| 0.090014999 | 0.193679872 | 0.442 | 1 | 6146 | RPL22 |
| 0.089982604 | 0.193840785 | 0.469 | 1 | 51231 | VRK3 |
| 0.089964463 | 0.193930939 | 0.449 | 1 | 5204 | PFDN5 |
| 0.089955393 | 0.193976027 | 0.458 | 1 | 387893 | SETD8 |
| 0.089837476 | 0.194562872 | 0.459 | 1 | 7165 | TPD52L2 |
| 0.089832293 | 0.194588697 | 0.438 | 1 | 285195 | SLC9A9 |
| 0.089807673 | 0.194711401 | 0.426 | 1 | 3460 | IFNGR2 |
| 0.089726038 | 0.195118663 | 0.458 | 1 | 84777 | MGC11082 |
| 0.089715672 | 0.195170424 | 0.436 | 1 | 58533 | SNX6 |
| 0.089691052 | 0.195293394 | 0.435 | 1 | 8451 | CUL4A |
| 0.089687165 | 0.195312816 | 0.443 | 1 | 201965 | RWDD4A |
| 0.089593868 | 0.195779357 | 0.436 | 1 | 3763 | KCNJ6 |
| 0.089505755 | 0.196220725 | 0.409 | 1 | 6815 | STYX |
| 0.08942412 | 0.196630286 | 0.427 | 1 | 6611 | SMS |
| 0.089412458 | 0.196688845 | 0.442 | 1 | 94005 | PIGS |
| 0.089377472 | 0.1968646 | 0.457 | 1 | 731789 | RP13-16H11.1 |
| 0.089360627 | 0.196949263 | 0.42 | 1 | 5700 | PSMC1 |
| 0.089311387 | 0.197196893 | 0.407 | 1 | 10672 | GNA13 |
| 0.089294542 | 0.19728166 | 0.435 | 1 | 9184 | BUB3 |
| 0.089285471 | 0.197327315 | 0.431 | 1 | 29896 | TRA2A |
| 0.089227161 | 0.197620995 | 0.454 | 1 | 55622 | TTC27 |
| 0.089146822 | 0.198026141 | 0.419 | 1 | 25915 | NDUFAF3 |
| 0.089111836 | 0.198202765 | 0.452 | 1 | 116966 | WDR17 |
| 0.089105357 | 0.198235485 | 0.46 | 1 | 50485 | SMARCAL1 |
| 0.089098878 | 0.19826821 | 0.455 | 1 | 387496 | RASL11A |
| 0.089096287 | 0.198281301 | 0.449 | 1 | 8823 | FGF16 |
| 0.089032793 | 0.198602225 | 0.407 | 1 | 57584 | ARHGAP21 |
| 0.089030202 | 0.198615332 | 0.413 | 1 | 25771 | TBC1D22A |
| 0.089010765 | 0.198713654 | 0.412 | 1 | 4666 | NACA |
| 0.088939497 | 0.199074471 | 0.465 | 1 | 2706 | GJB2 |
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| 0.088896736 | 0.19929119 | 0.447 | 1 | 10382 | TUBB4 |
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| 0.088629804 | 0.200647918 | 0.425 | 1 | 6428 | SRSF3 |
| 0.088600001 | 0.200799812 | 0.475 | 1 | 26533 | OR10G3 |
| 0.088589634 | 0.200852665 | 0.447 | 1 | 5158 | PDE6B |
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| 0.08849245 | 0.201348647 | 0.434 | 1 | 222699 | TOB2P1 |
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| 0.088391379 | 0.20186541 | 0.467 | 1 | 404093 | CUEDC1 |
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| 0.08833566 | 0.202150703 | 0.466 | 1 | 400793 | C1orf226 |
| 0.088330477 | 0.202177257 | 0.455 | 1 | 57506 | MAVS |
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| 0.088211265 | 0.202788691 | 0.454 | 1 | 5579 | PRKCB |
| 0.088184053 | 0.202928445 | 0.453 | 1 | 55252 | ASXL2 |
| 0.0881698 | 0.203001677 | 0.467 | 1 | 142689 | ASB12 |
| 0.088108898 | 0.203314794 | 0.501 | 1 | 27095 | TRAPPC3 |

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| 0.034451194 | 2.83684E-33 | 1785 | DNM2 |
| 0.034425856 | 3.15717E-33 | 55314 | TMEM144 |
| 0.034411538 | 3.35382E-33 | 4678 | NASP |
| 0.034375843 | 3.89863E-33 | 6473 | SHOX |
| 0.034369347 | 4.00684E-33 | 9622 | KLK4 |
| 0.034341645 | 4.50277E-33 | 100128398 | AC008969.2 |
| 0.034332581 | 4.67791E-33 | 10766 | TOB2 |
| 0.034311802 | 5.10539E-33 | 122525 | C14orf28 |
| 0.034285606 | 5.69997E-33 | 27147 | DENND2A |
| 0.034283608 | 5.74805E-33 | 6132 | RPL8 |
| 0.034265912 | 6.19184E-33 | 3776 | KCNK2 |
| 0.034249555 | 6.63221E-33 | 388564 | TMEM238 |
| 0.034244961 | 6.76139E-33 | 3192 | HNRNPU |
| 0.034242649 | 6.82735E-33 | 153768 | PRELID2 |
| 0.03423212 | 7.13589E-33 | 400935 | IL17REL |
| 0.034223068 | 7.41219E-33 | 140432 | RNF113B |
| 0.034217336 | 7.59263E-33 | 100144748 | AC063965.2 |
| 0.034205914 | 7.96527E-33 | 5717 | PSMD11 |
| 0.034196769 | 8.27668E-33 | 1800 | DPEP1 |
| 0.034192734 | 8.41793E-33 | 129521 | NMS |
| 0.034160017 | 9.6549E-33 | 286467 | RP11-453F18__B.1 |
| 0.034158724 | 9.70736E-33 | 128218 | TMEM125 |
| 0.034135923 | 1.06798E-32 | 58191 | CXCL16 |
| 0.03412667 | 1.11015E-32 | 113402 | SFT2D1 |
| 0.034116916 | 1.15639E-32 | 5393 | EXOSC9 |
| 0.034078964 | 1.35525E-32 | 26234 | FBXL5 |
| 0.034056935 | 1.48589E-32 | 25853 | WDR40A |
| 0.034029426 | 2.48116E-32 | 84966 | IGSF21 |
| 0.034023986 | 1.70497E-32 | 1605 | DAG1 |
| 0.034012364 | 1.78966E-32 | 23412 | COMMD3 |
| 0.034001631 | 1.87159E-32 | 4710 | NDUFB4 |
| 0.033984138 | 2.01315E-32 | 90313 | TP53I13 |
| 0.033982713 | 2.02514E-32 | 53940 | FTHL17 |
| 0.033975659 | 2.08555E-32 | 92305 | TMEM129 |
| 0.033968354 | 2.14999E-32 | 9201 | DCLK1 |
| 0.033952577 | 2.296E-32 | 240 | ALOX5 |
| 0.03393425 | 2.478E-32 | 29766 | TMOD3 |
| 0.033924301 | 2.58272E-32 | 169834 | ZNF883 |
| 0.033913038 | 2.7066E-32 | 8302 | KLRC4 |
| 0.03391003 | 2.74066E-32 | 90353 | ATPBD3 |
| 0.033881925 | 3.08028E-32 | 9534 | ZNF254 |
| 0.033822736 | 3.93825E-32 | 158248 | TTC16 |
| 0.033821584 | 3.95711E-32 | 26015 | RPAP1 |
| 0.033802945 | 4.27507E-32 | 54439 | RBM27 |
| 0.033794032 | 4.43597E-32 | 1201 | CLN3 |
| 0.033785091 | 4.60339E-32 | 26034 | IPCEF1 |
| 0.033764789 | 5.00723E-32 | 29990 | PILRB |
| 0.033763979 | 5.02407E-32 | 64866 | CDCP1 |
| 0.033758739 | 5.13425E-32 | 22920 | KIFAP3 |
| 0.033733012 | 5.71105E-32 | 81697 | OR2B2 |
| 0.033707306 | 6.35161E-32 | 6712 | SPTBN2 |
| 0.033702495 | 6.47916E-32 | 25834 | MGAT4C |
| 0.033691793 | 6.77216E-32 | 7334 | UBE2N |
| 0.033688018 | 6.87861E-32 | 50486 | G0S2 |
| 0.03367985 | 7.11466E-32 | 28513 | CDH19 |
| 0.033678559 | 7.1527E-32 | 84937 | ZNRF1 |
| 0.033672186 | 7.34347E-32 | 2765 | GML |
| 0.033669937 | 7.41198E-32 | 84307 | ZNF397 |
| 0.033668375 | 7.45994E-32 | 374977 | C1orf175 |
| 0.033666597 | 7.51489E-32 | 2329 | FMO4 |
| 0.033654868 | 7.88771E-32 | 254910 | LCE5A |
| 0.033637789 | 8.46365E-32 | 10472 | ZNF238 |
| 0.033633852 | 8.60222E-32 | 8622 | PDE8B |
| 0.033632422 | 8.65313E-32 | 79581 | GPR172A |
| 0.033630262 | 8.73057E-32 | 56912 | C11orf60 |
| 0.033578279 | 1.08164E-31 | 11318 | GPR182 |
| 0.033573717 | 1.10215E-31 | 8368 | HIST1H4L |
| 0.033557556 | 1.17797E-31 | 10141 | C4orf6 |
| 0.033556126 | 1.18492E-31 | 10170 | DHRS9 |
| 0.03352471 | 1.34839E-31 | 440387 | CTRB2 |
| 0.033506143 | 1.45532E-31 | 2117 | ETV3 |
| 0.033490021 | 1.55498E-31 | 7587 | ZNF37A |
| 0.033489213 | 1.56016E-31 | 9001 | HAP1 |
| 0.033488203 | 1.56664E-31 | 10072 | DPP3 |
| 0.033486247 | 1.57928E-31 | 81553 | FAM49A |
| 0.033482485 | 1.60387E-31 | 79081 | C11orf48 |
| 0.0334619 | 1.7453E-31 | 1267 | CNP |
| 0.033451882 | 1.81854E-31 | 389677 | RBM12B |
| 0.033448801 | 1.84167E-31 | 9092 | SART1 |
| 0.033444608 | 1.87362E-31 | 6633 | SNRPD2 |
| 0.033425474 | 2.02655E-31 | 54756 | IL17RD |
| 0.033420747 | 2.06621E-31 | 79963 | ABCA11P |

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| 0.088024672 | 0.203748405 | 0.454 | 1 | 3831 | C14orf153 |
| 0.088007827 | 0.203835208 | 0.442 | 1 | 54512 | EXOSC4 |
| 0.087883431 | 0.204477039 | 0.444 | 1 | 51780 | KDM3B |
| 0.087876952 | 0.204510508 | 0.459 | 1 | 2011 | MARK2 |
| 0.087790135 | 0.204959371 | 0.459 | 1 | 80227 | PAAF1 |
| 0.087784951 | 0.204986191 | 0.458 | 1 | 10299 | MARCHF6 |
| 0.087773289 | 0.205046546 | 0.453 | 1 | 145270 | PRIMA1 |
| 0.087709796 | 0.205375371 | 0.464 | 1 | 3107 | HLA-C |
| 0.087685176 | 0.205502977 | 0.456 | 1 | 57819 | LSM2 |
| 0.087632049 | 0.205778533 | 0.424 | 1 | 25858 | C11orf20 |
| 0.087611316 | 0.205886139 | 0.47 | 1 | 4712 | NDUFB6 |
| 0.087571147 | 0.206094742 | 0.476 | 1 | 26984 | SEC22A |
| 0.087462301 | 0.206660756 | 0.43 | 1 | 389432 | SAMD5 |
| 0.087401399 | 0.206977943 | 0.462 | 1 | 51501 | C11orf73 |
| 0.087371596 | 0.20713329 | 0.487 | 1 | 83548 | COG3 |
| 0.087256271 | 0.20773521 | 0.468 | 1 | 60482 | SLC5A7 |
| 0.087170749 | 0.208182391 | 0.475 | 1 | 150684 | COMMD1 |
| 0.087144833 | 0.208318038 | 0.477 | 1 | 2770 | GNAI1 |
| 0.087142242 | 0.208331606 | 0.458 | 1 | 284323 | ZNF780A |
| 0.087138354 | 0.208351959 | 0.5 | 1 | 84970 | C1orf94 |
| 0.087093002 | 0.208589522 | 0.427 | 1 | 26509 | MYOF |
| 0.087073565 | 0.208691394 | 0.465 | 1 | 254958 | REXO1L1 |
| 0.087001001 | 0.209072034 | 0.486 | 1 | 255349 | TMEM211 |
| 0.08695824 | 0.209296573 | 0.465 | 1 | 54469 | ZFAND6 |
| 0.086951761 | 0.20933061 | 0.492 | 1 | 1359 | CPA3 |
| 0.08687531 | 0.209732539 | 0.466 | 1 | 57661 | PHRF1 |
| 0.086872718 | 0.209746174 | 0.441 | 1 | 132989 | C4orf36 |
| 0.086840324 | 0.209916658 | 0.438 | 1 | 9534 | ZNF254 |
| 0.086818295 | 0.210032645 | 0.47 | 1 | 169044 | COL22A1 |
| 0.086797563 | 0.210141851 | 0.48 | 1 | 56649 | TMPRSS4 |
| 0.086775534 | 0.210257927 | 0.46 | 1 | 51390 | AIG1 |
| 0.08671852 | 0.210558573 | 0.459 | 1 | 5886 | RAD23A |
| 0.086717224 | 0.21056541 | 0.447 | 1 | 93185 | IGSF8 |
| 0.086639477 | 0.21097589 | 0.473 | 1 | 4613 | MYCN |
| 0.08651249 | 0.211647578 | 0.459 | 1 | 633 | BGN |
| 0.086506011 | 0.211681889 | 0.477 | 1 | 64651 | CSRNP1 |
| 0.086499532 | 0.211716204 | 0.456 | 1 | 146691 | TOM1L2 |
| 0.086474912 | 0.211846638 | 0.468 | 1 | 219965 | OR5B17 |
| 0.086363474 | 0.212437743 | 0.464 | 1 | 81849 | ST6GALNAC5 |
| 0.086359587 | 0.212458384 | 0.45 | 1 | 286077 | FAM83H |
| 0.086310347 | 0.212719966 | 0.448 | 1 | 2874 | GPS2 |
| 0.086280544 | 0.212878403 | 0.43 | 1 | 51649 | MRPS23 |
| 0.086268882 | 0.212940424 | 0.465 | 1 | 84336 | TMEM101 |
| 0.0862326 | 0.21313346 | 0.444 | 1 | 115749 | C12orf56 |
| 0.086220938 | 0.213195533 | 0.463 | 1 | 797 | CALCB |
| 0.086172994 | 0.213450862 | 0.431 | 1 | 604 | BCL6 |
| 0.086126346 | 0.213699501 | 0.48 | 1 | 285679 | AC136604.1 |
| 0.086112092 | 0.213775515 | 0.481 | 1 | 55503 | TRPV6 |
| 0.086068035 | 0.214010591 | 0.464 | 1 | 1017 | CDK2 |
| 0.086022683 | 0.214252775 | 0.459 | 1 | 56967 | C14orf132 |
| 0.086000654 | 0.214370478 | 0.423 | 1 | 8498 | RANBP3 |
| 0.08594364 | 0.214675336 | 0.479 | 1 | 6125 | RPL5 |
| 0.085915133 | 0.214827881 | 0.458 | 1 | 55636 | CHD7 |
| 0.0858944 | 0.214938872 | 0.438 | 1 | 10129 | FRY |
| 0.085886625 | 0.214980505 | 0.469 | 1 | 10942 | PRSS21 |
| 0.085852935 | 0.215160978 | 0.463 | 1 | 10861 | SLC26A1 |
| 0.085754455 | 0.215689137 | 0.465 | 1 | 2639 | GCDH |
| 0.085693553 | 0.216016227 | 0.474 | 1 | 3101 | HK3 |
| 0.085687074 | 0.216051044 | 0.465 | 1 | 10650 | SLMO1 |
| 0.085636539 | 0.21632276 | 0.45 | 1 | 8909 | AC004241.1 |
| 0.085544538 | 0.216818049 | 0.475 | 1 | 11202 | KLK8 |
| 0.085523805 | 0.216929776 | 0.451 | 1 | 154007 | SNRNP48 |
| 0.085492706 | 0.217097442 | 0.489 | 1 | 149685 | ADIG |
| 0.085492706 | 0.217097442 | 0.432 | 1 | 389895 | LOC389895 |
| 0.085396818 | 0.217614999 | 0.4 | 1 | 131034 | CPNE4 |
| 0.085386452 | 0.217671004 | 0.457 | 1 | 10076 | PTPRU |
| 0.085316479 | 0.218049306 | 0.45 | 1 | 7041 | TGFB1I1 |
| 0.085310001 | 0.218084358 | 0.455 | 1 | 116 | ADCYAP1 |
| 0.085294451 | 0.218168499 | 0.452 | 1 | 57716 | PRX |
| 0.085290564 | 0.218189537 | 0.456 | 1 | 401777 | LOC401777 |
| 0.085258169 | 0.218364917 | 0.445 | 1 | 64342 | HS1BP3 |
| 0.085233549 | 0.218498273 | 0.457 | 1 | 7092 | TLL1 |
| 0.08522707 | 0.218533376 | 0.429 | 1 | 112869 | CCDC101 |
| 0.085223183 | 0.21855444 | 0.444 | 1 | 780 | DDR1 |
| 0.085201155 | 0.21867383 | 0.448 | 1 | 387590 | AC005301.1 |
| 0.085194676 | 0.218708953 | 0.475 | 1 | 3839 | KPNA3 |
| 0.085157098 | 0.218912749 | 0.443 | 1 | 327 | APEH |
| 0.085066393 | 0.219405228 | 0.437 | 1 | 6855 | SYP |
| 0.085049548 | 0.219496775 | 0.473 | 1 | 23269 | MGA |
| 0.08488887 | 0.220371368 | 0.49 | 1 | 26504 | CNNM4 |
| 0.084856476 | 0.220547997 | 0.441 | 1 | 84131 | CEP78 |
| 0.084849997 | 0.220583336 | 0.477 | 1 | 5756 | TWF1 |

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| 0.033412636 | 2.13605E-31 | 1120 | CHKB |
| 0.033400601 | 2.24402E-31 | 100134229 | LOC100134229 |
| 0.033398049 | 2.2676E-31 | 57282 | SLC4A10 |
| 0.033392712 | 2.31772E-31 | 57415 | C3orf14 |
| 0.033383619 | 2.40565E-31 | 646817 | SETP18 |
| 0.033340125 | 2.87425E-31 | 55701 | AL161668.2 |
| 0.03333564 | 2.92745E-31 | 124925 | SEZ6 |
| 0.033334349 | 2.94295E-31 | 3641 | INSL4 |
| 0.033307278 | 3.28724E-31 | 2937 | GSS |
| 0.03329121 | 3.5102E-31 | 2643 | GCH1 |
| 0.033273355 | 3.77561E-31 | 55728 | N4BP2 |
| 0.033267588 | 3.86552E-31 | 23741 | EID1 |
| 0.033267107 | 3.87312E-31 | 64780 | MICAL1 |
| 0.033264602 | 3.91291E-31 | 64377 | CHST8 |
| 0.033263116 | 3.93671E-31 | 3988 | LIPA |
| 0.033258333 | 4.01427E-31 | 29107 | NXT1 |
| 0.033254942 | 4.07018E-31 | 730144 | LOC730144 |
| 0.033249595 | 4.15994E-31 | 2671 | GFER |
| 0.033245192 | 4.23529E-31 | 148206 | ZNF714 |
| 0.033234744 | 4.41961E-31 | 390927 | ZNF793 |
| 0.033234111 | 4.43103E-31 | 5586 | PKN2 |
| 0.033231548 | 4.47757E-31 | 114990 | VASN |
| 0.033224274 | 4.61229E-31 | 10250 | SRRM1 |
| 0.033219101 | 4.71056E-31 | 150737 | TTC30B |
| 0.033218374 | 4.72452E-31 | 26517 | TIMM13 |
| 0.033212879 | 4.8315E-31 | 337876 | CHSY3 |
| 0.033211356 | 4.86155E-31 | 85460 | ZNF518B |
| 0.033186622 | 5.37674E-31 | 91526 | ANKRD44 |
| 0.033157089 | 6.06325E-31 | 126792 | B3GALT6 |
| 0.033156066 | 6.08854E-31 | 22899 | ARHGEF15 |
| 0.033154914 | 6.11712E-31 | 4654 | MYOD1 |
| 0.033132338 | 6.70515E-31 | 54508 | FLJ11235 |
| 0.033125233 | 6.90156E-31 | 79697 | C14orf169 |
| 0.033114374 | 7.21284E-31 | 27076 | LYPD3 |
| 0.033111756 | 7.28994E-31 | 1292 | COL6A2 |
| 0.033108228 | 7.39515E-31 | 4756 | NEO1 |
| 0.03310477 | 7.49974E-31 | 122046 | TEX26 |
| 0.033096368 | 7.75998E-31 | 83695 | C12orf32 |
| 0.033093456 | 7.85228E-31 | 606551 | UBE2MP1 |
| 0.033092002 | 7.89876E-31 | 140625 | ACTRT2 |
| 0.033082277 | 8.21676E-31 | 10640 | EXOC5 |
| 0.033078033 | 8.35947E-31 | 653361 | NCF1 |
| 0.033068233 | 8.69854E-31 | 2657 | GDF1 |
| 0.033063972 | 8.85019E-31 | 419 | ART3 |
| 0.033043774 | 9.60544E-31 | 1385 | CREB1 |
| 0.033042204 | 9.66677E-31 | 285195 | SLC9A9 |
| 0.033032793 | 1.00426E-30 | 1442 | CSH1 |
| 0.033021371 | 1.05182E-30 | 23647 | ARFIP2 |
| 0.033018217 | 1.06535E-30 | 8904 | CPNE1 |
| 0.032975524 | 1.26631E-30 | 3696 | ITGB8 |
| 0.03297366 | 1.2759E-30 | 1579 | CYP4A11 |
| 0.032971146 | 1.28893E-30 | 387882 | C12ORF75 |
| 0.032955243 | 1.37454E-30 | 4257 | MGST1 |
| 0.032951512 | 1.39543E-30 | 10272 | FSTL3 |
| 0.03294499 | 1.4327E-30 | 386653 | IL31 |
| 0.032928188 | 1.53334E-30 | 441531 | PGAM4 |
| 0.032919725 | 1.61905E-30 | 25966 | C2CD2 |
| 0.032890608 | 1.78454E-30 | 23541 | SEC14L2 |
| 0.032877019 | 1.8851E-30 | 4116 | MAGOH |
| 0.032873851 | 1.90934E-30 | 6117 | RPA1 |
| 0.032864422 | 1.98333E-30 | 51593 | SRRT |
| 0.032843409 | 2.15862E-30 | 7423 | VEGFB |
| 0.032825385 | 2.32116E-30 | 57470 | LRRC47 |
| 0.032814861 | 2.42162E-30 | 5351 | PLOD1 |
| 0.032802878 | 2.54129E-30 | 54956 | PARP16 |
| 0.03278306 | 2.7522E-30 | 196463 | PLBD2 |
| 0.032775725 | 2.83458E-30 | 55179 | FAIM |
| 0.032762731 | 2.98659E-30 | 55295 | KLHL26 |
| 0.032759104 | 3.03537E-30 | 80005 | DOCK5 |
| 0.032746768 | 3.18444E-30 | 78992 | YIPF2 |
| 0.03273437 | 3.34703E-30 | 3125 | HLA-DRB3 |
| 0.032734222 | 3.34902E-30 | 399693 | MGC50722 |
| 0.032733751 | 3.35537E-30 | 81031 | SLC2A10 |
| 0.032729359 | 3.41507E-30 | 64240 | ABCG5 |
| 0.032714942 | 3.61855E-30 | 81932 | HDHD3 |
| 0.032711315 | 3.6716E-30 | 387509 | GPR153 |
| 0.032701359 | 3.82125E-30 | 1573 | CYP2J2 |
| 0.032692514 | 3.95926E-30 | 6237 | RRAS |
| 0.03266468 | 4.42667E-30 | 51132 | RLIM |
| 0.032663123 | 4.45437E-30 | 91607 | SLFN11 |
| 0.032660609 | 4.49947E-30 | 951 | CD37 |
| 0.032655087 | 4.60013E-30 | 25858 | C11orf20 |

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| 0.084804644 | 0.220830815 | 0.492 | 1 | 80243 | PREX2 |
| 0.084798165 | 0.220866186 | 0.454 | 1 | 342357 | ZKSCAN2 |
| 0.084737263 | 0.221198865 | 0.469 | 1 | 29926 | GMPPA |
| 0.08473208 | 0.221227194 | 0.459 | 1 | 255783 | PRR24 |
| 0.08472301 | 0.221276777 | 0.445 | 1 | 63967 | CLSPN |
| 0.084686728 | 0.221475189 | 0.495 | 1 | 5995 | RGR |
| 0.084680249 | 0.221510632 | 0.482 | 1 | 83694 | RPS6KL1 |
| 0.084676361 | 0.221531901 | 0.478 | 1 | 23567 | ZNF346 |
| 0.084646558 | 0.221695006 | 0.462 | 1 | 5033 | P4HA1 |
| 0.084610276 | 0.221893684 | 0.461 | 1 | 51035 | UBXN1 |
| 0.08460898 | 0.221900782 | 0.471 | 1 | 5620 | PRM2 |
| 0.084602502 | 0.221936275 | 0.451 | 1 | 4696 | NDUFA3 |
| 0.084579177 | 0.222064081 | 0.49 | 1 | 10970 | CKAP4 |
| 0.084555853 | 0.22219194 | 0.444 | 1 | 26220 | DGCR5 |
| 0.084523459 | 0.222369608 | 0.429 | 1 | 23029 | RBM34 |
| 0.084484585 | 0.222582944 | 0.471 | 1 | 399949 | C11orf88 |
| 0.084375739 | 0.223181059 | 0.463 | 1 | 65061 | PFTK2 |
| 0.08436926 | 0.223216697 | 0.491 | 1 | 6141 | RPL18 |
| 0.084339457 | 0.223380684 | 0.475 | 1 | 286467 | RP11-453F18__B.1 |
| 0.084336865 | 0.223394948 | 0.448 | 1 | 440556 | RP1-163G9.1 |
| 0.084318724 | 0.223494813 | 0.458 | 1 | 1496 | CTNNA2 |
| 0.084312245 | 0.223530487 | 0.451 | 1 | 79709 | GLT25D1 |
| 0.084285034 | 0.223680361 | 0.493 | 1 | 84290 | CAPNS2 |
| 0.084218949 | 0.224044638 | 0.471 | 1 | 10713 | USP39 |
| 0.084173596 | 0.224294876 | 0.452 | 1 | 220594 | AC107983.3 |
| 0.084147681 | 0.224437959 | 0.476 | 1 | 126306 | JSRP1 |
| 0.084068638 | 0.22487476 | 0.46 | 1 | 145873 | MESP2 |
| 0.084045314 | 0.225003768 | 0.447 | 1 | 146325 | C16orf11 |
| 0.08403106 | 0.225082632 | 0.439 | 1 | 4211 | MEIS1 |
| 0.084028468 | 0.225096973 | 0.508 | 1 | 646999 | LOC646999 |
| 0.084015511 | 0.225168688 | 0.453 | 1 | 400673 | VMAC |
| 0.084001257 | 0.225247593 | 0.472 | 1 | 50486 | G0S2 |
| 0.083941651 | 0.225577772 | 0.469 | 1 | 23328 | SASH1 |
| 0.083905369 | 0.225778918 | 0.491 | 1 | 91614 | DEPDC7 |
| 0.083870383 | 0.225973002 | 0.492 | 1 | 1066 | CES1 |
| 0.083818551 | 0.22626075 | 0.471 | 1 | 64241 | ABCG8 |
| 0.083792635 | 0.226404722 | 0.462 | 1 | 4807 | NHLH1 |
| 0.083747283 | 0.226656829 | 0.467 | 1 | 284106 | CISD3 |
| 0.083705818 | 0.226887501 | 0.485 | 1 | 389136 | VGLL3 |
| 0.083672127 | 0.227075045 | 0.487 | 1 | 57567 | ZNF319 |
| 0.083669536 | 0.227089476 | 0.477 | 1 | 8761 | PABPC4 |
| 0.083664353 | 0.22711834 | 0.471 | 1 | 30009 | TBX21 |
| 0.083663057 | 0.227125556 | 0.477 | 1 | 6518 | SLC2A5 |
| 0.083638437 | 0.227262698 | 0.481 | 1 | 28962 | OSTM1 |
| 0.083584014 | 0.227566063 | 0.464 | 1 | 55619 | DOCK10 |
| 0.083581422 | 0.227580516 | 0.461 | 1 | 5428 | POLG |
| 0.083563281 | 0.227681706 | 0.461 | 1 | 23469 | PHF3 |
| 0.083551619 | 0.227746774 | 0.451 | 1 | 6861 | SYT5 |
| 0.0834959 | 0.228057834 | 0.48 | 1 | 5799 | PTPRN2 |
| 0.083489422 | 0.228094023 | 0.492 | 1 | 8894 | EIF2S2 |
| 0.083459618 | 0.228260546 | 0.479 | 1 | 116840 | CNTROB |
| 0.083410379 | 0.22853586 | 0.475 | 1 | 51657 | STYXL1 |
| 0.083365026 | 0.228789646 | 0.476 | 1 | 137964 | AGPAT6 |
| 0.083275617 | 0.229290553 | 0.472 | 1 | 94137 | RP1L1 |
| 0.083262659 | 0.229363212 | 0.508 | 1 | 10811 | NOXA1 |
| 0.083243222 | 0.229472232 | 0.475 | 1 | 55508 | SLC35E3 |
| 0.083241926 | 0.229479501 | 0.459 | 1 | 2664 | GDI1 |
| 0.083219898 | 0.229603104 | 0.464 | 1 | 9117 | SEC22C |
| 0.083219898 | 0.229603104 | 0.463 | 1 | 284391 | ZNF844 |
| 0.083177137 | 0.229843173 | 0.47 | 1 | 81706 | PPP1R14C |
| 0.083135672 | 0.230076137 | 0.498 | 1 | 7159 | TP53BP2 |
| 0.083091615 | 0.230323844 | 0.462 | 1 | 29881 | NPC1L1 |
| 0.083089024 | 0.230338421 | 0.473 | 1 | 4128 | MAOA |
| 0.083068291 | 0.23045506 | 0.473 | 1 | 8725 | URI1 |
| 0.083042375 | 0.230600916 | 0.485 | 1 | 57462 | KIAA1161 |
| 0.083015164 | 0.230754136 | 0.492 | 1 | 10686 | CLDN16 |
| 0.082999615 | 0.230841723 | 0.469 | 1 | 256051 | ZNF549 |
| 0.082892064 | 0.231448173 | 0.483 | 1 | 1845 | DUSP3 |
| 0.082806542 | 0.231931213 | 0.466 | 1 | 11047 | ADRM1 |
| 0.082792289 | 0.232011789 | 0.462 | 1 | 10008 | KCNE3 |
| 0.082752119 | 0.232238973 | 0.492 | 1 | 10548 | TM9SF1 |
| 0.082688626 | 0.232598389 | 0.492 | 1 | 55304 | SPTLC3 |
| 0.082625132 | 0.232958199 | 0.479 | 1 | 119764 | OR4X2 |
| 0.082551273 | 0.233377246 | 0.479 | 1 | 3641 | INSL4 |
| 0.082535723 | 0.233465534 | 0.474 | 1 | 6631 | SNRPC |
| 0.08243206 | 0.234054724 | 0.472 | 1 | 24142 | NAT6 |
| 0.082412624 | 0.234165314 | 0.47 | 1 | 1615 | DARS |
| 0.082298594 | 0.234814848 | 0.482 | 1 | 256309 | CCDC110 |
| 0.082263608 | 0.235014391 | 0.483 | 1 | 64975 | MRPL41 |
| 0.082257129 | 0.235051357 | 0.461 | 1 | 9915 | ARNT2 |
| 0.082236397 | 0.235169674 | 0.477 | 1 | 100144748 | AC063965.2 |
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| 0.032644917 | 4.79141E-30 | 29883 | CNOT7 |
| 0.032641514 | 4.85714E-30 | 26157 | GIMAP2 |
| 0.032629867 | 5.08903E-30 | 55466 | DNAJA4 |
| 0.032617946 | 5.33773E-30 | 64137 | ABCG4 |
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| 0.032607941 | 5.55575E-30 | 3831 | C14orf153 |
| 0.032592576 | 5.90787E-30 | 11023 | VAX1 |
| 0.032586205 | 6.0603E-30 | 8832 | CD84 |
| 0.032583446 | 6.12752E-30 | 9919 | SEC16A |
| 0.032579066 | 6.23575E-30 | 3176 | HNMT |
| 0.032576156 | 6.30869E-30 | 124152 | IQCK |
| 0.032556183 | 6.83278E-30 | 25925 | ZNF521 |
| 0.032548709 | 7.03979E-30 | 3113 | HLA-DPA1 |
| 0.032547035 | 7.08702E-30 | 10005 | ACOT8 |
| 0.032519618 | 7.90663E-30 | 6258 | RXRG |
| 0.032513322 | 8.10773E-30 | 27287 | VENTX |
| 0.03250297 | 8.44949E-30 | 350383 | GPR142 |
| 0.032502318 | 8.47149E-30 | 643201 | RP11-844P9.2 |
| 0.032501233 | 8.50822E-30 | 161003 | STOML3 |
| 0.032499496 | 8.56737E-30 | 55643 | BTBD2 |
| 0.032487482 | 8.98768E-30 | 117159 | DCD |
| 0.032485363 | 9.06392E-30 | 132001 | C3orf31 |
| 0.032475539 | 9.42583E-30 | 1761 | DMRT1 |
| 0.032444593 | 1.06622E-29 | 1240 | CMKLR1 |
| 0.032439156 | 1.08954E-29 | 51071 | DERA |
| 0.032437226 | 1.09794E-29 | 203547 | VMA21 |
| 0.032427484 | 1.14134E-29 | 64518 | TEKT3 |
| 0.03241335 | 1.20735E-29 | 7545 | ZIC1 |
| 0.032413058 | 1.20875E-29 | 10992 | SF3B2 |
| 0.032409714 | 1.22494E-29 | 11026 | LILRA3 |
| 0.032393306 | 1.3075E-29 | 79691 | QTRTD1 |
| 0.032392951 | 1.30935E-29 | 389658 | FAM150A |
| 0.03238325 | 1.36081E-29 | 3280 | HES1 |
| 0.032380289 | 1.37691E-29 | 9973 | CCS |
| 0.032368589 | 1.44242E-29 | 131034 | CPNE4 |
| 0.032361902 | 1.48123E-29 | 348180 | C16orf84 |
| 0.032340493 | 1.61262E-29 | 868 | CBLB |
| 0.032339802 | 1.61705E-29 | 57530 | CGN |
| 0.032287359 | 1.9908E-29 | 286256 | LCN12 |
| 0.03228141 | 2.03826E-29 | 79781 | IQCA1 |
| 0.032279919 | 2.71714E-29 | 5168 | ENPP2 |
| 0.032260201 | 2.21684E-29 | 3306 | HSPA2 |
| 0.032259271 | 2.22501E-29 | 116987 | AGAP1 |
| 0.032254248 | 2.27565E-29 | 118611 | C10orf90 |
| 0.032246209 | 2.34306E-29 | 10232 | MSLN |
| 0.032242005 | 2.38236E-29 | 8343 | HIST1H2BF |
| 0.03223885 | 2.41228E-29 | 23787 | MTCH1 |
| 0.032223525 | 2.56301E-29 | 256158 | HMCN2 |
| 0.032223386 | 2.56442E-29 | 348654 | GEN1 |
| 0.032204174 | 2.76674E-29 | 55012 | PPP2R3C |
| 0.032203165 | 2.77779E-29 | 51594 | NBAS |
| 0.032165366 | 3.22501E-29 | 10951 | CBX1 |
| 0.032149817 | 3.42908E-29 | 1655 | DDX5 |
| 0.032143907 | 3.50996E-29 | 120376 | AP002448.1 |
| 0.032135381 | 3.62999E-29 | 57124 | CD248 |
| 0.03212713 | 3.75004E-29 | 5913 | RAPSN |
| 0.032120308 | 3.85225E-29 | 953 | ENTPD1 |
| 0.03211502 | 3.93338E-29 | 3692 | EIF6 |
| 0.032114661 | 3.93895E-29 | 23640 | HSPBP1 |
| 0.032101013 | 4.15654E-29 | 114792 | KLHL32 |
| 0.032084413 | 4.43736E-29 | 100505741 | SPATA1 |
| 0.032083473 | 4.45381E-29 | 80198 | MUS81 |
| 0.032068974 | 4.71538E-29 | 404220 | C6orf201 |
| 0.032048703 | 5.10682E-29 | 6855 | SYP |
| 0.032036289 | 5.36229E-29 | 80255 | SLC35F5 |
| 0.032026432 | 5.57412E-29 | 26658 | OR7C2 |
| 0.032022347 | 5.66434E-29 | 64968 | MRPS6 |
| 0.032016707 | 5.79128E-29 | 253650 | ANKRD18A |
| 0.03200543 | 8.59647E-29 | 56967 | C14orf132 |
| 0.031999914 | 6.18615E-29 | 653390 | AC009093.1 |
| 0.031979993 | 6.68935E-29 | 83639 | TEX101 |
| 0.03194124 | 7.78744E-29 | 348094 | ANKDD1A |
| 0.031928713 | 8.17931E-29 | 4330 | MN1 |
| 0.031927309 | 8.22443E-29 | 84904 | C9orf100 |
| 0.031905698 | 8.95092E-29 | 158584 | FAAH2 |
| 0.031905036 | 8.97415E-29 | 10004 | NAALADL1 |
| 0.031902666 | 9.05781E-29 | 340351 | AGBL3 |
| 0.031884878 | 9.71093E-29 | 645323 | LINC00461 |
| 0.03187809 | 9.97229E-29 | 91445 | RNF185 |
| 0.031864735 | 1.06261E-28 | 10577 | NPC2 |
| 0.031843688 | 1.14081E-28 | 10342 | TFG |
| 0.031817513 | 1.26363E-28 | 644844 | AC013356.1 |

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| 0.082220847 | 0.235258439 | 0.479 | 1 | 23209 | MLC1 |
| 0.082189748 | 0.235436041 | 0.467 | 1 | 57143 | ADCK1 |
| 0.082174199 | 0.235524877 | 0.497 | 1 | 51083 | GAL |
| 0.082031663 | 0.236340307 | 0.482 | 1 | 53833 | IL20RB |
| 0.082027775 | 0.236362574 | 0.476 | 1 | 1535 | CYBA |
| 0.082000564 | 0.236518483 | 0.499 | 1 | 55245 | UQCC |
| 0.081956507 | 0.23677106 | 0.499 | 1 | 23560 | GTPBP4 |
| 0.081899492 | 0.237098206 | 0.469 | 1 | 140685 | ZBTB46 |
| 0.081851548 | 0.237373552 | 0.49 | 1 | 150353 | DNAJB7 |
| 0.081842478 | 0.23742567 | 0.489 | 1 | 84517 | AC078802.1 |
| 0.081801013 | 0.237664025 | 0.488 | 1 | 2178 | FANCE |
| 0.081801013 | 0.237664025 | 0.504 | 1 | 10488 | CREB3 |
| 0.081758252 | 0.237910004 | 0.472 | 1 | 786 | CACNG1 |
| 0.08174659 | 0.23797712 | 0.512 | 1 | 646127 | LOC646127 |
| 0.081585912 | 0.238903188 | 0.49 | 1 | 10558 | SPTLC1 |
| 0.081575546 | 0.238963021 | 0.509 | 1 | 57538 | ALPK3 |
| 0.081528898 | 0.2392324 | 0.473 | 1 | 1606 | DGKA |
| 0.081505573 | 0.239367169 | 0.489 | 1 | 79717 | PPCS |
| 0.081448559 | 0.239696829 | 0.49 | 1 | 819 | CAMLG |
| 0.081440784 | 0.239741807 | 0.482 | 1 | 348021 | LINC00442 |
| 0.081329347 | 0.240387146 | 0.453 | 1 | 22839 | DLGAP4 |
| 0.081302135 | 0.240544913 | 0.452 | 1 | 7781 | SLC30A3 |
| 0.081268445 | 0.240740345 | 0.515 | 1 | 27076 | LYPD3 |
| 0.081185514 | 0.241221881 | 0.456 | 1 | 26065 | LSM14A |
| 0.081176444 | 0.24127459 | 0.47 | 1 | 84570 | COL25A1 |
| 0.081167373 | 0.241327307 | 0.461 | 1 | 347475 | AC004409.1 |
| 0.081166078 | 0.241334839 | 0.478 | 1 | 25780 | RASGRP3 |
| 0.081157007 | 0.241387565 | 0.474 | 1 | 100129935 | LOC100129935 |
| 0.081120725 | 0.241598551 | 0.517 | 1 | 79023 | NUP37 |
| 0.081118134 | 0.241613626 | 0.503 | 1 | 5438 | POLR2I |
| 0.081090922 | 0.241771957 | 0.482 | 1 | 4709 | NDUFB3 |
| 0.081075373 | 0.241862464 | 0.491 | 1 | 22882 | ZHX2 |
| 0.081063711 | 0.24193036 | 0.509 | 1 | 81831 | NETO2 |
| 0.081046865 | 0.242028456 | 0.467 | 1 | 29070 | CCDC113 |
| 0.081037795 | 0.242081288 | 0.506 | 1 | 116511 | MAS1L |
| 0.08102095 | 0.242179426 | 0.502 | 1 | 8228 | PNPLA4 |
| 0.080905625 | 0.242852044 | 0.473 | 1 | 374969 | CCDC23 |
| 0.080870638 | 0.243056355 | 0.507 | 1 | 51260 | CXorf26 |
| 0.080860272 | 0.243116914 | 0.528 | 1 | 6276 | S100A5 |
| 0.080842131 | 0.243222919 | 0.491 | 1 | 10540 | DCTN2 |
| 0.080842131 | 0.243222919 | 0.51 | 1 | 84313 | VPS25 |
| 0.080840835 | 0.243230492 | 0.492 | 1 | 55004 | C11orf59 |
| 0.080764384 | 0.243677591 | 0.496 | 1 | 1576 | CYP3A4 |
| 0.080755314 | 0.243730674 | 0.503 | 1 | 9261 | MAPKAPK2 |
| 0.080700891 | 0.244049346 | 0.498 | 1 | 54926 | UBE2R2 |
| 0.080698299 | 0.244064528 | 0.507 | 1 | 11285 | B4GALT7 |
| 0.080650355 | 0.244345516 | 0.511 | 1 | 374882 | TMEM205 |
| 0.080594636 | 0.244672353 | 0.52 | 1 | 5706 | PSMC6 |
| 0.080582974 | 0.244740799 | 0.461 | 1 | 8843 | HCAR3 |
| 0.080533734 | 0.245029942 | 0.511 | 1 | 3508 | IGHMBP2 |
| 0.080457283 | 0.245479347 | 0.517 | 1 | 90113 | VWA5B2 |
| 0.08042748 | 0.245654694 | 0.522 | 1 | 6888 | TALDO1 |
| 0.080418409 | 0.245708078 | 0.506 | 1 | 51013 | EXOSC1 |
| 0.080409339 | 0.24576147 | 0.544 | 1 | 80381 | CD276 |
| 0.080384719 | 0.245906432 | 0.502 | 1 | 3320 | HSP90AA2 |
| 0.080373057 | 0.245975119 | 0.462 | 1 | 57176 | VARS2 |
| 0.080287535 | 0.246479232 | 0.512 | 1 | 219793 | C10orf27 |
| 0.080257732 | 0.246655077 | 0.467 | 1 | 219931 | TPCN2 |
| 0.08019683 | 0.247014684 | 0.51 | 1 | 1207 | CLNS1A |
| 0.080170914 | 0.247167819 | 0.492 | 1 | 22931 | RAB18 |
| 0.080056885 | 0.247842399 | 0.5 | 1 | 54968 | TMEM70 |
| 0.080006349 | 0.248141769 | 0.508 | 1 | 54763 | ROPN1 |
| 0.079967476 | 0.248372226 | 0.45 | 1 | 29887 | SNX10 |
| 0.079964884 | 0.248387595 | 0.503 | 1 | 2273 | FHL1 |
| 0.079951926 | 0.24846445 | 0.49 | 1 | 5465 | PPARA |
| 0.079913053 | 0.248695115 | 0.481 | 1 | 8547 | FCN3 |
| 0.079889729 | 0.248833585 | 0.465 | 1 | 55763 | EXOC1 |
| 0.079863813 | 0.248987504 | 0.492 | 1 | 6711 | SPTBN1 |
| 0.079778291 | 0.249495906 | 0.508 | 1 | 79786 | KLHL36 |
| 0.079754967 | 0.249634686 | 0.454 | 1 | 256987 | SERINC5 |
| 0.079684994 | 0.250051348 | 0.495 | 1 | 728470 | LOC728470 |
| 0.079657783 | 0.250213514 | 0.525 | 1 | 644794 | LOC644794 |
| 0.079634459 | 0.250352571 | 0.512 | 1 | 783 | CACNB2 |
| 0.079608543 | 0.250507142 | 0.518 | 1 | 9718 | ECE2 |
| 0.079592994 | 0.250599917 | 0.522 | 1 | 4833 | NME4 |
| 0.079537275 | 0.250932554 | 0.492 | 1 | 3054 | HCFC1 |
| 0.079523021 | 0.251017697 | 0.485 | 1 | 6139 | RPL17P20 |
| 0.079499697 | 0.251157064 | 0.494 | 1 | 10328 | COX4NB |
| 0.07949581 | 0.251180297 | 0.519 | 1 | 7024 | TFCP2 |
| 0.079453049 | 0.25143596 | 0.494 | 1 | 23184 | MESDC2 |
| 0.079445274 | 0.251482464 | 0.474 | 1 | 23243 | ANKRD28 |
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| 0.031811586 | 1.29322E-28 | 50615 | IL21R |
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| 0.03179344 | 1.38813E-28 | 120224 | TMEM45B |
| 0.031784773 | 1.43587E-28 | 28988 | DBNL |
| 0.031780292 | 1.46119E-28 | 8908 | GYG2 |
| 0.031777079 | 1.47961E-28 | 10573 | MRPL28 |
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| 0.031754503 | 1.61575E-28 | 10942 | PRSS21 |
| 0.031750105 | 1.64368E-28 | 26133 | TRPC4AP |
| 0.031744805 | 2.29942E-28 | 151011 | SEPTIN10 |
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| 0.031715789 | 1.87871E-28 | 140686 | WFDC3 |
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| 0.031686946 | 2.10183E-28 | 164153 | UBL4B |
| 0.031681675 | 2.14535E-28 | 8545 | CGGBP1 |
| 0.031680191 | 2.15777E-28 | 26272 | FBXO4 |
| 0.031672974 | 2.21916E-28 | 5498 | PPOX |
| 0.031669361 | 2.25055E-28 | 54851 | ANKRD49 |
| 0.031659923 | 2.33464E-28 | 2301 | FOXE3 |
| 0.031649975 | 2.42663E-28 | 10607 | TBL3 |
| 0.03164784 | 3.45311E-28 | 27328 | PCDH11X |
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| 0.031630418 | 2.61811E-28 | 438 | ASMT |
| 0.031628573 | 2.63693E-28 | 5686 | PSMA5 |
| 0.031602236 | 2.92067E-28 | 56269 | IRGC |
| 0.031595255 | 3.00083E-28 | 6191 | RPS4X |
| 0.031594642 | 3.00797E-28 | 2487 | FRZB |
| 0.031562417 | 3.40814E-28 | 4914 | NTRK1 |
| 0.031539297 | 3.72736E-28 | 92609 | TIMM50 |
| 0.031526666 | 3.91412E-28 | 79166 | LILRP2 |
| 0.031511392 | 4.15236E-28 | 57624 | KIAA1486 |
| 0.031493207 | 4.45486E-28 | 11132 | CAPN10 |
| 0.03147131 | 4.84821E-28 | 9447 | AIM2 |
| 0.031454927 | 5.16487E-28 | 100287049 | RP11-574F21.2 |
| 0.031441221 | 5.4455E-28 | 256536 | TCERG1L |
| 0.031417304 | 5.97185E-28 | 390199 | OR4D9 |
| 0.031407775 | 6.19535E-28 | 8318 | CDC45L |
| 0.031397597 | 6.44324E-28 | 3111 | HLA-DOA |
| 0.031394248 | 6.52695E-28 | 219986 | OR4D11 |
| 0.031358845 | 7.48044E-28 | 19 | ABCA1 |
| 0.031334364 | 8.21935E-28 | 8969 | HIST1H2AG |
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| 0.03131827 | 8.7441E-28 | 338323 | NLRP14 |
| 0.031311708 | 8.96747E-28 | 402055 | SRRD |
| 0.031272382 | 1.04298E-27 | 9481 | SLC25A27 |
| 0.031268212 | 1.05981E-27 | 164832 | LONRF2 |
| 0.031239354 | 1.18389E-27 | 126299 | ZNF428 |
| 0.031233775 | 1.20949E-27 | 7039 | TGFA |
| 0.031230644 | 1.22409E-27 | 84631 | SLITRK2 |
| 0.031229011 | 1.23178E-27 | 55634 | ZNF673 |
| 0.03122515 | 1.25015E-27 | 8733 | GPAA1 |
| 0.031223068 | 1.26016E-27 | 2590 | GALNT2 |
| 0.031218764 | 1.28113E-27 | 64714 | PDIA2 |
| 0.031204304 | 1.35411E-27 | 55789 | DEPDC1B |
| 0.031175058 | 1.51456E-27 | 84326 | C16orf13 |
| 0.031161083 | 1.59775E-27 | 9112 | MTA1 |
| 0.031153839 | 1.64263E-27 | 8763 | CD164 |
| 0.031139557 | 1.73483E-27 | 1380 | CR2 |
| 0.03111526 | 1.90362E-27 | 151507 | MSL3P1 |
| 0.031085847 | 2.17923E-27 | 770 | CA11 |
| 0.031081804 | 2.16298E-27 | 10528 | NOP56 |
| 0.031077521 | 2.19862E-27 | 25976 | TIPARP |
| 0.03106786 | 2.28115E-27 | 93343 | FAM125A |
| 0.031063028 | 2.32358E-27 | 57136 | C20orf3 |
| 0.031055928 | 2.38735E-27 | 60468 | BACH2 |
| 0.031029455 | 2.64079E-27 | 56244 | BTNL2 |
| 0.03102337 | 2.70271E-27 | 6360 | CCL16 |
| 0.031022018 | 2.71666E-27 | 3171 | FOXA3 |
| 0.031020325 | 2.73423E-27 | 706 | TSPO |
| 0.030990521 | 3.06272E-27 | 84274 | COQ5 |
| 0.030978531 | 3.20564E-27 | 197 | AHSG |
| 0.030959343 | 3.44826E-27 | 322 | APBB1 |
| 0.030944578 | 3.64726E-27 | 55214 | LEPREL1 |
| 0.030911087 | 4.14188E-27 | 284612 | SYPL2 |
| 0.030908651 | 4.18034E-27 | 5588 | PRKCQ |
| 0.030889029 | 4.5034E-27 | 3340 | NDST1 |
| 0.030883285 | 4.68298E-27 | 6035 | RNASE1 |

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| 0.079427133 | 0.251590995 | 0.514 | 1 | 55295 | KLHL26 |
| 0.079361048 | 0.251986635 | 0.477 | 1 | 381 | ARF5 |
| 0.07934809 | 0.252064261 | 0.495 | 1 | 10758 | TRAF3IP2 |
| 0.079346794 | 0.252072025 | 0.526 | 1 | 6396 | SEC13 |
| 0.079344203 | 0.252087553 | 0.505 | 1 | 93650 | ACPT |
| 0.079336428 | 0.25213414 | 0.493 | 1 | 3681 | ITGAD |
| 0.079205554 | 0.252919252 | 0.504 | 1 | 6168 | RPL37A |
| 0.079200371 | 0.25295038 | 0.511 | 1 | 51647 | FAM96B |
| 0.079196483 | 0.252973728 | 0.502 | 1 | 7547 | ZIC3 |
| 0.079188709 | 0.253020429 | 0.529 | 1 | 10960 | LMAN2 |
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| 0.079006003 | 0.254119611 | 0.514 | 1 | 54463 | FAM134B |
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| 0.078929551 | 0.254580532 | 0.489 | 1 | 54937 | SOHLH2 |
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| 0.078814226 | 0.255276913 | 0.506 | 1 | 9334 | B4GALT5 |
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| 0.078749437 | 0.255668715 | 0.51 | 1 | 6444 | SGCD |
| 0.078748141 | 0.255676555 | 0.491 | 1 | 161291 | TMEM30B |
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| 0.078711859 | 0.255896151 | 0.502 | 1 | 84274 | COQ5 |
| 0.078654845 | 0.256241493 | 0.491 | 1 | 85391 | SNORD14E |
| 0.078643183 | 0.256312171 | 0.477 | 1 | 5646 | PRSS3 |
| 0.078618563 | 0.256461423 | 0.503 | 1 | 11143 | MYST2 |
| 0.078612084 | 0.25650071 | 0.501 | 1 | 80256 | KIAA1539 |
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| 0.078338673 | 0.258162413 | 0.521 | 1 | 3553 | IL1B |
| 0.078337377 | 0.258170306 | 0.48 | 1 | 79443 | FYCO1 |
| 0.078323124 | 0.25825714 | 0.501 | 1 | 83552 | MFRP |
| 0.078272588 | 0.258565168 | 0.523 | 1 | 400359 | C15orf53 |
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| 0.078196137 | 0.25903164 | 0.49 | 1 | 64799 | IQCH |
| 0.078183179 | 0.259110761 | 0.498 | 1 | 93973 | ACTR8 |
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| 0.077909768 | 0.260784087 | 0.519 | 1 | 7518 | XRCC4 |
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| 0.077857937 | 0.261102142 | 0.508 | 1 | 3987 | LIMS1 |
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| 0.07770633 | 0.262033983 | 0.505 | 1 | 11345 | GABARAPL2 |
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| 0.077233368 | 0.26495568 | 0.524 | 1 | 8890 | EIF2B4 |
| 0.077224297 | 0.26501193 | 0.496 | 1 | 10066 | SCAMP2 |
| 0.07719579 | 0.265188768 | 0.508 | 1 | 79777 | ACBD4 |
| 0.077190607 | 0.265220929 | 0.534 | 1 | 56287 | GKN1 |
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| 0.030778989 | 6.8307E-27 | 440050 | KRTAP5-7 |
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| 0.030678079 | 9.99582E-27 | 6261 | RYR1 |
| 0.030677986 | 9.99932E-27 | 9401 | RECQL4 |
| 0.030639448 | 1.15605E-26 | 2847 | MCHR1 |
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| 0.030586659 | 1.40981E-26 | 391196 | OR2M7 |
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| 0.030570913 | 1.49568E-26 | 1880 | GPR183 |
| 0.030560681 | 1.55424E-26 | 192111 | PGAM5 |
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| 0.030550008 | 1.61774E-26 | 712 | C1QA |
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| 0.030536143 | 1.70409E-26 | 1387 | CREBBP |
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| 0.030526396 | 1.76752E-26 | 100132147 | LOC100132147 |
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| 0.030395918 | 2.87962E-26 | 4946 | OAZ1 |
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| 0.030314886 | 3.89519E-26 | 84166 | NLRC5 |
| 0.030311131 | 3.95003E-26 | 7205 | TRIP6 |
| 0.030296112 | 4.17709E-26 | 55325 | UFSP2 |
| 0.030293366 | 4.22E-26 | 26082 | AC135731.1 |
| 0.030287215 | 4.31768E-26 | 3747 | KCNC2 |
| 0.030285694 | 4.34217E-26 | 63934 | ZNF667 |
| 0.030276554 | 4.49229E-26 | 219982 | OR5A1 |
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| 0.030239521 | 5.15509E-26 | 140902 | R3HDML |
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| 0.030206372 | 5.83009E-26 | 653583 | PHLDB3 |
| 0.03019237 | 6.14088E-26 | 400043 | RP11-834C11.4 |
| 0.030185706 | 6.29449E-26 | 23239 | PHLPP1 |
| 0.030147424 | 7.25372E-26 | 199974 | CYP4Z1 |
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| 0.030069258 | 9.68498E-26 | 23155 | CLCC1 |
| 0.030050974 | 1.03614E-25 | 4994 | OR3A1 |
| 0.030028096 | 1.1274E-25 | 1504 | CTRB1 |
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| 0.030003106 | 1.23621E-25 | 284565 | NBPF15 |
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| 0.029999023 | 1.25495E-25 | 328 | APEX1 |
| 0.029993381 | 1.28131E-25 | 4087 | SMAD2 |
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| 0.076919788 | 0.266905068 | 0.51 | 1 | 8831 | SYNGAP1 |
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| 0.076851111 | 0.267333306 | 0.543 | 1 | 51214 | IGF2AS |
| 0.076796688 | 0.267672998 | 0.524 | 1 | 57514 | CDGAP |
| 0.076766885 | 0.267859145 | 0.505 | 1 | 8074 | FGF23 |
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| 0.076703391 | 0.268256014 | 0.517 | 1 | 51150 | SDF4 |
| 0.076590658 | 0.268961648 | 0.49 | 1 | 64761 | PARP12 |
| 0.076501249 | 0.269522189 | 0.503 | 1 | 6820 | SULT2B1 |
| 0.076476629 | 0.269676681 | 0.528 | 1 | 154743 | C7orf60 |
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| 0.076440347 | 0.269904463 | 0.462 | 1 | 3162 | HMOX1 |
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| 0.076401473 | 0.270148661 | 0.499 | 1 | 119392 | C10orf78 |
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| 0.076144908 | 0.271764146 | 0.541 | 1 | 79368 | FCRL2 |
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| 0.07592592 | 0.273148214 | 0.504 | 1 | 83446 | CCDC70 |
| 0.075872793 | 0.273484715 | 0.521 | 1 | 80341 | BPIL1 |
| 0.075826144 | 0.273780412 | 0.513 | 1 | 6144 | RPL21 |
| 0.075805412 | 0.273911902 | 0.528 | 1 | 1001 | CDH3 |
| 0.075792454 | 0.273994106 | 0.496 | 1 | 11039 | SMA4 |
| 0.075705636 | 0.274545301 | 0.487 | 1 | 1727 | CYB5R3 |
| 0.075665467 | 0.274800586 | 0.489 | 1 | 2214 | FCGR3A |
| 0.075644734 | 0.274932409 | 0.542 | 1 | 84292 | AC010422.1 |
| 0.075566987 | 0.275427128 | 0.545 | 1 | 144577 | C12orf66 |
| 0.075548846 | 0.275542649 | 0.524 | 1 | 84650 | EBPL |
| 0.075539776 | 0.275600422 | 0.541 | 1 | 55191 | NADSYN1 |
| 0.075516452 | 0.275749019 | 0.488 | 1 | 23322 | RPGRIP1L |
| 0.075500902 | 0.275848114 | 0.491 | 1 | 127707 | KLHDC7A |
| 0.075442592 | 0.276219934 | 0.504 | 1 | 221927 | C7orf27 |
| 0.075442592 | 0.276219934 | 0.526 | 1 | 253970 | SFTA3 |
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| 0.075437409 | 0.276253002 | 0.524 | 1 | 55718 | POLR3E |
| 0.075393352 | 0.276534181 | 0.512 | 1 | 25923 | ATL3 |
| 0.075382986 | 0.276600369 | 0.52 | 1 | 11338 | U2AF2 |
| 0.075379098 | 0.276625192 | 0.526 | 1 | 6898 | TAT |
| 0.075371324 | 0.276674843 | 0.553 | 1 | 4485 | MST1 |
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| 0.075294872 | 0.2771634 | 0.542 | 1 | 8484 | GALR3 |
| 0.075215829 | 0.277669133 | 0.507 | 1 | 133015 | PACRGL |
| 0.075205463 | 0.277735505 | 0.553 | 1 | 7284 | TUFM |
| 0.075176956 | 0.277918083 | 0.513 | 1 | 55777 | MBD5 |
| 0.075167885 | 0.277976194 | 0.508 | 1 | 54549 | SDK2 |
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| 0.074990363 | 0.279115148 | 0.525 | 1 | 126017 | ZNF813 |
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| 0.074849122 | 0.280023574 | 0.527 | 1 | 81491 | GPR63 |
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| 0.074636613 | 0.281394143 | 0.508 | 1 | 10409 | BASP1 |
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| 0.029670592 | 4.18202E-25 | 9507 | ADAMTS4 |
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| 0.029607264 | 5.26664E-25 | 9798 | IST1 |
| 0.029601772 | 5.3729E-25 | 23766 | GABARAPL3 |
| 0.029600847 | 5.391E-25 | 2137 | EXTL3 |
| 0.029589096 | 5.62634E-25 | 6881 | TAF10 |
| 0.02958781 | 5.6527E-25 | 120534 | C11orf46 |
| 0.02957865 | 5.84406E-25 | 4357 | MPST |
| 0.029545673 | 6.58766E-25 | 128488 | WFDC12 |
| 0.029534275 | 6.86589E-25 | 51115 | FAM82B |
| 0.029527106 | 7.04682E-25 | 10618 | TGOLN2 |
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| 0.029419925 | 1.03886E-24 | 2687 | GGT5 |
| 0.029417409 | 1.04836E-24 | 643236 | TMEM72 |
| 0.029406393 | 1.09094E-24 | 9859 | CEP170 |
| 0.029400906 | 1.11278E-24 | 8870 | IER3 |
| 0.029399427 | 1.11874E-24 | 130162 | C2orf63 |
| 0.029395712 | 1.13385E-24 | 5349 | FXYD3 |
| 0.029363385 | 1.2742E-24 | 4490 | MT1B |
| 0.029363001 | 1.27597E-24 | 199920 | C1orf168 |
| 0.029350281 | 1.33588E-24 | 22907 | DHX30 |
| 0.029310069 | 1.54421E-24 | 79933 | SYNPO2L |
| 0.029302719 | 1.58563E-24 | 57555 | NLGN2 |
| 0.02928929 | 1.66416E-24 | 182 | JAG1 |
| 0.029288757 | 1.66736E-24 | 131177 | FAM3D |
| 0.029277207 | 1.73812E-24 | 205717 | KIAA2018 |
| 0.029269598 | 1.78635E-24 | 57471 | ERMN |
| 0.029241486 | 1.97632E-24 | 79054 | TRPM8 |
| 0.029234362 | 2.02756E-24 | 1585 | CYP11B2 |
| 0.029233048 | 2.03715E-24 | 5148 | PDE6G |
| 0.029218682 | 2.14501E-24 | 4815 | NINJ2 |
| 0.029210931 | 2.20554E-24 | 80381 | CD276 |
| 0.02919689 | 2.31953E-24 | 6329 | SCN4A |
| 0.029180393 | 2.46092E-24 | 27332 | ZNF638 |
| 0.02917845 | 2.47812E-24 | 79842 | ZBTB3 |
| 0.029169879 | 2.55545E-24 | 129880 | BBS5 |
| 0.029169546 | 2.55851E-24 | 26534 | OR10G2 |
| 0.02915893 | 2.65773E-24 | 728833 | FAM72D |
| 0.029138078 | 2.86385E-24 | 27295 | PDLIM3 |
| 0.029055118 | 3.85284E-24 | 126328 | NDUFA11 |
| 0.029049591 | 3.92963E-24 | 79812 | MMRN2 |
| 0.029048504 | 3.94491E-24 | 23093 | TTLL5 |
| 0.029039617 | 4.07204E-24 | 11194 | ABCB8 |
| 0.029036585 | 4.11635E-24 | 83650 | AMAC1L2 |
| 0.029011833 | 4.49631E-24 | 51019 | CCDC53 |

| | | | | | |
|---|---|---|---|---|---|
| 0.074176609 | 0.284376406 | 0.52 | 1 | 7932 | OR2H2 |
| 0.074157172 | 0.284502884 | 0.498 | 1 | 6167 | RPL37 |
| 0.07411182 | 0.284798146 | 0.548 | 1 | 5053 | PAH |
| 0.074083313 | 0.284983845 | 0.539 | 1 | 23317 | DNAJC13 |
| 0.074061284 | 0.285127395 | 0.498 | 1 | 219995 | MS4A15 |
| 0.074002974 | 0.285507616 | 0.52 | 1 | 51069 | MRPL2 |
| 0.073960213 | 0.285786661 | 0.544 | 1 | 5468 | PPARG |
| 0.073875987 | 0.286336831 | 0.546 | 1 | 84955 | NUDCD1 |
| 0.073863029 | 0.286421536 | 0.55 | 1 | 84989 | LOC84989 |
| 0.073861733 | 0.286430007 | 0.501 | 1 | 117157 | SH2D1B |
| 0.07384748 | 0.286523203 | 0.533 | 1 | 144809 | C13orf30 |
| 0.073842296 | 0.286557098 | 0.532 | 1 | 54732 | TMED9 |
| 0.073812493 | 0.286752045 | 0.497 | 1 | 9252 | RPS6KA5 |
| 0.073806014 | 0.286794436 | 0.52 | 1 | 79807 | GSTCD |
| 0.073800831 | 0.286828352 | 0.516 | 1 | 1735 | DIO3 |
| 0.073781394 | 0.286955562 | 0.508 | 1 | 8269 | TMEM187 |
| 0.073772324 | 0.28701494 | 0.528 | 1 | 221472 | FGD2 |
| 0.073746408 | 0.287184635 | 0.541 | 1 | 79157 | MFSD11 |
| 0.073743817 | 0.287201608 | 0.535 | 1 | 3293 | HSD17B3 |
| 0.073710126 | 0.287422322 | 0.51 | 1 | 6188 | RPS3P3 |
| 0.073703647 | 0.28746478 | 0.537 | 1 | 139604 | MAGEB16 |
| 0.073510575 | 0.288731959 | 0.503 | 1 | 27340 | UTP20 |
| 0.073443194 | 0.289175076 | 0.534 | 1 | 57834 | CYP4F11 |
| 0.073428941 | 0.289268871 | 0.51 | 1 | 55554 | KLK15 |
| 0.073400433 | 0.289456521 | 0.536 | 1 | 4691 | NCL |
| 0.073344715 | 0.289823528 | 0.52 | 1 | 392490 | FLJ44635 |
| 0.073335644 | 0.289883302 | 0.524 | 1 | 440905 | AC018865.8 |
| 0.073305841 | 0.290079763 | 0.518 | 1 | 54902 | TTC19 |
| 0.073305841 | 0.290079763 | 0.52 | 1 | 255180 | FLJ38723 |
| 0.073272151 | 0.290301957 | 0.566 | 1 | 9086 | EIF1AY |
| 0.07325401 | 0.290421646 | 0.535 | 1 | 8487 | SIP1 |
| 0.073242348 | 0.290498607 | 0.506 | 1 | 197 | AHSG |
| 0.073235869 | 0.290541369 | 0.536 | 1 | 85317 | BAGE4 |
| 0.073194404 | 0.290815145 | 0.57 | 1 | 3857 | KRT9 |
| 0.07315553 | 0.291071967 | 0.553 | 1 | 25 | ABL1 |
| 0.073137389 | 0.291191869 | 0.533 | 1 | 10903 | MTMR11 |
| 0.073120544 | 0.291303237 | 0.542 | 1 | 149018 | LELP1 |
| 0.073095924 | 0.291466055 | 0.54 | 1 | 729494 | ARPC3P3 |
| 0.073046684 | 0.291791875 | 0.547 | 1 | 10296 | MAEA |
| 0.072989669 | 0.292169444 | 0.533 | 1 | 161835 | FSIP1 |
| 0.072961162 | 0.292358351 | 0.518 | 1 | 51251 | NT5C3 |
| 0.072955979 | 0.292392707 | 0.55 | 1 | 161725 | OTUD7A |
| 0.072945613 | 0.292461426 | 0.5 | 1 | 22986 | SORCS3 |
| 0.072917105 | 0.292650459 | 0.518 | 1 | 100271715 | AC019171.4 |
| 0.072869161 | 0.292968562 | 0.529 | 1 | 9034 | CCRL2 |
| 0.072810851 | 0.293355755 | 0.553 | 1 | 339742 | FAM201B |
| 0.072806964 | 0.29338158 | 0.523 | 1 | 5527 | PPP2R5C |
| 0.072787527 | 0.293510728 | 0.532 | 1 | 9896 | FIG4 |
| 0.072786231 | 0.293519339 | 0.524 | 1 | 114881 | OSBPL7 |
| 0.072682568 | 0.294208781 | 0.542 | 1 | 11341 | SCRG1 |
| 0.072647582 | 0.294441712 | 0.527 | 1 | 533 | ATP6V0B |
| 0.072642399 | 0.29447623 | 0.54 | 1 | 29105 | C16orf80 |
| 0.072612596 | 0.294674765 | 0.516 | 1 | 2175 | FANCA |
| 0.072610004 | 0.294692033 | 0.519 | 1 | 344405 | NCRNA00117 |
| 0.072545215 | 0.295123954 | 0.514 | 1 | 4038 | LRP4 |
| 0.072471355 | 0.295616859 | 0.511 | 1 | 10420 | TESK2 |
| 0.072441552 | 0.295815905 | 0.538 | 1 | 9050 | PSTPIP2 |
| 0.072402678 | 0.296075665 | 0.547 | 1 | 4057 | LTF |
| 0.072381946 | 0.296214266 | 0.521 | 1 | 5989 | RFX1 |
| 0.072327523 | 0.296578298 | 0.552 | 1 | 100288798 | LOC100288798 |
| 0.072286058 | 0.296855856 | 0.524 | 1 | 10799 | RPP40 |
| 0.072214789 | 0.297333312 | 0.533 | 1 | 64770 | CCDC14 |
| 0.072179803 | 0.297567886 | 0.564 | 1 | 5317 | PKP1 |
| 0.072096873 | 0.298124404 | 0.509 | 1 | 5296 | PIK3R2 |
| 0.072078732 | 0.298246235 | 0.551 | 1 | 54471 | SMCR7L |
| 0.071965999 | 0.299004066 | 0.546 | 1 | 127540 | HMGB4 |
| 0.071964703 | 0.299012784 | 0.51 | 1 | 64221 | ROBO3 |
| 0.071901209 | 0.299440179 | 0.493 | 1 | 219681 | ARMC3 |
| 0.071833828 | 0.299894184 | 0.546 | 1 | 55346 | TCP11L1 |
| 0.07180273 | 0.300103878 | 0.531 | 1 | 151887 | CCDC80 |
| 0.071800138 | 0.300121357 | 0.521 | 1 | 100129094 | BTNL10 |
| 0.071789772 | 0.30019128 | 0.546 | 1 | 523 | ATP6V1A |
| 0.07177811 | 0.300269956 | 0.508 | 1 | 6515 | SLC2A3 |
| 0.071749602 | 0.300462332 | 0.561 | 1 | 130612 | TMEM198 |
| 0.071714616 | 0.300698541 | 0.554 | 1 | 2052 | EPHX1 |
| 0.071696475 | 0.300821069 | 0.519 | 1 | 23185 | LARP4B |
| 0.071693884 | 0.300838575 | 0.544 | 1 | 285231 | FBXW12 |
| 0.071640756 | 0.30119761 | 0.56 | 1 | 118425 | RP11-610O8.1 |
| 0.071617432 | 0.301355324 | 0.524 | 1 | 3904 | LAIR2 |
| 0.0715967 | 0.301495561 | 0.54 | 1 | 80308 | FLAD1 |
| 0.071559122 | 0.301749849 | 0.552 | 1 | 1441 | CSF3R |
| 0.071526727 | 0.301969178 | 0.544 | 1 | 1528 | CYB5A |

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| 0.029000483 | 4.68197E-24 | 94015 | TTYH2 |
| 0.028997436 | 4.73309E-24 | 160335 | TMTC2 |
| 0.028982114 | 4.99866E-24 | 23633 | KPNA6 |
| 0.028977608 | 5.07953E-24 | 391475 | DYTN |
| 0.028977543 | 5.0807E-24 | 201283 | AMZ2P1 |
| 0.028966764 | 5.2795E-24 | 56938 | ARNTL2 |
| 0.028959709 | 5.41377E-24 | 10584 | COLEC10 |
| 0.028954398 | 5.51707E-24 | 79077 | DCTPP1 |
| 0.028944451 | 5.71582E-24 | 158055 | C9orf163 |
| 0.028935994 | 5.89037E-24 | 83938 | C10orf11 |
| 0.028914418 | 6.35995E-24 | 79171 | RBM42 |
| 0.0288883 | 6.97825E-24 | 10026 | PIGK |
| 0.028883067 | 7.1091E-24 | 57325 | CSRP2BP |
| 0.028865023 | 7.57924E-24 | 643965 | TMEM88B |
| 0.028840132 | 8.27868E-24 | 7225 | TRPC6 |
| 0.028836413 | 8.38852E-24 | 6940 | ZNF354A |
| 0.02879811 | 9.60743E-24 | 3676 | ITGA4 |
| 0.02878899 | 9.9226E-24 | 4332 | MNDA |
| 0.028788165 | 9.95159E-24 | 7652 | ZNF99 |
| 0.028757341 | 1.10978E-23 | 22933 | SIRT2 |
| 0.028743835 | 1.16404E-23 | 11127 | KIF3A |
| 0.028680861 | 1.45375E-23 | 203238 | C9orf93 |
| 0.028674922 | 1.48451E-23 | 165257 | C1QL2 |
| 0.028674814 | 1.48508E-23 | 5858 | PZP |
| 0.028674206 | 1.48826E-23 | 9026 | HIP1R |
| 0.028661914 | 1.55415E-23 | 100127206 | KIAA1024L |
| 0.028661205 | 1.55803E-23 | 54665 | RSBN1 |
| 0.02866025 | 1.56328E-23 | 10349 | ABCA10 |
| 0.028659598 | 1.56688E-23 | 27301 | APEX2 |
| 0.028640152 | 1.67795E-23 | 84269 | CHCHD5 |
| 0.028631873 | 1.72756E-23 | 3155 | HMGCL |
| 0.028586274 | 2.02806E-23 | 2186 | BPTF |
| 0.028581964 | 2.05901E-23 | 85289 | KRTAP4-5 |
| 0.028568056 | 2.1621E-23 | 161176 | C14orf49 |
| 0.02856792 | 2.16314E-23 | 55505 | NOP10 |
| 0.02856773 | 2.16458E-23 | 345895 | RSHL1 |
| 0.028567665 | 2.16508E-23 | 9987 | HNRPDL |
| 0.028553856 | 3.00968E-23 | 7905 | REEP5 |
| 0.028546964 | 2.32828E-23 | 5593 | PRKG2 |
| 0.028543605 | 2.35588E-23 | 815 | CAMK2A |
| 0.028524608 | 2.51822E-23 | 5241 | PGR |
| 0.028522717 | 2.53498E-23 | 10287 | RGS19 |
| 0.028521637 | 2.54459E-23 | 137797 | LYPD2 |
| 0.028515648 | 2.59859E-23 | 81871 | KRTAP4-6 |
| 0.028490518 | 2.83779E-23 | 51263 | MRPL30 |
| 0.028488546 | 2.85746E-23 | 149047 | RP11-183M13.1 |
| 0.02847479 | 2.99846E-23 | 5805 | PTS |
| 0.028474149 | 3.0052E-23 | 283165 | PRR10 |
| 0.028470871 | 3.03988E-23 | 25873 | RPL36 |
| 0.02846809 | 4.05835E-23 | 50614 | GALNT9 |
| 0.028460257 | 3.15492E-23 | 2195 | FAT1 |
| 0.02845305 | 4.27115E-23 | 1305 | COL13A1 |
| 0.028440515 | 3.38046E-23 | 51806 | CALML5 |
| 0.028427084 | 3.54297E-23 | 149461 | CLDN19 |
| 0.028418039 | 3.65674E-23 | 91010 | FMNL3 |
| 0.028416908 | 3.67121E-23 | 286183 | NKAIN3 |
| 0.028415615 | 3.68783E-23 | 7298 | TYMS |
| 0.028387365 | 4.07016E-23 | 10475 | TRIM38 |
| 0.028384653 | 4.10888E-23 | 90411 | MCFD2 |
| 0.028379113 | 4.18908E-23 | 9554 | SEC22B |
| 0.028367372 | 4.36421E-23 | 57156 | TMEM63C |
| 0.028358955 | 4.4942E-23 | 116988 | AGAP3 |
| 0.028306352 | 5.39802E-23 | 80148 | PQLC1 |
| 0.028296404 | 5.58815E-23 | 3554 | IL1R1 |
| 0.028270362 | 6.11786E-23 | 53919 | SLCO1C1 |
| 0.028269128 | 6.14415E-23 | 54838 | C10orf26 |
| 0.028251893 | 6.52334E-23 | 441461 | RP11-60I3.5 |
| 0.028243248 | 6.72218E-23 | 81855 | SFXN3 |
| 0.028208218 | 7.59119E-23 | 7270 | TTF1 |
| 0.028205853 | 7.65373E-23 | 56904 | SH3GLB2 |
| 0.028189341 | 8.10467E-23 | 533 | ATP6V0B |
| 0.028177382 | 8.44764E-23 | 58495 | OVOL2 |
| 0.028156037 | 9.0958E-23 | 9702 | CEP57 |
| 0.028153561 | 9.17411E-23 | 55357 | TBC1D2 |
| 0.028152107 | 9.2204E-23 | 777 | CACNA1E |
| 0.028146327 | 9.40674E-23 | 130540 | ALS2CR12 |
| 0.028133109 | 9.84697E-23 | 129049 | SGSM1 |
| 0.02812538 | 1.01137E-22 | 114796 | AC093734.11 |
| 0.02811072 | 1.06396E-22 | 57680 | CHD8 |
| 0.028103604 | 1.09045E-22 | 4437 | MSH3 |
| 0.028102449 | 1.09481E-22 | 376267 | RAB15 |
| 0.028092813 | 1.13188E-22 | 142913 | CFL1P1 |

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| 0.071438614 | 0.302566285 | 0.572 | 1 | 91419 | XRCC6BP1 |
| 0.071429543 | 0.302627796 | 0.558 | 1 | 9955 | HS3ST3A1 |
| 0.071402332 | 0.30281238 | 0.561 | 1 | 5147 | PDE6D |
| 0.071385487 | 0.302926683 | 0.526 | 1 | 7424 | VEGFC |
| 0.071381599 | 0.302953064 | 0.49 | 1 | 84322 | C18orf12 |
| 0.071372529 | 0.303014628 | 0.525 | 1 | 93653 | ST7-AS1 |
| 0.071318106 | 0.303384181 | 0.552 | 1 | 150383 | C22orf40 |
| 0.071310331 | 0.303436998 | 0.553 | 1 | 390212 | GPR152 |
| 0.071281824 | 0.303630715 | 0.549 | 1 | 25880 | TMEM186 |
| 0.071239063 | 0.303921443 | 0.527 | 1 | 374860 | C21orf110 |
| 0.07121833 | 0.304062468 | 0.559 | 1 | 5197 | PF4V1 |
| 0.07111078 | 0.304794729 | 0.553 | 1 | 79897 | RPP21 |
| 0.071104301 | 0.304838879 | 0.516 | 1 | 25945 | PVRL3 |
| 0.071084864 | 0.304971352 | 0.52 | 1 | 79674 | VEPH1 |
| 0.071011004 | 0.305475097 | 0.55 | 1 | 10961 | ERP29 |
| 0.07096306 | 0.305802382 | 0.55 | 1 | 26012 | NELF |
| 0.070944919 | 0.30592628 | 0.553 | 1 | 83884 | SLC25A2 |
| 0.070925483 | 0.306059065 | 0.538 | 1 | 642280 | ZNF876P |
| 0.070913821 | 0.306138754 | 0.522 | 1 | 440356 | AC120114.2 |
| 0.070833482 | 0.306688095 | 0.547 | 1 | 113828 | FAM83F |
| 0.070804975 | 0.306883178 | 0.555 | 1 | 57822 | GRHL3 |
| 0.070746664 | 0.307282467 | 0.575 | 1 | 157697 | ERICH1 |
| 0.070722044 | 0.307451158 | 0.547 | 1 | 125228 | C18orf19 |
| 0.070719453 | 0.307468919 | 0.549 | 1 | 123803 | NTAN1 |
| 0.070696129 | 0.307628794 | 0.533 | 1 | 9468 | PCYT1B |
| 0.070671509 | 0.30779761 | 0.564 | 1 | 170954 | KIAA1949 |
| 0.070436971 | 0.309408865 | 0.53 | 1 | 3340 | NDST1 |
| 0.07043438 | 0.3094267 | 0.546 | 1 | 79748 | LMAN1L |
| 0.070420126 | 0.309524803 | 0.527 | 1 | 80298 | MTERFD3 |
| 0.070408464 | 0.309605085 | 0.538 | 1 | 3036 | HAS1 |
| 0.070356633 | 0.309962059 | 0.506 | 1 | 80345 | ZNF435 |
| 0.070313872 | 0.310256765 | 0.575 | 1 | 80232 | WDR26 |
| 0.070274998 | 0.31052484 | 0.563 | 1 | 8987 | STBD1 |
| 0.070249082 | 0.31070364 | 0.557 | 1 | 348654 | GEN1 |
| 0.070245195 | 0.310730466 | 0.535 | 1 | 7430 | VIL2 |
| 0.070208913 | 0.310980915 | 0.526 | 1 | 400617 | KCNJ2-AS1 |
| 0.070184293 | 0.311150938 | 0.563 | 1 | 494118 | SPANXN1 |
| 0.070162265 | 0.311303116 | 0.524 | 1 | 122970 | ACOT4 |
| 0.070127279 | 0.311544909 | 0.53 | 1 | 8639 | AOC3 |
| 0.070127279 | 0.311544909 | 0.527 | 1 | 203054 | ADCK5 |
| 0.070122095 | 0.311580741 | 0.536 | 1 | 126 | ADH1C |
| 0.070122095 | 0.311580741 | 0.551 | 1 | 645784 | ANKRD36BP2 |
| 0.070040461 | 0.312145448 | 0.557 | 1 | 100287852 | LOC100287852 |
| 0.070008066 | 0.312369724 | 0.544 | 1 | 55449 | AL136419.1 |
| 0.069987334 | 0.312513316 | 0.547 | 1 | 80776 | B9D2 |
| 0.069895333 | 0.313151027 | 0.508 | 1 | 26207 | PITPNC1 |
| 0.069882375 | 0.313240914 | 0.538 | 1 | 864 | RUNX3 |
| 0.069862938 | 0.313375776 | 0.583 | 1 | 57369 | GJD2 |
| 0.069795557 | 0.313843591 | 0.567 | 1 | 3221 | HOXC4 |
| 0.069778712 | 0.313960617 | 0.539 | 1 | 114932 | MRFAP1L1 |
| 0.069720402 | 0.314365924 | 0.55 | 1 | 80318 | GKAP1 |
| 0.069716514 | 0.314392957 | 0.533 | 1 | 1841 | DTYMK |
| 0.069605077 | 0.315168541 | 0.564 | 1 | 80094 | FLJ14107 |
| 0.069579161 | 0.315349088 | 0.547 | 1 | 84881 | RPUSD4 |
| 0.069571386 | 0.315403265 | 0.536 | 1 | 387509 | GPR153 |
| 0.069537696 | 0.315638104 | 0.55 | 1 | 53635 | PTOV1 |
| 0.069491048 | 0.315963454 | 0.537 | 1 | 4850 | CNOT4 |
| 0.069441808 | 0.316307116 | 0.553 | 1 | 5393 | EXOSC9 |
| 0.069437921 | 0.316334258 | 0.565 | 1 | 9278 | ZBTB22 |
| 0.069414596 | 0.31649714 | 0.544 | 1 | 26226 | FBXW4P1 |
| 0.069364061 | 0.316850238 | 0.539 | 1 | 8312 | AXIN1 |
| 0.06935499 | 0.316913641 | 0.538 | 1 | 161742 | SPRED1 |
| 0.069332962 | 0.317067656 | 0.585 | 1 | 2794 | GNL1 |
| 0.069304455 | 0.317267042 | 0.528 | 1 | 337975 | KRTAP20-1 |
| 0.069265581 | 0.317539064 | 0.547 | 1 | 9187 | SLC24A1 |
| 0.069257806 | 0.317593487 | 0.555 | 1 | 5948 | RBP2 |
| 0.06924744 | 0.31766606 | 0.547 | 1 | 689 | BTF3 |
| 0.0691982 | 0.318010929 | 0.548 | 1 | 126792 | B3GALT6 |
| 0.06914896 | 0.318356042 | 0.564 | 1 | 440836 | ODF3B |
| 0.069125636 | 0.318519601 | 0.574 | 1 | 346 | APOC4 |
| 0.069120453 | 0.318555955 | 0.525 | 1 | 23629 | BRD7P3 |
| 0.069080284 | 0.31883779 | 0.524 | 1 | 57215 | THAP11 |
| 0.069055664 | 0.319010608 | 0.561 | 1 | 64778 | FNDC3B |
| 0.069015494 | 0.319292705 | 0.547 | 1 | 55205 | ZNF532 |
| 0.068935156 | 0.319857386 | 0.537 | 1 | 9658 | ZNF516 |
| 0.068905353 | 0.32006703 | 0.549 | 1 | 8517 | IKBKG |
| 0.068885916 | 0.320203802 | 0.594 | 1 | 1232 | CCR3 |
| 0.068883324 | 0.320222041 | 0.554 | 1 | 123688 | AGPHD1 |
| 0.068872958 | 0.320295005 | 0.534 | 1 | 132158 | GLYCTK |
| 0.068784844 | 0.32091563 | 0.533 | 1 | 114327 | EFHC1 |
| 0.068764112 | 0.321061773 | 0.569 | 1 | 6560 | SLC12A4 |
| 0.068686365 | 0.321610194 | 0.564 | 1 | 1457 | CSNK2A1 |

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| 0.028088411 | 1.14922E-22 | 116444 | GRIN3B |
| 0.02808107 | 1.17873E-22 | 222611 | GPR111 |
| 0.028074361 | 1.20635E-22 | 28511 | NKIRAS2 |
| 0.028066868 | 1.23796E-22 | 2892 | GRIA3 |
| 0.028061167 | 1.26256E-22 | 80232 | WDR26 |
| 0.028060055 | 1.26741E-22 | 29890 | RBM15B |
| 0.028045892 | 1.33088E-22 | 80351 | TNKS2 |
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| 0.02797105 | 1.72223E-22 | 3856 | KRT8P9 |
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| 0.027919093 | 2.05892E-22 | 388387 | AC100793.3 |
| 0.027908404 | 2.13587E-22 | 345079 | ANKRD56 |
| 0.027903306 | 2.17357E-22 | 1609 | DGKQ |
| 0.027863015 | 2.49563E-22 | 14 | AAMP |
| 0.027858701 | 2.53279E-22 | 5584 | PRKCI |
| 0.027851691 | 2.59436E-22 | 5992 | RFX4 |
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| 0.027849945 | 2.60992E-22 | 23385 | NCSTN |
| 0.027846577 | 2.6402E-22 | 91862 | MARVELD3 |
| 0.02784279 | 2.67466E-22 | 100506144 | RP11-244H3.1 |
| 0.027831843 | 2.77681E-22 | 10733 | PLK4 |
| 0.027810271 | 2.98953E-22 | 54788 | DNAJB12 |
| 0.027796492 | 3.13377E-22 | 23366 | KIAA0895 |
| 0.027783462 | 3.27649E-22 | 10713 | USP39 |
| 0.027774597 | 3.37724E-22 | 4595 | MUTYH |
| 0.027755345 | 3.60674E-22 | 6474 | SHOX2 |
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| 0.027711476 | 4.18895E-22 | 2632 | GBE1 |
| 0.027706214 | 4.26475E-22 | 55119 | PRPF38B |
| 0.027687998 | 4.53779E-22 | 8260 | NAA10 |
| 0.027679956 | 4.66378E-22 | 84322 | C18orf12 |
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| 0.027640975 | 5.32522E-22 | 116729 | DYSFIP1 |
| 0.0276258 | 5.6071E-22 | 30816 | ERVWE1 |
| 0.027610006 | 5.91617E-22 | 257169 | C9orf43 |
| 0.027606089 | 5.9954E-22 | 114960 | TSGA13 |
| 0.027602052 | 6.07814E-22 | 1421 | CRYGD |
| 0.027601695 | 6.08553E-22 | 375190 | C2orf84 |
| 0.027571826 | 6.7347E-22 | 55630 | AF205589.2 |
| 0.027571567 | 6.74061E-22 | 9040 | UBE2M |
| 0.027553975 | 7.1549E-22 | 6570 | SLC18A1 |
| 0.027543171 | 7.42172E-22 | 152519 | NIPAL1 |
| 0.027537818 | 7.55755E-22 | 23632 | CA14 |
| 0.027490704 | 8.86412E-22 | 9444 | QKI |
| 0.027449879 | 1.01755E-21 | 25929 | GEMIN5 |
| 0.027427762 | 1.26642E-21 | 2335 | FN1 |
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| 0.027402345 | 1.19456E-21 | 57532 | NUFIP2 |
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| 0.027377426 | 1.29919E-21 | 2547 | XRCC6 |
| 0.027368539 | 1.33867E-21 | 2253 | FGF8 |
| 0.027351266 | 1.41881E-21 | 353219 | KAAG1 |
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| 0.027338454 | 1.4813E-21 | 11137 | PWP1 |
| 0.027336498 | 1.49108E-21 | 51119 | SBDS |
| 0.027324791 | 1.55095E-21 | 399694 | SHC4 |
| 0.027305064 | 1.65725E-21 | 5042 | PABPC3 |
| 0.027300839 | 1.68094E-21 | 1757 | SARDH |
| 0.027262099 | 1.91437E-21 | 5523 | PPP2R3A |
| 0.027260117 | 1.98073E-21 | 79651 | RHBDF2 |
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| 0.027250895 | 1.98767E-21 | 2688 | GH1 |
| 0.027245441 | 2.02435E-21 | 643155 | C5orf43 |
| 0.02723938 | 2.0659E-21 | 1861 | TOR1A |
| 0.027238484 | 2.07211E-21 | 2983 | GUCY1B3 |
| 0.027224855 | 2.16893E-21 | 123970 | C16orf78 |
| 0.027222391 | 2.1869E-21 | 100128998 | C20orf181 |
| 0.027213082 | 2.25615E-21 | 1734 | DIO2 |
| 0.027207164 | 2.3013E-21 | 401472 | FLJ45248 |
| 0.027176497 | 2.54997E-21 | 11316 | COPE |
| 0.027146716 | 2.81684E-21 | 3044 | HBBP1 |
| 0.027116104 | 3.11994E-21 | 26003 | GORASP2 |
| 0.027089101 | 3.41395E-21 | 814 | CAMK4 |
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| 0.068673407 | 0.321701656 | 0.564 | 1 | 54497 | HEATR5B |
| 0.068646195 | 0.321893783 | 0.549 | 1 | 85302 | FBF1 |
| 0.068596956 | 0.32224163 | 0.563 | 1 | 147381 | CBLN2 |
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| 0.068485518 | 0.323029762 | 0.572 | 1 | 441272 | SPDYE3 |
| 0.068444053 | 0.323323339 | 0.552 | 1 | 100147773 | RP11-466F5.8 |
| 0.068348165 | 0.324002899 | 0.564 | 1 | 3872 | KRT17 |
| 0.068339094 | 0.32406723 | 0.578 | 1 | 49861 | CLDN20 |
| 0.068330024 | 0.324131568 | 0.551 | 1 | 4901 | NRL |
| 0.068298925 | 0.324352221 | 0.563 | 1 | 6388 | SDF2 |
| 0.068278192 | 0.324499378 | 0.545 | 1 | 896 | CCND3 |
| 0.068248389 | 0.32471099 | 0.551 | 1 | 7389 | UROD |
| 0.068245798 | 0.324729395 | 0.563 | 1 | 2619 | GAS1 |
| 0.068205628 | 0.325014764 | 0.536 | 1 | 55286 | C4orf19 |
| 0.068175825 | 0.325226594 | 0.523 | 1 | 22916 | NCBP2 |
| 0.068174529 | 0.325235806 | 0.559 | 1 | 219409 | GSX1 |
| 0.068142135 | 0.325466162 | 0.589 | 1 | 83873 | GPR61 |
| 0.06813436 | 0.325521463 | 0.571 | 1 | 23144 | ZC3H3 |
| 0.068066979 | 0.326000993 | 0.556 | 1 | 5136 | PDE1A |
| 0.068064388 | 0.326019446 | 0.534 | 1 | 8100 | IFT88 |
| 0.067917964 | 0.327063113 | 0.548 | 1 | 80304 | C2orf44 |
| 0.067832442 | 0.327673686 | 0.552 | 1 | 11221 | DUSP10 |
| 0.067832442 | 0.327673686 | 0.574 | 1 | 149478 | RP11-269F19.1 |
| 0.067827259 | 0.327710714 | 0.541 | 1 | 158747 | MOSPD2 |
| 0.067763765 | 0.328164527 | 0.599 | 1 | 150483 | TEKT4 |
| 0.067711934 | 0.328535287 | 0.586 | 1 | 22992 | KDM2A |
| 0.06768861 | 0.328702217 | 0.543 | 1 | 340578 | DCAF12L2 |
| 0.067658807 | 0.328915596 | 0.574 | 1 | 3669 | ISG20 |
| 0.067647145 | 0.328999116 | 0.576 | 1 | 2889 | RAPGEF1 |
| 0.067630299 | 0.329119781 | 0.544 | 1 | 11030 | RBPMS |
| 0.067612158 | 0.32924976 | 0.557 | 1 | 27301 | APEX2 |
| 0.067586243 | 0.329435501 | 0.566 | 1 | 400406 | LOC400406 |
| 0.067582355 | 0.329463368 | 0.584 | 1 | 140838 | NANP |
| 0.067469622 | 0.330272171 | 0.589 | 1 | 12 | SERPINA3 |
| 0.067438523 | 0.330495514 | 0.563 | 1 | 957 | ENTPD5 |
| 0.067429453 | 0.330560674 | 0.561 | 1 | 8631 | SKAP1 |
| 0.067410016 | 0.33070033 | 0.55 | 1 | 415056 | LOC415056 |
| 0.067395762 | 0.330802769 | 0.564 | 1 | 10538 | BATF |
| 0.067364663 | 0.331026343 | 0.548 | 1 | 647030 | LOC647030 |
| 0.067290803 | 0.331557719 | 0.554 | 1 | 84765 | ZNF577 |
| 0.067288212 | 0.331576374 | 0.582 | 1 | 8362 | HIST1H4K |
| 0.067272662 | 0.331688317 | 0.582 | 1 | 10934 | MORF4 |
| 0.067218239 | 0.332080308 | 0.555 | 1 | 126731 | C1orf96 |
| 0.067184549 | 0.332323118 | 0.568 | 1 | 54866 | PPP1R14D |
| 0.067161225 | 0.332491284 | 0.551 | 1 | 56156 | TEX13B |
| 0.067113281 | 0.33283713 | 0.59 | 1 | 29948 | OSGIN1 |
| 0.067067928 | 0.333164495 | 0.566 | 1 | 83696 | TRAPPC9 |
| 0.067060154 | 0.333220635 | 0.567 | 1 | 134957 | STXBP5 |
| 0.067035534 | 0.333398453 | 0.564 | 1 | 57486 | NLN |
| 0.067023872 | 0.333482704 | 0.554 | 1 | 387763 | C11orf96 |
| 0.066951308 | 0.334007238 | 0.594 | 1 | 53918 | PELO |
| 0.066934462 | 0.33412908 | 0.595 | 1 | 153328 | AC011427.1 |
| 0.066925392 | 0.3341947 | 0.571 | 1 | 197131 | UBR1 |
| 0.066867082 | 0.334616735 | 0.593 | 1 | 144321 | GLIPR1L2 |
| 0.066794518 | 0.335142412 | 0.534 | 1 | 284412 | LOC284412 |
| 0.066777672 | 0.33526452 | 0.56 | 1 | 7699 | ZNF140 |
| 0.066758236 | 0.335405449 | 0.564 | 1 | 64318 | NOC3L |
| 0.066723249 | 0.335659216 | 0.57 | 1 | 23478 | SEC11B |
| 0.066677897 | 0.335988357 | 0.533 | 1 | 53358 | SHC3 |
| 0.066572938 | 0.336750876 | 0.55 | 1 | 100128496 | C20orf78 |
| 0.066465388 | 0.337533369 | 0.58 | 1 | 10380 | BPNT1 |
| 0.066451134 | 0.33763716 | 0.573 | 1 | 259236 | TMIE |
| 0.066447247 | 0.33766547 | 0.559 | 1 | 57139 | RGL3 |
| 0.066439472 | 0.337722095 | 0.545 | 1 | 1211 | CLTA |
| 0.066426514 | 0.337816483 | 0.589 | 1 | 11018 | TMED1 |
| 0.066338401 | 0.338458771 | 0.593 | 1 | 80305 | TRABD |
| 0.066302119 | 0.338723469 | 0.586 | 1 | 83639 | TEX101 |
| 0.066243809 | 0.339149153 | 0.588 | 1 | 57402 | S100A14 |
| 0.066195864 | 0.339499415 | 0.556 | 1 | 55729 | ATF7IP |
| 0.066159582 | 0.339764632 | 0.588 | 1 | 2038 | EPB42 |
| 0.066159582 | 0.339764632 | 0.566 | 1 | 170680 | PSORS1C2 |
| 0.066107751 | 0.340143743 | 0.578 | 1 | 100128569 | C19orf71 |
| 0.066106455 | 0.340153224 | 0.589 | 1 | 81537 | SGPP1 |
| 0.066106455 | 0.340153224 | 0.57 | 1 | 283481 | LOC283481 |
| 0.06608961 | 0.340276495 | 0.576 | 1 | 5202 | PFDN2 |
| 0.066068877 | 0.340428252 | 0.564 | 1 | 7060 | THBS4 |
| 0.066063694 | 0.340466198 | 0.58 | 1 | 139065 | SLITRK4 |
| 0.065992426 | 0.34098823 | 0.582 | 1 | 29034 | CPS1-IT1 |
| 0.065969102 | 0.341159187 | 0.568 | 1 | 9270 | ITGB1BP1 |
| 0.06596651 | 0.341178186 | 0.554 | 1 | 30833 | NT5C |
| 0.065914679 | 0.3415583 | 0.559 | 1 | 2769 | GNA15 |

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| 0.027058148 | 3.7848E-21 | 51147 | ING4 |
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| 0.027022129 | 4.26672E-21 | 945 | CD33 |
| 0.027013687 | 4.38818E-21 | 219681 | ARMC3 |
| 0.027001749 | 4.56579E-21 | 8945 | BTRC |
| 0.026997632 | 4.62868E-21 | 219409 | GSX1 |
| 0.02699344 | 4.69359E-21 | 64430 | C14orf135 |
| 0.026986165 | 4.80838E-21 | 29114 | TAGLN3 |
| 0.026978915 | 4.92555E-21 | 2779 | GNAT1 |
| 0.026974604 | 4.99654E-21 | 83643 | CCDC3 |
| 0.026942595 | 5.55635E-21 | 96626 | LIMS3 |
| 0.026933636 | 5.72385E-21 | 399942 | TUBAP2 |
| 0.026931267 | 5.76897E-21 | 390243 | FOLR4 |
| 0.026899593 | 6.40716E-21 | 23559 | WBP1 |
| 0.026880857 | 6.81701E-21 | 29801 | ZDHHC8 |
| 0.026837122 | 7.87736E-21 | 342945 | ZSCAN22 |
| 0.02682382 | 8.23111E-21 | 4005 | LMO2 |
| 0.026814432 | 8.49017E-21 | 257218 | SHPRH |
| 0.026810107 | 8.61222E-21 | 100506049 | AC005014.1 |
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| 0.026806333 | 8.72012E-21 | 554226 | NCRNA00164 |
| 0.026804005 | 8.78738E-21 | 4482 | MSRA |
| 0.026802091 | 8.84303E-21 | 50488 | MINK1 |
| 0.026780674 | 9.49012E-21 | 55206 | SBNO1 |
| 0.026776028 | 9.63657E-21 | 56147 | PCDHA1 |
| 0.026761733 | 1.01013E-20 | 3857 | KRT9 |
| 0.026753905 | 1.03651E-20 | 57830 | KRTAP5-8 |
| 0.026750363 | 1.04867E-20 | 4921 | DDR2 |
| 0.026743417 | 1.07293E-20 | 51604 | PIGT |
| 0.026730755 | 1.11858E-20 | 652968 | GATSL3 |
| 0.02672109 | 1.15472E-20 | 3597 | IL13RA1 |
| 0.02668282 | 1.30949E-20 | 23569 | PADI4 |
| 0.026672564 | 1.35435E-20 | 3811 | KIR3DL1 |
| 0.026659174 | 1.4152E-20 | 24140 | FTSJ1 |
| 0.026631829 | 1.54799E-20 | 4734 | NEDD4 |
| 0.026615295 | 1.63419E-20 | 3490 | IGFBP7 |
| 0.026612482 | 1.64932E-20 | 55454 | CSGALNACT2 |
| 0.026599998 | 1.71815E-20 | 84214 | RP13-254B10.1 |
| 0.026571489 | 1.88618E-20 | 387590 | AC005301.1 |
| 0.026555178 | 1.98951E-20 | 727851 | RGPD8 |
| 0.026539643 | 2.09312E-20 | 1871 | E2F3 |
| 0.02652429 | 2.20077E-20 | 7264 | TSTA3 |
| 0.026473897 | 2.594E-20 | 10107 | TRIM10 |
| 0.026468006 | 2.64428E-20 | 57698 | KIAA1598 |
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| 0.02644578 | 2.84281E-20 | 22808 | MRAS |
| 0.026438987 | 2.90637E-20 | 246777 | SPESP1 |
| 0.026433628 | 2.95751E-20 | 100129196 | RP5-1166H10.2 |
| 0.026425397 | 3.03779E-20 | 84666 | RETNLB |
| 0.026423687 | 3.05474E-20 | 6396 | SEC13 |
| 0.026422412 | 3.06744E-20 | 9846 | GAB2 |
| 0.026394393 | 3.36001E-20 | 134187 | POU5F2 |
| 0.02636571 | 3.68806E-20 | 6795 | AURKC |
| 0.026363601 | 3.7134E-20 | 23119 | HIC2 |
| 0.026343476 | 3.96397E-20 | 5154 | PDGFA |
| 0.026340631 | 4.00072E-20 | 65980 | BRD9 |
| 0.026304256 | 4.50129E-20 | 79707 | NOL9 |
| 0.026293761 | 4.6569E-20 | 60560 | MAK10 |
| 0.0262783 | 4.89586E-20 | 23423 | TMED3 |
| 0.026276414 | 4.92583E-20 | 23629 | BRD7P3 |
| 0.02626622 | 5.09098E-20 | 6748 | SSR4 |
| 0.026237963 | 5.57789E-20 | 11149 | BVES |
| 0.026217314 | 5.96254E-20 | 5468 | PPARG |
| 0.02621565 | 5.99466E-20 | 10296 | MAEA |
| 0.026191511 | 6.48024E-20 | 84107 | ZIC4 |
| 0.026190591 | 6.4995E-20 | 257106 | ARHGAP30 |
| 0.026190084 | 6.51013E-20 | 80835 | TAS1R1 |
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| 0.026163409 | 7.09467E-20 | 54433 | GAR1 |
| 0.02613763 | 7.70876E-20 | 947 | CD34 |
| 0.026126047 | 8.00153E-20 | 400236 | RP11-33N16.1 |
| 0.026088269 | 9.03487E-20 | 152641 | C4ORF38 |
| 0.02608198 | 9.21926E-20 | 3172 | HNF4A |
| 0.026035162 | 1.07139E-19 | 3483 | IGFALS |
| 0.026016877 | 1.13606E-19 | 4939 | OAS2 |
| 0.025981701 | 1.2715E-19 | 3833 | KIFC1 |
| 0.025980644 | 1.27581E-19 | 100132977 | LOC100132977 |
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| 0.025978076 | 1.28634E-19 | 79690 | GAL3ST4 |
| 0.025971257 | 1.31471E-19 | 80320 | SP6 |
| 0.025959148 | 1.36661E-19 | 3693 | ITGB5 |
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| 0.06588358 | 0.341786498 | 0.565 | 1 | 2353 | FOS |
| 0.065879693 | 0.34181503 | 0.569 | 1 | 79701 | C17orf101 |
| 0.065870622 | 0.341881609 | 0.584 | 1 | 1089 | CEACAM4 |
| 0.065866735 | 0.341910146 | 0.578 | 1 | 11161 | C14orf1 |
| 0.065829157 | 0.342186078 | 0.574 | 1 | 659 | BMPR2 |
| 0.06582527 | 0.34221463 | 0.561 | 1 | 6932 | TCF7 |
| 0.065787692 | 0.342490719 | 0.568 | 1 | 89876 | C3orf15 |
| 0.065778621 | 0.342557382 | 0.585 | 1 | 7373 | COL14A1 |
| 0.065741044 | 0.342833646 | 0.583 | 1 | 9349 | RPL23 |
| 0.065715128 | 0.343024255 | 0.604 | 1 | 9419 | CRIPT |
| 0.065656818 | 0.343453372 | 0.591 | 1 | 5348 | FXYD1 |
| 0.065632198 | 0.343634657 | 0.581 | 1 | 4481 | MSR1 |
| 0.065617944 | 0.34373964 | 0.549 | 1 | 1641 | DCX |
| 0.065559634 | 0.344169325 | 0.56 | 1 | 729614 | RP11-169K16.9 |
| 0.065546676 | 0.344264857 | 0.583 | 1 | 131578 | LRRC15 |
| 0.065525943 | 0.344417743 | 0.583 | 1 | 79908 | BTNL8 |
| 0.065524647 | 0.3444273 | 0.556 | 1 | 10404 | AP003117.1 |
| 0.065483182 | 0.344733207 | 0.561 | 1 | 79001 | VKORC1 |
| 0.065459858 | 0.344905355 | 0.578 | 1 | 79915 | ATAD5 |
| 0.065445605 | 0.345010584 | 0.582 | 1 | 116512 | MRGPRD |
| 0.065347125 | 0.345738173 | 0.556 | 1 | 51496 | CTDSPL2 |
| 0.065338054 | 0.345805237 | 0.597 | 1 | 54987 | C1orf123 |
| 0.065309547 | 0.346016063 | 0.585 | 1 | 10524 | KAT5 |
| 0.065282336 | 0.346217381 | 0.599 | 1 | 54535 | CCHCR1 |
| 0.06521625 | 0.346706606 | 0.553 | 1 | 4898 | NRD1 |
| 0.065185152 | 0.346936981 | 0.591 | 1 | 646808 | LOC646808 |
| 0.065071122 | 0.347782518 | 0.574 | 1 | 283165 | PRR10 |
| 0.065051686 | 0.347926773 | 0.568 | 1 | 8642 | DCHS1 |
| 0.065047798 | 0.347955629 | 0.594 | 1 | 64928 | MRPL14 |
| 0.065043911 | 0.347984486 | 0.558 | 1 | 221302 | ZUFSP |
| 0.065020587 | 0.34815766 | 0.532 | 1 | 84276 | NICN1 |
| 0.064970051 | 0.348533059 | 0.588 | 1 | 4437 | MSH3 |
| 0.064950614 | 0.348677511 | 0.569 | 1 | 27071 | DAPP1 |
| 0.064920811 | 0.348899078 | 0.576 | 1 | 30 | ACAA1 |
| 0.064888417 | 0.349140012 | 0.552 | 1 | 286411 | RP1-177G6.1 |
| 0.064884529 | 0.349168932 | 0.58 | 1 | 51586 | MED15 |
| 0.064866388 | 0.349303908 | 0.587 | 1 | 79862 | ZNF669 |
| 0.064846952 | 0.349448562 | 0.588 | 1 | 7249 | TSC2 |
| 0.064814557 | 0.349689735 | 0.578 | 1 | 118471 | PRAP1 |
| 0.064811965 | 0.349709034 | 0.549 | 1 | 84329 | HVCN1 |
| 0.0647705 | 0.3500179 | 0.58 | 1 | 51094 | ADIPOR1 |
| 0.064762725 | 0.350075832 | 0.615 | 1 | 56890 | MDM1 |
| 0.064744584 | 0.350211029 | 0.583 | 1 | 9976 | CLEC2B |
| 0.064670725 | 0.350761816 | 0.59 | 1 | 29850 | TRPM5 |
| 0.064649992 | 0.35091652 | 0.584 | 1 | 64425 | POLR1E |
| 0.064643513 | 0.350964875 | 0.55 | 1 | 375790 | AGRN |
| 0.064574836 | 0.351477686 | 0.581 | 1 | 92579 | G6PC3 |
| 0.064521709 | 0.351874713 | 0.599 | 1 | 221 | ALDH3B1 |
| 0.064497089 | 0.352058796 | 0.561 | 1 | 4661 | MYT1 |
| 0.064493202 | 0.352087868 | 0.577 | 1 | 26502 | NARF |
| 0.064484131 | 0.352155707 | 0.556 | 1 | 8687 | KRT38 |
| 0.064482836 | 0.352165399 | 0.579 | 1 | 8659 | ALDH4A1 |
| 0.064434892 | 0.35252412 | 0.582 | 1 | 219833 | C11orf45 |
| 0.064367511 | 0.353028658 | 0.596 | 1 | 5433 | POLR2D |
| 0.064361032 | 0.353077195 | 0.597 | 1 | 3227 | HOXC11 |
| 0.064351961 | 0.353145154 | 0.6 | 1 | 4990 | SIX6 |
| 0.064313088 | 0.3534365 | 0.605 | 1 | 64581 | CLEC7A |
| 0.064307905 | 0.353475357 | 0.558 | 1 | 116113 | FOXP4 |
| 0.064283285 | 0.353659968 | 0.536 | 1 | 2395 | FXN |
| 0.064256073 | 0.353864081 | 0.573 | 1 | 25930 | PTPN23 |
| 0.064244411 | 0.353951581 | 0.612 | 1 | 63951 | DMRTA1 |
| 0.064231453 | 0.354048819 | 0.578 | 1 | 8303 | SNN |
| 0.064155002 | 0.354622864 | 0.588 | 1 | 8424 | BBOX1 |
| 0.064145931 | 0.35469101 | 0.589 | 1 | 165186 | FAM179A |
| 0.064126495 | 0.354837064 | 0.609 | 1 | 79086 | C19orf42 |
| 0.06410317 | 0.35501238 | 0.595 | 1 | 403 | ARL3 |
| 0.064038381 | 0.355499652 | 0.606 | 1 | 126767 | AADACL3 |
| 0.064030606 | 0.355558152 | 0.579 | 1 | 133688 | UGT3A1 |
| 0.064028015 | 0.355577654 | 0.598 | 1 | 219956 | OR9Q1 |
| 0.064013761 | 0.355684925 | 0.58 | 1 | 343 | AQP8 |
| 0.063942493 | 0.356221584 | 0.584 | 1 | 4986 | OPRK1 |
| 0.063919169 | 0.356397328 | 0.609 | 1 | 57178 | ZMIZ1 |
| 0.063904915 | 0.356504754 | 0.581 | 1 | 9837 | GINS1 |
| 0.063895845 | 0.356573126 | 0.553 | 1 | 90333 | ZNF468 |
| 0.063876408 | 0.356719667 | 0.579 | 1 | 5671 | PSG3 |
| 0.063872521 | 0.356748979 | 0.56 | 1 | 376267 | RAB15 |
| 0.06380514 | 0.357257303 | 0.566 | 1 | 23145 | SSPO |
| 0.063793478 | 0.357345328 | 0.597 | 1 | 23552 | CCRK |
| 0.063788295 | 0.357384455 | 0.601 | 1 | 84820 | POLR2J4 |
| 0.06378052 | 0.35744315 | 0.57 | 1 | 5611 | DNAJC3 |
| 0.063759787 | 0.3575997 | 0.584 | 1 | 54963 | UCKL1 |
| 0.063722209 | 0.357883555 | 0.606 | 1 | 6202 | RPS8 |

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| 0.025949553 | 1.40918E-19 | 25799 | ZNF324 |
| 0.025943464 | 1.43687E-19 | 53358 | SHC3 |
| 0.025941229 | 1.44717E-19 | 126669 | SHE |
| 0.025927212 | 1.51344E-19 | 23660 | ZKSCAN5 |
| 0.025900229 | 1.64955E-19 | 8398 | PLA2G6 |
| 0.025898255 | 1.65997E-19 | 342926 | ZNF677 |
| 0.025891449 | 1.6964E-19 | 7786 | MAP3K12 |
| 0.025879661 | 1.76137E-19 | 340204 | C6orf127 |
| 0.025874427 | 1.791E-19 | 79183 | TTPAL |
| 0.025865642 | 1.84184E-19 | 440738 | MAP1LC3C |
| 0.02586473 | 1.8472E-19 | 7317 | UBA1 |
| 0.02585571 | 1.90105E-19 | 6050 | RNH1 |
| 0.025825379 | 2.09373E-19 | 1602 | DACH1 |
| 0.025815318 | 2.1618E-19 | 201140 | DHRS7C |
| 0.025813467 | 2.17457E-19 | 375387 | LRRC33 |
| 0.025779481 | 2.42256E-19 | 5571 | PRKAG1 |
| 0.025766513 | 2.52438E-19 | 27292 | DIMT1 |
| 0.025764808 | 2.53807E-19 | 6430 | SFRS5 |
| 0.025763575 | 2.54803E-19 | 114112 | TXNRD3 |
| 0.025762404 | 3.19889E-19 | 79616 | CCNJL |
| 0.025761379 | 3.22654E-19 | 3912 | LAMB1 |
| 0.025757571 | 3.24151E-19 | 64772 | ENGASE |
| 0.025750486 | 2.65607E-19 | 2821 | GPI |
| 0.025730542 | 2.82946E-19 | 23784 | POTEH |
| 0.025713303 | 2.98832E-19 | 51347 | TAOK3 |
| 0.025701478 | 3.10235E-19 | 91748 | C14orf43 |
| 0.025683738 | 3.28153E-19 | 9289 | GPR56 |
| 0.02568158 | 3.30401E-19 | 80228 | ORAI2 |
| 0.025675116 | 3.37226E-19 | 3845 | KRAS |
| 0.02567386 | 3.38568E-19 | 100128496 | C20orf78 |
| 0.025663441 | 3.4991E-19 | 378 | ARF4 |
| 0.025658884 | 3.54987E-19 | 4015 | LOX |
| 0.025651482 | 3.63389E-19 | 26220 | DGCR5 |
| 0.025642026 | 3.7441E-19 | 730755 | KRTAP2-1 |
| 0.025626487 | 3.93242E-19 | 353376 | TICAM2 |
| 0.025625616 | 3.94324E-19 | 2155 | F7 |
| 0.025624468 | 3.95756E-19 | 80335 | WDR82 |
| 0.025612522 | 4.10962E-19 | 392376 | OR13C2 |
| 0.025602094 | 4.24708E-19 | 4736 | RPL10A |
| 0.025593481 | 4.36402E-19 | 84336 | TMEM101 |
| 0.025592406 | 4.37883E-19 | 7456 | WIPF1 |
| 0.025585808 | 4.47087E-19 | 338674 | OR5F1 |
| 0.025582516 | 4.51751E-19 | 56650 | CLDND1 |
| 0.025564043 | 4.78824E-19 | 169044 | COL22A1 |
| 0.025549627 | 5.01059E-19 | 2875 | GPT |
| 0.025545921 | 5.06939E-19 | 81850 | KRTAP1-3 |
| 0.025544635 | 5.08996E-19 | 100130717 | CECR5-AS1 |
| 0.025543148 | 5.11382E-19 | 5243 | ABCB1 |
| 0.02551955 | 5.50787E-19 | 134265 | AFAP1L1 |
| 0.025518214 | 5.53106E-19 | 91461 | SGK493 |
| 0.025518004 | 5.53471E-19 | 131544 | CRYBG3 |
| 0.02551303 | 5.62194E-19 | 79919 | C2orf54 |
| 0.025511667 | 5.64607E-19 | 11108 | PRDM4 |
| 0.025501553 | 5.82843E-19 | 4495 | MT1G |
| 0.025431627 | 7.25843E-19 | 164045 | HFM1 |
| 0.025408587 | 7.80163E-19 | 9530 | BAG4 |
| 0.025405228 | 7.88409E-19 | 11187 | PKP3 |
| 0.025395526 | 8.12717E-19 | 80227 | PAAF1 |
| 0.0253451 | 9.5149E-19 | 91875 | TTC5 |
| 0.025340351 | 9.65707E-19 | 386681 | KRTAP10-8 |
| 0.025335094 | 9.81691E-19 | 5922 | RASA2 |
| 0.025320763 | 1.0266E-18 | 85001 | CTD-2514K5.2 |
| 0.025288492 | 1.13528E-18 | 728411 | AC138951.4 |
| 0.025282699 | 1.15596E-18 | 23303 | KIF13B |
| 0.025276382 | 1.17894E-18 | 7570 | ZNF22 |
| 0.025268765 | 1.20724E-18 | 11325 | DDX42 |
| 0.025265194 | 1.22074E-18 | 390072 | OR52N4 |
| 0.025259318 | 1.24328E-18 | 253980 | KCTD13 |
| 0.02525576 | 1.25712E-18 | 2533 | FYB |
| 0.025251791 | 1.27275E-18 | 22918 | CD93 |
| 0.025245306 | 1.29869E-18 | 51668 | HSPB11 |
| 0.025241611 | 1.3137E-18 | 9810 | RNF40 |
| 0.025240421 | 1.31857E-18 | 23399 | DULLARD |
| 0.025220329 | 1.40358E-18 | 10922 | FASTK |
| 0.025219955 | 1.40521E-18 | 634 | CEACAM1 |
| 0.02520261 | 1.48302E-18 | 3875 | KRT18P19 |
| 0.025195934 | 1.51409E-18 | 2850 | GPR27 |
| 0.025186023 | 1.56141E-18 | 861 | RUNX1 |
| 0.025185322 | 1.56481E-18 | 115024 | NT5C3L |
| 0.02518223 | 1.5799E-18 | 80332 | ADAM33 |
| 0.025169122 | 1.64548E-18 | 143187 | VTI1A |
| 0.025167275 | 1.65493E-18 | 5069 | PAPPA |

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| 0.063717026 | 0.357922719 | 0.599 | 1 | 645431 | LOC645431 |
| 0.063696294 | 0.3580794 | 0.608 | 1 | 23256 | SCFD1 |
| 0.063652237 | 0.35841249 | 0.591 | 1 | 374977 | C1orf175 |
| 0.063650941 | 0.358422289 | 0.617 | 1 | 155006 | TMEM213 |
| 0.063580969 | 0.358951721 | 0.568 | 1 | 10379 | IRF9 |
| 0.063570603 | 0.359030197 | 0.605 | 1 | 116986 | AGAP2 |
| 0.063564124 | 0.35907925 | 0.58 | 1 | 2626 | GATA4 |
| 0.06354987 | 0.359187181 | 0.616 | 1 | 8562 | DENR |
| 0.063544687 | 0.359226434 | 0.595 | 1 | 7531 | YWHAE |
| 0.063435841 | 0.36005136 | 0.596 | 1 | 750 | C16orf3 |
| 0.063358094 | 0.360641317 | 0.571 | 1 | 221443 | C6orf130 |
| 0.063268684 | 0.361320512 | 0.598 | 1 | 441089 | CRSP8P |
| 0.063198712 | 0.361852613 | 0.613 | 1 | 57555 | NLGN2 |
| 0.063159838 | 0.362148435 | 0.584 | 1 | 9179 | AP4M1 |
| 0.063091162 | 0.362671422 | 0.587 | 1 | 259232 | NALCN |
| 0.063082091 | 0.362740531 | 0.6 | 1 | 284600 | RP11-54O7.1 |
| 0.063009527 | 0.363293698 | 0.622 | 1 | 51206 | GP6 |
| 0.062987499 | 0.363461727 | 0.6 | 1 | 9618 | TRAF4 |
| 0.062896794 | 0.364154122 | 0.608 | 1 | 115992 | RNF166 |
| 0.062854033 | 0.364480822 | 0.584 | 1 | 83643 | CCDC3 |
| 0.062797018 | 0.364916704 | 0.597 | 1 | 56288 | PARD3 |
| 0.062797018 | 0.364916704 | 0.603 | 1 | 144097 | C11orf84 |
| 0.062685581 | 0.36576959 | 0.561 | 1 | 87 | ACTN1 |
| 0.062679102 | 0.365819214 | 0.577 | 1 | 51634 | RBMX2 |
| 0.062673919 | 0.365858917 | 0.55 | 1 | 1543 | CYP1A1 |
| 0.062658369 | 0.36597804 | 0.586 | 1 | 27316 | RBMX |
| 0.062644116 | 0.366087258 | 0.623 | 1 | 64224 | HERPUD2 |
| 0.062637637 | 0.36613691 | 0.578 | 1 | 337876 | CHSY3 |
| 0.062609129 | 0.366355424 | 0.583 | 1 | 150590 | C2orf15 |
| 0.062607834 | 0.366365359 | 0.604 | 1 | 89970 | RSPRY1 |
| 0.062589693 | 0.366504458 | 0.595 | 1 | 4676 | NAP1L4 |
| 0.062579326 | 0.366583958 | 0.575 | 1 | 220296 | HEPACAM |
| 0.062543044 | 0.366862292 | 0.595 | 1 | 284340 | CXCL17 |
| 0.062532678 | 0.366941841 | 0.587 | 1 | 10138 | YAF2 |
| 0.062524903 | 0.367001509 | 0.592 | 1 | 55604 | LRRC16A |
| 0.06248603 | 0.367299939 | 0.603 | 1 | 1521 | CTSW |
| 0.062423832 | 0.367777741 | 0.585 | 1 | 90070 | LACRT |
| 0.062382367 | 0.36809649 | 0.584 | 1 | 84836 | ABHD14B |
| 0.062351268 | 0.368335663 | 0.547 | 1 | 10051 | SMC4 |
| 0.062322761 | 0.36855499 | 0.58 | 1 | 163732 | CITED4 |
| 0.062303324 | 0.368704578 | 0.595 | 1 | 79290 | OR13A1 |
| 0.062277408 | 0.368904086 | 0.604 | 1 | 23400 | ATP13A2 |
| 0.062277408 | 0.368904086 | 0.598 | 1 | 81894 | SLC25A28 |
| 0.062270929 | 0.368953974 | 0.572 | 1 | 7266 | DNAJC7 |
| 0.062235943 | 0.369223438 | 0.593 | 1 | 158801 | NKAPP1 |
| 0.062219098 | 0.369353224 | 0.596 | 1 | 7276 | TTR |
| 0.062195774 | 0.369532974 | 0.567 | 1 | 5645 | PRSS2 |
| 0.062193182 | 0.369552949 | 0.568 | 1 | 387066 | SNHG5 |
| 0.062119322 | 0.370122532 | 0.599 | 1 | 728327 | LOC728327 |
| 0.062116731 | 0.370142528 | 0.601 | 1 | 26153 | KIF26A |
| 0.062062308 | 0.370562582 | 0.592 | 1 | 7369 | UMOD |
| 0.062061012 | 0.370572586 | 0.528 | 1 | 9444 | QKI |
| 0.062055829 | 0.370612608 | 0.565 | 1 | 4166 | CHST6 |
| 0.062054533 | 0.370622613 | 0.604 | 1 | 83755 | KRTAP4-12 |
| 0.062001406 | 0.371032991 | 0.624 | 1 | 51078 | THAP4 |
| 0.061998814 | 0.371053016 | 0.608 | 1 | 441161 | OOEP |
| 0.061988448 | 0.371133125 | 0.591 | 1 | 6461 | SHB |
| 0.061981969 | 0.371183199 | 0.581 | 1 | 83983 | TSSK6 |
| 0.061930138 | 0.371583937 | 0.639 | 1 | 55435 | C4orf16 |
| 0.061899039 | 0.371824508 | 0.584 | 1 | 400935 | IL17REL |
| 0.061897743 | 0.371834534 | 0.615 | 1 | 1583 | CYP11A1 |
| 0.061866644 | 0.372075205 | 0.583 | 1 | 7804 | LRP8 |
| 0.061845912 | 0.372235706 | 0.598 | 1 | 9296 | ATP6V1F |
| 0.061665797 | 0.373631852 | 0.609 | 1 | 4061 | LY6E |
| 0.0616036 | 0.374114722 | 0.576 | 1 | 6541 | SLC7A1 |
| 0.061569909 | 0.374376437 | 0.567 | 1 | 401190 | RGS7BP |
| 0.061545289 | 0.374567761 | 0.609 | 1 | 51361 | HOOK1 |
| 0.061493458 | 0.374970746 | 0.582 | 1 | 594 | BCKDHB |
| 0.06147143 | 0.375142095 | 0.598 | 1 | 26190 | FBXW2 |
| 0.061435148 | 0.375424422 | 0.557 | 1 | 286410 | ATP11C |
| 0.061376837 | 0.375878435 | 0.625 | 1 | 1673 | DEFB4 |
| 0.061315935 | 0.376352986 | 0.583 | 1 | 7410 | VAV2 |
| 0.061302977 | 0.376454002 | 0.606 | 1 | 388242 | RP11-345J4.3 |
| 0.061301682 | 0.376464104 | 0.616 | 1 | 283297 | OR10A4 |
| 0.061288724 | 0.376565138 | 0.585 | 1 | 60678 | EEFSEC |
| 0.0612654 | 0.376747041 | 0.615 | 1 | 162963 | ZNF610 |
| 0.06124078 | 0.376939109 | 0.637 | 1 | 11219 | TREX2 |
| 0.061235597 | 0.376979552 | 0.595 | 1 | 4320 | MMP11 |
| 0.061179878 | 0.377414481 | 0.601 | 1 | 114790 | STK11IP |
| 0.061141004 | 0.377718102 | 0.594 | 1 | 84239 | ATP13A4 |
| 0.061069736 | 0.378275129 | 0.576 | 1 | 5977 | DPF2 |
| 0.061052891 | 0.378406864 | 0.597 | 1 | 5028 | P2RY1 |

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| 0.025167259 | 1.65502E-18 | 387597 | ILDR2 |
| 0.025155843 | 1.71465E-18 | 8844 | KSR1 |
| 0.025145495 | 1.77055E-18 | 2768 | GNA12 |
| 0.025087534 | 2.11852E-18 | 5354 | PLP1 |
| 0.025084041 | 2.14153E-18 | 119764 | OR4X2 |
| 0.025072867 | 2.21679E-18 | 266743 | NPAS4 |
| 0.025071118 | 2.2288E-18 | 85414 | SLC45A3 |
| 0.025062909 | 2.28606E-18 | 205860 | TRIML2 |
| 0.025052912 | 2.35775E-18 | 83903 | GSG2 |
| 0.025038033 | 2.46857E-18 | 1371 | CPOX |
| 0.025029897 | 2.53133E-18 | 585 | BBS4 |
| 0.025025299 | 2.56749E-18 | 644538 | Z83826.4 |
| 0.02500367 | 2.74457E-18 | 8519 | IFITM1 |
| 0.024988837 | 2.87292E-18 | 83597 | RTP3 |
| 0.024988204 | 2.87852E-18 | 1629 | DBT |
| 0.024982861 | 2.92629E-18 | 26224 | FBXL3 |
| 0.024982356 | 2.93084E-18 | 645715 | EEF1A1P24 |
| 0.024966795 | 3.07466E-18 | 344 | APOC2 |
| 0.024953189 | 3.20611E-18 | 2261 | FGFR3 |
| 0.024932472 | 3.41699E-18 | 55527 | FEM1A |
| 0.024931153 | 3.43087E-18 | 5577 | PRKAR2B |
| 0.024920987 | 3.53974E-18 | 553158 | ARHGAP8 |
| 0.024916783 | 3.58575E-18 | 115019 | SLC26A9 |
| 0.024911555 | 3.67716E-18 | 256987 | SERINC5 |
| 0.024906881 | 3.69646E-18 | 5433 | POLR2D |
| 0.024861812 | 4.24455E-18 | 5902 | RANBP1 |
| 0.024857214 | 4.30479E-18 | 8289 | ARID1A |
| 0.024842488 | 4.50345E-18 | 125144 | C17orf45 |
| 0.02484071 | 4.52804E-18 | 80215 | RUNX1-IT1 |
| 0.024815761 | 4.88739E-18 | 64151 | NCAPG |
| 0.024771608 | 5.59363E-18 | 137362 | GOT1L1 |
| 0.024757003 | 5.84871E-18 | 113452 | TMEM54 |
| 0.024751599 | 5.94597E-18 | 200958 | MUC20 |
| 0.024746149 | 6.04569E-18 | 23547 | LILRA4 |
| 0.024744299 | 6.07991E-18 | 50624 | CUZD1 |
| 0.024725554 | 6.43761E-18 | 92002 | FAM58A |
| 0.024702775 | 6.90036E-18 | 100132832 | LOC100132832 |
| 0.024693928 | 7.08879E-18 | 26059 | ERC2 |
| 0.024659065 | 7.8821E-18 | 10900 | RUNDC3A |
| 0.024629871 | 8.61334E-18 | 10022 | INSL5 |
| 0.024619834 | 8.87989E-18 | 11160 | ERLIN2 |
| 0.024617272 | 8.94923E-18 | 284029 | LINC00324 |
| 0.024616054 | 8.98238E-18 | 440193 | CCDC88C |
| 0.02461254 | 9.0787E-18 | 57091 | CASS4 |
| 0.02459541 | 9.56303E-18 | 84541 | KBTBD8 |
| 0.02459054 | 9.7053E-18 | 84206 | MEX3B |
| 0.024587469 | 9.7961E-18 | 10655 | DMRT2 |
| 0.024583371 | 9.91858E-18 | 89797 | NAV2 |
| 0.024576187 | 1.01369E-17 | 5287 | PIK3C2B |
| 0.024575579 | 1.01556E-17 | 150297 | C22orf42 |
| 0.024560902 | 1.06174E-17 | 390201 | OR10V1 |
| 0.024560323 | 1.0636E-17 | 4200 | ME2 |
| 0.02455488 | 1.08128E-17 | 9469 | CHST3 |
| 0.024542828 | 1.12146E-17 | 51143 | DYNC1LI1 |
| 0.024529888 | 1.16625E-17 | 8636 | SSNA1 |
| 0.024522747 | 1.19171E-17 | 54988 | ACSM5 |
| 0.024511039 | 1.23465E-17 | 7917 | BAT3 |
| 0.024509213 | 1.24148E-17 | 51700 | CYB5R2 |
| 0.024504703 | 1.25852E-17 | 2799 | GNS |
| 0.024497831 | 1.28493E-17 | 8673 | VAMP8 |
| 0.02449759 | 1.28586E-17 | 84694 | GJA10 |
| 0.024489198 | 1.31888E-17 | 5625 | PRODH |
| 0.024478636 | 1.36162E-17 | 1014 | CDH16 |
| 0.024474028 | 1.38069E-17 | 79742 | CXorf36 |
| 0.024422341 | 1.61355E-17 | 11135 | CDC42EP1 |
| 0.024404291 | 1.70367E-17 | 7752 | ZNF200 |
| 0.024384188 | 1.8099E-17 | 23760 | PITPNB |
| 0.024383405 | 1.81416E-17 | 22826 | DNAJC8 |
| 0.02434063 | 2.063E-17 | 5020 | OXT |
| 0.024337229 | 2.08417E-17 | 6781 | STC1 |
| 0.024327039 | 2.1489E-17 | 374407 | DNAJB13 |
| 0.024324049 | 2.16826E-17 | 1915 | EEF1A1 |
| 0.024282029 | 2.45935E-17 | 147686 | ZNF418 |
| 0.024271936 | 2.53481E-17 | 646658 | TMEM90A |
| 0.02426808 | 2.56425E-17 | 5053 | PAH |
| 0.024258538 | 2.63853E-17 | 63933 | CCDC90A |
| 0.024257978 | 2.64296E-17 | 80231 | CXorf21 |
| 0.024220253 | 2.95856E-17 | 112970 | KTI12 |
| 0.024213754 | 3.01656E-17 | 58472 | SQRDL |
| 0.024212028 | 3.03215E-17 | 151195 | CCNYL1 |
| 0.02420164 | 3.12769E-17 | 10090 | UST |
| 0.02418886 | 3.2493E-17 | 2159 | F10 |

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| 0.060967369 | 0.379076103 | 0.58 | 1 | 8826 | IQGAP1 |
| 0.060871481 | 0.379827322 | 0.566 | 1 | 128 | ADH5 |
| 0.060775593 | 0.380579451 | 0.609 | 1 | 84991 | RBM17 |
| 0.060723761 | 0.380986386 | 0.586 | 1 | 1586 | CYP17A1 |
| 0.060596774 | 0.381984499 | 0.593 | 1 | 9530 | BAG4 |
| 0.060576042 | 0.382147607 | 0.622 | 1 | 57794 | SF4 |
| 0.060509956 | 0.382667799 | 0.573 | 1 | 28973 | MRPS18B |
| 0.060463308 | 0.383035253 | 0.595 | 1 | 55071 | C9orf40 |
| 0.060449055 | 0.383147574 | 0.62 | 1 | 56413 | LTB4R2 |
| 0.060410181 | 0.383454004 | 0.616 | 1 | 337972 | KRTAP19-5 |
| 0.060380378 | 0.383689035 | 0.588 | 1 | 55812 | SPATA7 |
| 0.060347983 | 0.383944603 | 0.605 | 1 | 403239 | OR2T27 |
| 0.060344096 | 0.383975278 | 0.614 | 1 | 9306 | SOCS6 |
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| 0.022741137 | 2.15427E-15 | 2059 | EPS8 |
| 0.022735059 | 2.19137E-15 | 55254 | TMEM39A |
| 0.022733656 | 2.20002E-15 | 219287 | FAM123A |
| 0.022731902 | 2.21089E-15 | 7184 | HSP90B1 |
| 0.022720572 | 2.28237E-15 | 22845 | DOLK |
| 0.022707069 | 2.37054E-15 | 140258 | KRTAP13-1 |
| 0.022699975 | 2.41818E-15 | 4796 | NFKBIL2 |
| 0.022698549 | 2.42788E-15 | 256309 | CCDC110 |
| 0.022693432 | 2.46297E-15 | 284443 | ZNF493 |
| 0.022684577 | 2.52489E-15 | 7379 | UPK2 |
| 0.022666481 | 2.65623E-15 | 8019 | BRD3 |
| 0.022660915 | 2.69797E-15 | 55621 | TRMT1 |
| 0.0226499 | 2.78247E-15 | 10084 | PQBP1 |
| 0.022646429 | 2.80963E-15 | 80267 | EDEM3 |
| 0.022639041 | 2.86832E-15 | 387695 | C10orf99 |
| 0.022622449 | 3.00456E-15 | 29909 | GPR171 |
| 0.022580777 | 3.37548E-15 | 8648 | NCOA1 |
| 0.022574071 | 3.43924E-15 | 374462 | PTPRQ |
| 0.022545153 | 3.72804E-15 | 9538 | EI24 |
| 0.02254442 | 3.73567E-15 | 64425 | POLR1E |
| 0.022543889 | 3.74121E-15 | 7700 | ZNF141 |
| 0.022525805 | 3.93448E-15 | 5694 | PSMB6 |
| 0.022514609 | 4.05902E-15 | 4173 | MCM4 |
| 0.02249271 | 4.31397E-15 | 10981 | RAB32 |
| 0.022492522 | 4.31623E-15 | 8910 | SGCE |
| 0.022475249 | 4.52849E-15 | 10253 | SPRY2 |
| 0.022466937 | 4.63425E-15 | 90522 | YIF1B |

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| 0.055265911 | 0.425310731 | 0.617 | 1 | 11016 | ATF7 |
| 0.055256841 | 0.425386801 | 0.633 | 1 | 5872 | RAB13 |
| 0.055251658 | 0.425430274 | 0.636 | 1 | 6500 | SKP1 |
| 0.055228334 | 0.425625932 | 0.64 | 1 | 139716 | GAB3 |
| 0.055170023 | 0.426115305 | 0.639 | 1 | 55784 | MCTP2 |
| 0.055142812 | 0.426343792 | 0.639 | 1 | 57824 | HMHB1 |
| 0.055123375 | 0.426507039 | 0.64 | 1 | 5783 | PTPN13 |
| 0.05509098 | 0.4267792 | 0.645 | 1 | 646936 | LOC646936 |
| 0.055075431 | 0.426909872 | 0.649 | 1 | 121981 | PPIAP26 |
| 0.055019712 | 0.427378307 | 0.663 | 1 | 387071 | FAM136BP |
| 0.055011937 | 0.427443693 | 0.645 | 1 | 65260 | SELRC1 |
| 0.05499898 | 0.427552684 | 0.617 | 1 | 55210 | ATAD3A |
| 0.054874584 | 0.428599811 | 0.666 | 1 | 6504 | SLAMF1 |
| 0.054840894 | 0.428883663 | 0.656 | 1 | 9112 | MTA1 |
| 0.054839598 | 0.428894583 | 0.63 | 1 | 6432 | SFRS7 |
| 0.054838302 | 0.428905503 | 0.637 | 1 | 114335 | CGB1 |
| 0.054820161 | 0.429058396 | 0.646 | 1 | 9058 | SLC13A2 |
| 0.054798133 | 0.429244094 | 0.664 | 1 | 120534 | C11orf46 |
| 0.054782583 | 0.429375203 | 0.651 | 1 | 54832 | VPS13C |
| 0.054763147 | 0.429539122 | 0.651 | 1 | 6769 | STAC |
| 0.054732048 | 0.429801467 | 0.648 | 1 | 10632 | ATP5L |
| 0.054722977 | 0.429878002 | 0.647 | 1 | 1781 | DYNC1I2 |
| 0.054721681 | 0.429888936 | 0.638 | 1 | 55586 | MIOX |
| 0.054716498 | 0.429932674 | 0.631 | 1 | 337967 | KRTAP6-2 |
| 0.054715202 | 0.429943609 | 0.647 | 1 | 9232 | PTTG1 |
| 0.05470354 | 0.430042031 | 0.643 | 1 | 91574 | C12orf65 |
| 0.054686695 | 0.430184219 | 0.637 | 1 | 9071 | CLDN10 |
| 0.054671146 | 0.430315494 | 0.639 | 1 | 100506144 | RP11-244H3.1 |
| 0.054664667 | 0.430370199 | 0.642 | 1 | 84525 | HOPX |
| 0.054658188 | 0.430424908 | 0.646 | 1 | 6205 | RPS11P5 |
| 0.054627089 | 0.430687565 | 0.639 | 1 | 51119 | SBDS |
| 0.054563596 | 0.431224111 | 0.645 | 1 | 399900 | LOC399900 |
| 0.054545455 | 0.431377481 | 0.655 | 1 | 112611 | RWDD2A |
| 0.05451306 | 0.431651433 | 0.653 | 1 | 29079 | MED4 |
| 0.054448271 | 0.432199639 | 0.643 | 1 | 51027 | BOLA1 |
| 0.05440551 | 0.432561675 | 0.638 | 1 | 283933 | ZNF843 |
| 0.054401622 | 0.432594596 | 0.675 | 1 | 55540 | IL17RB |
| 0.054382186 | 0.432759222 | 0.624 | 1 | 161176 | C14orf49 |
| 0.054347199 | 0.433055641 | 0.624 | 1 | 6993 | DYNLT1 |
| 0.054305734 | 0.433407103 | 0.648 | 1 | 9510 | ADAMTS1 |
| 0.054295368 | 0.433494994 | 0.675 | 1 | 79856 | SNX22 |
| 0.054287593 | 0.433560919 | 0.652 | 1 | 80012 | PHC3 |
| 0.05424872 | 0.433890631 | 0.621 | 1 | 219844 | HYLS1 |
| 0.054205959 | 0.434253481 | 0.625 | 1 | 8630 | HSD17B6 |
| 0.05417486 | 0.434517481 | 0.642 | 1 | 6597 | SMARCA4 |
| 0.054155423 | 0.434682528 | 0.634 | 1 | 6351 | CCL4 |
| 0.054085451 | 0.435276995 | 0.651 | 1 | 11091 | WDR5 |
| 0.054064718 | 0.435453222 | 0.642 | 1 | 4817 | NIT1 |
| 0.054058239 | 0.435508302 | 0.616 | 1 | 127700 | C1orf102 |
| 0.053999929 | 0.436004198 | 0.63 | 1 | 10326 | SIRPB1 |
| 0.053874238 | 0.43707423 | 0.655 | 1 | 80148 | PQLC1 |
| 0.05383666 | 0.437394429 | 0.639 | 1 | 3861 | KRT14 |
| 0.053834068 | 0.437416516 | 0.617 | 1 | 84905 | ZNF341 |
| 0.053818519 | 0.437549055 | 0.615 | 1 | 6152 | RPL24 |
| 0.053814631 | 0.437582194 | 0.631 | 1 | 10744 | PTTG2 |
| 0.053790011 | 0.437792103 | 0.658 | 1 | 90522 | YIF1B |
| 0.053725222 | 0.438344771 | 0.667 | 1 | 51008 | ASCC1 |
| 0.053675982 | 0.438765066 | 0.641 | 1 | 203414 | CXorf24 |
| 0.05365525 | 0.438942101 | 0.662 | 1 | 116159 | CYYR1 |
| 0.053647475 | 0.4390085 | 0.6 | 1 | 8572 | PDLIM4 |
| 0.053580094 | 0.439584195 | 0.64 | 1 | 349075 | ZNF713 |
| 0.053533446 | 0.439983006 | 0.633 | 1 | 1757 | SARDH |
| 0.053503643 | 0.44023791 | 0.661 | 1 | 53904 | MYO3A |
| 0.053462178 | 0.440592698 | 0.634 | 1 | 5162 | PDHB |
| 0.053438853 | 0.440792339 | 0.643 | 1 | 3590 | IL11RA |
| 0.053418121 | 0.44096984 | 0.652 | 1 | 126433 | FBXO27 |
| 0.053411642 | 0.441025318 | 0.674 | 1 | 100131294 | LOC100131294 |
| 0.053388318 | 0.44122507 | 0.63 | 1 | 55069 | C7orf42 |
| 0.053358515 | 0.441480383 | 0.643 | 1 | 153643 | FAM81B |
| 0.053357219 | 0.441491486 | 0.64 | 1 | 114908 | TMEM123 |
| 0.05335074 | 0.441547001 | 0.666 | 1 | 9038 | TAAR5 |
| 0.053346853 | 0.441580312 | 0.639 | 1 | 10810 | WASF3 |
| 0.053324824 | 0.4417691 | 0.663 | 1 | 348932 | SLC6A18 |
| 0.053311866 | 0.441880174 | 0.659 | 1 | 170622 | COMMD6 |
| 0.053307979 | 0.441913499 | 0.678 | 1 | 643036 | SLED1 |
| 0.053285951 | 0.442102368 | 0.671 | 1 | 6908 | TBP |
| 0.053223753 | 0.442635895 | 0.664 | 1 | 440712 | C1orf186 |
| 0.053195246 | 0.442880551 | 0.645 | 1 | 10695 | CNPY3 |
| 0.053151189 | 0.443258806 | 0.637 | 1 | 130951 | C2orf65 |
| 0.05309547 | 0.44373745 | 0.633 | 1 | 84815 | MGC12916 |
| 0.053054005 | 0.444093841 | 0.636 | 1 | 151534 | LBX2-AS1 |
| 0.05301254 | 0.444450394 | 0.637 | 1 | 3709 | ITPR2 |

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| 0.022464744 | 4.66257E-15 | 266675 | BEST4 |
| 0.022457094 | 4.76266E-15 | 401577 | CD99P1 |
| 0.02245635 | 4.7725E-15 | 339122 | RAB43 |
| 0.022454202 | 4.80104E-15 | 57558 | USP35 |
| 0.02244149 | 4.97343E-15 | 222389 | BEND7 |
| 0.022422087 | 5.24834E-15 | 83930 | STARD3NL |
| 0.022406384 | 5.48175E-15 | 84300 | MNF1 |
| 0.022402343 | 5.54344E-15 | 653188 | GUSBP3 |
| 0.022393989 | 5.67317E-15 | 11277 | TREX1 |
| 0.022393297 | 5.68406E-15 | 57456 | KIAA1143 |
| 0.022392828 | 5.69143E-15 | 51614 | ERGIC3 |
| 0.022381988 | 5.86477E-15 | 56985 | C17orf48 |
| 0.022380964 | 5.88142E-15 | 55805 | LRP2BP |
| 0.022377516 | 5.93779E-15 | 730112 | FAM166B |
| 0.02237235 | 6.02325E-15 | 55827 | IQWD1 |
| 0.022327514 | 6.81767E-15 | 64746 | ACBD3 |
| 0.022326737 | 6.83231E-15 | 7050 | TGIF1 |
| 0.022312536 | 7.10538E-15 | 5536 | PPP5C |
| 0.022310535 | 7.1447E-15 | 91409 | CCDC74B |
| 0.022295967 | 7.43756E-15 | 8862 | APLN |
| 0.022294534 | 7.467E-15 | 134353 | LSM11 |
| 0.022293955 | 7.54152E-15 | 4124 | MAN2A1 |
| 0.022289385 | 7.57373E-15 | 51160 | VPS28 |
| 0.022289197 | 7.67973E-15 | 9517 | SPTLC2 |
| 0.022278386 | 7.80676E-15 | 1892 | ECHS1 |
| 0.022265637 | 8.08571E-15 | 6361 | CCL17 |
| 0.02225736 | 8.27205E-15 | 8314 | BAP1 |
| 0.022220725 | 9.14881E-15 | 3122 | HLA-DRA |
| 0.02221779 | 9.22288E-15 | 3386 | ICAM4 |
| 0.022199917 | 9.68686E-15 | 151871 | DPPA2 |
| 0.022197439 | 9.75297E-15 | 27293 | SMPDL3B |
| 0.022188997 | 9.98157E-15 | 6367 | CCL22 |
| 0.022183454 | 1.01345E-14 | 83871 | RAB34 |
| 0.022171606 | 1.04693E-14 | 90024 | AP001816.1 |
| 0.022167052 | 1.06008E-14 | 5934 | RBL2 |
| 0.022150992 | 1.10777E-14 | 91120 | ZNF682 |
| 0.022139343 | 1.14368E-14 | 26683 | OR4F3 |
| 0.022134436 | 1.15915E-14 | 54549 | SDK2 |
| 0.022129139 | 1.17608E-14 | 10142 | AKAP9 |
| 0.022111769 | 1.23331E-14 | 94274 | PPP1R14A |
| 0.022109664 | 1.24043E-14 | 648740 | ACTG1P4 |
| 0.022109509 | 1.24096E-14 | 4893 | NRAS |
| 0.022103064 | 1.26302E-14 | 81706 | PPP1R14C |
| 0.022097875 | 1.28106E-14 | 2029 | ENSA |
| 0.022084173 | 1.32992E-14 | 258010 | SVIP |
| 0.022075673 | 1.36115E-14 | 116113 | FOXP4 |
| 0.022074948 | 1.36385E-14 | 57477 | SHROOM4 |
| 0.022062105 | 1.41251E-14 | 6039 | RNASE6 |
| 0.02205991 | 1.68088E-14 | 9514 | GAL3ST1 |
| 0.022047376 | 1.47041E-14 | 54933 | RHBDL2 |
| 0.022045654 | 1.47734E-14 | 133686 | C5orf33 |
| 0.022043537 | 1.48589E-14 | 147015 | DHRS13 |
| 0.022040278 | 1.49915E-14 | 4070 | TACSTD2 |
| 0.022036652 | 1.51404E-14 | 440888 | ACTR3BP2 |
| 0.022021397 | 1.57829E-14 | 22999 | RIMS1 |
| 0.02201169 | 1.62057E-14 | 286451 | YIPF6 |
| 0.022005427 | 1.64844E-14 | 126306 | JSRP1 |
| 0.021997671 | 1.6836E-14 | 8633 | UNC5C |
| 0.021988363 | 1.72678E-14 | 1052 | CEBPD |
| 0.021983481 | 1.74986E-14 | 5134 | PDCD2 |
| 0.0219773 | 1.77951E-14 | 54509 | RHOF |
| 0.021973841 | 1.79632E-14 | 130888 | FBXO36 |
| 0.021973259 | 1.79916E-14 | 440017 | DUX4L15 |
| 0.021962302 | 1.85354E-14 | 128308 | MRPL55 |
| 0.021960362 | 1.86333E-14 | 85377 | MICALL1 |
| 0.0219297 | 2.02506E-14 | 10901 | DHRS4 |
| 0.021922285 | 2.06621E-14 | 9141 | PDCD5 |
| 0.021913148 | 2.11803E-14 | 55559 | HAUS7 |
| 0.021909601 | 2.1385E-14 | 51455 | REV1 |
| 0.021899963 | 2.19508E-14 | 10273 | STUB1 |
| 0.021890646 | 2.25118E-14 | 84456 | L3MBTL3 |
| 0.021889315 | 2.25931E-14 | 57419 | SLC24A3 |
| 0.021864315 | 2.41747E-14 | 84820 | POLR2J4 |
| 0.021850084 | 2.51231E-14 | 55052 | MRPL20 |
| 0.021835014 | 2.61674E-14 | 100170841 | C17orf96 |
| 0.021830761 | 2.64697E-14 | 54828 | BCAS3 |
| 0.021818709 | 2.73452E-14 | 153020 | RASGEF1B |
| 0.021802947 | 2.85334E-14 | 219983 | OR4D6 |
| 0.021801238 | 2.86653E-14 | 65988 | ZNF747 |
| 0.021754204 | 3.25384E-14 | 9031 | BAZ1B |
| 0.02174722 | 3.31558E-14 | 4325 | MMP16 |
| 0.021743351 | 3.35028E-14 | 64087 | MCCC2 |

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| 0.052993103 | 0.444617584 | 0.626 | 1 | 56888 | KCMF1 |
| 0.052942568 | 0.445052446 | 0.663 | 1 | 389827 | TMEM8C |
| 0.052933497 | 0.445130524 | 0.663 | 1 | 8744 | TNFSF9 |
| 0.052901102 | 0.445409436 | 0.626 | 1 | 54916 | C14orf101 |
| 0.052897215 | 0.445442912 | 0.65 | 1 | 65980 | BRD9 |
| 0.052892032 | 0.445487549 | 0.655 | 1 | 6677 | SPAM1 |
| 0.052876482 | 0.445621475 | 0.645 | 1 | 10327 | AKR1A1 |
| 0.052828538 | 0.446034558 | 0.639 | 1 | 27043 | PELP1 |
| 0.052819468 | 0.446112733 | 0.661 | 1 | 9144 | SYNGR2 |
| 0.052783186 | 0.446425511 | 0.652 | 1 | 165100 | C2orf57 |
| 0.052701551 | 0.447129717 | 0.641 | 1 | 442582 | STAG3L2 |
| 0.052671748 | 0.447386964 | 0.643 | 1 | 5818 | PVRL1 |
| 0.052641945 | 0.447644295 | 0.644 | 1 | 317662 | FAM149B1 |
| 0.052630283 | 0.447745012 | 0.67 | 1 | 1417 | CRYBB3 |
| 0.0526251 | 0.44778978 | 0.656 | 1 | 23008 | KLHDC10 |
| 0.052604367 | 0.447968875 | 0.626 | 1 | 6237 | RRAS |
| 0.052547353 | 0.448461595 | 0.651 | 1 | 283102 | KRT8P41 |
| 0.052546057 | 0.448472796 | 0.638 | 1 | 149647 | FAM71A |
| 0.052527916 | 0.448629637 | 0.632 | 1 | 345557 | PLCXD3 |
| 0.052514958 | 0.448741685 | 0.666 | 1 | 3866 | KRT15 |
| 0.052395746 | 0.44977327 | 0.656 | 1 | 64403 | CDH24 |
| 0.05234521 | 0.450210975 | 0.653 | 1 | 3482 | IGF2R |
| 0.052341323 | 0.450244654 | 0.65 | 1 | 3797 | KIF3C |
| 0.052323182 | 0.450401844 | 0.658 | 1 | 11031 | RAB31 |
| 0.052275238 | 0.450817424 | 0.65 | 1 | 7941 | PLA2G7 |
| 0.052273942 | 0.450828659 | 0.659 | 1 | 728658 | RPL13AP5 |
| 0.052272646 | 0.450839894 | 0.658 | 1 | 644511 | RPL13AP6 |
| 0.052253209 | 0.451008439 | 0.626 | 1 | 25974 | MMACHC |
| 0.052240252 | 0.451120821 | 0.64 | 1 | 7049 | TGFBR3 |
| 0.052201378 | 0.451458064 | 0.651 | 1 | 1300 | COL10A1 |
| 0.052131406 | 0.452065458 | 0.652 | 1 | 27013 | C2orf24 |
| 0.052128814 | 0.452087963 | 0.651 | 1 | 8851 | CDK5R1 |
| 0.052126222 | 0.452110468 | 0.676 | 1 | 2138 | EYA1 |
| 0.05210549 | 0.452290535 | 0.672 | 1 | 144455 | E2F7 |
| 0.052045884 | 0.452808452 | 0.632 | 1 | 79762 | C1orf115 |
| 0.052009602 | 0.453123868 | 0.665 | 1 | 28952 | CCDC22 |
| 0.051972024 | 0.45345068 | 0.659 | 1 | 26492 | OR8G2 |
| 0.051955179 | 0.453597225 | 0.655 | 1 | 10106 | CTDSP2 |
| 0.051946108 | 0.453676144 | 0.654 | 1 | 135935 | NOBOX |
| 0.051929263 | 0.45382273 | 0.65 | 1 | 8784 | TNFRSF18 |
| 0.051920193 | 0.453901671 | 0.666 | 1 | 256076 | COL29A1 |
| 0.051810051 | 0.454860863 | 0.642 | 1 | 83637 | ZMIZ2 |
| 0.051782839 | 0.455098015 | 0.644 | 1 | 10096 | ACTR3 |
| 0.051775065 | 0.455165785 | 0.673 | 1 | 217 | ALDH2 |
| 0.051654556 | 0.456216947 | 0.677 | 1 | 341019 | DCDC1 |
| 0.051649373 | 0.456262189 | 0.632 | 1 | 10263 | CDK2AP2 |
| 0.051631232 | 0.456420555 | 0.65 | 1 | 65250 | C5orf42 |
| 0.05159495 | 0.456737378 | 0.678 | 1 | 9878 | TOX4 |
| 0.051592359 | 0.456760013 | 0.626 | 1 | 6721 | SREBF2 |
| 0.051589767 | 0.456782649 | 0.642 | 1 | 91050 | CCDC149 |
| 0.051574218 | 0.456918476 | 0.662 | 1 | 120376 | AP002448.1 |
| 0.051539232 | 0.457224168 | 0.644 | 1 | 9326 | ZNHIT3 |
| 0.051535344 | 0.457258141 | 0.664 | 1 | 11313 | LYPLA2 |
| 0.051527569 | 0.457326091 | 0.662 | 1 | 6124 | RPL4 |
| 0.051473146 | 0.457801899 | 0.662 | 1 | 79980 | DSN1 |
| 0.051445935 | 0.458039907 | 0.68 | 1 | 6401 | SELE |
| 0.051435569 | 0.458130594 | 0.676 | 1 | 6366 | CCL21 |
| 0.051375963 | 0.458652243 | 0.637 | 1 | 4357 | MPST |
| 0.051311173 | 0.459219628 | 0.655 | 1 | 26018 | LRIG1 |
| 0.051302103 | 0.459299093 | 0.657 | 1 | 55345 | C4orf21 |
| 0.051287849 | 0.459423982 | 0.673 | 1 | 1540 | CYLD |
| 0.051254159 | 0.45971925 | 0.643 | 1 | 55198 | APPL2 |
| 0.051137538 | 0.460742146 | 0.645 | 1 | 143678 | AC068385.1 |
| 0.051110326 | 0.460981004 | 0.653 | 1 | 285888 | CNPY1 |
| 0.05107534 | 0.461288207 | 0.68 | 1 | 284352 | LRRC68 |
| 0.051045537 | 0.461549989 | 0.657 | 1 | 112950 | MED8 |
| 0.05101703 | 0.461800467 | 0.674 | 1 | 728666 | PRELID1P1 |
| 0.051011847 | 0.461846016 | 0.653 | 1 | 5885 | RAD21 |
| 0.050991114 | 0.462028239 | 0.652 | 1 | 283576 | ZDHHC22 |
| 0.050875789 | 0.463042581 | 0.683 | 1 | 402360 | LOC402360 |
| 0.050849873 | 0.463270692 | 0.673 | 1 | 84251 | SGIP1 |
| 0.050840803 | 0.463350546 | 0.667 | 1 | 50846 | DHH |
| 0.050833028 | 0.463418998 | 0.677 | 1 | 10816 | SPINT3 |
| 0.05079545 | 0.46374993 | 0.643 | 1 | 5724 | PTAFR |
| 0.050750098 | 0.464149504 | 0.666 | 1 | 5076 | PAX2 |
| 0.050750098 | 0.464149504 | 0.669 | 1 | 401021 | LOC401021 |
| 0.050750098 | 0.464149504 | 0.656 | 1 | 100272147 | MTCP1NB |
| 0.050742323 | 0.464218021 | 0.667 | 1 | 3747 | KCNC2 |
| 0.050689196 | 0.464686375 | 0.659 | 1 | 1819 | DRG2 |
| 0.050665872 | 0.464892076 | 0.661 | 1 | 347365 | ITIH5L |
| 0.05065421 | 0.464994945 | 0.651 | 1 | 730101 | RP1-152L7.5 |
| 0.050651618 | 0.465017807 | 0.672 | 1 | 7008 | TEF |

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| 0.021737771 | 3.40095E-14 | 5296 | PIK3R2 |
| 0.021729454 | 3.47788E-14 | 221409 | SPATS1 |
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| 0.021703559 | 3.7285E-14 | 9066 | SYT7 |
| 0.021699878 | 3.76554E-14 | 1496 | CTNNA2 |
| 0.021688301 | 3.88441E-14 | 84278 | HIATL2 |
| 0.021682554 | 3.94478E-14 | 23350 | SR140 |
| 0.021672627 | 4.05124E-14 | 4191 | MDH2 |
| 0.021671324 | 4.06542E-14 | 59349 | KLHL12 |
| 0.021666918 | 4.11373E-14 | 5901 | RAN |
| 0.021666246 | 4.12115E-14 | 9334 | B4GALT5 |
| 0.02164814 | 4.32606E-14 | 9797 | TATDN2 |
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| 0.04956575 | 0.474651312 | 0.662 | 1 | 728833 | FAM72D |
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| 0.04916276 | 0.478254052 | 0.668 | 1 | 80332 | ADAM33 |
| 0.049139436 | 0.478463025 | 0.676 | 1 | 4072 | EPCAM |
| 0.04913814 | 0.478474636 | 0.668 | 1 | 5862 | RAB2A |
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| 0.04910445 | 0.478776577 | 0.629 | 1 | 1497 | CTNS |
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| 0.047124489 | 0.4967019 | 0.709 | 1 | 401236 | RP3-486B10.1 |
| 0.047119306 | 0.496749287 | 0.675 | 1 | 27133 | KCNH5 |
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| 0.046508991 | 0.502345857 | 0.67 | 1 | 54553 | DKFZP434I0714 |
| 0.046492146 | 0.502500796 | 0.712 | 1 | 161247 | FITM1 |
| 0.046464934 | 0.502751136 | 0.718 | 1 | 353219 | KAAG1 |
| 0.046458455 | 0.50281075 | 0.714 | 1 | 222183 | AC005077.3 |
| 0.046437723 | 0.50300154 | 0.679 | 1 | 23468 | CBX5 |
| 0.046414399 | 0.503216225 | 0.698 | 1 | 23127 | GLT25D2 |
| 0.046411807 | 0.503240082 | 0.689 | 1 | 57706 | DENND1A |
| 0.046347018 | 0.503836696 | 0.696 | 1 | 729046 | LOC729046 |
| 0.046341835 | 0.503884441 | 0.685 | 1 | 23158 | TBC1D9 |
| 0.046299074 | 0.504278429 | 0.709 | 1 | 84681 | HINT2 |
| 0.046282229 | 0.504433681 | 0.691 | 1 | 9218 | VAPA |
| 0.046218735 | 0.505019086 | 0.672 | 1 | 7103 | TSPAN8 |
| 0.046217439 | 0.505031037 | 0.688 | 1 | 9547 | CXCL14 |
| 0.046139692 | 0.505748353 | 0.699 | 1 | 100286918 | NDUFS5P2 |
| 0.046099523 | 0.506119175 | 0.689 | 1 | 3045 | HBD |
| 0.04605417 | 0.506538016 | 0.674 | 1 | 91875 | TTC5 |
| 0.045986789 | 0.507160629 | 0.673 | 1 | 57592 | ZNF687 |
| 0.045984198 | 0.507184584 | 0.705 | 1 | 150274 | HSCB |
| 0.045977719 | 0.507244473 | 0.676 | 1 | 89853 | FAM125B |
| 0.045973832 | 0.507280408 | 0.688 | 1 | 83605 | CCM2 |
| 0.045925888 | 0.507723719 | 0.714 | 1 | 56993 | TOMM22 |
| 0.045885718 | 0.508095297 | 0.67 | 1 | 55658 | RNF126 |
| 0.045879239 | 0.508155242 | 0.694 | 1 | 51053 | GMNN |
| 0.045827408 | 0.508634937 | 0.688 | 1 | 79168 | LILRA6 |
| 0.045801492 | 0.508874873 | 0.674 | 1 | 84516 | DCTN5 |
| 0.045779464 | 0.509078865 | 0.689 | 1 | 64180 | DPEP3 |

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| 0.019764887 | 5.43256E-12 | 7037 | TFRC |
| 0.019758729 | 5.51524E-12 | 63826 | SRR |
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| 0.019738401 | 5.79707E-12 | 4430 | MYO1B |
| 0.019731768 | 5.89205E-12 | 147645 | AC063977.1 |
| 0.019720071 | 6.06328E-12 | 55152 | DALRD3 |
| 0.019714768 | 6.1425E-12 | 314 | AOC2 |
| 0.019707545 | 6.25203E-12 | 65983 | GRAMD3 |
| 0.019706726 | 6.26458E-12 | 81629 | TSSK3 |
| 0.019704481 | 6.29908E-12 | 83549 | UCK1 |
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| 0.019684962 | 6.60702E-12 | 100506243 | RP11-141M3.1 |
| 0.019670849 | 6.83882E-12 | 284424 | MIR7-3HG |
| 0.019652424 | 7.15344E-12 | 7291 | TWIST1 |
| 0.019646257 | 7.26189E-12 | 284021 | MILR1 |
| 0.019585647 | 8.41718E-12 | 64943 | NT5DC2 |
| 0.019577833 | 8.57867E-12 | 51021 | MRPS16 |
| 0.019576545 | 8.60558E-12 | 25836 | NIPBL |
| 0.019573392 | 8.67179E-12 | 50636 | ANO7 |
| 0.019555436 | 9.05848E-12 | 26054 | SENP6 |
| 0.019551061 | 9.15523E-12 | 9227 | LRAT |
| 0.019533968 | 9.54304E-12 | 57621 | ZBTB2 |
| 0.019525213 | 9.74786E-12 | 9901 | SRGAP3 |
| 0.019520096 | 9.86955E-12 | 5687 | PSMA6 |
| 0.019518957 | 9.89683E-12 | 79160 | MGC4294 |
| 0.019498202 | 1.04073E-11 | 115106 | HAUS1 |
| 0.019487651 | 1.06766E-11 | 729732 | LOC729732 |
| 0.01946906 | 1.11677E-11 | 64946 | CENPH |
| 0.019458303 | 1.1462E-11 | 151651 | EFHB |
| 0.01944742 | 1.17674E-11 | 6576 | SLC25A1 |
| 0.019443656 | 1.18749E-11 | 1356 | CP |
| 0.019434342 | 1.2145E-11 | 11143 | MYST2 |
| 0.019424651 | 1.24324E-11 | 51100 | SH3GLB1 |
| 0.019413967 | 1.2757E-11 | 58473 | PLEKHB1 |
| 0.019410694 | 1.2858E-11 | 162963 | ZNF610 |
| 0.019404708 | 1.3045E-11 | 8690 | JRKL |
| 0.019398742 | 1.32339E-11 | 348327 | ZNF530 |
| 0.019398451 | 1.32432E-11 | 4144 | MAT2A |
| 0.019379048 | 1.38768E-11 | 1845 | DUSP3 |
| 0.019378045 | 1.39104E-11 | 10962 | MLLT11 |
| 0.019375524 | 1.3995E-11 | 7643 | ZNF90 |
| 0.019374034 | 1.40453E-11 | 5347 | PLK1 |
| 0.019368894 | 1.42201E-11 | 27148 | STK36 |
| 0.01935285 | 1.47796E-11 | 55623 | THUMPD1 |
| 0.019332562 | 1.55181E-11 | 23353 | UNC84A |
| 0.019327529 | 1.57068E-11 | 57663 | USP29 |
| 0.01932643 | 1.57483E-11 | 9866 | TRIM66 |
| 0.01931364 | 1.62393E-11 | 181 | AGRP |
| 0.019308896 | 1.64252E-11 | 26020 | LRP10 |
| 0.019308565 | 1.64383E-11 | 79290 | OR13A1 |
| 0.019303246 | 1.66494E-11 | 27198 | HCAR1 |
| 0.019289081 | 1.72245E-11 | 11236 | RNF139 |
| 0.019284644 | 1.74087E-11 | 57699 | CPNE5 |
| 0.019281647 | 1.75341E-11 | 9218 | VAPA |
| 0.019258221 | 1.85458E-11 | 64180 | DPEP3 |
| 0.019242395 | 1.92613E-11 | 10570 | DPYSL4 |
| 0.019241373 | 1.93085E-11 | 80762 | NDFIP1 |
| 0.019235399 | 1.95862E-11 | 5076 | PAX2 |
| 0.01920581 | 2.10206E-11 | 7266 | DNAJC7 |
| 0.01920509 | 2.10568E-11 | 63946 | DMRTC2 |
| 0.019198002 | 2.1416E-11 | 22838 | RNF44 |
| 0.019195289 | 2.15551E-11 | 2696 | GIPR |
| 0.019179439 | 2.23854E-11 | 644192 | RP11-327J17.3 |
| 0.019168922 | 2.29535E-11 | 91179 | SCARF2 |
| 0.019168141 | 2.29962E-11 | 164 | AP1G1 |
| 0.019162441 | 2.33106E-11 | 8712 | PAGE1 |
| 0.019161976 | 2.33364E-11 | 957 | ENTPD5 |
| 0.019146821 | 2.41938E-11 | 7531 | YWHAE |
| 0.019140475 | 2.45619E-11 | 64850 | AGXT2L1 |
| 0.019130204 | 2.51693E-11 | 84991 | RBM17 |
| 0.019112941 | 2.62234E-11 | 55026 | FAM70A |
| 0.019111356 | 2.63224E-11 | 55707 | NECAP2 |
| 0.019102566 | 2.68777E-11 | 8751 | ADAM15 |
| 0.019101136 | 2.69691E-11 | 10133 | OPTN |
| 0.019091204 | 2.76125E-11 | 126969 | SLC44A3 |
| 0.019090817 | 2.76379E-11 | 84186 | ZCCHC7 |
| 0.019090683 | 2.76467E-11 | 80149 | ZC3H12A |
| 0.019083777 | 2.81034E-11 | 3911 | LAMA5 |
| 0.019077734 | 2.85091E-11 | 1593 | CYP27A1 |
| 0.019066909 | 2.92503E-11 | 57497 | LRFN2 |
| 0.019056304 | 2.99946E-11 | 80131 | LRRC8E |

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| 0.045753548 | 0.50931891 | 0.696 | 1 | 8354 | HIST1H3I |
| 0.045725041 | 0.509583028 | 0.697 | 1 | 64754 | SMYD3 |
| 0.045708196 | 0.509739131 | 0.704 | 1 | 10637 | LEFTY1 |
| 0.045585096 | 0.510880639 | 0.728 | 1 | 64377 | CHST8 |
| 0.045581209 | 0.510916708 | 0.682 | 1 | 51809 | GALNT7 |
| 0.045512532 | 0.511554149 | 0.695 | 1 | 51602 | NOP58 |
| 0.045482729 | 0.511830903 | 0.669 | 1 | 5224 | PGAM2 |
| 0.045375179 | 0.51283027 | 0.67 | 1 | 57556 | SEMA6A |
| 0.045298727 | 0.513541277 | 0.662 | 1 | 147872 | CCDC155 |
| 0.045114726 | 0.515254606 | 0.699 | 1 | 55968 | NSFL1C |
| 0.045100472 | 0.515387451 | 0.694 | 1 | 23366 | KIAA0895 |
| 0.045069373 | 0.515677358 | 0.693 | 1 | 55230 | USP40 |
| 0.045025316 | 0.516088203 | 0.708 | 1 | 9348 | NDST3 |
| 0.044961823 | 0.5166806 | 0.691 | 1 | 574 | BAGE |
| 0.044946273 | 0.51682573 | 0.691 | 1 | 55274 | PHF10 |
| 0.044895738 | 0.517297548 | 0.719 | 1 | 6526 | SLC5A3 |
| 0.044859456 | 0.517636426 | 0.708 | 1 | 84826 | SFT2D3 |
| 0.044806329 | 0.518132846 | 0.713 | 1 | 337976 | KRTAP20-2 |
| 0.044781709 | 0.518362977 | 0.689 | 1 | 389558 | FAM180A |
| 0.044744131 | 0.518714332 | 0.705 | 1 | 253559 | CADM2 |
| 0.044719511 | 0.518944596 | 0.686 | 1 | 127687 | C1orf122 |
| 0.044705257 | 0.519077931 | 0.697 | 1 | 64951 | MRPS24 |
| 0.044615848 | 0.519914704 | 0.693 | 1 | 259197 | NCR3 |
| 0.044521256 | 0.520800739 | 0.684 | 1 | 5584 | PRKCI |
| 0.044517368 | 0.520837168 | 0.697 | 1 | 84749 | USP30 |
| 0.044509594 | 0.52091003 | 0.721 | 1 | 22861 | AC055839.1 |
| 0.04448627 | 0.521128647 | 0.686 | 1 | 3988 | LIPA |
| 0.044442213 | 0.521541717 | 0.696 | 1 | 3043 | HBB |
| 0.044433142 | 0.521626782 | 0.712 | 1 | 84639 | IL1F10 |
| 0.044385198 | 0.522076528 | 0.704 | 1 | 10266 | RAMP2 |
| 0.044306155 | 0.522818434 | 0.707 | 1 | 4048 | LTA4H |
| 0.044272465 | 0.52313482 | 0.707 | 1 | 442720 | EIF3IP1 |
| 0.044259507 | 0.523256532 | 0.71 | 1 | 257364 | SNX33 |
| 0.044188239 | 0.523926211 | 0.718 | 1 | 79711 | IPO4 |
| 0.04412345 | 0.524535389 | 0.665 | 1 | 54830 | NUP62CL |
| 0.044120858 | 0.524559764 | 0.691 | 1 | 153527 | ZMAT2 |
| 0.044118266 | 0.524584139 | 0.723 | 1 | 8468 | FKBP6 |
| 0.044092351 | 0.524827923 | 0.708 | 1 | 4832 | NME3 |
| 0.044069027 | 0.525047377 | 0.695 | 1 | 25816 | TNFAIP8 |
| 0.044067731 | 0.525059571 | 0.713 | 1 | 256536 | TCERG1L |
| 0.044061252 | 0.525120539 | 0.728 | 1 | 2632 | GBE1 |
| 0.043999054 | 0.525706022 | 0.716 | 1 | 5774 | PTPN3 |
| 0.043859109 | 0.527024569 | 0.717 | 1 | 27125 | AFF4 |
| 0.043859109 | 0.527024569 | 0.721 | 1 | 57469 | PNMAL2 |
| 0.043834489 | 0.527256709 | 0.69 | 1 | 23119 | HIC2 |
| 0.043830602 | 0.527293368 | 0.695 | 1 | 151647 | FAM19A4 |
| 0.04377877 | 0.527782271 | 0.701 | 1 | 7107 | GPR137B |
| 0.043767108 | 0.527892306 | 0.701 | 1 | 84662 | GLIS2 |
| 0.043729531 | 0.528246942 | 0.714 | 1 | 728532 | LOC728532 |
| 0.043725643 | 0.528283635 | 0.738 | 1 | 65981 | CAPRIN2 |
| 0.043724347 | 0.528295866 | 0.722 | 1 | 8508 | NIPSNAP1 |
| 0.043701023 | 0.528516056 | 0.684 | 1 | 54868 | TMEM104 |
| 0.043656967 | 0.528932097 | 0.713 | 1 | 339122 | RAB43 |
| 0.043631051 | 0.529176904 | 0.732 | 1 | 3981 | LIG4 |
| 0.043479444 | 0.530610175 | 0.74 | 1 | 3617 | IMPG1 |
| 0.043471669 | 0.530683729 | 0.732 | 1 | 719 | C3AR1 |
| 0.043404288 | 0.531321411 | 0.703 | 1 | 10919 | EHMT2 |
| 0.043342091 | 0.531910383 | 0.703 | 1 | 26999 | CYFIP2 |
| 0.043320062 | 0.532119057 | 0.722 | 1 | 4325 | MMP16 |
| 0.043317471 | 0.532143609 | 0.715 | 1 | 54432 | YIPF1 |
| 0.043231949 | 0.532954162 | 0.714 | 1 | 54979 | HRASLS2 |
| 0.043224174 | 0.533027879 | 0.718 | 1 | 84966 | IGSF21 |
| 0.043185301 | 0.533396543 | 0.709 | 1 | 123264 | AC013553.1 |
| 0.043156793 | 0.533666978 | 0.723 | 1 | 494470 | RNF165 |
| 0.043137357 | 0.533851405 | 0.715 | 1 | 2155 | F7 |
| 0.043057018 | 0.534614043 | 0.71 | 1 | 6468 | FBXW4 |
| 0.043005186 | 0.535106357 | 0.696 | 1 | 81688 | C6orf62 |
| 0.043003891 | 0.535118668 | 0.719 | 1 | 6950 | TCP1 |
| 0.042990933 | 0.535241783 | 0.719 | 1 | 64145 | ZFYVE20 |
| 0.042963721 | 0.535500372 | 0.705 | 1 | 346606 | MOGAT3 |
| 0.042942989 | 0.535697434 | 0.713 | 1 | 2840 | GPR17 |
| 0.042933918 | 0.53578366 | 0.705 | 1 | 11274 | USP18 |
| 0.042926143 | 0.535857574 | 0.696 | 1 | 1298 | COL9A2 |
| 0.042906707 | 0.53604238 | 0.725 | 1 | 57551 | TAOK1 |
| 0.042889861 | 0.536202571 | 0.718 | 1 | 84186 | ZCCHC7 |
| 0.042874312 | 0.536350462 | 0.692 | 1 | 116935 | RPL3P2 |
| 0.042870425 | 0.536387437 | 0.707 | 1 | 23148 | NACAD |
| 0.042768058 | 0.53736159 | 0.708 | 1 | 130162 | C2orf63 |
| 0.042762874 | 0.537410938 | 0.72 | 1 | 7478 | WNT8A |
| 0.042659212 | 0.538398367 | 0.713 | 1 | 646817 | SETP18 |
| 0.042654028 | 0.538447762 | 0.734 | 1 | 341405 | ANKRD33 |
| 0.042599605 | 0.538966549 | 0.698 | 1 | 9002 | F2RL3 |

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| 0.019048143 | 3.05801E-11 | 54470 | ARMCX6 |
| 0.019039317 | 3.12258E-11 | 25854 | FAM149A |
| 0.019031311 | 3.1823E-11 | 85013 | TMEM128 |
| 0.019029479 | 3.19613E-11 | 26175 | C14orf109 |
| 0.019014548 | 3.311E-11 | 2168 | FABP1 |
| 0.019009449 | 3.35115E-11 | 81844 | TRIM56 |
| 0.019008259 | 3.36059E-11 | 338382 | RAB7B |
| 0.018999755 | 3.4288E-11 | 50485 | SMARCAL1 |
| 0.018988917 | 3.51769E-11 | 223075 | CCDC129 |
| 0.018973571 | 3.64743E-11 | 547 | KIF1A |
| 0.018963527 | 3.73486E-11 | 58517 | RBM25 |
| 0.018960918 | 3.75791E-11 | 54840 | APTX |
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| 0.018959221 | 4.16798E-11 | 100131138 | AC002351.1 |
| 0.018944967 | 3.90186E-11 | 64834 | ELOVL1 |
| 0.018944158 | 3.9093E-11 | 256471 | MFSD8 |
| 0.018930313 | 4.03885E-11 | 4201 | MEA1 |
| 0.018929937 | 4.04243E-11 | 348021 | LINC00442 |
| 0.018920685 | 4.13142E-11 | 3761 | KCNJ4 |
| 0.018900763 | 4.32957E-11 | 11221 | DUSP10 |
| 0.018891174 | 4.42824E-11 | 6447 | SCG5 |
| 0.018876218 | 4.58654E-11 | 23542 | MAPK8IP2 |
| 0.018873974 | 4.61077E-11 | 148066 | ZNRF4 |
| 0.018867738 | 4.67874E-11 | 885 | CCK |
| 0.018856066 | 4.80861E-11 | 521 | ATP5I |
| 0.018852655 | 4.84723E-11 | 286514 | MAGEB18 |
| 0.018841284 | 4.97816E-11 | 10810 | WASF3 |
| 0.018836214 | 5.03765E-11 | 5532 | PPP3CB |
| 0.018828194 | 5.13318E-11 | 7693 | ZNF134 |
| 0.018820861 | 5.22208E-11 | 130576 | LYPD6B |
| 0.018811327 | 5.33991E-11 | 6834 | SURF1 |
| 0.018801094 | 5.46927E-11 | 23315 | SLC9A8 |
| 0.018795475 | 5.54159E-11 | 2353 | FOS |
| 0.01878131 | 5.72812E-11 | 611 | OPN1SW |
| 0.01878047 | 5.73937E-11 | 146691 | TOM1L2 |
| 0.018779871 | 5.7474E-11 | 9287 | TAAR2 |
| 0.01876457 | 5.95647E-11 | 148362 | BROX |
| 0.018723027 | 6.56233E-11 | 79839 | CCDC102B |
| 0.018709984 | 6.76469E-11 | 84002 | B3GNT5 |
| 0.018703104 | 6.87388E-11 | 10868 | USP20 |
| 0.018691771 | 7.0575E-11 | 598 | BCL2L1 |
| 0.018680026 | 7.25286E-11 | 10735 | STAG2 |
| 0.018678499 | 7.27865E-11 | 114824 | PNMA5 |
| 0.018677914 | 7.28854E-11 | 23371 | TENC1 |
| 0.018675545 | 7.32877E-11 | 256435 | ST6GALNAC3 |
| 0.01867446 | 7.34728E-11 | 131055 | LOC131055 |
| 0.018661792 | 7.56667E-11 | 5691 | PSMB3 |
| 0.018651641 | 7.74711E-11 | 4885 | NPTX2 |
| 0.018644083 | 7.88415E-11 | 10485 | C1orf61 |
| 0.018632422 | 8.10029E-11 | 55176 | SEC61A2 |
| 0.018621215 | 8.31344E-11 | 148 | ADRA1A |
| 0.018600788 | 8.71618E-11 | 93107 | KCNG4 |
| 0.018591064 | 8.91454E-11 | 221935 | SDK1 |
| 0.018585631 | 9.02727E-11 | 113178 | SCAMP4 |
| 0.018582619 | 9.09038E-11 | 81542 | TMX1 |
| 0.018580652 | 9.13182E-11 | 285600 | C5orf36 |
| 0.018579198 | 9.16258E-11 | 55003 | PAK1IP1 |
| 0.018571421 | 9.32879E-11 | 1174 | AP1S1 |
| 0.018555413 | 9.68025E-11 | 8436 | SDPR |
| 0.018534899 | 1.01496E-10 | 442721 | LMOD2 |
| 0.018497857 | 1.10541E-10 | 51272 | BET1L |
| 0.018452322 | 1.22744E-10 | 7979 | SHFM1 |
| 0.01843327 | 1.28232E-10 | 79152 | FA2H |
| 0.018421381 | 1.31778E-10 | 65251 | ZNF649 |
| 0.018418374 | 1.3269E-10 | 64207 | C14orf4 |
| 0.018417842 | 1.32852E-10 | 100288367 | LOC100288367 |
| 0.01841668 | 1.33206E-10 | 729614 | RP11-169K16.9 |
| 0.01840246 | 1.37619E-10 | 4163 | MCC |
| 0.018398889 | 1.38749E-10 | 6945 | MLX |
| 0.018373394 | 1.47088E-10 | 3834 | KIF25 |
| 0.018366201 | 1.49528E-10 | 196385 | DNAH10 |
| 0.018319248 | 1.66454E-10 | 26168 | SENP3 |
| 0.018318199 | 1.66853E-10 | 5455 | POU3F3 |
| 0.018315801 | 1.67768E-10 | 1488 | CTBP2 |
| 0.018304428 | 1.72175E-10 | 143872 | AP000872.1 |
| 0.018293606 | 1.76474E-10 | 23550 | PSD4 |
| 0.0182901 | 1.77888E-10 | 56097 | PCDHGC5 |
| 0.018284399 | 1.80213E-10 | 29994 | BAZ2B |
| 0.01827281 | 1.8503E-10 | 10960 | LMAN2 |
| 0.018267002 | 1.87492E-10 | 4851 | NOTCH1 |
| 0.018255843 | 1.92311E-10 | 4045 | LSAMP |
| 0.018227881 | 2.04924E-10 | 4034 | LRCH4 |

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| 0.042494647 | 0.539967768 | 0.677 | 1 | 9045 | RPL14 |
| 0.042424674 | 0.540635761 | 0.733 | 1 | 29087 | THYN1 |
| 0.042371547 | 0.541143216 | 0.685 | 1 | 441032 | EEF1A1P9 |
| 0.0421707 | 0.543063777 | 0.734 | 1 | 441177 | LINC00602 |
| 0.042122756 | 0.543522732 | 0.726 | 1 | 5361 | PLXNA1 |
| 0.042086474 | 0.543870177 | 0.7 | 1 | 353131 | LCE1A |
| 0.042077404 | 0.543957056 | 0.723 | 1 | 432369 | ATP5EP2 |
| 0.042070925 | 0.544019116 | 0.723 | 1 | 161502 | C15orf26 |
| 0.041836388 | 0.546268051 | 0.719 | 1 | 8529 | CYP4F2 |
| 0.041734021 | 0.547251064 | 0.686 | 1 | 55151 | TMEM38B |
| 0.041727542 | 0.54731331 | 0.738 | 1 | 2294 | FOXF1 |
| 0.041711992 | 0.547462713 | 0.711 | 1 | 53 | ACP2 |
| 0.04170033 | 0.547574778 | 0.723 | 1 | 163720 | CYP4Z2P |
| 0.041683485 | 0.54773667 | 0.711 | 1 | 23627 | PRND |
| 0.041653682 | 0.548023153 | 0.741 | 1 | 1742 | DLG4 |
| 0.041640724 | 0.548147733 | 0.706 | 1 | 154150 | HDGFL1 |
| 0.041613512 | 0.548409397 | 0.751 | 1 | 116983 | ACAP3 |
| 0.041559089 | 0.54893291 | 0.754 | 1 | 84203 | TXNDC2 |
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| 0.016737758 | 5.28957E-09 | 1576 | CYP3A4 |
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| 0.016733128 | 5.34108E-09 | 81554 | WBSCR16 |
| 0.016703354 | 5.68412E-09 | 4854 | NOTCH3 |
| 0.016702336 | 5.69622E-09 | 57579 | FAM135A |
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| 0.035770814 | 0.605968191 | 0.779 | 1 | 54629 | FAM63B |
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| 0.035396332 | 0.609747329 | 0.755 | 1 | 221935 | SDK1 |
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| 0.034651255 | 0.617297166 | 0.756 | 1 | 26512 | INTS6 |
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| 0.034500944 | 0.618825186 | 0.751 | 1 | 53947 | A4GALT |
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| 0.03440376 | 0.619814004 | 0.792 | 1 | 51070 | NOSIP |
| 0.03437007 | 0.620156954 | 0.763 | 1 | 4089 | SMAD4 |
| 0.034276773 | 0.621107091 | 0.77 | 1 | 51098 | IFT52 |
| 0.034272886 | 0.621146693 | 0.768 | 1 | 3817 | KLK2 |
| 0.034217167 | 0.621714451 | 0.78 | 1 | 2589 | GALNT1 |
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| 0.016663874 | 6.17222E-09 | 51232 | CRIM1 |
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| 0.016258842 | 1.42184E-08 | 7141 | TNP1 |
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| 0.015996494 | 2.41593E-08 | 259232 | NALCN |
| 0.015994476 | 2.42573E-08 | 26580 | BSCL2 |
| 0.01597427 | 2.52595E-08 | 5301 | PIN1P1 |
| 0.015971163 | 2.54172E-08 | 401551 | WDR38 |
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| 0.03382584 | 0.625708258 | 0.761 | 1 | 497190 | CLEC18B |
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| 0.033784375 | 0.626132086 | 0.786 | 1 | 25894 | PLEKHG4 |
| 0.033783079 | 0.626145333 | 0.765 | 1 | 84466 | MEGF10 |
| 0.033755867 | 0.62642354 | 0.774 | 1 | 8971 | H1FX |
| 0.033748093 | 0.626503037 | 0.777 | 1 | 85481 | PSKH2 |
| 0.033623697 | 0.62777558 | 0.795 | 1 | 50619 | DEF6 |
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| 0.03274645 | 0.636780762 | 0.77 | 1 | 445347 | TARP |
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| 0.032571519 | 0.638582933 | 0.78 | 1 | 144100 | PLEKHA7 |
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| 0.03247304 | 0.639598424 | 0.775 | 1 | 445329 | SULT1A4 |
| 0.032422504 | 0.640119793 | 0.784 | 1 | 326 | AIRE |
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| 0.03239918 | 0.640360484 | 0.789 | 1 | 55788 | LMBRD1 |
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| 0.032206108 | 0.642354315 | 0.783 | 1 | 150737 | TTC30B |
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| 0.032003965 | 0.644444566 | 0.79 | 1 | 401250 | MCCD1 |
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| 0.031856246 | 0.645973829 | 0.799 | 1 | 27343 | POLL |
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| 0.031402721 | 0.650678215 | 0.807 | 1 | 8776 | MTMR1 |
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| 0.015771514 | 3.78187E-08 | 9489 | PGS1 |
| 0.015743983 | 3.9934E-08 | 646890 | LOC646890 |
| 0.015740685 | 4.0195E-08 | 116238 | TLCD1 |
| 0.015727216 | 4.12781E-08 | 6480 | ST6GAL1 |
| 0.015718909 | 4.19601E-08 | 23546 | SYNGR4 |
| 0.01569639 | 4.38645E-08 | 6938 | TCF12 |
| 0.015675594 | 4.56974E-08 | 80271 | ITPKC |
| 0.015668947 | 4.62987E-08 | 56675 | NRIP3 |
| 0.015661806 | 4.69533E-08 | 1158 | CKM |
| 0.015631873 | 4.97961E-08 | 8878 | SQSTM1 |
| 0.015606673 | 5.44719E-08 | 57664 | PLEKHA4 |
| 0.015596754 | 5.33444E-08 | 79023 | NUP37 |
| 0.015596551 | 5.33656E-08 | 100130331 | RP11-193H5.1 |
| 0.01559438 | 5.35929E-08 | 85285 | KRTAP4-1 |
| 0.015583534 | 5.47425E-08 | 6890 | TAP1 |
| 0.015578342 | 5.53013E-08 | 53833 | IL20RB |
| 0.015521444 | 6.17986E-08 | 5341 | PLEK |
| 0.015521301 | 6.18159E-08 | 51102 | MECR |
| 0.015479855 | 6.70095E-08 | 441864 | TARM1 |
| 0.015470246 | 6.82727E-08 | 57472 | CNOT6 |
| 0.015463214 | 6.92117E-08 | 348645 | C22orf34 |
| 0.015443816 | 7.18672E-08 | 80256 | KIAA1539 |
| 0.015442794 | 7.20098E-08 | 55020 | TTC38 |
| 0.015414089 | 7.61293E-08 | 3887 | KRT81 |
| 0.015361438 | 8.4286E-08 | 391 | RHOG |
| 0.015354748 | 8.53811E-08 | 7041 | TGFB1I1 |
| 0.015338157 | 8.81568E-08 | 117289 | TAGAP |
| 0.015320616 | 9.11865E-08 | 56949 | XAB2 |
| 0.015316047 | 9.1992E-08 | 26227 | PHGDH |
| 0.015309954 | 9.3077E-08 | 3091 | HIF1A |
| 0.015302025 | 9.45075E-08 | 619208 | C6orf225 |
| 0.015297526 | 9.53285E-08 | 8295 | TRRAP |
| 0.01529274 | 9.62095E-08 | 7803 | PTP4A1 |
| 0.015291776 | 9.63879E-08 | 79611 | ACSS3 |
| 0.015280886 | 9.84258E-08 | 3955 | LFNG |
| 0.01527775 | 9.90204E-08 | 26493 | OR8B8 |
| 0.015276261 | 9.93039E-08 | 255027 | MPV17L |
| 0.015276023 | 9.93492E-08 | 1841 | DTYMK |
| 0.015253423 | 1.03752E-07 | 145482 | PTGR2 |
| 0.015252933 | 1.0385E-07 | 100288570 | AC108938.1 |
| 0.015251222 | 1.04191E-07 | 1499 | CTNNB1 |
| 0.015243315 | 1.05782E-07 | 523 | ATP6V1A |
| 0.015232563 | 1.07983E-07 | 100288870 | ERLEC1P1 |
| 0.015215432 | 1.11582E-07 | 1051 | CEBPB |
| 0.015210113 | 1.12723E-07 | 56649 | TMPRSS4 |
| 0.015204748 | 1.13885E-07 | 933 | CD22 |
| 0.015197473 | 1.15479E-07 | 4863 | NPAT |
| 0.015182065 | 1.18928E-07 | 2246 | FGF1 |
| 0.015172642 | 1.21086E-07 | 5411 | PNN |
| 0.015146699 | 1.27224E-07 | 9967 | THRAP3 |
| 0.015134698 | 1.30165E-07 | 100129566 | LOC100129566 |
| 0.015109657 | 1.36514E-07 | 1213 | CLTC |
| 0.015100684 | 1.38861E-07 | 114036 | LINC00310 |
| 0.01509742 | 1.39724E-07 | 117143 | TADA1L |
| 0.015096881 | 1.39867E-07 | 157753 | TMEM74 |
| 0.015085033 | 1.43048E-07 | 26088 | GGA1 |
| 0.015070668 | 1.46999E-07 | 10973 | ASCC3 |
| 0.015053823 | 1.51767E-07 | 161725 | OTUD7A |
| 0.015033071 | 1.57846E-07 | 388595 | TMEM82 |
| 0.015023215 | 1.60815E-07 | 1436 | CSF1R |
| 0.015021254 | 1.61412E-07 | 57634 | EP400 |
| 0.015020468 | 1.61652E-07 | 57666 | FBRSL1 |
| 0.014998622 | 1.6846E-07 | 79586 | CHPF |
| 0.014994755 | 1.69694E-07 | 118471 | PRAP1 |
| 0.014969535 | 1.77957E-07 | 84283 | TMEM79 |
| 0.014947205 | 1.85597E-07 | 56000 | NXF3 |
| 0.014927666 | 1.92542E-07 | 10581 | IFITM2 |
| 0.014927053 | 1.92763E-07 | 9618 | TRAF4 |

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| 0.031350889 | 0.651216746 | 0.805 | 1 | 147645 | AC063977.1 |
| 0.03133534 | 0.651378341 | 0.772 | 1 | 9580 | SOX13 |
| 0.031313311 | 0.651607295 | 0.787 | 1 | 514 | ATP5E |
| 0.031234268 | 0.652429103 | 0.815 | 1 | 5626 | PROP1 |
| 0.031186324 | 0.652927781 | 0.794 | 1 | 9984 | THOC1 |
| 0.03115393 | 0.653264814 | 0.787 | 1 | 10521 | DDX17 |
| 0.03112931 | 0.653521005 | 0.796 | 1 | 3852 | KRT5 |
| 0.031116352 | 0.653655859 | 0.8 | 1 | 146310 | RNF151 |
| 0.031112464 | 0.653696318 | 0.791 | 1 | 84623 | KIRREL3 |
| 0.031095619 | 0.653871649 | 0.809 | 1 | 7247 | TSN |
| 0.031087845 | 0.653952578 | 0.792 | 1 | 58473 | PLEKHB1 |
| 0.031082661 | 0.654006532 | 0.79 | 1 | 3192 | HNRNPU |
| 0.031081366 | 0.654020021 | 0.802 | 1 | 2053 | EPHX2 |
| 0.031074887 | 0.654087468 | 0.786 | 1 | 117143 | TADA1L |
| 0.031065816 | 0.654181897 | 0.802 | 1 | 79867 | TCTN2 |
| 0.031025647 | 0.654600152 | 0.778 | 1 | 23658 | LSM5 |
| 0.030978999 | 0.655086002 | 0.797 | 1 | 79869 | CPSF7 |
| 0.030966041 | 0.655220987 | 0.809 | 1 | 84140 | FAM161A |
| 0.030951787 | 0.655369482 | 0.793 | 1 | 7141 | TNP1 |
| 0.030950491 | 0.655382983 | 0.771 | 1 | 752 | FMNL1 |
| 0.030881815 | 0.656098657 | 0.763 | 1 | 1644 | DDC |
| 0.030877927 | 0.656139177 | 0.791 | 1 | 7358 | UGDH |
| 0.030744461 | 0.657530948 | 0.777 | 1 | 10234 | LRRC17 |
| 0.030743166 | 0.657544467 | 0.78 | 1 | 55696 | RBM22 |
| 0.030737982 | 0.65759854 | 0.807 | 1 | 5888 | RAD51 |
| 0.030721137 | 0.657774292 | 0.786 | 1 | 338674 | OR5F1 |
| 0.030718546 | 0.657801332 | 0.801 | 1 | 64129 | TINAGL1 |
| 0.030704292 | 0.657950063 | 0.796 | 1 | 56931 | DUS3L |
| 0.030683559 | 0.658166422 | 0.807 | 1 | 7975 | MAFK |
| 0.030662827 | 0.658382809 | 0.814 | 1 | 7037 | TFRC |
| 0.030630432 | 0.658720971 | 0.788 | 1 | 219938 | SPATA19 |
| 0.030620066 | 0.658829198 | 0.807 | 1 | 51533 | PHF7 |
| 0.030574713 | 0.659302773 | 0.797 | 1 | 8941 | CDK5R2 |
| 0.030574713 | 0.659302773 | 0.834 | 1 | 9853 | RUSC2 |
| 0.030551389 | 0.659546379 | 0.791 | 1 | 386724 | AMIGO3 |
| 0.030524178 | 0.659830631 | 0.789 | 1 | 8499 | PPFIA2 |
| 0.030513811 | 0.65993893 | 0.804 | 1 | 103 | ADAR |
| 0.030509924 | 0.659979544 | 0.778 | 1 | 55248 | TMEM206 |
| 0.03038812 | 0.661252623 | 0.78 | 1 | 9705 | ST18 |
| 0.030375162 | 0.661388114 | 0.793 | 1 | 338596 | ST8SIA6 |
| 0.030312965 | 0.662038626 | 0.814 | 1 | 2645 | GCK |
| 0.030302598 | 0.66214707 | 0.802 | 1 | 2853 | GPR31 |
| 0.030215781 | 0.663055559 | 0.799 | 1 | 4907 | NT5E |
| 0.030103047 | 0.664235976 | 0.784 | 1 | 339416 | ANKRD45 |
| 0.030083611 | 0.664439579 | 0.804 | 1 | 9156 | EXO1 |
| 0.030035667 | 0.664941908 | 0.798 | 1 | 83444 | INO80B |
| 0.030003272 | 0.665281403 | 0.793 | 1 | 5833 | PCYT2 |
| 0.029987722 | 0.665444386 | 0.798 | 1 | 154796 | AMOT |
| 0.029969581 | 0.665634551 | 0.804 | 1 | 7681 | MKRN3 |
| 0.029916454 | 0.666191588 | 0.823 | 1 | 6418 | SET |
| 0.029889243 | 0.666476971 | 0.81 | 1 | 1392 | CRH |
| 0.029889243 | 0.666476971 | 0.821 | 1 | 65988 | ZNF747 |
| 0.029727269 | 0.668176669 | 0.798 | 1 | 4681 | NBL1 |
| 0.029713016 | 0.668326324 | 0.822 | 1 | 220070 | SHANK2-AS3 |
| 0.029713016 | 0.668326324 | 0.792 | 1 | 285489 | DOK7 |
| 0.029650818 | 0.668979516 | 0.796 | 1 | 55177 | FAM82A2 |
| 0.029630086 | 0.669197302 | 0.807 | 1 | 55778 | ZNF839 |
| 0.029610649 | 0.669401501 | 0.829 | 1 | 139760 | GPR119 |
| 0.029504394 | 0.670518221 | 0.796 | 1 | 140290 | TCP10L |
| 0.029474591 | 0.670831578 | 0.808 | 1 | 25977 | NECAP1 |
| 0.029402027 | 0.671594771 | 0.795 | 1 | 51198 | C9orf53 |
| 0.029374816 | 0.671881055 | 0.799 | 1 | 150776 | AC093838.4 |
| 0.029341125 | 0.672235568 | 0.823 | 1 | 84084 | RAB6C |
| 0.029330759 | 0.672344663 | 0.812 | 1 | 25942 | SIN3A |
| 0.029294477 | 0.672726552 | 0.824 | 1 | 23318 | ZCCHC11 |
| 0.029256899 | 0.673122167 | 0.808 | 1 | 79589 | RNF128 |
| 0.029243941 | 0.673258607 | 0.806 | 1 | 2960 | GTF2E1 |
| 0.029232279 | 0.673381412 | 0.79 | 1 | 54991 | C1orf159 |
| 0.029223209 | 0.673476933 | 0.809 | 1 | 29065 | ASAP1-IT1 |
| 0.029221913 | 0.67349058 | 0.804 | 1 | 6921 | TCEB1 |
| 0.02921673 | 0.673545166 | 0.762 | 1 | 9355 | LHX2 |
| 0.029172673 | 0.674009218 | 0.805 | 1 | 100129543 | ZNF730 |
| 0.029163603 | 0.674104774 | 0.821 | 1 | 643637 | GLYATL1P4 |
| 0.029137687 | 0.674377818 | 0.796 | 1 | 348094 | ANKDD1A |
| 0.029101405 | 0.674760152 | 0.782 | 1 | 203427 | SLC25A43 |
| 0.02908456 | 0.674937693 | 0.8 | 1 | 5619 | PRM1 |
| 0.029045686 | 0.67534747 | 0.796 | 1 | 126668 | TDRD10 |
| 0.029014587 | 0.675675362 | 0.79 | 1 | 7291 | TWIST1 |
| 0.028983488 | 0.676003314 | 0.802 | 1 | 80045 | GPR157 |
| 0.028932953 | 0.676536367 | 0.814 | 1 | 84456 | L3MBTL3 |
| 0.028929065 | 0.676577377 | 0.799 | 1 | 79776 | ZFHX4 |
| 0.028883713 | 0.677055907 | 0.783 | 1 | 645369 | AP005433.1 |

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| 0.014879598 | 2.10711E-07 | 28978 | TMEM14A |
| 0.014876898 | 2.1178E-07 | 93974 | ATPIF1 |
| 0.014873475 | 2.13141E-07 | 6204 | RPS10 |
| 0.014867032 | 2.15728E-07 | 11101 | ATE1 |
| 0.014863694 | 2.1708E-07 | 9122 | SLC16A4 |
| 0.014845654 | 2.24529E-07 | 286238 | LOC286238 |
| 0.014845398 | 2.24636E-07 | 440278 | CATSPER2P1 |
| 0.014835514 | 2.28824E-07 | 55004 | C11orf59 |
| 0.01483282 | 2.29978E-07 | 91975 | ZNF300 |
| 0.014808797 | 2.40523E-07 | 10422 | UBAC1 |
| 0.014808029 | 2.40868E-07 | 6595 | SMARCA2 |
| 0.014783375 | 2.5219E-07 | 286827 | TRIM59 |
| 0.014782545 | 2.5258E-07 | 167410 | LIX1 |
| 0.014767562 | 2.59722E-07 | 23351 | KIAA0323 |
| 0.014758951 | 2.63914E-07 | 201254 | STRA13 |
| 0.014756781 | 2.6498E-07 | 84905 | ZNF341 |
| 0.014751795 | 2.67447E-07 | 170959 | ZNF431 |
| 0.014743842 | 2.71428E-07 | 91151 | TIGD7 |
| 0.014739119 | 2.73818E-07 | 84570 | COL25A1 |
| 0.014733036 | 2.76928E-07 | 149685 | ADIG |
| 0.014728058 | 2.79498E-07 | 51626 | DYNC2LI1 |
| 0.014705853 | 2.91244E-07 | 7372 | UMPS |
| 0.014694122 | 2.97641E-07 | 4502 | MT2A |
| 0.014693115 | 2.98196E-07 | 1315 | COPB1 |
| 0.014683689 | 3.03444E-07 | 6495 | SIX1 |
| 0.014676707 | 3.07388E-07 | 2923 | PDIA3 |
| 0.014669471 | 3.11528E-07 | 678 | ZFP36L2 |
| 0.014652597 | 3.21392E-07 | 10345 | TRDN |
| 0.014644211 | 3.26406E-07 | 22992 | KDM2A |
| 0.014633591 | 3.32864E-07 | 161291 | TMEM30B |
| 0.014624962 | 3.38202E-07 | 54554 | WDR5B |
| 0.014624863 | 3.38263E-07 | 84775 | ZNF607 |
| 0.014620967 | 3.407E-07 | 6698 | SPRR1A |
| 0.014602342 | 3.52589E-07 | 10641 | TUSC4 |
| 0.014601038 | 3.53437E-07 | 221143 | N6AMT2 |
| 0.014590123 | 3.60605E-07 | 7083 | TK1 |
| 0.014574518 | 3.71099E-07 | 9637 | FEZ2 |
| 0.014564248 | 3.78165E-07 | 83873 | GPR61 |
| 0.014556191 | 3.83799E-07 | 8344 | HIST1H2BE |
| 0.014555323 | 3.84411E-07 | 6531 | SLC6A3 |
| 0.014545716 | 3.91245E-07 | 286103 | C8ORF77 |
| 0.0145397 | 3.95584E-07 | 653319 | KIAA0895L |
| 0.01453357 | 4.00054E-07 | 4758 | NEU1 |
| 0.014530928 | 4.29887E-07 | 901 | CCNG2 |
| 0.014526572 | 4.05215E-07 | 27111 | SDCBP2 |
| 0.014519762 | 4.103E-07 | 27248 | C2orf30 |
| 0.014509055 | 4.18419E-07 | 54434 | SSH1 |
| 0.014505489 | 4.21157E-07 | 133482 | SLCO6A1 |
| 0.014498287 | 4.26741E-07 | 51214 | IGF2AS |
| 0.014487159 | 4.35508E-07 | 259282 | BOD1L |
| 0.014476585 | 4.44001E-07 | 64773 | FAM113A |
| 0.014444757 | 4.70536E-07 | 55349 | CHDH |
| 0.014444501 | 4.70756E-07 | 641702 | FAM138E |
| 0.014428701 | 4.84496E-07 | 390259 | BSX |
| 0.014422023 | 4.9042E-07 | 22882 | ZHX2 |
| 0.014419957 | 4.92267E-07 | 84632 | AFAP1L2 |
| 0.014415555 | 4.96223E-07 | 344967 | AC098591.2 |
| 0.014412326 | 4.99145E-07 | 7186 | TRAF2 |
| 0.014396837 | 5.13394E-07 | 80726 | KIAA1683 |
| 0.014378186 | 5.31072E-07 | 80350 | LPAL2 |
| 0.014365087 | 5.43838E-07 | 54875 | CNTLN |
| 0.014357749 | 5.51118E-07 | 822 | CAPG |
| 0.014357079 | 5.51786E-07 | 57184 | C15orf17 |
| 0.014335086 | 5.74198E-07 | 2516 | NR5A1 |
| 0.014325263 | 5.8449E-07 | 64849 | SLC13A3 |
| 0.014313028 | 5.97557E-07 | 10042 | HMGXB4 |
| 0.014310995 | 5.99755E-07 | 153396 | TMEM161B |
| 0.014302827 | 6.08667E-07 | 64418 | TMEM168 |
| 0.014294882 | 6.17457E-07 | 9074 | CLDN6 |
| 0.014282644 | 6.31237E-07 | 400745 | SH2D5 |
| 0.014277673 | 6.36919E-07 | 390282 | LOC390282 |
| 0.014276923 | 6.3778E-07 | 55578 | FAM48A |
| 0.014272347 | 6.4306E-07 | 6925 | TCF4 |
| 0.014254586 | 6.63957E-07 | 10400 | PEMT |
| 0.014237421 | 6.84775E-07 | 5110 | PCMT1 |
| 0.01423181 | 6.91715E-07 | 5531 | PPP4C |
| 0.014217669 | 7.09508E-07 | 7167 | TPI1 |
| 0.014211999 | 7.16766E-07 | 63928 | AC130454.1 |
| 0.01420435 | 7.26669E-07 | 1384 | CRAT |
| 0.014203158 | 7.28224E-07 | 711 | ERC2-IT1 |
| 0.014202906 | 7.28554E-07 | 29968 | PSAT1 |
| 0.014177477 | 7.6252E-07 | 84080 | C16orf48 |

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| 0.028866868 | 0.677233679 | 0.798 | 1 | 482 | ATP1B2 |
| 0.028856501 | 0.677343087 | 0.807 | 1 | 51282 | SCAND1 |
| 0.028789121 | 0.678054399 | 0.805 | 1 | 92291 | CAPN13 |
| 0.028787825 | 0.678068081 | 0.806 | 1 | 26284 | ERAL1 |
| 0.028750247 | 0.678464902 | 0.814 | 1 | 4992 | OR1F1 |
| 0.028739881 | 0.678574385 | 0.821 | 1 | 283991 | FAM100B |
| 0.028677683 | 0.679231427 | 0.822 | 1 | 7263 | TST |
| 0.028675091 | 0.679258809 | 0.811 | 1 | 280660 | SSX9 |
| 0.028673796 | 0.6792725 | 0.802 | 1 | 29890 | RBM15B |
| 0.028664725 | 0.679368341 | 0.801 | 1 | 344382 | LOC344382 |
| 0.028662134 | 0.679395725 | 0.79 | 1 | 137868 | SGCZ |
| 0.028658246 | 0.679436802 | 0.81 | 1 | 9950 | GOLGA5 |
| 0.028599936 | 0.68005307 | 0.82 | 1 | 4076 | CAPRIN1 |
| 0.028577908 | 0.680285938 | 0.801 | 1 | 51427 | ZNF588 |
| 0.028550696 | 0.68057364 | 0.803 | 1 | 54881 | TEX10 |
| 0.028537738 | 0.680710657 | 0.807 | 1 | 148362 | BROX |
| 0.028484611 | 0.681272537 | 0.829 | 1 | 4236 | MFAP1 |
| 0.028440554 | 0.68173862 | 0.804 | 1 | 5730 | PTGDS |
| 0.028373173 | 0.682451685 | 0.797 | 1 | 245934 | DEFB121 |
| 0.028321342 | 0.68300039 | 0.782 | 1 | 8763 | CD164 |
| 0.028304497 | 0.683178754 | 0.795 | 1 | 284293 | HMSD |
| 0.028241003 | 0.68385121 | 0.813 | 1 | 25850 | ZNF345 |
| 0.028217679 | 0.684098298 | 0.807 | 1 | 122830 | NAA30 |
| 0.028208609 | 0.684194396 | 0.818 | 1 | 2824 | GPM6B |
| 0.028199538 | 0.6842905 | 0.81 | 1 | 30851 | TAX1BP3 |
| 0.02818658 | 0.6844278 | 0.816 | 1 | 159989 | CCDC67 |
| 0.028180101 | 0.684496454 | 0.792 | 1 | 388323 | GLTPD2 |
| 0.028155481 | 0.684757362 | 0.806 | 1 | 1182 | CLCN3 |
| 0.02813734 | 0.684949634 | 0.825 | 1 | 558 | AXL |
| 0.028090692 | 0.685444141 | 0.793 | 1 | 91748 | C14orf43 |
| 0.028072551 | 0.685636485 | 0.816 | 1 | 6928 | HNF1B |
| 0.028040156 | 0.685980008 | 0.82 | 1 | 7442 | TRPV1 |
| 0.028027199 | 0.686117435 | 0.804 | 1 | 57510 | XPO5 |
| 0.028009058 | 0.68630985 | 0.834 | 1 | 150280 | HORMAD2 |
| 0.027992212 | 0.686488539 | 0.809 | 1 | 388272 | C16orf87 |
| 0.02795593 | 0.686873468 | 0.811 | 1 | 10856 | RUVBL2 |
| 0.027948156 | 0.686955964 | 0.815 | 1 | 25807 | RHBDD3 |
| 0.027896324 | 0.687506027 | 0.822 | 1 | 56301 | SLC7A10 |
| 0.027876887 | 0.687712343 | 0.775 | 1 | 6878 | TAF6 |
| 0.027869113 | 0.687794876 | 0.813 | 1 | 55330 | CNO |
| 0.027865225 | 0.687836143 | 0.821 | 1 | 1655 | DDX5 |
| 0.027854859 | 0.687946196 | 0.803 | 1 | 286528 | SSU72P1 |
| 0.027844493 | 0.688056254 | 0.819 | 1 | 157848 | NKX6-3 |
| 0.02782376 | 0.688276391 | 0.803 | 1 | 158584 | FAAH2 |
| 0.027687703 | 0.689721692 | 0.809 | 1 | 60526 | C2orf43 |
| 0.027679928 | 0.689804314 | 0.808 | 1 | 90874 | ZNF697 |
| 0.027672153 | 0.689886941 | 0.821 | 1 | 51092 | SIDT2 |
| 0.027669562 | 0.689914484 | 0.81 | 1 | 53832 | IL20RA |
| 0.027659195 | 0.690024659 | 0.815 | 1 | 3312 | HSPA8 |
| 0.027506293 | 0.691650511 | 0.806 | 1 | 7178 | TPT1 |
| 0.02746094 | 0.692133027 | 0.798 | 1 | 129881 | C2orf77 |
| 0.027394855 | 0.692836345 | 0.836 | 1 | 971 | CD72 |
| 0.027345615 | 0.693360557 | 0.78 | 1 | 115653 | KIR3DL3 |
| 0.027314516 | 0.693691713 | 0.805 | 1 | 3851 | KRT4 |
| 0.027265277 | 0.694216164 | 0.823 | 1 | 144245 | ALG10B |
| 0.027209558 | 0.694809796 | 0.829 | 1 | 60436 | TGIF2 |
| 0.027195304 | 0.694961685 | 0.811 | 1 | 8273 | SLC10A3 |
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| 0.027103303 | 0.695942355 | 0.842 | 1 | 163059 | ZNF433 |
| 0.027081275 | 0.696177238 | 0.802 | 1 | 7135 | TNNI1 |
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| 0.026792315 | 0.699261031 | 0.808 | 1 | 10267 | RAMP1 |
| 0.02668606 | 0.700396227 | 0.812 | 1 | 3753 | KCNE1 |
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| 0.026522791 | 0.702141849 | 0.831 | 1 | 3483 | IGFALS |
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| 0.026460594 | 0.70280726 | 0.791 | 1 | 10964 | IFI44L |
| 0.026454115 | 0.702876587 | 0.811 | 1 | 2688 | GH1 |
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| 0.026271409 | 0.704832609 | 0.824 | 1 | 84532 | ACSS1 |
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| 0.026223465 | 0.705346214 | 0.799 | 1 | 6636 | SNRPF |
| 0.026184591 | 0.705762748 | 0.842 | 1 | 596 | BCL2 |
| 0.026184591 | 0.705762748 | 0.832 | 1 | 56981 | PRDM11 |
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| 0.013795071 | 1.49923E-06 | 25936 | NSL1 |
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| 0.013759085 | 1.5963E-06 | 100271715 | AC019171.4 |
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| 0.013321541 | 3.38156E-06 | 2050 | EPHB4 |
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| 0.013310418 | 3.44571E-06 | 127064 | OR2T12 |
| 0.013307111 | 3.465E-06 | 84908 | FAM136A |
| 0.013306091 | 3.47097E-06 | 9244 | CRLF1 |
| 0.01329594 | 3.53094E-06 | 163786 | SASS6 |
| 0.013263483 | 3.72943E-06 | 112812 | FDX1L |

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| 0.026110731 | 0.706554405 | 0.822 | 1 | 255101 | CCDC108 |
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| 0.026035576 | 0.707360274 | 0.839 | 1 | 51010 | EXOSC3 |
| 0.02600966 | 0.707638236 | 0.82 | 1 | 3887 | KRT81 |
| 0.026004477 | 0.707693833 | 0.822 | 1 | 65999 | LRRC61 |
| 0.025943575 | 0.708347214 | 0.83 | 1 | 1004 | CDH6 |
| 0.0259358 | 0.708430639 | 0.813 | 1 | 57181 | SLC39A10 |
| 0.025931913 | 0.708472353 | 0.831 | 1 | 100287430 | LOC100287430 |
| 0.025905997 | 0.70875047 | 0.814 | 1 | 55356 | SLC22A15 |
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| 0.025820475 | 0.709668528 | 0.83 | 1 | 165829 | GPR156 |
| 0.025815292 | 0.709724182 | 0.834 | 1 | 147923 | ZNF420 |
| 0.025798447 | 0.709905066 | 0.805 | 1 | 2318 | FLNC |
| 0.025701263 | 0.710948946 | 0.812 | 1 | 79641 | ROGDI |
| 0.025672756 | 0.711255253 | 0.831 | 1 | 10462 | CLEC10A |
| 0.025605375 | 0.711979436 | 0.827 | 1 | 284257 | AC100775.1 |
| 0.025570389 | 0.712355556 | 0.819 | 1 | 120 | ADD3 |
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| 0.025517261 | 0.712926834 | 0.842 | 1 | 25913 | POT1 |
| 0.025462838 | 0.713512212 | 0.828 | 1 | 4070 | TACSTD2 |
| 0.025365655 | 0.714557947 | 0.823 | 1 | 55742 | PARVA |
| 0.025361767 | 0.714599788 | 0.828 | 1 | 26532 | OR10H3 |
| 0.025311232 | 0.715143792 | 0.839 | 1 | 222 | ALDH3B2 |
| 0.025263287 | 0.715660031 | 0.823 | 1 | 347736 | TXNDC6 |
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| 0.025173878 | 0.716623094 | 0.833 | 1 | 6702 | SPRR2C |
| 0.025097427 | 0.717446937 | 0.828 | 1 | 647012 | LOC647012 |
| 0.025063736 | 0.717810091 | 0.834 | 1 | 137872 | ADHFE1 |
| 0.02505337 | 0.717921843 | 0.821 | 1 | 51258 | MRPL51 |
| 0.025043004 | 0.718033602 | 0.826 | 1 | 2027 | ENO3 |
| 0.02499506 | 0.718550562 | 0.849 | 1 | 51524 | TMEM138 |
| 0.024993764 | 0.718564536 | 0.837 | 1 | 8073 | PTP4A2 |
| 0.024967848 | 0.718844029 | 0.82 | 1 | 643997 | LOC643997 |
| 0.024926383 | 0.719291296 | 0.843 | 1 | 22870 | SAPS1 |
| 0.024886214 | 0.719724677 | 0.83 | 1 | 54831 | BEST2 |
| 0.024833087 | 0.720297996 | 0.825 | 1 | 57610 | RANBP10 |
| 0.024770889 | 0.720969398 | 0.817 | 1 | 23633 | KPNA6 |
| 0.024737198 | 0.721333163 | 0.814 | 1 | 8334 | HIST1H2AC |
| 0.024724241 | 0.72147309 | 0.829 | 1 | 7083 | TK1 |
| 0.024724241 | 0.72147309 | 0.828 | 1 | 100131479 | LOC100131479 |
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| 0.02468148 | 0.721934913 | 0.825 | 1 | 23395 | LARS2 |
| 0.02464131 | 0.722368838 | 0.817 | 1 | 7035 | TFPI |
| 0.024637423 | 0.722410836 | 0.826 | 1 | 1353 | COX11 |
| 0.02463224 | 0.722466834 | 0.86 | 1 | 221937 | FOXK1 |
| 0.024599845 | 0.722816855 | 0.853 | 1 | 4829 | NMBR |
| 0.02459207 | 0.722900868 | 0.833 | 1 | 3713 | IVL |
| 0.024570042 | 0.723138925 | 0.816 | 1 | 51741 | WWOX |
| 0.024551901 | 0.723334991 | 0.826 | 1 | 25793 | FBXO7 |
| 0.024523394 | 0.723643132 | 0.832 | 1 | 100132707 | AC093726.2 |
| 0.024520802 | 0.723671147 | 0.839 | 1 | 28951 | TRIB2 |
| 0.024467675 | 0.724245537 | 0.823 | 1 | 55142 | HAUS2 |
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| 0.024391224 | 0.725072368 | 0.833 | 1 | 728255 | KRTAP1-4 |
| 0.024369195 | 0.725310667 | 0.822 | 1 | 83851 | SYT16 |
| 0.024332913 | 0.725703216 | 0.838 | 1 | 54739 | XAF1 |
| 0.024305702 | 0.725997675 | 0.819 | 1 | 29945 | ANAPC4 |
| 0.02427849 | 0.726292175 | 0.834 | 1 | 2047 | EPHB1 |
| 0.024249983 | 0.726600742 | 0.84 | 1 | 10873 | ME3 |
| 0.024212405 | 0.727007556 | 0.822 | 1 | 80723 | TMEM22 |
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| 0.024151503 | 0.727667038 | 0.838 | 1 | 1774 | DNASE1L1 |
| 0.024147616 | 0.727709139 | 0.855 | 1 | 4350 | MPG |
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| 0.024130771 | 0.727891588 | 0.835 | 1 | 10284 | SAP18 |
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| 0.023986938 | 0.729450045 | 0.85 | 1 | 54896 | PQLC2 |
| 0.023959727 | 0.729745013 | 0.824 | 1 | 10278 | EFS |
| 0.023949361 | 0.729857393 | 0.832 | 1 | 54065 | C21orf51 |
| 0.023941586 | 0.729941681 | 0.842 | 1 | 7391 | USF1 |
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| 0.023861247 | 0.73081285 | 0.831 | 1 | 388692 | LOC388692 |
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| 0.012880673 | 7.0427E-06 | 221477 | C6orf89 |
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| 0.012820874 | 7.76598E-06 | 282809 | WDR51B |
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| 0.012815934 | 7.8288E-06 | 219333 | USP12 |
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| 0.012297091 | 1.79607E-05 | 151242 | PPP1R1C |
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| 0.012285657 | 1.82859E-05 | 84215 | ZNF541 |
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| 0.012260285 | 1.90278E-05 | 9880 | ZBTB39 |
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| 0.01221899 | 2.02968E-05 | 124411 | ZNF720 |
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| 0.023822374 | 0.731234508 | 0.829 | 1 | 171023 | ASXL1 |
| 0.023777021 | 0.731726544 | 0.853 | 1 | 5437 | POLR2H |
| 0.023767951 | 0.731824964 | 0.837 | 1 | 22826 | DNAJC8 |
| 0.023713528 | 0.732415579 | 0.847 | 1 | 84641 | HIATL1 |
| 0.02370964 | 0.732457772 | 0.837 | 1 | 10771 | ZMYND11 |
| 0.023697978 | 0.732584355 | 0.857 | 1 | 653781 | AC140481.7 |
| 0.023578766 | 0.73387873 | 0.852 | 1 | 6133 | RPL9 |
| 0.023556738 | 0.734117991 | 0.825 | 1 | 2020 | EN2 |
| 0.023517864 | 0.734540278 | 0.848 | 1 | 6227 | RPS21 |
| 0.023477695 | 0.734976725 | 0.849 | 1 | 8569 | MKNK1 |
| 0.023421976 | 0.735582261 | 0.847 | 1 | 286103 | C8ORF77 |
| 0.023368849 | 0.736159784 | 0.826 | 1 | 51076 | CUTC |
| 0.023335158 | 0.736526095 | 0.848 | 1 | 10217 | CTDSPL |
| 0.023296285 | 0.736948836 | 0.836 | 1 | 79696 | FAM164C |
| 0.023270369 | 0.737230707 | 0.834 | 1 | 643226 | GRXCR2 |
| 0.02326389 | 0.73730118 | 0.842 | 1 | 84923 | FAM104A |
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| 0.022647096 | 0.744020218 | 0.841 | 1 | 55333 | SYNJ2BP |
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| 0.021383705 | 0.757843114 | 0.856 | 1 | 348093 | RBPMS2 |
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| 0.011617584 | 5.08176E-05 | 138864 | LOC138864 |
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| 0.020908151 | 0.763066478 | 0.87 | 1 | 51081 | MRPS7 |
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| 0.019316927 | 0.780621006 | 0.86 | 1 | 23205 | ACSBG1 |
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| 0.007369782 | 0.915388194 | 0.963 | 1 | 10618 | TGOLN2 |
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| 0.007292034 | 0.916277597 | 0.947 | 1 | 116987 | AGAP1 |
| 0.007289443 | 0.916307246 | 0.945 | 1 | 55119 | PRPF38B |
| 0.007263527 | 0.916603738 | 0.941 | 1 | 83786 | FRMD8 |
| 0.007201329 | 0.917315366 | 0.948 | 1 | 5617 | PRL |
| 0.007201329 | 0.917315366 | 0.938 | 1 | 6341 | SCO1 |
| 0.007189667 | 0.917448804 | 0.953 | 1 | 335 | APOA1 |
| 0.007172822 | 0.917641551 | 0.955 | 1 | 3770 | KCNJ14 |
| 0.007153385 | 0.917863958 | 0.96 | 1 | 1446 | CSN1S1 |
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| 0.007922734 | 0.005724795 | 54858 | PGPEP1 |
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| 0.007885443 | 0.005957065 | 4285 | MIPEP |
| 0.007883139 | 0.005971686 | 23552 | CCRK |
| 0.007877645 | 0.006006696 | 79818 | AC010645.1 |
| 0.007874048 | 0.006029712 | 3868 | KRT16 |
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| 0.007857194 | 0.006138629 | 8334 | HIST1H2AC |
| 0.007850947 | 0.006179448 | 57460 | PPM1H |
| 0.007848792 | 0.006193588 | 55278 | QRSL1 |
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| 0.007843782 | 0.006226567 | 11330 | CTRC |
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| 0.007825364 | 0.006349171 | 392264 | LOC392264 |
| 0.007820664 | 0.006380806 | 3959 | LGALS3BP |
| 0.007811028 | 0.006446107 | 23567 | ZNF346 |
| 0.007809009 | 0.006459865 | 348840 | AC073135.1 |
| 0.007793643 | 0.006565438 | 55173 | MRPS10 |
| 0.007783041 | 0.00663918 | 162417 | NAGS |
| 0.007782603 | 0.006642246 | 9123 | SLC16A3 |
| 0.0077528 | 0.006853638 | 79877 | DCAKD |
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| 0.007606554 | 0.007981131 | 401265 | KLHL31 |
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| 0.007584346 | 0.008170362 | 90506 | LRRC46 |
| 0.007526794 | 0.008663649 | 4148 | MATN3 |
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| 0.007412028 | 0.009737272 | 8495 | PPFIBP2 |
| 0.007406721 | 0.009789676 | 126767 | AADACL3 |
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| 0.007209919 | 0.011919029 | 313 | AOAH |
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| 0.007175528 | 0.012330639 | 643311 | CT47B1 |
| 0.007168234 | 0.012419538 | 399664 | MEX3D |
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| 0.007157397 | 0.012552661 | 3276 | PRMT1 |
| 0.007130547 | 0.012887974 | 7247 | TSN |
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| 0.007090546 | 0.013402202 | 23244 | PDS5A |
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| 0.007032111 | 0.014186005 | 801 | CALM1 |
| 0.007017509 | 0.014388065 | 728591 | C13orf38 |
| 0.006985804 | 0.014835572 | 11224 | RPL35 |
| 0.006969713 | 0.015067341 | 5732 | PTGER2 |
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| 0.007056201 | 0.918976087 | 0.939 | 1 | 10985 | GCN1L1 |
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| 0.007023807 | 0.919346832 | 0.952 | 1 | 79693 | YRDC |
| 0.007021215 | 0.919376493 | 0.947 | 1 | 151011 | SEPTIN10 |
| 0.006939581 | 0.920310851 | 0.949 | 1 | 127550 | A3GALT2P |
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| 0.006924031 | 0.920488836 | 0.95 | 1 | 100506084 | AC005829.1 |
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| 0.006824256 | 0.921631003 | 0.95 | 1 | 84061 | MAGT1 |
| 0.00682296 | 0.921645837 | 0.963 | 1 | 25871 | C3orf17 |
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| 0.006741326 | 0.922580459 | 0.954 | 1 | 92154 | MTSS1L |
| 0.006694677 | 0.923114576 | 0.959 | 1 | 388199 | AL023882.1 |
| 0.006692086 | 0.92314425 | 0.962 | 1 | 3040 | HBA2 |
| 0.006653212 | 0.923589376 | 0.946 | 1 | 129293 | AC010087.3 |
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| 0.006637663 | 0.923767433 | 0.968 | 1 | 129880 | BBS5 |
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| 0.006598789 | 0.924212592 | 0.954 | 1 | 7850 | IL1R2 |
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| 0.006462732 | 0.925770833 | 0.962 | 1 | 1380 | CR2 |
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| 0.006432929 | 0.9261122 | 0.963 | 1 | 285848 | PNPLA1 |
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| 0.006044193 | 0.93056603 | 0.957 | 1 | 55916 | NXT2 |
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| 0.0058576 | 0.932704646 | 0.959 | 1 | 55251 | PCMTD2 |
| 0.005831684 | 0.933001714 | 0.967 | 1 | 144124 | OR10A5 |
| 0.005770782 | 0.933699861 | 0.953 | 1 | 100505929 | C21orf37 |
| 0.005765599 | 0.933759281 | 0.953 | 1 | 115106 | HAUS1 |
| 0.005740979 | 0.934041527 | 0.96 | 1 | 359710 | C20orf185 |
| 0.005725429 | 0.934219791 | 0.964 | 1 | 85450 | ITPRIP |
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| 0.005450723 | 0.93736967 | 0.956 | 1 | 55147 | RBM23 |
| 0.005426103 | 0.937652019 | 0.966 | 1 | 347862 | PDDC1 |
| 0.005414441 | 0.937785766 | 0.967 | 1 | 57463 | AMIGO1 |
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| 0.005407962 | 0.93786007 | 0.968 | 1 | 284185 | LINC00482 |
| 0.005406666 | 0.937874931 | 0.972 | 1 | 222553 | SLC35F1 |
| 0.0053963 | 0.93799382 | 0.963 | 1 | 4773 | NFATC2 |
| 0.005383342 | 0.938142433 | 0.964 | 1 | 11078 | TRIOBP |
| 0.005331511 | 0.938736905 | 0.957 | 1 | 6738 | TROVE2 |
| 0.005284862 | 0.939271959 | 0.969 | 1 | 286204 | CRB2 |
| 0.00524858 | 0.939688131 | 0.971 | 1 | 90271 | LINC00263 |
| 0.005233031 | 0.939866495 | 0.966 | 1 | 10944 | C11orf58 |
| 0.005148805 | 0.940832688 | 0.973 | 1 | 80128 | TRIM46 |
| 0.005139734 | 0.940936745 | 0.962 | 1 | 26025 | PCDHGA12 |
| 0.005084016 | 0.941575972 | 0.975 | 1 | 10440 | TIMM17A |
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| 0.0050581 | 0.9418733 | 0.963 | 1 | 387695 | C10orf99 |
| 0.005036071 | 0.942126035 | 0.961 | 1 | 27129 | HSPB7 |
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| 0.004844295 | 0.944326559 | 0.976 | 1 | 728492 | SERF1B |
| 0.004832633 | 0.944460388 | 0.97 | 1 | 94030 | LRRC4B |
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| 0.004758773 | 0.94530801 | 0.968 | 1 | 9538 | EI24 |
| 0.004681026 | 0.946200311 | 0.973 | 1 | 7084 | TK2 |
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| 0.004517757 | 0.948074359 | 0.97 | 1 | 5036 | PA2G4 |
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| 0.004462038 | 0.948713981 | 0.958 | 1 | 138474 | TAF1L |
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| 0.006877788 | 0.016453572 | 7965 | AIMP2 |
| 0.006862054 | 0.016701761 | 2804 | GOLGB1 |
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| 0.00672604 | 0.01898778 | 6203 | RPS9 |
| 0.006695145 | 0.019543633 | 145553 | MDP1 |
| 0.00666048 | 0.020184207 | 341567 | H1FNT |
| 0.006658364 | 0.020223912 | 2907 | GRINA |
| 0.006639853 | 0.020574021 | 5829 | PXN |
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| 0.006603549 | 0.021276024 | 442572 | LOC442572 |
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| 0.006552758 | 0.02229314 | 6293 | VPS52 |
| 0.006550183 | 0.022345808 | 1639 | DCTN1 |
| 0.006536353 | 0.022630564 | 79657 | RPAP3 |
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| 0.006489996 | 0.023608169 | 25942 | SIN3A |
| 0.006461985 | 0.024216474 | 136227 | EMID2 |
| 0.00645296 | 0.024415332 | 79168 | LILRA6 |
| 0.006449177 | 0.024499122 | 57733 | GBA3 |
| 0.006435577 | 0.024802368 | 9465 | AKAP7 |
| 0.006432846 | 0.024863663 | 7185 | TRAF1 |
| 0.006431478 | 0.024894402 | 5682 | PSMA1 |
| 0.006418429 | 0.025189352 | 90589 | ZNF625 |
| 0.006414715 | 0.025273864 | 57795 | FAM5B |
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| 0.006393479 | 0.025761752 | 3459 | IFNGR1 |
| 0.006387683 | 0.0258963 | 284339 | TMEM145 |
| 0.006385676 | 0.025943053 | 11119 | BTN3A1 |
| 0.006357893 | 0.026597589 | 123016 | TTC8 |
| 0.006349587 | 0.026796006 | 4256 | MGP |
| 0.00632758 | 0.027327934 | 54941 | RNF125 |
| 0.006308564 | 0.027794895 | 57794 | SF4 |
| 0.006305268 | 0.027876526 | 8125 | ANP32A |
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| 0.006269859 | 0.028766612 | 27023 | FOXB1 |
| 0.006269236 | 0.028782492 | 100170765 | C19orf69 |
| 0.006228507 | 0.029836971 | 54471 | SMCR7L |
| 0.00621748 | 0.030128102 | 10899 | JTB |
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| 0.00619012 | 0.030861025 | 5098 | PCDHGC3 |
| 0.006173583 | 0.031311404 | 4584 | MUC3A |
| 0.006150304 | 0.031954955 | 389084 | C2orf82 |
| 0.006131902 | 0.032471692 | 124583 | CANT1 |
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| 0.006101035 | 0.033354471 | 112476 | PRRT2 |
| 0.006079442 | 0.033984175 | 64321 | SOX17 |
| 0.006077952 | 0.034028017 | 135927 | C7orf34 |
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| 0.006069745 | 0.034270272 | 56964 | WDR93 |
| 0.006066171 | 0.034376226 | 11176 | BAZ2A |
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| 0.006029751 | 0.035471999 | 171546 | C14orf147 |
| 0.00601447 | 0.035940552 | 57326 | PBXIP1 |
| 0.006012184 | 0.036011097 | 841 | CASP8 |
| 0.005990671 | 0.036680813 | 6173 | RPL36A |
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| 0.004314319 | 0.950409882 | 0.967 | 1 | 5439 | POLR2J |
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| 0.004187332 | 0.95186794 | 0.97 | 1 | 1787 | TRDMT1 |
| 0.004148458 | 0.952314316 | 0.972 | 1 | 4329 | ALDH6A1 |
| 0.004139388 | 0.952418473 | 0.975 | 1 | 3217 | HOXB7 |
| 0.004125134 | 0.95258215 | 0.968 | 1 | 11132 | CAPN10 |
| 0.00410181 | 0.952849988 | 0.968 | 1 | 60 | ACTB |
| 0.004060345 | 0.953326158 | 0.967 | 1 | 55113 | XKR8 |
| 0.004056457 | 0.9533708 | 0.978 | 1 | 114885 | OSBPL11 |
| 0.003990372 | 0.954129733 | 0.972 | 1 | 6322 | SCML1 |
| 0.003985189 | 0.954189259 | 0.974 | 1 | 51248 | PDZD11 |
| 0.003967048 | 0.954397602 | 0.959 | 1 | 197021 | LCTL |
| 0.003943724 | 0.954665475 | 0.977 | 1 | 51714 | SELT |
| 0.003818033 | 0.956109104 | 0.976 | 1 | 51314 | TXNDC3 |
| 0.003810258 | 0.956198406 | 0.971 | 1 | 100130256 | LOC100130256 |
| 0.003803779 | 0.956272824 | 0.981 | 1 | 2867 | FFAR2 |
| 0.003802483 | 0.956287707 | 0.973 | 1 | 2186 | BPTF |
| 0.003775272 | 0.956600268 | 0.966 | 1 | 5639 | PRRG2 |
| 0.003749356 | 0.956897952 | 0.98 | 1 | 10336 | PCGF3 |
| 0.003692342 | 0.957552876 | 0.974 | 1 | 3142 | HLX |
| 0.003666426 | 0.957850578 | 0.965 | 1 | 115098 | CCDC124 |
| 0.003663834 | 0.957880349 | 0.978 | 1 | 10168 | ZNF197 |
| 0.003649581 | 0.958044088 | 0.976 | 1 | 10078 | TSSC4 |
| 0.003610707 | 0.958490658 | 0.976 | 1 | 51067 | YARS2 |
| 0.00359127 | 0.958713948 | 0.985 | 1 | 156 | ADRBK1 |
| 0.003514819 | 0.959592253 | 0.98 | 1 | 25979 | DHRS7B |
| 0.003501861 | 0.959741123 | 0.981 | 1 | 4585 | MUC4 |
| 0.003472058 | 0.960083529 | 0.98 | 1 | 6821 | SUOX |
| 0.003465579 | 0.960157966 | 0.971 | 1 | 140885 | SIRPA |
| 0.003456509 | 0.960262179 | 0.971 | 1 | 388523 | ZNF728 |
| 0.003433184 | 0.960530157 | 0.972 | 1 | 5148 | PDE6G |
| 0.003404677 | 0.960857692 | 0.975 | 1 | 131377 | KBTBD5 |
| 0.00340079 | 0.960902357 | 0.964 | 1 | 128061 | C1orf131 |
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| 0.002684229 | 0.349200265 | 25937 | WWTR1 |
| 0.002668484 | 0.352034379 | 139599 | MAGEE2 |
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| 0.002633946 | 0.358302218 | 146456 | TMED6 |
| 0.0026102 | 0.362651886 | 29901 | SAC3D1 |
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| 0.002584305 | 0.367432784 | 55226 | NAT10 |
| 0.002566692 | 0.370707063 | 1025 | CDK9 |
| 0.00252759 | 0.378040342 | 9652 | TTC37 |
| 0.002463963 | 0.390162689 | 55000 | TUG1 |
| 0.002418773 | 0.398914147 | 53637 | S1PR5 |
| 0.002362122 | 0.410050552 | 25904 | CNOT10 |
| 0.002332249 | 0.41599679 | 10327 | AKR1A1 |
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| 0.002259083 | 0.430773424 | 286410 | ATP11C |
| 0.002258987 | 0.430792956 | 60559 | SPCS3 |
| 0.00225113 | 0.432397694 | 56947 | MFF |
| 0.002241657 | 0.434337013 | 90655 | TGIF2LY |
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| 0.002217148 | 0.439378151 | 100128190 | SLC9B1P1 |
| 0.002194468 | 0.444072604 | 728586 | AC068658.1 |
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| 0.002190878 | 0.444818462 | 403313 | PPAPDC2 |
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| -0.007123582 | 0.918204994 | 0.947 | 1 | 259230 | SGMS1 |
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| -0.007233724 | 0.916944718 | 0.953 | 1 | 100134713 | RP4-726N20.2 |
| -0.007241499 | 0.916855765 | 0.959 | 1 | 9725 | TMEM63A |
| -0.007280372 | 0.916411017 | 0.948 | 1 | 90586 | AOC4 |
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| -0.007748151 | 0.911061287 | 0.959 | 1 | 59340 | HRH4 |
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| -0.007872547 | 0.909639309 | 0.935 | 1 | 5924 | RASGRF2 |
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| -0.00796066 | 0.908632248 | 0.946 | 1 | 23218 | NBEAL2 |
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| -0.008236662 | 0.905478731 | 0.936 | 1 | 9737 | GPRASP1 |
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| -0.008320888 | 0.904516683 | 0.932 | 1 | 7122 | CLDN5 |
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| -0.00838179 | 0.903821135 | 0.942 | 1 | 51806 | CALML5 |
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| -0.008476383 | 0.902740962 | 0.944 | 1 | 7503 | XIST |
| -0.008490636 | 0.902578211 | 0.926 | 1 | 100270746 | LOC100270746 |
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| -0.00857875 | 0.901572209 | 0.946 | 1 | 824 | CAPN2 |
| -0.008595595 | 0.901379902 | 0.933 | 1 | 51109 | RDH11 |
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| -0.008718695 | 0.899974763 | 0.947 | 1 | 112399 | EGLN3 |
| -0.008734244 | 0.899797294 | 0.937 | 1 | 6907 | TBL1X |
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| -0.008774413 | 0.899338855 | 0.946 | 1 | 2572 | GAD2 |
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| -0.008804216 | 0.898998745 | 0.942 | 1 | 54870 | QRICH1 |
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| -0.008861231 | 0.89834815 | 0.933 | 1 | 55272 | IMP3 |
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| 0.002049423 | 0.474764408 | 6716 | SRD5A2 |
| 0.002036794 | 0.477490741 | 190 | NR0B1 |
| 0.002022621 | 0.480560686 | 132989 | C4orf36 |
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| 0.001967037 | 0.492702997 | 604 | BCL6 |
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| 0.001772603 | 0.53643971 | 65979 | PHACTR4 |
| 0.0017665 | 0.53784355 | 3212 | HOXB2 |
| 0.001759861 | 0.539372567 | 54065 | C21orf51 |
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| 0.001748844 | 0.541914998 | 2572 | GAD2 |
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| 0.001736603 | 0.544746879 | 9464 | HAND2 |
| 0.001706889 | 0.551651191 | 343505 | NBPF7 |
| 0.001706537 | 0.55173325 | 388199 | AL023882.1 |
| 0.001696991 | 0.553960772 | 26290 | GALNT8 |
| 0.001680761 | 0.557757655 | 403 | ARL3 |
| 0.001661225 | 0.562345031 | 10548 | TM9SF1 |
| 0.001656897 | 0.563363581 | 7275 | TUB |
| 0.001655642 | 0.563659282 | 55028 | C17orf80 |
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| 0.001643344 | 0.56655953 | 6907 | TBL1X |
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| 0.001569419 | 0.584142282 | 26492 | OR8G2 |
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| 0.001259841 | 0.660388598 | 2532 | DARC |
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| -0.010781586 | 0.876477348 | 0.924 | 1 | 127579 | DCST2 |
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| -0.011351731 | 0.870001243 | 0.926 | 1 | 9770 | RASSF2 |
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| -0.011849313 | 0.864356431 | 0.923 | 1 | 122961 | ISCA2 |
| -0.011867454 | 0.864150759 | 0.92 | 1 | 333929 | SNAI3 |
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| 0.001156538 | 0.686691383 | 58533 | SNX6 |
| 0.001134084 | 0.692460347 | 10417 | SPON2 |
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| 0.001110588 | 0.698516392 | 60506 | NYX |
| 0.00110701 | 0.699440223 | 10217 | CTDSPL |
| 0.001079379 | 0.7071855 | 83478 | ARHGAP24 |
| 0.001061935 | 0.711117183 | 55181 | C17orf71 |
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| 0.000939932 | 0.743057838 | 80308 | FLAD1 |
| 0.000904511 | 0.752417334 | 1230 | CCR1 |
| 0.000899264 | 0.753807009 | 887 | CCKBR |
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| 3.35536E-05 | 0.990663369 | 163778 | SPRR4 |
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| -0.015274075 | 0.82570561 | 0.906 | 1 | 26082 | AC135731.1 |
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| -0.015601909 | 0.822026176 | 0.891 | 1 | 119587 | CPXM2 |
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| -0.004442931 | 0.121260383 | 9329 | GTF3C4 |
| -0.00445031 | 0.1206435 | 719 | C3AR1 |
| -0.004453518 | 0.120376041 | 8074 | FGF23 |
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| -0.004572848 | 0.110753643 | 2202 | EFEMP1 |
| -0.004587968 | 0.109579013 | 8790 | FPGT |
| -0.004591242 | 0.109325953 | 3385 | ICAM3 |
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| -0.004631756 | 0.106232847 | 2248 | FGF3 |
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| -0.004650175 | 0.104849672 | 140885 | SIRPA |
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| -0.004720516 | 0.09969878 | 55027 | HEATR3 |
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| -0.00476642 | 0.096447549 | 2395 | FXN |
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| -0.026115915 | 0.706498839 | 0.825 | 1 | 94107 | TMEM203 |
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| -0.026262338 | 0.704929767 | 0.828 | 1 | 55616 | ASAP3 |
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| -0.026367297 | 0.703805801 | 0.811 | 1 | 149986 | LSM14B |
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| -0.027314516 | 0.693691713 | 0.808 | 1 | 123346 | HIGD2B |
| -0.027370235 | 0.693098433 | 0.825 | 1 | 51016 | FAM158A |
| -0.027375418 | 0.693043253 | 0.826 | 1 | 11222 | MRPL3 |
| -0.027406517 | 0.692712211 | 0.799 | 1 | 93377 | OPALIN |
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| -0.027619026 | 0.690451652 | 0.82 | 1 | 347 | APOD |
| -0.02771621 | 0.689418773 | 0.828 | 1 | 97 | ACYP1 |
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| -0.027760267 | 0.688950724 | 0.793 | 1 | 2137 | EXTL3 |
| -0.027853563 | 0.687959952 | 0.827 | 1 | 85378 | TUBGCP6 |
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| -0.027874296 | 0.687739853 | 0.806 | 1 | 28316 | CDH20 |
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| -0.004938544 | 0.085008996 | 140828 | LINC00261 |
| -0.00497604 | 0.082664161 | 29063 | ZCCHC4 |
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| -0.005161575 | 0.071838476 | 140609 | NEK7 |
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| -0.005294743 | 0.064807403 | 124460 | SNX20 |
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| -0.005395585 | 0.059869345 | 83940 | TATDN1 |
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| -0.005421416 | 0.058655961 | 4666 | NACA |
| -0.005451685 | 0.05726011 | 246329 | STAC3 |
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| -0.005480244 | 0.055968537 | 65078 | RTN4R |
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| -0.005708244 | 0.046503058 | 2707 | GJB3 |
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| -0.028892783 | 0.676960191 | 0.806 | 1 | 22821 | RASA3 |
| -0.02892777 | 0.676591048 | 0.821 | 1 | 9436 | NCR2 |
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| -0.028997742 | 0.675852995 | 0.786 | 1 | 7070 | THY1 |
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| -0.029455154 | 0.671035971 | 0.8 | 1 | 9967 | THRAP3 |
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| -0.029548451 | 0.670055103 | 0.789 | 1 | 150160 | CESK1 |
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| -0.029593804 | 0.669578494 | 0.795 | 1 | 10673 | TNFSF13B |
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| -0.029658593 | 0.668897853 | 0.808 | 1 | 392390 | OR1L6 |
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| -0.029838707 | 0.667007095 | 0.783 | 1 | 220979 | C10orf25 |
| -0.029849073 | 0.666898338 | 0.786 | 1 | 50805 | IRX4 |
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| -0.030772969 | 0.657233577 | 0.782 | 1 | 3954 | LETM1 |
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| -0.030915505 | 0.655747532 | 0.799 | 1 | 51554 | CCRL1 |
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| -0.041975037 | 0.544938016 | 0.73 | 1 | 135458 | HUS1B |
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| -0.01597103 | 2.54239E-08 | 55787 | CXorf15 |
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| -0.015988747 | 2.45375E-08 | 286205 | SCAI |
| -0.015992264 | 2.43651E-08 | 768211 | RELL1 |
| -0.01600645 | 2.36817E-08 | 23644 | EDC4 |
| -0.016019456 | 2.30714E-08 | 6605 | SMARCE1 |
| -0.016039844 | 2.21455E-08 | 10572 | SIVA1 |
| -0.016041556 | 2.20694E-08 | 7358 | UGDH |
| -0.016063159 | 2.11308E-08 | 388699 | LINC00302 |
| -0.016097837 | 1.97045E-08 | 56931 | DUS3L |
| -0.016126081 | 1.86124E-08 | 53832 | IL20RA |
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| -0.016144486 | 1.79326E-08 | 55905 | RNF114 |
| -0.016168317 | 1.70881E-08 | 65991 | FUNDC2 |
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| -0.016205998 | 1.58311E-08 | 9860 | LRIG2 |
| -0.016244097 | 1.46516E-08 | 27010 | TPK1 |
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| -0.016367129 | 1.13969E-08 | 2352 | FOLR3 |
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| -0.016472863 | 9.17073E-09 | 2551 | GABPA |
| -0.016475086 | 9.1288E-09 | 3313 | HSPA9 |

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| -0.057825088 | 0.404165251 | 0.622 | 1 | 7022 | TFAP2C |
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| -0.057878216 | 0.403733018 | 0.628 | 1 | 90527 | DUOXA1 |
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| -0.05791061 | 0.403469595 | 0.602 | 1 | 3309 | HSPA5 |
| -0.057913202 | 0.403448526 | 0.627 | 1 | 1285 | COL4A3 |
| -0.057957259 | 0.403090448 | 0.587 | 1 | 79413 | ZBED2 |
| -0.057981878 | 0.402890427 | 0.657 | 1 | 84034 | EMILIN2 |
| -0.057983174 | 0.402879902 | 0.604 | 1 | 9958 | USP15 |
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| -0.05933727 | 0.391970289 | 0.617 | 1 | 200185 | KRTCAP2 |
| -0.059342454 | 0.391928875 | 0.604 | 1 | 203510 | HMGB3P30 |
| -0.059390398 | 0.391545922 | 0.612 | 1 | 6696 | SPP1 |
| -0.059412426 | 0.391370046 | 0.601 | 1 | 200407 | CREG2 |
| -0.059481103 | 0.390822034 | 0.612 | 1 | 23440 | OTP |
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| -0.05959254 | 0.389933795 | 0.618 | 1 | 1081 | CGA |
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| -0.060121221 | 0.385736479 | 0.557 | 1 | 284422 | AC005551.1 |
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| -0.060298743 | 0.384333265 | 0.619 | 1 | 56113 | PCDHGA2 |
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| -0.060626577 | 0.381750105 | 0.579 | 1 | 2909 | GRLF1 |
| -0.060661563 | 0.381475059 | 0.607 | 1 | 80149 | ZC3H12A |
| -0.060692662 | 0.381230675 | 0.613 | 1 | 6886 | TAL1 |
| -0.060753564 | 0.380752366 | 0.593 | 1 | 84701 | COX4I2 |
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| -0.016482378 | 8.99254E-09 | 57862 | ZNF410 |
| -0.016487323 | 8.90126E-09 | 8872 | CDC123 |
| -0.016494467 | 8.77099E-09 | 7473 | WNT3 |
| -0.016500911 | 8.65508E-09 | 51406 | NOL7 |
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| -0.016559821 | 7.66216E-09 | 57700 | FAM160B1 |
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| -0.016585443 | 7.26571E-09 | 54842 | MFSD6 |
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| -0.016596822 | 7.09611E-09 | 51121 | RPL26L1 |
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| -0.01664087 | 6.47516E-09 | 83483 | PLVAP |
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| -0.016659044 | 6.23466E-09 | 55328 | RNLS |
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| -0.016703932 | 5.67727E-09 | 7621 | ZNF70 |
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| -0.016738004 | 5.28685E-09 | 253725 | FAM21C |
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| -0.016749326 | 5.163E-09 | 153328 | AC011427.1 |
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| -0.016779118 | 4.85042E-09 | 340120 | ANKRD34B |
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| -0.016806417 | 4.58023E-09 | 1414 | CRYBB1 |
| -0.016812285 | 4.52409E-09 | 728047 | AC135983.8 |
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| -0.016850165 | 4.17749E-09 | 644943 | RASSF10 |
| -0.016855554 | 4.13033E-09 | 56888 | KCMF1 |
| -0.0168741 | 3.97197E-09 | 284613 | CYB561D1 |
| -0.016878329 | 3.93669E-09 | 353500 | BMP8A |
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| -0.016928091 | 3.54383E-09 | 1290 | COL5A2 |
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| -0.016967827 | 3.25778E-09 | 63899 | NSUN3 |
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| -0.017007359 | 2.99556E-09 | 26994 | RNF11 |
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| -0.017013183 | 2.95871E-09 | 259266 | ASPM |
| -0.017034727 | 2.82618E-09 | 55681 | SCYL2 |
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| -0.017066652 | 2.64037E-09 | 84517 | AC078802.1 |
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| -0.017081393 | 2.55864E-09 | 400966 | RGPD1 |
| -0.017087696 | 2.52445E-09 | 83863 | TTTY5 |
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| -0.017154424 | 2.18873E-09 | 160065 | PATE1 |
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| -0.017189435 | 2.03041E-09 | 647476 | FLJ20518 |
| -0.017207296 | 1.95399E-09 | 353274 | ZNF445 |
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| -0.017228689 | 1.86615E-09 | 7993 | UBXN8 |
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| -0.017277413 | 1.6802E-09 | 25888 | ZNF473 |
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| -0.017383027 | 1.337E-09 | 6158 | RPL28 |
| -0.017411523 | 1.25678E-09 | 56957 | OTUD7B |
| -0.017419628 | 1.23483E-09 | 1750 | DLX6 |
| -0.017423638 | 1.22411E-09 | 57643 | ZSWIM5 |
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| -0.017456017 | 1.14082E-09 | 168002 | DACT2 |
| -0.017477012 | 1.08979E-09 | 91749 | KIAA1919 |
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| -0.017524392 | 9.82669E-10 | 4122 | MAN2A2 |
| -0.017529272 | 9.72239E-10 | 65010 | SLC26A6 |
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| -0.017547029 | 9.35186E-10 | 55586 | MIOX |

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| -0.060830016 | 0.380152456 | 0.626 | 1 | 283932 | FBXL19-AS1 |
| -0.06090258 | 0.379583584 | 0.583 | 1 | 114823 | LENG8 |
| -0.060945341 | 0.3792486 | 0.613 | 1 | 6827 | SUPT4H1 |
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| -0.061120272 | 0.377880094 | 0.594 | 1 | 9245 | GCNT3 |
| -0.061128046 | 0.377819342 | 0.605 | 1 | 401634 | GOLGA2P3Y |
| -0.061165624 | 0.377525791 | 0.588 | 1 | 137970 | UNC5D |
| -0.061173399 | 0.377465074 | 0.609 | 1 | 441543 | TTTY6B |
| -0.061179878 | 0.377414481 | 0.585 | 1 | 56145 | PCDHA3 |
| -0.061181174 | 0.377404363 | 0.599 | 1 | 246243 | RNASEH1 |
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| -0.061234301 | 0.376989663 | 0.595 | 1 | 8435 | SOAT2 |
| -0.061261512 | 0.376777364 | 0.609 | 1 | 2185 | PTK2B |
| -0.061277062 | 0.376656083 | 0.605 | 1 | 283999 | AC087645.1 |
| -0.061279653 | 0.376635872 | 0.605 | 1 | 9025 | RNF8 |
| -0.061295203 | 0.376514619 | 0.583 | 1 | 145957 | NRG4 |
| -0.061322414 | 0.376302484 | 0.616 | 1 | 92979 | MARCHF9 |
| -0.061398866 | 0.375706879 | 0.624 | 1 | 286514 | MAGEB18 |
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| -0.061423485 | 0.375515197 | 0.581 | 1 | 120400 | FAM55A |
| -0.061442922 | 0.375363912 | 0.62 | 1 | 5189 | PEX1 |
| -0.061451993 | 0.375293325 | 0.593 | 1 | 29789 | OLA1 |
| -0.061476613 | 0.375101773 | 0.621 | 1 | 85289 | KRTAP4-5 |
| -0.061483092 | 0.375051374 | 0.6 | 1 | 128218 | TMEM125 |
| -0.061521965 | 0.374749071 | 0.613 | 1 | 9938 | ARHGAP25 |
| -0.061562135 | 0.374436848 | 0.615 | 1 | 390892 | OR7A10 |
| -0.061564726 | 0.374416711 | 0.572 | 1 | 6196 | RPS6KA2 |
| -0.061651544 | 0.373742476 | 0.643 | 1 | 8808 | IL1RL2 |
| -0.061669685 | 0.373601685 | 0.605 | 1 | 84080 | C16orf48 |
| -0.061696896 | 0.373390561 | 0.602 | 1 | 80326 | WNT10A |
| -0.061752615 | 0.372958488 | 0.606 | 1 | 344328 | ST13P2 |
| -0.061757798 | 0.37291831 | 0.599 | 1 | 1504 | CTRB1 |
| -0.061799263 | 0.372596989 | 0.609 | 1 | 23017 | FAIM2 |
| -0.061870532 | 0.372045116 | 0.56 | 1 | 116835 | HSPA12B |
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| -0.061889968 | 0.371894693 | 0.619 | 1 | 400553 | AC134312.1 |
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| -0.061974194 | 0.371243293 | 0.571 | 1 | 27302 | BMP10 |
| -0.062124506 | 0.370082544 | 0.605 | 1 | 55728 | N4BP2 |
| -0.062128393 | 0.370052554 | 0.57 | 1 | 1610 | DAO |
| -0.062198365 | 0.369512999 | 0.621 | 1 | 5581 | PRKCE |
| -0.06220614 | 0.369453078 | 0.627 | 1 | 4803 | NGF |
| -0.06220614 | 0.369453078 | 0.576 | 1 | 116362 | RBP7 |
| -0.062339606 | 0.368425378 | 0.594 | 1 | 100130933 | C17ORF110 |
| -0.062528791 | 0.366971674 | 0.604 | 1 | 399881 | HNRNPKP3 |
| -0.062607834 | 0.366365359 | 0.583 | 1 | 3032 | HADHB |
| -0.062613017 | 0.366325622 | 0.616 | 1 | 2548 | GAA |
| -0.062619496 | 0.366275955 | 0.596 | 1 | 3182 | HNRNPAB |
| -0.062653186 | 0.366017754 | 0.627 | 1 | 79400 | NOX5 |
| -0.062688172 | 0.365749741 | 0.577 | 1 | 1995 | ELAVL3 |
| -0.062782765 | 0.365025725 | 0.586 | 1 | 4520 | MTF1 |
| -0.062800906 | 0.364886974 | 0.604 | 1 | 100128398 | AC008969.2 |
| -0.062819047 | 0.364748256 | 0.57 | 1 | 121227 | LRIG3 |
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| -0.062973245 | 0.363570478 | 0.577 | 1 | 23053 | KIAA0913 |
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| -0.063448799 | 0.359953093 | 0.58 | 1 | 254879 | OR2T6 |
| -0.063488968 | 0.35964857 | 0.571 | 1 | 9600 | PITPNM1 |
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| -0.063582265 | 0.358941913 | 0.594 | 1 | 56158 | TEX12 |
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| -0.063692406 | 0.358108782 | 0.584 | 1 | 23439 | ATP1B4 |
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| -0.063726097 | 0.357854184 | 0.568 | 1 | 768211 | RELL1 |
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| -0.067043308 | 0.333342293 | 0.596 | 1 | 2861 | GPR37 |
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| -0.067083478 | 0.333052232 | 0.547 | 1 | 5383 | PMS2L5 |
| -0.067170295 | 0.33242588 | 0.564 | 1 | 57595 | PDZD4 |
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| -0.019500797 | 1.03421E-11 | 93166 | PRDM6 |
| -0.019511551 | 1.00761E-11 | 55322 | C5orf22 |
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| -0.070300914 | 0.310346106 | 0.54 | 1 | 29091 | STXBP6 |
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| -0.070606719 | 0.308242155 | 0.536 | 1 | 7827 | NPHS2 |
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| -0.020801719 | 4.00175E-13 | 81698 | LINC00597 |
| -0.020810515 | 3.91203E-13 | 1017 | CDK2 |
| -0.02083784 | 3.6457E-13 | 571 | BACH1 |
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| -0.020876082 | 3.30263E-13 | 121340 | SP7 |
| -0.020878012 | 3.61691E-13 | 1465 | CSRP1 |
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| -0.072388425 | 0.296170949 | 0.542 | 1 | 6238 | RRBP1 |
| -0.072400087 | 0.296092988 | 0.552 | 1 | 54112 | GPR88 |
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| -0.07253744 | 0.295175813 | 0.542 | 1 | 401507 | FAM74A1 |
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| -0.021244024 | 1.26481E-13 | 55791 | C1orf103 |
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| -0.021699452 | 3.76985E-14 | 5133 | PDCD1 |
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| -0.074867263 | 0.279906784 | 0.492 | 1 | 286753 | TUSC5 |
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| -0.074922982 | 0.279548277 | 0.506 | 1 | 440352 | SNX29P2 |
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| -0.075039602 | 0.278798918 | 0.559 | 1 | 150248 | C22orf15 |
| -0.075040898 | 0.278790599 | 0.505 | 1 | 2902 | GRIN1 |
| -0.075061631 | 0.278657525 | 0.56 | 1 | 23315 | SLC9A8 |
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| -0.07512642 | 0.278241945 | 0.484 | 1 | 79725 | THAP9 |
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| -0.075166589 | 0.277984496 | 0.522 | 1 | 28999 | KLF15 |
| -0.075204167 | 0.277743802 | 0.509 | 1 | 339834 | CCDC36 |
| -0.075208055 | 0.277718911 | 0.479 | 1 | 3250 | HPR |
| -0.075240449 | 0.277511543 | 0.531 | 1 | 10283 | SDCCAG10 |
| -0.075265069 | 0.277354013 | 0.513 | 1 | 152015 | ROPN1B |
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| -0.075363549 | 0.2767245 | 0.493 | 1 | 7776 | ZNF236 |
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| -0.075372619 | 0.276666568 | 0.541 | 1 | 1003 | CDH5 |
| -0.075380394 | 0.276616917 | 0.538 | 1 | 23245 | ASTN2 |
| -0.075384281 | 0.276592095 | 0.531 | 1 | 5922 | RASA2 |
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| -0.075581241 | 0.275336384 | 0.478 | 1 | 25938 | HEATR5A |
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| -0.100657287 | 0.145945456 | 0.397 | 1 | 10215 | OLIG2 |
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| -0.101756114 | 0.141578471 | 0.373 | 1 | 84553 | FAXC |
| -0.10176648 | 0.141537754 | 0.36 | 1 | 63926 | ANKRD5 |
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| -0.103228126 | 0.135885723 | 0.376 | 1 | 10902 | BRD8 |
| -0.103237197 | 0.135851198 | 0.372 | 1 | 51096 | UTP18 |
| -0.103248859 | 0.135806818 | 0.346 | 1 | 4848 | CNOT2 |
| -0.103252746 | 0.135792027 | 0.358 | 1 | 56979 | PRDM9 |
| -0.103260521 | 0.135762449 | 0.385 | 1 | 440 | ASNS |
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| -0.10358058 | 0.134549115 | 0.346 | 1 | 6338 | SCNN1B |
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| -0.104015964 | 0.132911994 | 0.388 | 1 | 5607 | MAP2K5 |
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| -0.104052246 | 0.132776262 | 0.365 | 1 | 9060 | PAPSS2 |
| -0.104118331 | 0.132529311 | 0.354 | 1 | 9866 | TRIM66 |
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| -0.110573936 | 0.110067271 | 0.344 | 1 | 79100 | RP1-10C16.2 |
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| -0.034383677 | 3.77198E-33 | 9435 | CHST2 |
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| -0.114208615 | 0.098805208 | 0.33 | 1 | 1849 | DUSP7 |
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| -0.114922593 | 0.096704385 | 0.328 | 1 | 245929 | DEFB115 |
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| -0.116423113 | 0.092405076 | 0.298 | 1 | 56244 | BTNL2 |
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| -0.116485311 | 0.092230216 | 0.304 | 1 | 10390 | CEPT1 |
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| -0.049930965 | 5.3707E-68 | 124935 | SLC43A2 |
| -0.049968733 | 4.26383E-68 | 1960 | EGR3 |
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| -0.155352405 | 0.024440194 | 0.201 | 1 | 5226 | PGD |
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| -0.15897931 | 0.021268743 | 0.211 | 1 | 151473 | SLC16A14 |
| -0.158993563 | 0.021257019 | 0.148 | 1 | 607 | BCL9 |
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| -0.161782094 | 0.019068278 | 0.164 | 1 | 119692 | OR51S1 |
| -0.161828742 | 0.019033395 | 0.155 | 1 | 1653 | DDX1 |
| -0.161842996 | 0.019022747 | 0.168 | 1 | 339398 | LINGO4 |
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| -0.161946659 | 0.018945466 | 0.157 | 1 | 54329 | GPR85 |
| -0.161966096 | 0.018931007 | 0.184 | 1 | 285971 | ZNF775 |
| -0.161977758 | 0.018922335 | 0.164 | 1 | 79886 | C9orf82 |
| -0.161980349 | 0.018920409 | 0.181 | 1 | 7328 | UBE2H |
| -0.161994603 | 0.018909816 | 0.149 | 1 | 5058 | PAK1 |
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| -0.162226549 | 0.01873817 | 0.158 | 1 | 85291 | KRTAP4-2 |
| -0.162236915 | 0.018730531 | 0.184 | 1 | 94081 | SFXN1 |
| -0.162279676 | 0.018699046 | 0.167 | 1 | 8504 | PEX3 |
| -0.16229393 | 0.018688561 | 0.158 | 1 | 7398 | USP1 |
| -0.162313366 | 0.018674272 | 0.194 | 1 | 57696 | DDX55 |
| -0.162319845 | 0.018669511 | 0.182 | 1 | 121260 | SLC15A4 |
| -0.162341874 | 0.018653332 | 0.166 | 1 | 342574 | KRT27 |
| -0.162356127 | 0.01864287 | 0.182 | 1 | 7179 | TPTE |
| -0.162374268 | 0.018629561 | 0.132 | 1 | 5567 | PRKACB |
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| -0.162397592 | 0.018612463 | 0.177 | 1 | 728489 | DNLZ |
| -0.162422212 | 0.018594429 | 0.166 | 1 | 57165 | GJC2 |
| -0.162444241 | 0.018578307 | 0.154 | 1 | 7292 | TNFSF4 |
| -0.162474044 | 0.018556513 | 0.177 | 1 | 10741 | RBBP9 |
| -0.162546608 | 0.018503544 | 0.178 | 1 | 2033 | EP300 |
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| -0.162655454 | 0.018424337 | 0.163 | 1 | 2146 | EZH2 |
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| -0.162671003 | 0.018413045 | 0.143 | 1 | 163115 | ZNF781 |
| -0.16272413 | 0.018374513 | 0.162 | 1 | 51170 | HSD17B11 |
| -0.162731905 | 0.018368879 | 0.181 | 1 | 7978 | MTERF |
| -0.162737088 | 0.018365125 | 0.177 | 1 | 8537 | BCAS1 |
| -0.162738384 | 0.018364186 | 0.165 | 1 | 339175 | METTL2A |
| -0.162772075 | 0.018339799 | 0.162 | 1 | 64423 | INF2 |
| -0.162779849 | 0.018334176 | 0.161 | 1 | 80273 | GRPEL1 |
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| -0.162882216 | 0.018260269 | 0.19 | 1 | 372 | ARCN1 |
| -0.163015682 | 0.018164299 | 0.141 | 1 | 782 | CACNB1 |
| -0.163016978 | 0.018163369 | 0.181 | 1 | 147947 | ZNF542 |
| -0.163018274 | 0.01816244 | 0.156 | 1 | 7453 | WARS |
| -0.163036415 | 0.018149431 | 0.157 | 1 | 54477 | PLEKHA5 |
| -0.163119345 | 0.018090063 | 0.163 | 1 | 644903 | FLJ38668 |
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| -0.163180247 | 0.018046572 | 0.162 | 1 | 1813 | DRD2 |
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| -0.163237262 | 0.01800594 | 0.167 | 1 | 149069 | DCDC2B |
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| -0.163294276 | 0.017965388 | 0.151 | 1 | 8502 | PK4P |
| -0.163353882 | 0.017923078 | 0.164 | 1 | 79165 | LENG1 |
| -0.163425151 | 0.017872603 | 0.155 | 1 | 23310 | NCAPD3 |
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| -0.05271933 | 1.33914E-75 | 91978 | C19orf20 |
| -0.052740563 | 1.16774E-75 | 128854 | TSPY26P |
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| -0.052745214 | 1.13321E-75 | 27154 | BRPF3 |
| -0.052745849 | 1.12858E-75 | 730183 | LOC730183 |
| -0.052765196 | 9.96116E-76 | 9454 | HOMER3 |
| -0.052779403 | 9.08824E-76 | 131870 | NUDT16 |
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| -0.052905071 | 4.03357E-76 | 23608 | MKRN1 |
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| -0.052990066 | 2.32598E-76 | 51172 | NAGPA |
| -0.052990078 | 2.32581E-76 | 9887 | SMG7 |
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| -0.053046376 | 1.61436E-76 | 9055 | PRC1 |
| -0.053052421 | 1.55226E-76 | 9033 | PKD2L1 |
| -0.053089899 | 1.21702E-76 | 10439 | OLFM1 |
| -0.053103767 | 2.92152E-76 | 83473 | KATNAL2 |
| -0.053105434 | 1.10021E-76 | 112398 | EGLN2 |
| -0.053124751 | 9.70433E-77 | 2591 | GALNT3 |
| -0.053127287 | 9.54568E-77 | 84971 | ATG4D |
| -0.053128971 | 9.44182E-77 | 10300 | KATNB1 |
| -0.05314749 | 8.37095E-77 | 93408 | MYL10 |
| -0.053171955 | 7.13975E-77 | 8085 | MLL2 |
| -0.053182822 | 7.86625E-77 | 3956 | LGALS1 |
| -0.053200795 | 5.91824E-77 | 7543 | ZFX |
| -0.053206695 | 5.69528E-77 | 157739 | TDH |
| -0.053209683 | 5.58559E-77 | 7126 | TNFAIP1 |
| -0.053217832 | 5.29702E-77 | 2636 | GBX1 |
| -0.053218514 | 5.27355E-77 | 4035 | LRP1 |
| -0.053222709 | 5.13147E-77 | 116969 | ART5 |
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| -0.053295329 | 3.19718E-77 | 134429 | STARD4 |
| -0.053301762 | 3.06585E-77 | 22864 | R3HDM2 |
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| -0.053312647 | 2.85579E-77 | 24147 | FJX1 |
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| -0.053381516 | 2.49252E-77 | 1299 | COL9A3 |
| -0.053387702 | 1.74984E-77 | 4208 | MEF2C |
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| -0.053430296 | 1.32477E-77 | 221785 | ZNF498 |
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| -0.053447448 | 1.18426E-77 | 27247 | NFU1 |
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| -0.053575368 | 5.12612E-78 | 51175 | TUBE1 |
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| -0.053657877 | 2.98377E-78 | 51528 | JKAMP |
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| -0.163471799 | 0.017839632 | 0.152 | 1 | 144423 | GLT1D1 |
| -0.163497715 | 0.017821338 | 0.161 | 1 | 66035 | SLC2A11 |
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| -0.163663575 | 0.017704642 | 0.168 | 1 | 4108 | MAGEA9 |
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| -0.164006958 | 0.017465159 | 0.156 | 1 | 10826 | C5orf4 |
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| -0.164038057 | 0.01744361 | 0.133 | 1 | 57404 | CYP20A1 |
| -0.164069156 | 0.017422085 | 0.154 | 1 | 7433 | VIPR1 |
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| -0.164321834 | 0.017248045 | 0.13 | 1 | 85379 | KIAA1671 |
| -0.164339975 | 0.017235609 | 0.161 | 1 | 23271 | CAMSAP1L1 |
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| -0.164461779 | 0.017152308 | 0.161 | 1 | 283345 | RPL13P5 |
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| -0.16455378 | 0.017089623 | 0.164 | 1 | 56006 | C19orf61 |
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| -0.164634119 | 0.017035047 | 0.169 | 1 | 56673 | C11orf16 |
| -0.164695021 | 0.016993777 | 0.141 | 1 | 8110 | DPF3 |
| -0.164695021 | 0.016993777 | 0.182 | 1 | 140881 | DEFB129 |
| -0.164714457 | 0.016980624 | 0.147 | 1 | 57488 | ESYT2 |
| -0.164720936 | 0.016976242 | 0.155 | 1 | 8626 | TP63 |
| -0.164749444 | 0.016956971 | 0.161 | 1 | 286075 | ZNF707 |
| -0.164754627 | 0.016953469 | 0.17 | 1 | 29899 | GPSM2 |
| -0.16478443 | 0.016933346 | 0.151 | 1 | 400566 | C17orf97 |
| -0.1647935 | 0.016927226 | 0.166 | 1 | 605 | BCL7A |
| -0.164794796 | 0.016926352 | 0.167 | 1 | 6534 | SLC6A7 |
| -0.164893276 | 0.016860032 | 0.151 | 1 | 23353 | UNC84A |
| -0.164915304 | 0.016845228 | 0.147 | 1 | 3204 | HOXA7 |
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| -0.165065615 | 0.016744518 | 0.142 | 1 | 23347 | AP001011.3 |
| -0.16515632 | 0.016683999 | 0.151 | 1 | 151354 | FAM84A |
| -0.165239251 | 0.016628834 | 0.151 | 1 | 55676 | SLC30A6 |
| -0.165320885 | 0.016574687 | 0.132 | 1 | 10750 | GRAP |
| -0.165357167 | 0.016550671 | 0.145 | 1 | 257236 | CCDC96 |
| -0.165383083 | 0.016533536 | 0.176 | 1 | 84376 | HOOK3 |
| -0.165434914 | 0.016499311 | 0.171 | 1 | 340198 | IFITM4P |
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| -0.165532098 | 0.016435307 | 0.166 | 1 | 150223 | YDJC |
| -0.165661677 | 0.016350305 | 0.152 | 1 | 51322 | WAC |
| -0.165677226 | 0.01634013 | 0.159 | 1 | 55081 | IFT57 |
| -0.165683705 | 0.016335893 | 0.155 | 1 | 7332 | UBE2L3 |
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| -0.165875481 | 0.016210891 | 0.163 | 1 | 3002 | GZMB |
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| -0.166072441 | 0.016083383 | 0.132 | 1 | 168850 | ZNF800 |
| -0.166075032 | 0.016081711 | 0.167 | 1 | 26973 | CHORDC1 |
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| -0.166231823 | 0.015980844 | 0.139 | 1 | 26249 | KLHL3 |
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| -0.166331598 | 0.015916944 | 0.171 | 1 | 7030 | TFE3 |
| -0.166331598 | 0.015916944 | 0.136 | 1 | 11070 | TMEM115 |
| -0.166335485 | 0.015914459 | 0.161 | 1 | 55367 | LRDD |
| -0.166356218 | 0.015901211 | 0.15 | 1 | 125972 | CALR3 |
| -0.166363993 | 0.015896246 | 0.162 | 1 | 91801 | ALKBH8 |
| -0.166400275 | 0.015873091 | 0.149 | 1 | 10953 | TOMM34 |
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| -0.053746383 | 1.66824E-78 | 7553 | ZNF7 |
| -0.0537626 | 1.4995E-78 | 54908 | CCDC99 |
| -0.053765096 | 1.47509E-78 | 1814 | DRD3 |
| -0.053767596 | 1.45103E-78 | 84217 | ZMYND12 |
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| -0.053784724 | 1.29641E-78 | 84146 | ZNF644 |
| -0.053789339 | 1.25764E-78 | 728658 | RPL13AP5 |
| -0.053799877 | 1.17338E-78 | 1788 | DNMT3A |
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| -0.053808254 | 1.11044E-78 | 25897 | RNF19A |
| -0.053817566 | 1.04442E-78 | 867 | CBL |
| -0.053821798 | 1.01572E-78 | 23116 | FAM179B |
| -0.053828805 | 9.69923E-79 | 154150 | HDGFL1 |
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| -0.053932065 | 4.91088E-79 | 669 | BPGM |
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| -0.054000565 | 3.12439E-79 | 1454 | CSNK1E |
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| -0.054036442 | 2.46495E-79 | 4478 | MSN |
| -0.054088593 | 1.74591E-79 | 692312 | PPAN-P2RY11 |
| -0.054103326 | 1.58372E-79 | 6472 | SHMT2 |
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| -0.054204667 | 8.09322E-80 | 1200 | TPP1 |
| -0.054216948 | 7.46024E-80 | 4803 | NGF |
| -0.05422161 | 7.2331E-80 | 3588 | IL10RB |
| -0.054225309 | 7.05778E-80 | 7454 | WAS |
| -0.054234619 | 6.63507E-80 | 10617 | STAMBP |
| -0.054244818 | 6.20094E-80 | 51542 | VPS54 |
| -0.054253373 | 5.8587E-80 | 1874 | E2F4 |
| -0.054255895 | 5.76144E-80 | 387066 | SNHG5 |
| -0.054261222 | 5.5613E-80 | 2125 | EVPL |
| -0.054273089 | 5.13999E-80 | 266 | AMELY |
| -0.054278514 | 4.95816E-80 | 7268 | TTC4 |
| -0.054294859 | 4.44815E-80 | 100293090 | MTND4P12 |
| -0.054307252 | 4.09665E-80 | 9993 | DGCR2 |
| -0.054313592 | 3.92767E-80 | 146542 | ZNF688 |
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| -0.054417067 | 1.97368E-80 | 9717 | SEC14L5 |
| -0.054456661 | 1.51624E-80 | 7161 | TP73 |
| -0.054460278 | 1.48014E-80 | 3567 | IL5 |
| -0.054468623 | 1.40009E-80 | 387849 | REP15 |
| -0.054469512 | 1.39183E-80 | 3846 | KRTAP5-9 |
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| -0.17022673 | 0.013590816 | 0.137 | 1 | 7564 | ZNF16 |
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| -0.170391295 | 0.013499484 | 0.142 | 1 | 3219 | HOXB9 |
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| -0.055795471 | 1.81898E-84 | 4745 | NELL1 |
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| -0.055824735 | 4.3303E-84 | 401237 | LINC00340 |
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| -0.055890031 | 9.53429E-85 | 7782 | SLC30A4 |
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| -0.055899766 | 8.92034E-85 | 51128 | SAR1B |
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| -0.055904467 | 8.6381E-85 | 84612 | PARD6B |
| -0.055907099 | 8.48404E-85 | 400961 | PAIP2B |
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| -0.056109381 | 2.12176E-85 | 6429 | SFRS4 |
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| -0.056187545 | 1.24031E-85 | 8497 | PPFIA4 |
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| -0.056245914 | 8.3023E-86 | 1118 | CHIT1 |
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| -0.056323444 | 4.86814E-86 | 51735 | RAPGEF6 |
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| -0.056383682 | 3.21375E-86 | 8351 | HIST1H3D |
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| -0.05648109 | 1.64047E-86 | 5250 | SLC25A3 |
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| -0.172498243 | 0.012376924 | 0.126 | 1 | 221692 | PHACTR1 |
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| -0.173043768 | 0.012100022 | 0.141 | 1 | 790 | CAD |
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| -0.173127994 | 0.01205776 | 0.131 | 1 | 79670 | ZCCHC6 |
| -0.173142248 | 0.012050621 | 0.136 | 1 | 55095 | SAMD4B |
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| -0.173155206 | 0.012044134 | 0.138 | 1 | 23389 | MED13L |
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| -0.173181122 | 0.01203117 | 0.141 | 1 | 445815 | PALM2-AKAP2 |
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| -0.056647763 | 5.17713E-87 | 118472 | ZNF511 |
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| -0.056691222 | 3.83039E-87 | 3040 | HBA2 |
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| -0.056921828 | 7.7137E-88 | 5618 | PRLR |
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| -0.057002131 | 4.55419E-88 | 8544 | PIR |
| -0.057026505 | 3.71886E-88 | 665 | BNIP3L |
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| -0.057049395 | 3.16988E-88 | 9025 | RNF8 |
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| -0.057179158 | 1.32513E-88 | 3163 | HMOX2 |
| -0.057196509 | 1.13388E-88 | 6327 | SCN2B |
| -0.057198194 | 1.1206E-88 | 151987 | PPP4R2 |
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| -0.057250772 | 7.75524E-89 | 60526 | C2orf43 |
| -0.057271495 | 6.70738E-89 | 83874 | TBC1D10A |
| -0.057301273 | 5.44404E-89 | 84181 | CHD6 |
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| -0.057431412 | 2.18413E-89 | 282991 | BLOC1S2 |
| -0.057436318 | 2.11012E-89 | 57191 | VN1R1 |
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| -0.057444846 | 1.98739E-89 | 7507 | XPA |
| -0.05746804 | 1.68842E-89 | 54959 | ODAM |
| -0.057475653 | 1.60041E-89 | 7589 | ZSCAN21 |
| -0.057490651 | 1.44022E-89 | 6452 | SH3BP2 |
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| -0.057750802 | 2.30149E-90 | 3263 | HPX |
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| -0.057752732 | 2.27032E-90 | 84922 | FIZ1 |
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| -0.057826216 | 1.3504E-90 | 285180 | RUFY4 |
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| -0.175893201 | 0.010740611 | 0.129 | 1 | 347148 | QRFP |
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| -0.17607202 | 0.01065999 | 0.133 | 1 | 55139 | ANKZF1 |
| -0.176123851 | 0.010636722 | 0.132 | 1 | 79738 | BBS10 |
| -0.176127739 | 0.010634978 | 0.153 | 1 | 6429 | SFRS4 |
| -0.176136809 | 0.010630911 | 0.122 | 1 | 2788 | AC005512.1 |
| -0.176144584 | 0.010627427 | 0.124 | 1 | 2157 | F8 |
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| -0.176266388 | 0.010572965 | 0.149 | 1 | 128486 | FITM2 |
| -0.176297486 | 0.0105591 | 0.118 | 1 | 5453 | POU3F1 |
| -0.17631174 | 0.01055275 | 0.121 | 1 | 57560 | IFT80 |
| -0.176362276 | 0.010530265 | 0.139 | 1 | 440295 | AC135995.5 |
| -0.176416699 | 0.010506098 | 0.117 | 1 | 170371 | C10orf128 |
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| -0.176708251 | 0.010377464 | 0.144 | 1 | 5832 | ALDH18A1 |
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| -0.176817097 | 0.010329799 | 0.149 | 1 | 54414 | SIAE |
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| -0.059729875 | 1.53232E-96 | 27249 | MMADHC |
| -0.059749101 | 1.33144E-96 | 100129933 | GLYATL1P2 |
| -0.059749806 | 1.32459E-96 | 8564 | KMO |
| -0.059768958 | 1.15151E-96 | 55892 | MYNN |
| -0.059784139 | 1.03051E-96 | 285203 | C3orf64 |
| -0.059789311 | 2.43845E-96 | 5480 | PPIC |
| -0.059798067 | 9.30691E-97 | 79058 | ASPSCR1 |
| -0.059820198 | 7.91545E-97 | 63943 | FKBPL |
| -0.059865677 | 1.93548E-96 | 25797 | QPCT |
| -0.059876341 | 5.24735E-97 | 10174 | SORBS3 |

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| -0.181570039 | 0.008428522 | 0.128 | 1 | 10949 | HNRNPA0 |
| -0.181601138 | 0.008417182 | 0.101 | 1 | 27439 | CECR6 |
| -0.181603729 | 0.008416237 | 0.124 | 1 | 285955 | SPDYE1 |
| -0.181620574 | 0.008410101 | 0.117 | 1 | 27304 | MOCS3 |
| -0.181650378 | 0.008399255 | 0.123 | 1 | 57721 | METTL14 |
| -0.181655561 | 0.00839737 | 0.141 | 1 | 64102 | TNMD |
| -0.181658152 | 0.008396427 | 0.117 | 1 | 5927 | KDM5A |
| -0.18172942 | 0.008370548 | 0.131 | 1 | 25823 | TPSG1 |
| -0.181739787 | 0.00836679 | 0.114 | 1 | 728613 | LOC728613 |
| -0.181746266 | 0.008364442 | 0.12 | 1 | 340529 | PABPC1L2A |
| -0.18179421 | 0.008347083 | 0.103 | 1 | 23639 | LRRC6 |
| -0.181890098 | 0.008312463 | 0.125 | 1 | 1943 | EFNA2 |
| -0.181918605 | 0.008302195 | 0.14 | 1 | 2057 | EPOR |
| -0.181932859 | 0.008297065 | 0.113 | 1 | 84634 | KISS1R |
| -0.182023564 | 0.008264487 | 0.125 | 1 | 9649 | RALGPS1 |
| -0.182043001 | 0.008257521 | 0.109 | 1 | 23228 | PLCL2 |
| -0.182068916 | 0.008248241 | 0.114 | 1 | 636 | BICD1 |
| -0.182098719 | 0.00823758 | 0.115 | 1 | 5082 | PDCL |
| -0.182115565 | 0.00823156 | 0.122 | 1 | 8464 | SUPT3H |
| -0.182119452 | 0.008230172 | 0.121 | 1 | 79003 | MIS12 |
| -0.182120748 | 0.008229709 | 0.11 | 1 | 682 | BSG |
| -0.182122044 | 0.008229246 | 0.132 | 1 | 53345 | TM6SF2 |
| -0.182153142 | 0.008218145 | 0.121 | 1 | 442572 | LOC442572 |
| -0.182173875 | 0.008210752 | 0.123 | 1 | 55118 | CRTAC1 |
| -0.182189424 | 0.008205211 | 0.111 | 1 | 2738 | GLI4 |
| -0.182208861 | 0.008198289 | 0.125 | 1 | 23597 | ACOT9 |
| -0.182276242 | 0.008174334 | 0.117 | 1 | 79940 | LINC00472 |
| -0.182316411 | 0.008160083 | 0.13 | 1 | 7849 | PAX8 |
| -0.182373426 | 0.008139894 | 0.141 | 1 | 92999 | ZBTB47 |
| -0.182426553 | 0.008121121 | 0.146 | 1 | 5500 | PPP1CB |
| -0.182427849 | 0.008120663 | 0.118 | 1 | 7356 | SCGB1A1 |
| -0.182440807 | 0.008116091 | 0.122 | 1 | 50508 | NOX3 |
| -0.182535399 | 0.00808278 | 0.116 | 1 | 5605 | MAP2K2 |
| -0.18254447 | 0.008079592 | 0.108 | 1 | 51692 | CPSF3 |
| -0.182610555 | 0.0080564 | 0.128 | 1 | 10668 | CGRRF1 |
| -0.182620921 | 0.008052768 | 0.116 | 1 | 137994 | LETM2 |
| -0.182635175 | 0.008047775 | 0.113 | 1 | 131450 | CD200R1 |
| -0.182681823 | 0.008031456 | 0.122 | 1 | 56850 | GRIPAP1 |
| -0.182690894 | 0.008028286 | 0.11 | 1 | 388799 | C20orf107 |
| -0.182719401 | 0.008018331 | 0.12 | 1 | 89944 | GLB1L2 |
| -0.182727176 | 0.008015618 | 0.102 | 1 | 64718 | C16orf28 |
| -0.182744021 | 0.008009743 | 0.13 | 1 | 2194 | FASN |
| -0.182749204 | 0.008007935 | 0.126 | 1 | 340286 | FAM183B |
| -0.182777711 | 0.007998003 | 0.097 | 1 | 5905 | RANGAP1 |
| -0.182872304 | 0.007965124 | 0.113 | 1 | 51029 | PPPDE1 |
| -0.182895628 | 0.007957035 | 0.11 | 1 | 23005 | MAPKBP1 |
| -0.182947459 | 0.007939087 | 0.135 | 1 | 5352 | PLOD2 |
| -0.182948755 | 0.007938638 | 0.096 | 1 | 10541 | ANP32B |
| -0.182992812 | 0.007923411 | 0.138 | 1 | 219952 | OR6Q1 |
| -0.183026502 | 0.007911784 | 0.12 | 1 | 56133 | PCDHB2 |
| -0.18311332 | 0.007881893 | 0.119 | 1 | 79660 | PPP1R3B |
| -0.183134052 | 0.00787477 | 0.122 | 1 | 23619 | ZIM2 |
| -0.183135348 | 0.007874325 | 0.101 | 1 | 57521 | RPTOR |
| -0.183158672 | 0.007866318 | 0.137 | 1 | 3480 | IGF1R |
| -0.183210504 | 0.007848552 | 0.121 | 1 | 56110 | PCDHGA5 |
| -0.183233828 | 0.007840569 | 0.091 | 1 | 54464 | XRN1 |
| -0.18325456 | 0.007833479 | 0.124 | 1 | 55319 | C4orf43 |
| -0.183264927 | 0.007829936 | 0.098 | 1 | 610 | HCN2 |
| -0.183384139 | 0.007789296 | 0.093 | 1 | 10476 | ATP5H |
| -0.183417829 | 0.007777844 | 0.109 | 1 | 57561 | ARRDC3 |
| -0.183438562 | 0.007770805 | 0.098 | 1 | 1812 | DRD1 |
| -0.183445041 | 0.007768606 | 0.075 | 1 | 26115 | TANC2 |
| -0.183454111 | 0.007765529 | 0.124 | 1 | 51507 | C20orf43 |
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| -0.183569436 | 0.007726499 | 0.115 | 1 | 85366 | MYLK2 |
| -0.183586282 | 0.007720813 | 0.109 | 1 | 7568 | ZNF20 |
| -0.183675691 | 0.007690694 | 0.103 | 1 | 146664 | MGAT5B |
| -0.183793607 | 0.007651132 | 0.126 | 1 | 646508 | AC092070.5 |
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| -0.183854509 | 0.00763077 | 0.116 | 1 | 9265 | CYTH3 |
| -0.183873946 | 0.007624281 | 0.124 | 1 | 9686 | VGLL4 |
| -0.183880425 | 0.00762212 | 0.123 | 1 | 29952 | DPP7 |
| -0.183910228 | 0.007612183 | 0.097 | 1 | 9765 | ZFYVE16 |
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| -0.183945214 | 0.007600533 | 0.124 | 1 | 22794 | CASC3 |
| -0.183958172 | 0.007596222 | 0.108 | 1 | 9177 | HTR3B |
| -0.184011299 | 0.00757857 | 0.102 | 1 | 80127 | C14orf45 |
| -0.18404499 | 0.007567396 | 0.121 | 1 | 641339 | ZNF674 |
| -0.184056652 | 0.007563531 | 0.128 | 1 | 4931 | NVL |
| -0.184175864 | 0.007524125 | 0.119 | 1 | 3185 | HNRNPF |
| -0.184258794 | 0.007496821 | 0.103 | 1 | 22850 | ADNP2 |

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| -0.059880154 | 5.1028E-97 | 165545 | DQX1 |
| -0.059898762 | 4.45242E-97 | 4793 | NFKBIB |
| -0.059901112 | 4.37638E-97 | 4659 | PPP1R12A |
| -0.059936881 | 3.36694E-97 | 43847 | KLK14 |
| -0.059952514 | 3.00221E-97 | 51027 | BOLA1 |
| -0.059963457 | 2.77063E-97 | 92856 | IMP4 |
| -0.059986727 | 2.33574E-97 | 6882 | TAF11 |
| -0.059987144 | 4.42202E-97 | 56935 | C11orf75 |
| -0.05999934 | 2.1292E-97 | 340811 | AKR1CL1 |
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| -0.060028935 | 1.71334E-97 | 6737 | TRIM21 |
| -0.0600328 | 1.66538E-97 | 23536 | ADAT1 |
| -0.06003541 | 1.63376E-97 | 347731 | LRRTM3 |
| -0.060049519 | 1.47291E-97 | 1736 | DKC1 |
| -0.060098025 | 1.03121E-97 | 4131 | MAP1B |
| -0.060100393 | 1.01341E-97 | 6304 | SATB1 |
| -0.060124744 | 8.47238E-98 | 9816 | URB2 |
| -0.060126815 | 8.34425E-98 | 8884 | SLC5A6 |
| -0.060145023 | 7.29808E-98 | 10943 | MSL3 |
| -0.060146253 | 7.23231E-98 | 246243 | RNASEH1 |
| -0.060164045 | 6.34464E-98 | 51400 | PPME1 |
| -0.060184663 | 5.45112E-98 | 4299 | AFF1 |
| -0.060198814 | 4.91162E-98 | 6715 | SRD5A1 |
| -0.060202819 | 4.76887E-98 | 128866 | CHMP4B |
| -0.060206351 | 4.64639E-98 | 649 | BMP1 |
| -0.060210824 | 4.49579E-98 | 64718 | C16orf28 |
| -0.060222719 | 4.11856E-98 | 27 | ABL2 |
| -0.060233086 | 3.81566E-98 | 10199 | MPHOSPH10 |
| -0.060263956 | 3.03909E-98 | 79713 | TMEM149 |
| -0.060266847 | 2.97501E-98 | 10391 | CORO2B |
| -0.060283877 | 2.62389E-98 | 1183 | CLCN4 |
| -0.060288847 | 2.52944E-98 | 56937 | PMEPA1 |
| -0.060290221 | 2.50393E-98 | 140832 | WFDC10A |
| -0.060294835 | 2.42013E-98 | 127733 | UBXN10 |
| -0.060320507 | 2.00251E-98 | 115209 | OMA1 |
| -0.060321813 | 1.9833E-98 | 9159 | PCSK7 |
| -0.060326205 | 1.92004E-98 | 8675 | STX16 |
| -0.060337041 | 1.77244E-98 | 140628 | GATA5 |
| -0.060346339 | 1.65487E-98 | 728882 | FAM182B |
| -0.060355475 | 1.54691E-98 | 3624 | INHBA |
| -0.060364668 | 1.44537E-98 | 729786 | GOLGA8C |
| -0.060369482 | 1.39488E-98 | 55471 | C2orf56 |
| -0.060372415 | 1.36499E-98 | 56158 | TEX12 |
| -0.06037505 | 1.33868E-98 | 9673 | SLC25A44 |
| -0.060391133 | 1.18871E-98 | 84679 | SLC9A7 |
| -0.060401772 | 3.83214E-98 | 84688 | C9orf24 |
| -0.06044021 | 8.2704E-99 | 79575 | ABHD8 |
| -0.060460416 | 7.1223E-99 | 6709 | SPTAN1 |
| -0.060468574 | 2.31069E-98 | 23199 | KIAA0182 |
| -0.060479823 | 6.1697E-99 | 5763 | PTMS |
| -0.060481234 | 6.1056E-99 | 80039 | FAM106A |
| -0.060484453 | 5.9619E-99 | 3476 | IGBP1 |
| -0.06050815 | 5.0028E-99 | 162514 | TRPV3 |
| -0.060515835 | 4.7261E-99 | 204801 | NLRP11 |
| -0.060542656 | 3.8747E-99 | 2339 | FNTA |
| -0.060548149 | 3.7202E-99 | 7464 | CORO2A |
| -0.060563337 | 3.3243E-99 | 5226 | PGD |
| -0.060563829 | 3.3122E-99 | 10498 | CARM1 |
| -0.060583658 | 2.8595E-99 | 654466 | KGFLP2 |
| -0.060607999 | 2.3873E-99 | 9796 | AC105206.1 |
| -0.060609894 | 2.354E-99 | 5337 | PLD1 |
| -0.06061023 | 2.3482E-99 | 146167 | SLC38A8 |
| -0.060642509 | 1.8482E-99 | 9936 | CD302 |
| -0.060644626 | 1.8194E-99 | 9265 | CYTH3 |
| -0.060654499 | 1.6909E-99 | 646934 | LOC646934 |
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| -0.060693859 | 1.2624E-99 | 91782 | CHMP7 |
| -0.060706812 | 1.1467E-99 | 51231 | VRK3 |
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| -0.06073315 | 1.6896E-99 | 2621 | GAS6 |
| -0.060745313 | 8.6139E-100 | 7750 | ZMYM2 |
| -0.060769765 | 7.1822E-100 | 3394 | IRF8 |
| -0.060786201 | 6.3559E-100 | 5091 | PC |
| -0.060800444 | 5.717E-100 | 100128062 | SLC2A3P1 |
| -0.060801861 | 5.657E-100 | 25948 | KBTBD2 |
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| -0.060840223 | 4.2522E-100 | 8433 | UTF1 |
| -0.060849717 | 3.962E-100 | 8396 | PIP5K2B |
| -0.060927659 | 2.2168E-100 | 139716 | GAB3 |
| -0.060935196 | 2.0957E-100 | 10430 | TMEM147 |
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| -0.18426009 | 0.007496395 | 0.122 | 1 | 254228 | FAM26E |
| -0.184331358 | 0.007473002 | 0.109 | 1 | 283652 | SLC24A5 |
| -0.184467416 | 0.007428523 | 0.089 | 1 | 4017 | LOXL2 |
| -0.184484261 | 0.007423033 | 0.105 | 1 | 10943 | MSL3 |
| -0.184565896 | 0.007396477 | 0.124 | 1 | 8431 | NR0B2 |
| -0.184590515 | 0.007388484 | 0.105 | 1 | 283298 | OLFML1 |
| -0.18461384 | 0.00738092 | 0.097 | 1 | 114034 | TOE1 |
| -0.184619023 | 0.00737924 | 0.095 | 1 | 1912 | PHC2 |
| -0.184620319 | 0.00737882 | 0.107 | 1 | 1112 | FOXN3 |
| -0.184629389 | 0.007375881 | 0.121 | 1 | 6767 | ST13 |
| -0.184669558 | 0.007362877 | 0.11 | 1 | 22866 | CNKSR2 |
| -0.184736939 | 0.00734111 | 0.131 | 1 | 2219 | FCN1 |
| -0.184743418 | 0.00733902 | 0.109 | 1 | 79827 | AP000926.2 |
| -0.184771926 | 0.007329831 | 0.104 | 1 | 4058 | LTK |
| -0.184870405 | 0.007298164 | 0.121 | 1 | 373863 | DND1 |
| -0.184966293 | 0.007267448 | 0.129 | 1 | 1938 | EEF2 |
| -0.18500128 | 0.00725627 | 0.108 | 1 | 833 | CARS |
| -0.185054407 | 0.007239325 | 0.121 | 1 | 51149 | C5orf45 |
| -0.185106238 | 0.007222827 | 0.126 | 1 | 2741 | GLRA1 |
| -0.185125675 | 0.007216649 | 0.126 | 1 | 340745 | LRIT2 |
| -0.18513345 | 0.007214179 | 0.11 | 1 | 4627 | MYH9 |
| -0.185156774 | 0.007206774 | 0.126 | 1 | 51126 | NAT5 |
| -0.18518269 | 0.007198554 | 0.12 | 1 | 146853 | C17orf50 |
| -0.185237113 | 0.007181319 | 0.099 | 1 | 9814 | SFI1 |
| -0.185275986 | 0.007169031 | 0.126 | 1 | 6295 | SAG |
| -0.185287648 | 0.007165349 | 0.106 | 1 | 145978 | NCRNA00052 |
| -0.185358916 | 0.00714288 | 0.106 | 1 | 84437 | KIAA1826 |
| -0.18542241 | 0.007122915 | 0.103 | 1 | 5601 | MAPK9 |
| -0.185423706 | 0.007122508 | 0.115 | 1 | 157313 | CDCA2 |
| -0.185476833 | 0.007105842 | 0.132 | 1 | 124044 | SPATA2L |
| -0.185489791 | 0.007101782 | 0.113 | 1 | 25989 | ULK3 |
| -0.185522185 | 0.007091643 | 0.133 | 1 | 221527 | ZBTB12 |
| -0.185523481 | 0.007091237 | 0.111 | 1 | 5126 | PCSK2 |
| -0.185551989 | 0.007082325 | 0.138 | 1 | 55249 | YY1AP1 |
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| -0.18561289 | 0.007063319 | 0.114 | 1 | 91782 | CHMP7 |
| -0.185631031 | 0.007057667 | 0.071 | 1 | 201163 | FLCN |
| -0.1857023 | 0.0070355 | 0.118 | 1 | 200373 | AC069154.2 |
| -0.185729511 | 0.007027052 | 0.111 | 1 | 2931 | GSK3A |
| -0.185795596 | 0.007006575 | 0.131 | 1 | 54811 | ZNF562 |
| -0.185894076 | 0.006976159 | 0.101 | 1 | 8189 | SYMPK |
| -0.185919992 | 0.006968174 | 0.13 | 1 | 57062 | DDX24 |
| -0.185923879 | 0.006966977 | 0.125 | 1 | 54877 | ZCCHC2 |
| -0.185982189 | 0.006949044 | 0.113 | 1 | 337 | APOA4 |
| -0.186006809 | 0.006941484 | 0.107 | 1 | 10499 | NCOA2 |
| -0.186062528 | 0.006924404 | 0.125 | 1 | 23536 | ADAT1 |
| -0.186071599 | 0.006921627 | 0.112 | 1 | 56992 | KIF15 |
| -0.186109176 | 0.006910132 | 0.116 | 1 | 57084 | SLC17A6 |
| -0.186132501 | 0.006903006 | 0.103 | 1 | 10130 | PDIA6 |
| -0.186159712 | 0.006894701 | 0.119 | 1 | 26523 | EIF2C1 |
| -0.186161008 | 0.006894306 | 0.122 | 1 | 55291 | SAPS3 |
| -0.18617267 | 0.00689075 | 0.099 | 1 | 22883 | CLSTN1 |
| -0.186202473 | 0.006881668 | 0.114 | 1 | 7226 | TRPM2 |
| -0.186215431 | 0.006877723 | 0.121 | 1 | 376940 | ZC3H6 |
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| -0.186220614 | 0.006876146 | 0.108 | 1 | 57037 | ANKMY2 |
| -0.186315206 | 0.006847414 | 0.122 | 1 | 51107 | APH1A |
| -0.186352784 | 0.00683603 | 0.092 | 1 | 25806 | VAX2 |
| -0.186383883 | 0.006826622 | 0.107 | 1 | 2760 | GM2A |
| -0.186443489 | 0.006808621 | 0.124 | 1 | 3661 | IRF3 |
| -0.186473292 | 0.006799636 | 0.118 | 1 | 9727 | RAB11FIP3 |
| -0.186627491 | 0.006753321 | 0.109 | 1 | 1638 | DCT |
| -0.186646928 | 0.006747503 | 0.127 | 1 | 56916 | SMARCAD1 |
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| -0.186703942 | 0.006730462 | 0.111 | 1 | 163131 | ZNF780B |
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| -0.186810197 | 0.006698807 | 0.11 | 1 | 9477 | MED20 |
| -0.18692293 | 0.006665368 | 0.123 | 1 | 253982 | ASPHD1 |
| -0.186929409 | 0.006663451 | 0.105 | 1 | 55313 | CPPED1 |
| -0.18699679 | 0.006643541 | 0.086 | 1 | 222696 | ZSCAN23 |
| -0.187016226 | 0.006637807 | 0.093 | 1 | 169270 | ZNF596 |
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| -0.187047325 | 0.006628643 | 0.11 | 1 | 115416 | MALSU1 |
| -0.187068058 | 0.00662254 | 0.111 | 1 | 4141 | MARS |
| -0.18708879 | 0.006616442 | 0.124 | 1 | 4297 | MLL |
| -0.187091382 | 0.00661568 | 0.092 | 1 | 283578 | TMED8 |
| -0.187166538 | 0.006593618 | 0.117 | 1 | 55194 | FAM176B |
| -0.187242989 | 0.006571243 | 0.095 | 1 | 9972 | NUP153 |
| -0.187298708 | 0.006554979 | 0.116 | 1 | 84945 | ABHD13 |
| -0.187371272 | 0.006533852 | 0.114 | 1 | 55969 | C20orf24 |
| -0.187392004 | 0.006527827 | 0.099 | 1 | 55002 | TMCO3 |
| -0.187443836 | 0.006512786 | 0.1 | 1 | 11158 | RABL2B |

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| -0.06096523 | 1.6752E-100 | 10099 | TSPAN3 |
| -0.060969715 | 1.6201E-100 | 84978 | FRMD5 |
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| -0.060970621 | 2.0702E-100 | 55858 | TMEM165 |
| -0.060974295 | 1.5657E-100 | 339291 | LRRC30 |
| -0.060982964 | 1.4676E-100 | 55680 | RUFY2 |
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| -0.061048322 | 9.0095E-101 | 83992 | CTTNBP2 |
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| -0.061076388 | 7.3053E-101 | 9693 | RAPGEF2 |
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| -0.061097386 | 6.2442E-101 | 2073 | ERCC5 |
| -0.061128995 | 4.9298E-101 | 3012 | HIST1H2AE |
| -0.061148115 | 4.2728E-101 | 80018 | C12orf30 |
| -0.061195635 | 2.994E-101 | 84727 | SPSB2 |
| -0.061197321 | 2.9564E-101 | 1269 | CNR2 |
| -0.061206231 | 2.7656E-101 | 6279 | S100A8 |
| -0.061216961 | 2.552E-101 | 1005 | CDH7 |
| -0.061226545 | 2.3752E-101 | 2597 | GAPDH |
| -0.061231005 | 2.2972E-101 | 1622 | DBI |
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| -0.06125148 | 1.9705E-101 | 23457 | ABCB9 |
| -0.061258255 | 1.8729E-101 | 9980 | DOPEY2 |
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| -0.061646224 | 1.013E-102 | 4656 | MYOG |
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| -0.061656692 | 9.3609E-103 | 79724 | ZNF768 |
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| -0.062418426 | 2.8848E-105 | 4240 | MFGE8 |
| -0.062429432 | 2.6522E-105 | 54762 | GRAMD1C |
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| -0.06296896 | 4.2259E-107 | 79979 | TRMT2B |
| -0.062998099 | 3.3759E-107 | 3182 | HNRNPAB |
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| -0.063057311 | 2.1382E-107 | 10565 | ARFGEF1 |
| -0.063061937 | 2.0633E-107 | 9949 | AMMECR1 |
| -0.063065127 | 2.0131E-107 | 23204 | ARL6IP1 |
| -0.063068492 | 1.9615E-107 | 124044 | SPATA2L |
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| -0.191579984 | 0.005407942 | 0.096 | 1 | 7871 | SLMAP |
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| -0.191705675 | 0.005377175 | 0.094 | 1 | 353497 | POLN |
| -0.191716042 | 0.005374645 | 0.104 | 1 | 29071 | C1GALT1C1 |
| -0.19172252 | 0.005373064 | 0.107 | 1 | 3455 | IFNAR2 |
| -0.191726408 | 0.005372115 | 0.096 | 1 | 9542 | NRG2 |
| -0.191744549 | 0.005367692 | 0.095 | 1 | 1021 | CDK6 |
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| -0.191959649 | 0.005315487 | 0.12 | 1 | 23170 | TTLL12 |
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| -0.07747634 | 2.8358E-161 | 7554 | ZNF8 |
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| -0.232657689 | 0.000699461 | 0.034 | 1 | 672 | BRCA1 |
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| -0.082566681 | 5.8786E-183 | 9824 | ARHGAP11A |
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| -0.082598926 | 4.2411E-183 | 57198 | ATP8B2 |
| -0.082644608 | 2.6699E-183 | 6689 | SPIB |
| -0.082671834 | 2.0261E-183 | 348825 | TPRXL |
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| -0.251044889 | 0.000248084 | 0.026 | 1 | 389690 | AC100803.1 |
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| -0.100319013 | 1.603E-269 | 25876 | SPEF1 |
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| -0.100360245 | 9.6379E-270 | 161253 | REM2 |
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| -0.101238031 | 1.813E-274 | 51226 | COPZ2 |
| -0.101261618 | 1.3515E-274 | 55163 | PNPO |
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| -0.373500533 | 3.01954E-08 | < 0.001 | < 0.001 | 149840 | C20orf196 |
| -0.373632703 | 2.98382E-08 | 0.007 | 1 | 10000 | AKT3 |
| -0.373884085 | 2.917E-08 | 0.001 | 1 | 85442 | KNDC1 |
| -0.374042171 | 2.87572E-08 | 0.001 | 1 | 7062 | TCHH |
| -0.374428316 | 2.77724E-08 | < 0.001 | < 0.001 | 7164 | TPD52L1 |
| -0.375106011 | 2.61221E-08 | 0.001 | 1 | 10309 | CCNO |
| -0.37545069 | 2.53194E-08 | 0.001 | 1 | 9079 | LDB2 |
| -0.37695121 | 2.20935E-08 | 0.001 | 1 | 126393 | HSPB6 |
| -0.377013408 | 2.19687E-08 | < 0.001 | < 0.001 | 79064 | TMEM223 |
| -0.377295889 | 2.14104E-08 | < 0.001 | < 0.001 | 57620 | STIM2 |
| -0.37743713 | 2.11365E-08 | 0.001 | 1 | 493856 | CISD2 |
| -0.377476004 | 2.10617E-08 | 0.001 | 1 | 79698 | ZMAT4 |
| -0.37763409 | 2.07601E-08 | < 0.001 | < 0.001 | 5264 | PHYH |
| -0.377761077 | 2.05208E-08 | < 0.001 | < 0.001 | 389834 | LOC389834 |
| -0.37797229 | 2.01288E-08 | 0.003 | 1 | 26033 | ATRNL1 |
| -0.378489308 | 1.91993E-08 | < 0.001 | < 0.001 | 6356 | CCL11 |
| -0.378494491 | 1.91901E-08 | < 0.001 | < 0.001 | 5784 | PTPN14 |
| -0.378519111 | 1.9147E-08 | < 0.001 | < 0.001 | 55353 | LAPTM4B |
| -0.378988186 | 1.83417E-08 | 0.001 | 1 | 100133150 | LOC100133150 |
| -0.380110336 | 1.65454E-08 | 0.001 | 1 | 652 | BMP4 |
| -0.380204929 | 1.6402E-08 | < 0.001 | < 0.001 | 56479 | KCNQ5 |
| -0.380559974 | 1.58743E-08 | < 0.001 | < 0.001 | 2288 | FKBP4 |
| -0.382101959 | 1.37664E-08 | < 0.001 | < 0.001 | 730130 | AC004690.2 |
| -0.382622865 | 1.31173E-08 | 0.001 | 1 | 57148 | KIAA1219 |
| -0.382657851 | 1.30748E-08 | 0.002 | 1 | 9886 | RHOBTB1 |
| -0.383364054 | 1.22444E-08 | 0.001 | 1 | 65082 | VPS33A |
| -0.385652412 | 9.8884E-09 | < 0.001 | < 0.001 | 54714 | CNGB3 |
| -0.386598336 | 9.04796E-09 | < 0.001 | < 0.001 | 8050 | PDHX |
| -0.387519639 | 8.29582E-09 | < 0.001 | < 0.001 | 1346 | COX7A1 |
| -0.387654401 | 8.19099E-09 | < 0.001 | < 0.001 | 9108 | MTMR7 |
| -0.388144208 | 7.8206E-09 | < 0.001 | < 0.001 | 126147 | NTN5 |
| -0.389140667 | 7.11628E-09 | < 0.001 | < 0.001 | 1659 | DHX8 |
| -0.389355768 | 6.97248E-09 | < 0.001 | < 0.001 | 5988 | RFPL1 |
| -0.393162786 | 4.84587E-09 | < 0.001 | < 0.001 | 79624 | C6orf211 |
| -0.395781569 | 3.76224E-09 | 0.001 | 1 | 100129503 | PP13 |
| -0.396025177 | 3.67426E-09 | < 0.001 | < 0.001 | 134218 | DNAJC21 |
| -0.397292456 | 3.24758E-09 | < 0.001 | < 0.001 | 10150 | MBNL2 |
| -0.398307056 | 2.94078E-09 | 0.001 | 1 | 5893 | RAD52 |
| -0.399646898 | 2.57815E-09 | < 0.001 | < 0.001 | 11174 | ADAMTS6 |
| -0.40040882 | 2.39155E-09 | < 0.001 | < 0.001 | 50507 | NOX4 |
| -0.401788832 | 2.08617E-09 | < 0.001 | < 0.001 | 3832 | KIF11 |
| -0.407188372 | 1.21397E-09 | < 0.001 | < 0.001 | 54212 | SNTG1 |
| -0.409734591 | 9.36674E-10 | < 0.001 | < 0.001 | 4837 | NNMT |
| -0.411021306 | 8.20788E-10 | < 0.001 | < 0.001 | 3645 | INSRR |
| -0.415239089 | 5.29672E-10 | < 0.001 | < 0.001 | 389668 | XKR9 |
| -0.417364177 | 4.23457E-10 | 0.001 | 1 | 5322 | PLA2G5 |
| -0.430587671 | 9.94453E-11 | < 0.001 | < 0.001 | 55870 | ASH1L |
| -0.435402811 | 5.69152E-11 | < 0.001 | < 0.001 | 3621 | ING1 |
| -0.435573855 | 5.57767E-11 | < 0.001 | < 0.001 | 9022 | CLIC3 |
| -0.441170354 | 2.82955E-11 | < 0.001 | < 0.001 | 4995 | OR3A2 |

**Rewards (Neurosynth) Subcortex**

| voxel-wise, subcortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.716149693 | < 0.001 | 401472 | FLJ45248 |
| 0.70693379 | < 0.001 | 1950 | EGF |
| 0.706483089 | < 0.001 | 4062 | LY6H |
| 0.706332899 | < 0.001 | 40 | ACCN1 |
| 0.701909277 | < 0.001 | 4887 | NPY2R |
| 0.69941037 | < 0.001 | 170261 | ZCCHC12 |
| 0.696201933 | < 0.001 | 9823 | ARMCX2 |
| 0.692612348 | < 0.001 | 8900 | CCNA1 |
| 0.689662728 | < 0.001 | 4951 | OCM2 |
| 0.689658937 | < 0.001 | 92 | ACVR2A |
| 0.688618791 | < 0.001 | 5734 | PTGER4 |
| 0.688379809 | < 0.001 | 121053 | C12orf45 |
| 0.684496868 | < 0.001 | 388121 | TNFAIP8L3 |
| 0.681674335 | < 0.001 | 7421 | VDR |
| 0.681320913 | < 0.001 | 83445 | GSG1 |
| 0.681038327 | < 0.001 | 64218 | SEMA4A |
| 0.67709619 | < 0.001 | 83661 | MS4A8B |
| 0.675243002 | < 0.001 | 114787 | GPRIN1 |
| 0.674182762 | < 0.001 | 6751 | SSTR1 |
| 0.672863847 | < 0.001 | 5983 | RFC3 |
| 0.671220899 | < 0.001 | 6045 | RNF2 |
| 0.670843048 | < 0.001 | 167838 | TXLNB |
| 0.670711417 | < 0.001 | 493 | ATP2B4 |
| 0.670637027 | < 0.001 | 79822 | ARHGAP28 |
| 0.668432331 | < 0.001 | 3269 | HRH1 |
| 0.667915783 | < 0.001 | 5624 | PROC |
| 0.667573438 | < 0.001 | 7293 | TNFRSF4 |
| 0.667315307 | < 0.001 | 10505 | SEMA4F |
| 0.667089319 | < 0.001 | 57465 | TBC1D24 |
| 0.666169067 | < 0.001 | 65059 | RAPH1 |
| 0.665347116 | < 0.001 | 9615 | GDA |
| 0.664875807 | < 0.001 | 6706 | SPRR2G |
| 0.664654729 | < 0.001 | 57182 | ANKRD50 |
| 0.663433438 | < 0.001 | 116328 | C8orf34 |
| 0.662475892 | < 0.001 | 8395 | PIP5K1B |
| 0.662171772 | < 0.001 | 148014 | TTC9B |
| 0.66164715 | < 0.001 | 9609 | RAB36 |
| 0.660675793 | < 0.001 | 389384 | C6orf222 |
| 0.659067671 | < 0.001 | 8938 | BAIAP3 |
| 0.658765276 | < 0.001 | 51440 | HPCAL4 |
| 0.657350757 | < 0.001 | 57565 | KLHL14 |
| 0.657158714 | < 0.001 | 374 | AREG |
| 0.657073745 | < 0.001 | 5715 | PSMD9 |
| 0.65606128 | < 0.001 | 64283 | AC093283.3 |
| 0.65561075 | < 0.001 | 1577 | CYP3A5 |
| 0.653673063 | < 0.001 | 10947 | AP3M2 |
| 0.653311155 | < 0.001 | 283209 | PGM2L1 |
| 0.652321384 | < 0.001 | 9837 | GINS1 |
| 0.651382815 | < 0.001 | 114801 | TMEM200A |
| 0.650869293 | < 0.001 | 4133 | MAP2 |
| 0.649634119 | < 0.001 | 3082 | HGF |
| 0.649210099 | < 0.001 | 51538 | ZCCHC17 |
| 0.647420518 | < 0.001 | 885 | CCK |
| 0.646509721 | < 0.001 | 51760 | SYT17 |
| 0.645761578 | < 0.001 | 23046 | KIF21B |
| 0.645076534 | < 0.001 | 4878 | NPPA |
| 0.644918879 | < 0.001 | 29841 | GRHL1 |
| 0.644376715 | < 0.001 | 5733 | PTGER3 |
| 0.64431433 | < 0.001 | 642852 | LOC642852 |
| 0.643428174 | < 0.001 | 10943 | MSL3 |
| 0.643323627 | < 0.001 | 201229 | C17orf108 |
| 0.643116033 | < 0.001 | 3995 | FADS3 |
| 0.642460726 | < 0.001 | 7533 | YWHAH |
| 0.642345936 | < 0.001 | 91050 | CCDC149 |
| 0.642194724 | < 0.001 | 126567 | FAM148C |
| 0.641851214 | < 0.001 | 4685 | NCAM2 |
| 0.641101289 | < 0.001 | 4232 | MEST |
| 0.640680556 | < 0.001 | 644189 | LOC644189 |
| 0.638895343 | < 0.001 | 254528 | C16orf73 |
| 0.638755835 | < 0.001 | 7201 | TRHR |
| 0.637243265 | < 0.001 | 11001 | SLC27A2 |
| 0.636436744 | < 0.001 | 22881 | ANKRD6 |
| 0.636367143 | < 0.001 | 84958 | SYTL1 |
| 0.636316187 | < 0.001 | 117245 | HRASLS5 |
| 0.636129747 | < 0.001 | 55879 | GABRQ |
| 0.635895636 | < 0.001 | 260434 | PYDC1 |
| 0.63537545 | < 0.001 | 134526 | ACOT12 |

| region-wise, subcortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.898069498 | < 0.001 | < 0.001 | < 0.001 | 139189 | DGKK |
| 0.897812098 | < 0.001 | < 0.001 | < 0.001 | 2651 | GCNT2 |
| 0.897297297 | < 0.001 | < 0.001 | < 0.001 | 286499 | FAM133A |
| 0.891891892 | < 0.001 | < 0.001 | < 0.001 | 59336 | PRDM13 |
| 0.890862291 | < 0.001 | < 0.001 | < 0.001 | 6782 | HSPA13 |
| 0.887001287 | < 0.001 | < 0.001 | < 0.001 | 140578 | CHODL |
| 0.883655084 | < 0.001 | < 0.001 | < 0.001 | 84513 | PPAPDC1B |
| 0.873616474 | < 0.001 | < 0.001 | < 0.001 | 4343 | MOV10 |
| 0.871299871 | < 0.001 | < 0.001 | < 0.001 | 375287 | RBM43 |
| 0.865379665 | 9.22088E-10 | < 0.001 | < 0.001 | 9836 | LCMT2 |
| 0.860746461 | 9.69181E-09 | < 0.001 | < 0.001 | 55086 | CXorf57 |
| 0.850965251 | 3.15114E-08 | < 0.001 | < 0.001 | 60482 | SLC5A7 |
| 0.849163449 | 3.60361E-08 | < 0.001 | < 0.001 | 657 | BMPR1A |
| 0.849163449 | 3.60361E-08 | < 0.001 | < 0.001 | 653781 | AC140481.7 |
| 0.839124839 | 6.42195E-08 | < 0.001 | < 0.001 | 10114 | HIPK3 |
| 0.834234234 | 7.98137E-08 | < 0.001 | < 0.001 | 2719 | GPC3 |
| 0.833719434 | 8.15275E-08 | < 0.001 | < 0.001 | 79989 | TTC26 |
| 0.832689833 | 8.49966E-08 | < 0.001 | < 0.001 | 4935 | GPR143 |
| 0.830888031 | 9.12015E-08 | < 0.001 | < 0.001 | 340719 | NANOS1 |
| 0.825225225 | 1.11826E-07 | < 0.001 | < 0.001 | 83550 | GPR101 |
| 0.818275418 | 1.39532E-07 | < 0.001 | < 0.001 | 541466 | CT45A1 |
| 0.813899614 | 1.58393E-07 | < 0.001 | < 0.001 | 10137 | RBM12 |
| 0.813642214 | 1.59538E-07 | < 0.001 | < 0.001 | 152015 | ROPN1B |
| 0.811583012 | 1.68845E-07 | < 0.001 | < 0.001 | 8471 | IRS4 |
| 0.80978121 | 1.77208E-07 | < 0.001 | < 0.001 | 4925 | NUCB2 |
| 0.80952381 | 1.78419E-07 | < 0.001 | < 0.001 | 4086 | SMAD1 |
| 0.806692407 | 1.9204E-07 | < 0.001 | < 0.001 | 79659 | DYNC2H1 |
| 0.806177606 | 1.94576E-07 | < 0.001 | < 0.001 | 165 | AEBP1 |
| 0.805662806 | 1.9713E-07 | < 0.001 | < 0.001 | 9447 | AIM2 |
| 0.803346203 | 2.0886E-07 | < 0.001 | < 0.001 | 10988 | METAP2 |
| 0.803346203 | 2.0886E-07 | < 0.001 | < 0.001 | 55422 | ZNF331 |
| 0.801801802 | 2.16904E-07 | < 0.001 | < 0.001 | 2247 | FGF2 |
| 0.801029601 | 2.20996E-07 | < 0.001 | < 0.001 | 84883 | AIFM2 |
| 0.800514801 | 2.23751E-07 | < 0.001 | < 0.001 | 283927 | NUDT7 |
| 0.8002574 | 2.25136E-07 | < 0.001 | < 0.001 | 445582 | POTEE |
| 0.798712999 | 2.33566E-07 | < 0.001 | < 0.001 | 341359 | SYT10 |
| 0.795624196 | 2.51058E-07 | < 0.001 | < 0.001 | 127795 | C1orf87 |
| 0.795624196 | 2.51058E-07 | < 0.001 | < 0.001 | 653269 | POTEI |
| 0.794337194 | 2.58613E-07 | < 0.001 | < 0.001 | 128414 | NKAIN4 |
| 0.791763192 | 2.74234E-07 | < 0.001 | < 0.001 | 387646 | RP11-85G18.4 |
| 0.78970399 | 2.87262E-07 | < 0.001 | < 0.001 | 137835 | TMEM71 |
| 0.788159588 | 2.9737E-07 | < 0.001 | < 0.001 | 283596 | SNHG10 |
| 0.785585586 | 3.14917E-07 | < 0.001 | < 0.001 | 256309 | CCDC110 |
| 0.781981982 | 3.41133E-07 | < 0.001 | < 0.001 | 56912 | C11orf60 |
| 0.77966538 | 3.59143E-07 | < 0.001 | < 0.001 | 401494 | PTPLAD2 |
| 0.778635779 | 3.67471E-07 | < 0.001 | < 0.001 | 4811 | NID1 |
| 0.778120978 | 3.71714E-07 | < 0.001 | < 0.001 | 23036 | ZNF292 |
| 0.778120978 | 3.71714E-07 | < 0.001 | < 0.001 | 51364 | ZMYND10 |
| 0.777863578 | 3.73856E-07 | < 0.001 | < 0.001 | 641649 | TMEM91 |
| 0.777091377 | 3.80366E-07 | < 0.001 | < 0.001 | 79722 | ANKRD55 |
| 0.777091377 | 3.80366E-07 | < 0.001 | < 0.001 | 84695 | LOXL3 |
| 0.776576577 | 3.84777E-07 | < 0.001 | < 0.001 | 284434 | NWD1 |
| 0.774774775 | 4.00691E-07 | < 0.001 | < 0.001 | 440193 | CCDC88C |
| 0.773745174 | 4.10134E-07 | < 0.001 | < 0.001 | 3645 | INSRR |
| 0.773487773 | 4.12537E-07 | < 0.001 | < 0.001 | 19 | ABCA1 |
| 0.772715573 | 4.19848E-07 | < 0.001 | < 0.001 | 58529 | MYOZ1 |
| 0.772200772 | 4.2481E-07 | < 0.001 | < 0.001 | 57876 | MUC3B |
| 0.771171171 | 4.34956E-07 | < 0.001 | < 0.001 | 7200 | TRH |
| 0.770656371 | 4.40143E-07 | < 0.001 | < 0.001 | 51430 | C1orf9 |
| 0.77014157 | 4.45409E-07 | < 0.001 | < 0.001 | 5727 | PTCH1 |
| 0.769111969 | 4.56185E-07 | < 0.001 | < 0.001 | 7789 | ZXDA |
| 0.768854569 | 4.58931E-07 | < 0.001 | < 0.001 | 442245 | GSTM2P1 |
| 0.768597169 | 4.61699E-07 | < 0.001 | < 0.001 | 1479 | CSTF3 |
| 0.767824968 | 4.70134E-07 | < 0.001 | < 0.001 | 56548 | CHST7 |
| 0.767567568 | 4.7299E-07 | < 0.001 | < 0.001 | 162083 | C16orf82 |
| 0.767310167 | 4.7587E-07 | < 0.001 | < 0.001 | 7430 | VIL2 |
| 0.765765766 | 4.93644E-07 | < 0.001 | < 0.001 | 27164 | SALL3 |
| 0.764993565 | 5.02865E-07 | < 0.001 | < 0.001 | 374973 | ATPAF1-AS1 |
| 0.763963964 | 5.15525E-07 | < 0.001 | < 0.001 | 100129792 | CCDC152 |
| 0.763706564 | 5.18758E-07 | < 0.001 | < 0.001 | 493911 | PHOSPHO2 |
| 0.762934363 | 5.28623E-07 | < 0.001 | < 0.001 | 57393 | TMEM27 |
| 0.762934363 | 5.28623E-07 | < 0.001 | < 0.001 | 641339 | ZNF674 |
| 0.762676963 | 5.31969E-07 | < 0.001 | < 0.001 | 645784 | ANKRD36BP2 |
| 0.761132561 | 5.52666E-07 | < 0.001 | < 0.001 | 11092 | C9orf9 |
| 0.759330759 | 5.78249E-07 | < 0.001 | < 0.001 | 81543 | LRRC3 |
| 0.758815959 | 5.85861E-07 | < 0.001 | < 0.001 | 286256 | LCN12 |
| 0.758043758 | 5.97544E-07 | < 0.001 | < 0.001 | 2946 | GSTM2 |

| | | | |
|---|---|---|---|
| 0.635319367 | < 0.001 | 5737 | PTGFR |
| 0.635014675 | < 0.001 | 80790 | AC099524.1 |
| 0.634623521 | < 0.001 | 8480 | RAE1 |
| 0.634112349 | < 0.001 | 23504 | RIMBP2 |
| 0.633588428 | < 0.001 | 139221 | MUM1L1 |
| 0.633370627 | < 0.001 | 27294 | DHDH |
| 0.632958106 | < 0.001 | 4861 | NPAS1 |
| 0.631391263 | < 0.001 | 199920 | C1orf168 |
| 0.631114715 | < 0.001 | 221421 | RSPH9 |
| 0.630977609 | < 0.001 | 90835 | C16orf93 |
| 0.630878024 | < 0.001 | 255022 | CALHM1 |
| 0.630696815 | < 0.001 | 10882 | AC015936.3 |
| 0.629515955 | < 0.001 | 245711 | SPDYA |
| 0.629415622 | < 0.001 | 55964 | SEPTIN3 |
| 0.629048573 | < 0.001 | 285313 | IGSF10 |
| 0.628873842 | < 0.001 | 285126 | DNAJC5G |
| 0.628750685 | < 0.001 | 148808 | MFSD4 |
| 0.628660679 | < 0.001 | 728392 | LOC728392 |
| 0.628377747 | < 0.001 | 4014 | LOR |
| 0.627808381 | < 0.001 | 10408 | MYCNOS |
| 0.627683484 | < 0.001 | 9647 | PPM1F |
| 0.626729064 | < 0.001 | 64748 | AC024575.2 |
| 0.626536984 | < 0.001 | 168455 | C7ORF74 |
| 0.625840935 | < 0.001 | 152940 | C4orf45 |
| 0.625810254 | < 0.001 | 8809 | IL18R1 |
| 0.62539964 | < 0.001 | 340542 | BEX5 |
| 0.62486227 | < 0.001 | 51280 | GOLM1 |
| 0.62412486 | < 0.001 | 256380 | SCML4 |
| 0.623932788 | < 0.001 | 642273 | FAM110C |
| 0.623029355 | < 0.001 | 1543 | CYP1A1 |
| 0.622758343 | < 0.001 | 3350 | HTR1A |
| 0.622728981 | < 0.001 | 2996 | GYPE |
| 0.622459703 | < 0.001 | 55897 | MESP1 |
| 0.62224926 | < 0.001 | 1008 | CDH10 |
| 0.620404772 | < 0.001 | 27245 | AHDC1 |
| 0.620191168 | < 0.001 | 153743 | PPP1R2P3 |
| 0.619880579 | < 0.001 | 383 | ARG1 |
| 0.61987235 | < 0.001 | 153364 | MBLAC2 |
| 0.619540657 | < 0.001 | 460 | ASTN1 |
| 0.619017994 | < 0.001 | 129049 | SGSM1 |
| 0.618610753 | < 0.001 | 89870 | TRIM15 |
| 0.618555471 | < 0.001 | 4751 | NEK2 |
| 0.618452781 | < 0.001 | 259236 | TMIE |
| 0.618406199 | < 0.001 | 55915 | LANCL2 |
| 0.61837475 | < 0.001 | 100288346 | AP000880.1 |
| 0.618115109 | < 0.001 | 154075 | SAMD3 |
| 0.617959686 | < 0.001 | 338761 | C1QL4 |
| 0.617922131 | < 0.001 | 165257 | C1QL2 |
| 0.616214747 | < 0.001 | 128854 | TSPY26P |
| 0.61466373 | < 0.001 | 5921 | RASA1 |
| 0.614444605 | < 0.001 | 7173 | TPO |
| 0.613500439 | < 0.001 | 219870 | OR10G9 |
| 0.612642543 | < 0.001 | 23467 | NPTXR |
| 0.612177013 | < 0.001 | 23326 | USP22 |
| 0.612068117 | < 0.001 | 206338 | AC034236.3 |
| 0.611543233 | < 0.001 | 7223 | TRPC4 |
| 0.611351314 | < 0.001 | 286023 | AC009365.1 |
| 0.611215754 | < 0.001 | 10200 | MPHOSPH6 |
| 0.610822819 | < 0.001 | 200407 | CREG2 |
| 0.61007176 | < 0.001 | 54873 | PALMD |
| 0.60943116 | < 0.001 | 2994 | GYPB |
| 0.608811614 | < 0.001 | 23379 | KIAA0947 |
| 0.608673025 | < 0.001 | 5529 | PPP2R5E |
| 0.608624423 | < 0.001 | 387103 | C6orf173 |
| 0.608413006 | < 0.001 | 285598 | ARL10 |
| 0.608232065 | < 0.001 | 2925 | GRPR |
| 0.607978729 | < 0.001 | 90411 | MCFD2 |
| 0.607638387 | < 0.001 | 130951 | C2orf65 |
| 0.607086104 | < 0.001 | 8030 | CCDC6 |
| 0.606489983 | < 0.001 | 56936 | C14orf162 |
| 0.605908789 | < 0.001 | 389073 | C2orf80 |
| 0.605779317 | < 0.001 | 55631 | LRRC40 |
| 0.605732659 | < 0.001 | 7477 | WNT7B |
| 0.605082283 | < 0.001 | 158798 | AKAP14 |
| 0.605002316 | < 0.001 | 113828 | FAM83F |
| 0.60477639 | < 0.001 | 51155 | HN1 |
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| 0.570656371 | 0.000354376 | 0.001 | 1 | 10455 | PECI |
| 0.57039897 | 0.000356965 | 0.003 | 1 | 83989 | FAM172A |
| 0.57014157 | 0.000359572 | 0.004 | 1 | 1390 | CREM |
| 0.56962677 | 0.000364835 | 0.004 | 1 | 7840 | ALMS1 |
| 0.56962677 | 0.000364835 | 0.003 | 1 | 30008 | EFEMP2 |
| 0.569111969 | 0.000370167 | 0.004 | 1 | 8029 | CUBN |
| 0.568854569 | 0.000372859 | 0.004 | 1 | 158358 | KIAA2026 |
| 0.568339768 | 0.000378295 | 0.006 | 1 | 4267 | CD99 |
| 0.568339768 | 0.000378295 | 0.003 | 1 | 9896 | FIG4 |
| 0.568339768 | 0.000378295 | 0.004 | 1 | 730112 | FAM166B |
| 0.568082368 | 0.00038104 | 0.003 | 1 | 27019 | DNAI1 |
| 0.567824968 | 0.000383803 | 0.002 | 1 | 9991 | ROD1 |
| 0.567567568 | 0.000386583 | 0.004 | 1 | 2681 | GGTA1 |
| 0.567567568 | 0.000386583 | 0.006 | 1 | 3009 | HIST1H1B |
| 0.567567568 | 0.000386583 | 0.002 | 1 | 6129 | RPL7 |
| 0.567567568 | 0.000386583 | 0.003 | 1 | 56952 | PRTFDC1 |
| 0.567310167 | 0.000389382 | 0.007 | 1 | 2587 | GALR1 |
| 0.567310167 | 0.000389382 | 0.003 | 1 | 5356 | PLRG1 |
| 0.567310167 | 0.000389382 | 0.01 | 1 | 91801 | ALKBH8 |
| 0.567310167 | 0.000389382 | 0.004 | 1 | 441208 | ZNRF2P1 |
| 0.567052767 | 0.000392198 | 0.004 | 1 | 10004 | NAALADL1 |
| 0.567052767 | 0.000392198 | 0.005 | 1 | 10316 | NMUR1 |
| 0.567052767 | 0.000392198 | 0.005 | 1 | 57002 | C7orf36 |
| 0.566795367 | 0.000395033 | 0.005 | 1 | 100132708 | CYP4F30P |
| 0.566280566 | 0.000400757 | 0.001 | 1 | 83657 | DYNLRB2 |
| 0.565765766 | 0.000406555 | 0.003 | 1 | 84071 | ARMC2 |
| 0.565250965 | 0.000412429 | 0.005 | 1 | 3038 | HAS3 |
| 0.564993565 | 0.000415393 | 0.003 | 1 | 8853 | ASAP2 |
| 0.564993565 | 0.000415393 | 0.003 | 1 | 10473 | HMGN4 |
| 0.564736165 | 0.000418377 | 0.003 | 1 | 6671 | SP4 |
| 0.564478764 | 0.00042138 | 0.003 | 1 | 135138 | PACRG |
| 0.564478764 | 0.00042138 | 0.007 | 1 | 344405 | NCRNA00117 |
| 0.564221364 | 0.000424403 | 0.005 | 1 | 1036 | CDO1 |
| 0.564221364 | 0.000424403 | 0.002 | 1 | 59348 | ZNF350 |
| 0.564221364 | 0.000424403 | 0.005 | 1 | 150737 | TTC30B |
| 0.563963964 | 0.000427444 | 0.006 | 1 | 56731 | SLC2A4RG |
| 0.563706564 | 0.000430505 | 0.002 | 1 | 113763 | C7orf29 |
| 0.563449163 | 0.000433586 | 0.006 | 1 | 5050 | PAFAH1B3 |
| 0.563191763 | 0.000436686 | 0.003 | 1 | 2825 | GPR1 |
| 0.563191763 | 0.000436686 | 0.004 | 1 | 54494 | C11orf71 |
| 0.562934363 | 0.000439806 | 0.002 | 1 | 150864 | FAM117B |
| 0.562934363 | 0.000439806 | 0.007 | 1 | 431707 | LHX8 |
| 0.562676963 | 0.000442946 | 0.005 | 1 | 7556 | ZNF10 |
| 0.562676963 | 0.000442946 | 0.005 | 1 | 8693 | GALNT4 |
| 0.562419562 | 0.000446106 | 0.003 | 1 | 83987 | CCDC8 |
| 0.562162162 | 0.000449286 | 0.004 | 1 | 2736 | GLI2 |
| 0.562162162 | 0.000449286 | 0.002 | 1 | 50832 | TAS2R4 |
| 0.561904762 | 0.000452486 | 0.007 | 1 | 1638 | DCT |
| 0.561904762 | 0.000452486 | 0.003 | 1 | 23704 | KCNE4 |
| 0.561904762 | 0.000452486 | 0.004 | 1 | 114932 | MRFAP1L1 |
| 0.561647362 | 0.000455707 | 0.004 | 1 | 246213 | SLC17A8 |
| 0.560875161 | 0.000465491 | 0.005 | 1 | 116935 | RPL3P2 |
| 0.56036036 | 0.000472118 | 0.01 | 1 | 2747 | GLUD2 |
| 0.56036036 | 0.000472118 | 0.006 | 1 | 55008 | HERC6 |
| 0.56010296 | 0.000475463 | 0.006 | 1 | 6328 | SCN3A |
| 0.56010296 | 0.000475463 | 0.009 | 1 | 56829 | ZC3HAV1 |
| 0.55984556 | 0.000478829 | 0.005 | 1 | 6657 | SOX2 |
| 0.55984556 | 0.000478829 | 0.005 | 1 | 51477 | ISYNA1 |
| 0.55958816 | 0.000482216 | 0.002 | 1 | 6141 | RPL18 |
| 0.55958816 | 0.000482216 | 0.008 | 1 | 10144 | FAM13A |
| 0.559330759 | 0.000485625 | 0.002 | 1 | 2786 | GNG4 |
| 0.559330759 | 0.000485625 | 0.005 | 1 | 253769 | WDR27 |
| 0.559073359 | 0.000489055 | 0.006 | 1 | 6192 | RPS4Y1 |
| 0.559073359 | 0.000489055 | 0.008 | 1 | 23331 | TTC28 |
| 0.559073359 | 0.000489055 | 0.007 | 1 | 64105 | CENPK |
| 0.559073359 | 0.000489055 | 0.001 | 1 | 441024 | MTHFD2L |
| 0.558558559 | 0.00049598 | 0.001 | 1 | 1809 | DPYSL3 |
| 0.558558559 | 0.00049598 | 0.009 | 1 | 7443 | VRK1 |
| 0.558558559 | 0.00049598 | 0.004 | 1 | 54665 | RSBN1 |
| 0.558558559 | 0.00049598 | 0.006 | 1 | 79908 | BTNL8 |
| 0.558301158 | 0.000499475 | 0.007 | 1 | 2354 | FOSB |
| 0.558301158 | 0.000499475 | 0.007 | 1 | 29980 | DONSON |
| 0.557786358 | 0.000506532 | 0.008 | 1 | 8228 | PNPLA4 |
| 0.557786358 | 0.000506532 | 0.006 | 1 | 50626 | CYHR1 |

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| 0.493001681 | < 0.001 | 27290 | SPINK4 |
| 0.492616292 | < 0.001 | 1606 | DGKA |
| 0.492512774 | < 0.001 | 55816 | DOK5 |
| 0.492357465 | < 0.001 | 1400 | CRMP1 |
| 0.492145852 | < 0.001 | 113452 | TMEM54 |
| 0.49206229 | < 0.001 | 1488 | CTBP2 |
| 0.491950838 | < 0.001 | 57689 | LRRC4C |
| 0.49172228 | < 0.001 | 726 | CAPN5 |
| 0.491591543 | < 0.001 | 128239 | IQGAP3 |
| 0.491573005 | < 0.001 | 23077 | MYCBP2 |
| 0.491559333 | < 0.001 | 149018 | LELP1 |
| 0.491423947 | < 0.001 | 79931 | TNIP3 |
| 0.491323496 | < 0.001 | 282890 | ZNF311 |
| 0.491073393 | < 0.001 | 134121 | C5orf49 |
| 0.491055634 | < 0.001 | 9201 | DCLK1 |
| 0.491009107 | < 0.001 | 10040 | TOM1L1 |
| 0.490736022 | < 0.001 | 643161 | FAM25A |
| 0.490407544 | < 0.001 | 7480 | WNT10B |
| 0.490349467 | < 0.001 | 1033 | CDKN3 |
| 0.490259384 | < 0.001 | 284123 | FAM27L |
| 0.490193409 | < 0.001 | 344901 | OSTN |
| 0.490183993 | < 0.001 | 6526 | SLC5A3 |
| 0.490020913 | < 0.001 | 1557 | CYP2C19 |
| 0.490010517 | < 0.001 | 192111 | PGAM5 |
| 0.489860117 | < 0.001 | 79414 | LRFN3 |
| 0.489735856 | < 0.001 | 8491 | MAP4K3 |
| 0.489638289 | < 0.001 | 84959 | UBASH3B |
| 0.489558308 | < 0.001 | 148479 | PHF13 |
| 0.489433772 | < 0.001 | 5787 | PTPRB |
| 0.489351724 | < 0.001 | 151531 | UPP2 |
| 0.489204034 | < 0.001 | 9166 | EBAG9 |
| 0.489095474 | < 0.001 | 6509 | SLC1A4 |
| 0.488998979 | < 0.001 | 90557 | CCDC74A |
| 0.488849169 | < 0.001 | 54585 | LZTFL1 |
| 0.488732011 | < 0.001 | 5423 | POLB |
| 0.488394804 | < 0.001 | 1859 | DYRK1A |
| 0.488355789 | < 0.001 | 100288929 | LOC100288929 |
| 0.488351267 | < 0.001 | 345456 | PFN3 |
| 0.488322604 | < 0.001 | 7038 | TG |
| 0.487594102 | < 0.001 | 255426 | RASGEF1C |
| 0.487021693 | < 0.001 | 2867 | FFAR2 |
| 0.486879554 | < 0.001 | 9465 | AKAP7 |
| 0.486740437 | < 0.001 | 23368 | PPP1R13B |
| 0.486720034 | < 0.001 | 54733 | SLC35F2 |
| 0.486360261 | < 0.001 | 2203 | FBP1 |
| 0.486116537 | < 0.001 | 9232 | PTTG1 |
| 0.486101026 | < 0.001 | 80381 | CD276 |
| 0.485692339 | < 0.001 | 192668 | CYS1 |
| 0.485052267 | < 0.001 | 57369 | GJD2 |
| 0.484995524 | < 0.001 | 153657 | TTC23L |
| 0.484891567 | < 0.001 | 57761 | TRIB3 |
| 0.484868006 | < 0.001 | 219621 | C10orf107 |
| 0.48477299 | < 0.001 | 2709 | GJB5 |
| 0.484627326 | < 0.001 | 134957 | STXBP5 |
| 0.484606938 | < 0.001 | 10911 | UTS2 |
| 0.484592382 | < 0.001 | 5645 | PRSS2 |
| 0.48448523 | < 0.001 | 10313 | RTN3 |
| 0.484430261 | < 0.001 | 64478 | CSMD1 |
| 0.484186054 | < 0.001 | 55013 | CCDC109B |
| 0.484152676 | < 0.001 | 2863 | GPR39 |
| 0.483994867 | < 0.001 | 1745 | DLX1 |
| 0.483863373 | < 0.001 | 65244 | SPATS2 |
| 0.483856479 | < 0.001 | 286183 | NKAIN3 |
| 0.483453814 | < 0.001 | 80731 | THSD7B |
| 0.483341686 | < 0.001 | 157570 | ESCO2 |
| 0.483265468 | < 0.001 | 8363 | HIST1H4J |
| 0.483099143 | < 0.001 | 128611 | ZNF831 |
| 0.4829749 | < 0.001 | 80204 | FBXO11 |
| 0.48292215 | < 0.001 | 59269 | HIVEP3 |
| 0.482886845 | < 0.001 | 6675 | UAP1 |
| 0.482832839 | < 0.001 | 1608 | DGKG |
| 0.482719423 | < 0.001 | 2170 | FABP3 |
| 0.482330113 | < 0.001 | 63974 | NEUROD6 |
| 0.482180398 | < 0.001 | 8507 | ENC1 |
| 0.482105072 | < 0.001 | 140688 | C20orf112 |
| 0.482002237 | < 0.001 | 26255 | PTTG3 |
| 0.481735188 | < 0.001 | 3755 | KCNG1 |
| 0.481568399 | < 0.001 | 2319 | FLOT2 |
| 0.481308123 | < 0.001 | 55585 | UBE2Q1 |
| 0.481196004 | < 0.001 | 81617 | CAB39L |
| 0.481194605 | < 0.001 | 51246 | SHISA5 |
| 0.480774222 | < 0.001 | 9867 | PJA2 |

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|---|---|---|---|---|---|
| 0.557786358 | 0.000506532 | 0.008 | 1 | 157773 | C8orf48 |
| 0.557528958 | 0.000510093 | 0.004 | 1 | 149628 | PYHIN1 |
| 0.557528958 | 0.000510093 | 0.005 | 1 | 348801 | LNP1 |
| 0.557271557 | 0.000513677 | 0.005 | 1 | 100131532 | LOC100131532 |
| 0.556756757 | 0.000520911 | 0.006 | 1 | 389852 | SPACA5 |
| 0.556499356 | 0.000524563 | < 0.001 | < 0.001 | 2177 | FANCD2 |
| 0.556499356 | 0.000524563 | 0.002 | 1 | 255919 | TMEM188 |
| 0.556241956 | 0.000528237 | 0.003 | 1 | 2184 | FAH |
| 0.556241956 | 0.000528237 | 0.003 | 1 | 3622 | ING2 |
| 0.556241956 | 0.000528237 | 0.006 | 1 | 8812 | CCNK |
| 0.555727156 | 0.000535654 | 0.014 | 1 | 256979 | SUNC1 |
| 0.555469755 | 0.000539397 | 0.012 | 1 | 6335 | SCN9A |
| 0.555469755 | 0.000539397 | 0.008 | 1 | 23318 | ZCCHC11 |
| 0.555469755 | 0.000539397 | 0.006 | 1 | 166815 | TIGD2 |
| 0.555212355 | 0.000543164 | 0.007 | 1 | 399948 | C11orf92 |
| 0.554954955 | 0.000546954 | 0.005 | 1 | 91543 | RSAD2 |
| 0.554697555 | 0.000550768 | 0.009 | 1 | 57545 | CC2D2A |
| 0.554440154 | 0.000554605 | 0.005 | 1 | 1840 | DTX1 |
| 0.554440154 | 0.000554605 | 0.007 | 1 | 5587 | PRKD1 |
| 0.554182754 | 0.000558466 | 0.003 | 1 | 344593 | LOC344593 |
| 0.553667954 | 0.00056626 | 0.004 | 1 | 200316 | APOBEC3F |
| 0.552895753 | 0.000578132 | 0.007 | 1 | 55454 | CSGALNACT2 |
| 0.552895753 | 0.000578132 | 0.003 | 1 | 56992 | KIF15 |
| 0.552638353 | 0.000582139 | 0.001 | 1 | 10357 | HMGB1P1 |
| 0.552638353 | 0.000582139 | 0.01 | 1 | 124274 | GPR139 |
| 0.552380952 | 0.00058617 | 0.005 | 1 | 29799 | YPEL1 |
| 0.552123552 | 0.000590226 | 0.008 | 1 | 4879 | NPPB |
| 0.551866152 | 0.000594307 | 0.007 | 1 | 22897 | CEP164 |
| 0.550836551 | 0.000610884 | 0.008 | 1 | 219285 | SAMD9L |
| 0.550836551 | 0.000610884 | 0.007 | 1 | 399821 | RP11-383C5.4 |
| 0.550836551 | 0.000610884 | 0.011 | 1 | 677769 | SCARNA17 |
| 0.55006435 | 0.000623586 | 0.007 | 1 | 388585 | HES5 |
| 0.54980695 | 0.000627871 | 0.009 | 1 | 64094 | SMOC2 |
| 0.54954955 | 0.000632183 | 0.005 | 1 | 6626 | SNRPA |
| 0.54954955 | 0.000632183 | 0.012 | 1 | 60487 | TRMT11 |
| 0.54954955 | 0.000632183 | 0.009 | 1 | 90342 | FER1L5 |
| 0.54954955 | 0.000632183 | 0.009 | 1 | 162963 | ZNF610 |
| 0.549292149 | 0.000636521 | 0.002 | 1 | 71 | ACTG1 |
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| 0.549034749 | 0.000640886 | 0.009 | 1 | 23089 | PEG10 |
| 0.548777349 | 0.000645278 | 0.004 | 1 | 9349 | RPL23 |
| 0.548777349 | 0.000645278 | 0.007 | 1 | 10302 | SNAPC5 |
| 0.548519949 | 0.000649696 | 0.012 | 1 | 127700 | C1orf102 |
| 0.548519949 | 0.000649696 | 0.008 | 1 | 136895 | C7orf31 |
| 0.548262548 | 0.000654141 | 0.005 | 1 | 54970 | TTC12 |
| 0.548262548 | 0.000654141 | 0.009 | 1 | 56242 | ZNF253 |
| 0.548262548 | 0.000654141 | 0.005 | 1 | 64792 | RABL5 |
| 0.548005148 | 0.000658613 | 0.007 | 1 | 143888 | KDELC2 |
| 0.547747748 | 0.000663112 | 0.004 | 1 | 8630 | HSD17B6 |
| 0.547747748 | 0.000663112 | 0.006 | 1 | 51409 | HEMK1 |
| 0.547747748 | 0.000663112 | 0.005 | 1 | 79796 | ALG9 |
| 0.547747748 | 0.000663112 | 0.007 | 1 | 85478 | CCDC65 |
| 0.547747748 | 0.000663112 | 0.006 | 1 | 442249 | LOC442249 |
| 0.547490347 | 0.000667638 | 0.003 | 1 | 83259 | PCDH11Y |
| 0.547232947 | 0.000672192 | 0.006 | 1 | 7091 | TLE4 |
| 0.546718147 | 0.000681384 | 0.009 | 1 | 5756 | TWF1 |
| 0.546460746 | 0.000686021 | 0.008 | 1 | 9828 | ARHGEF17 |
| 0.546460746 | 0.000686021 | 0.005 | 1 | 91133 | L3MBTL4 |
| 0.546203346 | 0.000690686 | 0.011 | 1 | 170685 | NUDT10 |
| 0.545945946 | 0.00069538 | 0.007 | 1 | 3575 | IL7R |
| 0.545945946 | 0.00069538 | 0.006 | 1 | 151525 | WDSUB1 |
| 0.545945946 | 0.00069538 | 0.012 | 1 | 257236 | CCDC96 |
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| 0.545173745 | 0.000709631 | 0.004 | 1 | 55352 | C17orf79 |
| 0.544916345 | 0.000714439 | 0.006 | 1 | 57381 | RHOJ |
| 0.544658945 | 0.000719276 | 0.004 | 1 | 9236 | CCPG1 |
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| 0.543886744 | 0.000733961 | 0.005 | 1 | 7162 | TPBG |
| 0.543886744 | 0.000733961 | 0.004 | 1 | 10329 | TMEM5 |
| 0.543886744 | 0.000733961 | 0.009 | 1 | 146456 | TMED6 |
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| 0.543629344 | 0.000738915 | 0.007 | 1 | 84902 | CCDC123 |
| 0.543371943 | 0.000743899 | 0.005 | 1 | 10464 | PIBF1 |
| 0.543114543 | 0.000748912 | 0.009 | 1 | 90987 | ZNF251 |
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| 0.542599743 | 0.00075903 | 0.005 | 1 | 10485 | C1orf61 |
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| 0.542599743 | 0.00075903 | 0.006 | 1 | 79068 | FTO |
| 0.542599743 | 0.00075903 | 0.011 | 1 | 80069 | C6ORF208 |
| 0.542342342 | 0.000764134 | 0.008 | 1 | 10795 | ZNF268 |
| 0.542342342 | 0.000764134 | 0.009 | 1 | 54700 | RRN3 |

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| 0.480625271 | < 0.001 | 55901 | THSD1 |
| 0.4805224 | < 0.001 | 1875 | E2F5 |
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| 0.479710765 | < 0.001 | 79180 | EFHD2 |
| 0.479355704 | < 0.001 | 283431 | GAS2L3 |
| 0.479050262 | < 0.001 | 5801 | PTPRR |
| 0.478602515 | < 0.001 | 6860 | SYT4 |
| 0.478471081 | < 0.001 | 57821 | C1orf114 |
| 0.478203924 | < 0.001 | 29951 | PDZRN4 |
| 0.477948369 | < 0.001 | 5985 | RFC5 |
| 0.477926057 | < 0.001 | 7066 | THPO |
| 0.477887483 | < 0.001 | 2555 | GABRA2 |
| 0.477756172 | < 0.001 | 59335 | PRDM12 |
| 0.477705975 | < 0.001 | 119032 | C10orf32 |
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| 0.47705037 | < 0.001 | 9378 | NRXN1 |
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| 0.476429851 | < 0.001 | 123036 | TC2N |
| 0.476310445 | < 0.001 | 51606 | ATP6V1H |
| 0.476296269 | < 0.001 | 1675 | CFD |
| 0.476211802 | < 0.001 | 375 | ARF1 |
| 0.475915749 | < 0.001 | 81557 | MAGED4B |
| 0.475839761 | < 0.001 | 409 | ARRB2 |
| 0.475832627 | < 0.001 | 127943 | FCRLB |
| 0.475789392 | < 0.001 | 8646 | CHRD |
| 0.475758464 | < 0.001 | 56063 | C1orf91 |
| 0.475643057 | < 0.001 | 8707 | B3GALT2 |
| 0.475365489 | < 0.001 | 23476 | BRD4 |
| 0.475174734 | < 0.001 | 8643 | PTCH2 |
| 0.474930338 | < 0.001 | 30818 | KCNIP3 |
| 0.474757935 | < 0.001 | 79654 | HECTD3 |
| 0.474687233 | < 0.001 | 8204 | NRIP1 |
| 0.474640636 | < 0.001 | 80212 | CCDC92 |
| 0.474566311 | < 0.001 | 27012 | KCNV1 |
| 0.47451579 | < 0.001 | 4883 | NPR3 |
| 0.47450443 | < 0.001 | 1845 | DUSP3 |
| 0.474471207 | < 0.001 | 79720 | VPS37B |
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| 0.47415196 | < 0.001 | 340156 | MYLK4 |
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| 0.473944207 | < 0.001 | 9575 | CLOCK |
| 0.473897609 | < 0.001 | 10855 | HPSE |
| 0.473854437 | < 0.001 | 29944 | PNMA3 |
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| 0.47321356 | < 0.001 | 2847 | MCHR1 |
| 0.47287709 | < 0.001 | 166336 | PRICKLE2 |
| 0.472633886 | < 0.001 | 10886 | NPFFR2 |
| 0.472543 | < 0.001 | 2823 | GPM6A |
| 0.47253201 | < 0.001 | 6728 | SRP19 |
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| 0.472286895 | < 0.001 | 4155 | MBP |
| 0.472004753 | < 0.001 | 138009 | DCAF4L2 |
| 0.47191546 | < 0.001 | 9519 | TBPL1 |
| 0.471614106 | < 0.001 | 11073 | TOPBP1 |
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| 0.471210609 | < 0.001 | 11040 | PIM2 |
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| 0.541055341 | 0.000790115 | 0.002 | 1 | 4160 | MC4R |
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| 0.540540541 | 0.000800725 | 0.009 | 1 | 150290 | DUSP18 |
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| 0.53024453 | 0.001041261 | 0.006 | 1 | 5352 | PLOD2 |
| 0.53024453 | 0.001041261 | 0.012 | 1 | 5446 | PON3 |
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| 0.529214929 | 0.001068521 | 0.01 | 1 | 8942 | KYNU |
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| 0.529214929 | 0.001068521 | 0.012 | 1 | 284406 | ZFP82 |
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| 0.528700129 | 0.001082386 | 0.006 | 1 | 129881 | C2orf77 |
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| 0.466965585 | < 0.001 | 4620 | MYH2 |
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| 0.463582547 | < 0.001 | 3479 | IGF1 |
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| 0.463404108 | < 0.001 | 27445 | PCLO |
| 0.463401393 | < 0.001 | 84144 | SYDE2 |
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| 0.526640927 | 0.001139456 | 0.007 | 1 | 6224 | RPS20 |
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| 0.525868726 | 0.001161534 | 0.009 | 1 | 55796 | MBNL3 |
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| 0.524839125 | 0.001191561 | 0.015 | 1 | 219844 | HYLS1 |
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| 0.524581725 | 0.001199174 | 0.011 | 1 | 54768 | HYDIN |
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| 0.456628057 | 0.005543953 | 0.029 | 1 | 10746 | MAP3K2 |
| 0.456628057 | 0.005543953 | 0.031 | 1 | 85364 | ZCCHC3 |
| 0.456370656 | 0.005573265 | 0.024 | 1 | 7764 | ZNF217 |
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| 0.456113256 | 0.005602711 | 0.027 | 1 | 654 | BMP6 |
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| 0.456113256 | 0.005602711 | 0.02 | 1 | 6208 | RPS14 |
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| 0.455855856 | 0.005632292 | 0.027 | 1 | 55001 | TTC22 |
| 0.455598456 | 0.005662008 | 0.03 | 1 | 286183 | NKAIN3 |
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| 0.455341055 | 0.00569186 | 0.032 | 1 | 8702 | B4GALT4 |
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| 0.455083655 | 0.005721849 | 0.019 | 1 | 3646 | EIF3E |
| 0.455083655 | 0.005721849 | 0.016 | 1 | 8277 | TKTL1 |
| 0.455083655 | 0.005721849 | 0.023 | 1 | 442113 | LOC442113 |
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| 0.396864257 | < 0.001 | 150590 | C2orf15 |
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| 0.395813769 | < 0.001 | 132112 | RTP1 |
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| 0.395471756 | < 0.001 | 202500 | TCTE1 |
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| 0.394715401 | < 0.001 | 29906 | ST8SIA5 |
| 0.394597623 | < 0.001 | 117143 | TADA1L |
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| 0.394460967 | < 0.001 | 2626 | GATA4 |
| 0.394375072 | < 0.001 | 58530 | LY6G6D |
| 0.394347253 | < 0.001 | 6953 | TCP10 |
| 0.394289969 | < 0.001 | 255743 | NPNT |
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| 0.392322505 | 5.6762E-308 | 55924 | C1orf183 |
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| 0.39216391 | 1.0546E-307 | 2157 | F8 |
| 0.39196112 | 2.3272E-307 | 29924 | EPN1 |
| 0.39192789 | 2.6494E-307 | 1824 | DSC2 |
| 0.391826566 | 3.9337E-307 | 6512 | SLC1A7 |
| 0.391807752 | 4.2332E-307 | 54762 | GRAMD1C |
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| 0.391599299 | 9.541E-307 | 162239 | ZFP1 |
| 0.391375964 | 2.2774E-306 | 81501 | TM7SF4 |
| 0.391025472 | 8.9085E-306 | 9373 | PLAA |
| 0.390775224 | 2.3567E-305 | 6855 | SYP |
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| 0.390506196 | 6.7007E-305 | 122553 | TRAPPC6B |
| 0.390459162 | 8.0429E-305 | 3851 | KRT4 |
| 0.390440581 | 8.6444E-305 | 9247 | GCM2 |
| 0.390319302 | 1.384E-304 | 9819 | TSC22D2 |
| 0.39024048 | 1.879E-304 | 54749 | EPDR1 |
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| 0.389003161 | 2.2578E-302 | 8525 | DGKZ |
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| 0.38850282 | 1.5565E-301 | 3780 | KCNN1 |
| 0.388405324 | 2.2665E-301 | 2056 | EPO |
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| 0.453796654 | 0.005873855 | 0.021 | 1 | 1973 | EIF4A1 |
| 0.453796654 | 0.005873855 | 0.04 | 1 | 5885 | RAD21 |
| 0.453796654 | 0.005873855 | 0.019 | 1 | 7637 | ZNF84 |
| 0.453796654 | 0.005873855 | 0.03 | 1 | 83591 | THAP2 |
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| 0.453281853 | 0.00593563 | 0.023 | 1 | 1730 | DIAPH2 |
| 0.453281853 | 0.00593563 | 0.029 | 1 | 10456 | HAX1 |
| 0.453281853 | 0.00593563 | 0.017 | 1 | 54543 | TOMM7 |
| 0.453281853 | 0.00593563 | 0.02 | 1 | 374387 | AC044839.2 |
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| 0.452767053 | 0.005997967 | 0.024 | 1 | 220074 | AP000812.2 |
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| 0.452509653 | 0.006029348 | 0.031 | 1 | 114815 | SORCS1 |
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| 0.451994852 | 0.006092537 | 0.03 | 1 | 2526 | FUT4 |
| 0.451994852 | 0.006092537 | 0.024 | 1 | 3682 | ITGAE |
| 0.451994852 | 0.006092537 | 0.022 | 1 | 4361 | MRE11A |
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| 0.451222651 | 0.006188395 | 0.041 | 1 | 340252 | ZNF680 |
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| 0.450707851 | 0.006253023 | 0.03 | 1 | 5931 | RBBP7 |
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| 0.450707851 | 0.006253023 | 0.014 | 1 | 64785 | GINS3 |
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| 0.450707851 | 0.006253023 | 0.01 | 1 | 643155 | C5orf43 |
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| 0.385782571 | 5.311E-297 | 5911 | RAP2A |
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| 0.384285071 | 1.5933E-294 | 9478 | CABP1 |
| 0.384040662 | 4.0305E-294 | 11212 | PROSC |
| 0.383573602 | 2.3694E-293 | 140885 | SIRPA |
| 0.383295616 | 6.7907E-293 | 130026 | ICA1L |
| 0.383187503 | 1.0224E-292 | 1949 | EFNB3 |
| 0.383177897 | 1.0603E-292 | 119 | ADD2 |
| 0.383177427 | 1.0622E-292 | 338699 | ANKRD42 |
| 0.383169641 | 1.0939E-292 | 1002 | CDH4 |
| 0.383105402 | 1.3949E-292 | 22974 | TPX2 |
| 0.383079522 | 1.5384E-292 | 23657 | SLC7A11 |
| 0.383059547 | 1.6591E-292 | 284352 | LRRC68 |
| 0.383029991 | 1.8554E-292 | 200035 | NUDT17 |
| 0.382823225 | 4.0546E-292 | 7168 | TPM1 |
| 0.382761607 | 5.1177E-292 | 114794 | LRRC62 |
| 0.382610094 | 9.0708E-292 | 79605 | PGBD5 |
| 0.382585632 | 9.9488E-292 | 79183 | TTPAL |
| 0.381894233 | 1.35E-290 | 57605 | PITPNM2 |
| 0.381854515 | 1.5678E-290 | 64061 | TSPYL2 |
| 0.381642173 | 3.4876E-290 | 782 | CACNB1 |
| 0.381600285 | 4.0831E-290 | 8541 | PPFIA3 |
| 0.381554852 | 4.8445E-290 | 10376 | TUBA1B |
| 0.381491809 | 6.1412E-290 | 64699 | TMPRSS3 |
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| 0.380945657 | 4.7828E-289 | 200523 | C2orf51 |
| 0.380881066 | 6.0953E-289 | 374654 | KIF7 |
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| 0.380581351 | 1.8765E-288 | 144423 | GLT1D1 |
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| 0.379686005 | 5.3602E-287 | 5671 | PSG3 |
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| 0.378414732 | 6.1433E-285 | 64375 | IKZF4 |
| 0.378373725 | 7.156E-285 | 284573 | C1orf157 |
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| 0.378253705 | 1.1183E-284 | 5619 | PRM1 |
| 0.378244976 | 1.1553E-284 | 50508 | NOX3 |
| 0.378220057 | 1.2674E-284 | 9221 | NOLC1 |
| 0.378177335 | 1.4857E-284 | 5641 | LGMN |
| 0.378003555 | 2.8344E-284 | 245806 | VGLL2 |
| 0.377658791 | 1.0198E-283 | 659 | BMPR2 |
| 0.377615231 | 1.1987E-283 | 57479 | PRR12 |
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| 0.446589447 | 0.00679142 | 0.036 | 1 | 84294 | UTP23 |
| 0.446589447 | 0.00679142 | 0.026 | 1 | 135228 | CD109 |
| 0.446332046 | 0.006826361 | 0.039 | 1 | 147947 | ZNF542 |
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| 0.446074646 | 0.006861457 | 0.036 | 1 | 130540 | ALS2CR12 |
| 0.445817246 | 0.006896709 | 0.026 | 1 | 1647 | GADD45A |
| 0.445817246 | 0.006896709 | 0.024 | 1 | 23479 | ISCU |
| 0.445817246 | 0.006896709 | 0.031 | 1 | 91893 | FDXACB1 |
| 0.445817246 | 0.006896709 | 0.042 | 1 | 121355 | GTSF1 |
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| 0.445559846 | 0.006932117 | 0.027 | 1 | 1854 | DUT |
| 0.445559846 | 0.006932117 | 0.032 | 1 | 3146 | HMGB1 |
| 0.445559846 | 0.006932117 | 0.034 | 1 | 4602 | MYB |
| 0.445559846 | 0.006932117 | 0.025 | 1 | 55589 | BMP2K |
| 0.445302445 | 0.006967682 | 0.034 | 1 | 10788 | IQGAP2 |
| 0.445302445 | 0.006967682 | 0.036 | 1 | 400684 | LOC400684 |
| 0.445045045 | 0.007003405 | 0.027 | 1 | 355 | FAS |
| 0.445045045 | 0.007003405 | 0.031 | 1 | 5569 | PKIA |
| 0.445045045 | 0.007003405 | 0.02 | 1 | 6136 | RPL12 |
| 0.445045045 | 0.007003405 | 0.029 | 1 | 440465 | AC013356.3 |
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| 0.444787645 | 0.007039286 | 0.033 | 1 | 85016 | C11orf70 |
| 0.444530245 | 0.007075326 | 0.025 | 1 | 8800 | PEX11A |
| 0.444530245 | 0.007075326 | 0.032 | 1 | 79864 | C11orf63 |
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| 0.444015444 | 0.007147883 | 0.037 | 1 | 27077 | B9D1 |
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| 0.35830528 | 1.4339E-253 | 7325 | UBE2E2 |
| 0.358268362 | 1.6295E-253 | 221424 | C6orf154 |
| 0.35788901 | 6.0576E-253 | 59345 | GNB4 |
| 0.357733773 | 1.0362E-252 | 133690 | CAPSL |
| 0.357620497 | 1.5327E-252 | 886 | CCKAR |
| 0.35760688 | 1.6065E-252 | 3839 | KPNA3 |
| 0.357574125 | 1.799E-252 | 121665 | AC069234.1 |

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| 0.43037323 | 0.00931924 | 0.039 | 1 | 190 | NR0B1 |
| 0.43037323 | 0.00931924 | 0.03 | 1 | 79591 | C10orf76 |
| 0.43037323 | 0.00931924 | 0.052 | 1 | 440585 | FAM183A |
| 0.43011583 | 0.009365125 | 0.034 | 1 | 7536 | SF1 |
| 0.43011583 | 0.009365125 | 0.041 | 1 | 400966 | RGPD1 |
| 0.42985843 | 0.009411205 | 0.031 | 1 | 23404 | EXOSC2 |
| 0.42985843 | 0.009411205 | 0.027 | 1 | 90627 | STARD13 |
| 0.42985843 | 0.009411205 | 0.038 | 1 | 645752 | LOC645752 |
| 0.42960103 | 0.009457478 | 0.037 | 1 | 359821 | MRPL42P5 |
| 0.429343629 | 0.009503947 | 0.038 | 1 | 215 | ABCD1 |
| 0.429343629 | 0.009503947 | 0.036 | 1 | 5349 | FXYD3 |
| 0.429343629 | 0.009503947 | 0.041 | 1 | 131873 | AC128683.1 |
| 0.429086229 | 0.009550612 | 0.031 | 1 | 1975 | EIF4B |
| 0.429086229 | 0.009550612 | 0.034 | 1 | 55119 | PRPF38B |
| 0.428828829 | 0.009597474 | 0.042 | 1 | 178 | AGL |
| 0.428828829 | 0.009597474 | 0.027 | 1 | 7072 | TIA1 |
| 0.428828829 | 0.009597474 | 0.037 | 1 | 10840 | ALDH1L1 |
| 0.428828829 | 0.009597474 | 0.047 | 1 | 116068 | AC027323.1 |
| 0.428571429 | 0.009644532 | 0.043 | 1 | 23178 | PASK |
| 0.428314028 | 0.009691788 | 0.04 | 1 | 6157 | RPL27A |
| 0.428314028 | 0.009691788 | 0.031 | 1 | 6874 | TAF4 |
| 0.428056628 | 0.009739243 | 0.043 | 1 | 284573 | C1orf157 |
| 0.427799228 | 0.009786897 | 0.033 | 1 | 2186 | BPTF |
| 0.427799228 | 0.009786897 | 0.044 | 1 | 5163 | PDK1 |
| 0.427799228 | 0.009786897 | 0.031 | 1 | 8165 | AKAP1 |
| 0.427799228 | 0.009786897 | 0.043 | 1 | 55760 | DHX32 |
| 0.427541828 | 0.009834751 | 0.05 | 1 | 654254 | ZNF732 |
| 0.427284427 | 0.009882805 | 0.034 | 1 | 279 | AMY2A |
| 0.427284427 | 0.009882805 | 0.047 | 1 | 4990 | SIX6 |
| 0.427284427 | 0.009882805 | 0.023 | 1 | 54930 | HAUS4 |
| 0.427027027 | 0.009931061 | 0.024 | 1 | 2010 | EMD |
| 0.427027027 | 0.009931061 | 0.033 | 1 | 4038 | LRP4 |
| 0.427027027 | 0.009931061 | 0.04 | 1 | 23085 | ERC1 |
| 0.427027027 | 0.009931061 | 0.039 | 1 | 83659 | TEKT1 |
| 0.427027027 | 0.009931061 | 0.033 | 1 | 348751 | AC073043.2 |
| 0.426769627 | 0.009979518 | 0.033 | 1 | 9646 | CTR9 |
| 0.426769627 | 0.009979518 | 0.037 | 1 | 27292 | DIMT1 |
| 0.426769627 | 0.009979518 | 0.034 | 1 | 51130 | ASB3 |
| 0.426769627 | 0.009979518 | 0.03 | 1 | 90557 | CCDC74A |
| 0.426769627 | 0.009979518 | 0.053 | 1 | 284656 | RP4-783C10.1 |
| 0.426254826 | 0.010077041 | 0.033 | 1 | 6167 | RPL37 |
| 0.426254826 | 0.010077041 | 0.031 | 1 | 6193 | RPS5 |
| 0.426254826 | 0.010077041 | 0.045 | 1 | 29942 | PURG |
| 0.425997426 | 0.010126108 | 0.041 | 1 | 201562 | PTPLB |
| 0.425740026 | 0.01017538 | 0.035 | 1 | 2023 | ENO1 |
| 0.425740026 | 0.01017538 | 0.037 | 1 | 7270 | TTF1 |
| 0.425740026 | 0.01017538 | 0.048 | 1 | 65981 | CAPRIN2 |
| 0.425482625 | 0.010224857 | 0.036 | 1 | 8741 | TNFSF13 |
| 0.425482625 | 0.010224857 | 0.037 | 1 | 91754 | NEK9 |
| 0.425225225 | 0.01027454 | 0.039 | 1 | 22 | ABCB7 |
| 0.425225225 | 0.01027454 | 0.056 | 1 | 79413 | ZBED2 |
| 0.425225225 | 0.01027454 | 0.039 | 1 | 84864 | MINA |
| 0.425225225 | 0.01027454 | 0.042 | 1 | 92370 | ACPL2 |
| 0.424967825 | 0.01032443 | 0.042 | 1 | 1768 | DNAH6 |
| 0.424967825 | 0.01032443 | 0.042 | 1 | 3690 | ITGB3 |
| 0.424967825 | 0.01032443 | 0.047 | 1 | 401397 | AC073346.1 |
| 0.424967825 | 0.01032443 | 0.04 | 1 | 647087 | C7orf73 |
| 0.424453024 | 0.010424832 | 0.052 | 1 | 7158 | TP53BP1 |
| 0.424453024 | 0.010424832 | 0.024 | 1 | 132949 | AASDH |
| 0.424195624 | 0.010475346 | 0.028 | 1 | 6261 | RYR1 |
| 0.424195624 | 0.010475346 | 0.036 | 1 | 79913 | ACTR5 |
| 0.424195624 | 0.010475346 | 0.037 | 1 | 80119 | PIF1 |
| 0.423938224 | 0.010526069 | 0.051 | 1 | 5778 | PTPN7 |
| 0.423938224 | 0.010526069 | 0.03 | 1 | 8703 | B4GALT3 |
| 0.423938224 | 0.010526069 | 0.037 | 1 | 51260 | CXorf26 |
| 0.423680824 | 0.010577002 | 0.038 | 1 | 1436 | CSF1R |
| 0.423680824 | 0.010577002 | 0.045 | 1 | 23082 | PPRC1 |
| 0.423680824 | 0.010577002 | 0.042 | 1 | 51163 | DBR1 |
| 0.423423423 | 0.010628147 | 0.041 | 1 | 466 | ATF1 |
| 0.423423423 | 0.010628147 | 0.042 | 1 | 8367 | HIST1H4E |
| 0.423423423 | 0.010628147 | 0.045 | 1 | 25981 | DNAH1 |
| 0.423423423 | 0.010628147 | 0.045 | 1 | 389332 | LOC389332 |
| 0.423423423 | 0.010628147 | 0.044 | 1 | 440093 | RP11-428G5.1 |
| 0.423166023 | 0.010679502 | 0.044 | 1 | 58489 | FAM108C1 |
| 0.423166023 | 0.010679502 | 0.036 | 1 | 200030 | NBPF11 |
| 0.422908623 | 0.010731071 | 0.036 | 1 | 1325 | CORT |
| 0.422908623 | 0.010731071 | 0.047 | 1 | 55274 | PHF10 |
| 0.422908623 | 0.010731071 | 0.034 | 1 | 57606 | SLAIN2 |
| 0.422908623 | 0.010731071 | 0.038 | 1 | 79801 | SHCBP1 |
| 0.422908623 | 0.010731071 | 0.04 | 1 | 83959 | SLC4A11 |
| 0.422908623 | 0.010731071 | 0.043 | 1 | 134553 | C5orf24 |
| 0.422651223 | 0.010782852 | 0.05 | 1 | 9293 | GPR52 |

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| 0.357480915 | 2.4824E-252 | 2786 | GNG4 |
| 0.357465828 | 2.6152E-252 | 23418 | CRB1 |
| 0.357208629 | 6.3547E-252 | 389874 | ZCCHC13 |
| 0.35716241 | 7.4533E-252 | 55283 | MCOLN3 |
| 0.35706127 | 1.0565E-251 | 146779 | AC008026.2 |
| 0.35699153 | 1.3437E-251 | 2743 | GLRB |
| 0.356973466 | 1.43E-251 | 3927 | LASP1 |
| 0.35694349 | 1.5857E-251 | 8997 | KALRN |
| 0.356800265 | 2.5976E-251 | 84911 | ZNF382 |
| 0.356705009 | 3.6064E-251 | 3797 | KIF3C |
| 0.356541652 | 6.3292E-251 | 5802 | PTPRS |
| 0.356463138 | 8.2928E-251 | 10204 | NUTF2 |
| 0.356395814 | 1.0454E-250 | 4355 | MPP2 |
| 0.356322211 | 1.3467E-250 | 6532 | SLC6A4 |
| 0.356285938 | 1.5256E-250 | 81577 | GFOD2 |
| 0.356222934 | 1.8946E-250 | 84280 | BTBD10 |
| 0.35613821 | 2.5352E-250 | 51177 | PLEKHO1 |
| 0.356110846 | 2.7852E-250 | 89837 | FAM7A3 |
| 0.356065931 | 3.25E-250 | 9203 | ZMYM3 |
| 0.355892246 | 5.9019E-250 | 1444 | CSHL1 |
| 0.355834955 | 7.185E-250 | 3843 | IPO5 |
| 0.355820333 | 7.5549E-250 | 2182 | ACSL4 |
| 0.355782122 | 8.6138E-250 | 55135 | WRAP53 |
| 0.35548414 | 2.3943E-249 | 10044 | SH2D3C |
| 0.35546041 | 2.5973E-249 | 55117 | SLC6A15 |
| 0.355315782 | 4.264E-249 | 2002 | ELK1 |
| 0.355308403 | 4.3732E-249 | 55681 | SCYL2 |
| 0.355038975 | 1.1005E-248 | 27289 | RND1 |
| 0.354966598 | 1.4098E-248 | 401913 | LOC401913 |
| 0.354914416 | 1.6855E-248 | 140612 | ZFP28 |
| 0.354586019 | 5.1816E-248 | 80097 | FAM128B |
| 0.354565788 | 5.5525E-248 | 8776 | MTMR1 |
| 0.354559435 | 5.6744E-248 | 9620 | CELSR1 |
| 0.354550323 | 5.8539E-248 | 10965 | ACOT2 |
| 0.354482841 | 7.372E-248 | 133015 | PACRGL |
| 0.35421968 | 1.8108E-247 | 1816 | DRD5 |
| 0.354210938 | 1.8657E-247 | 8976 | WASL |
| 0.354151245 | 2.2872E-247 | 9530 | BAG4 |
| 0.35411095 | 2.6243E-247 | 285051 | C2orf61 |
| 0.35392717 | 4.9119E-247 | 317772 | HIST2H2AB |
| 0.353878877 | 5.791E-247 | 79148 | MMP28 |
| 0.353688083 | 1.1095E-246 | 21 | ABCA3 |
| 0.353677768 | 1.1492E-246 | 10523 | CHERP |
| 0.353552034 | 1.7635E-246 | 127254 | C1orf173 |
| 0.353451904 | 2.4798E-246 | 220832 | FABP5P3 |
| 0.353353693 | 3.4639E-246 | 2596 | GAP43 |
| 0.35332419 | 3.8296E-246 | 79674 | VEPH1 |
| 0.353143281 | 7.0855E-246 | 90417 | C15orf23 |
| 0.35312889 | 7.4408E-246 | 84301 | DDI2 |
| 0.352709861 | 3.0892E-245 | 79762 | C1orf115 |
| 0.352690568 | 3.2983E-245 | 6456 | SH3GL2 |
| 0.352462257 | 7.1567E-245 | 79363 | C1orf89 |
| 0.352432824 | 7.9079E-245 | 442213 | C6orf138 |
| 0.352376544 | 9.5706E-245 | 1951 | CELSR3 |
| 0.35231322 | 1.1862E-244 | 29767 | TMOD2 |
| 0.351730079 | 8.5452E-244 | 8013 | NR4A3 |
| 0.351692774 | 9.6944E-244 | 10141 | C4orf6 |
| 0.351686062 | 9.9169E-244 | 330 | BIRC3 |
| 0.351530209 | 1.6797E-243 | 389383 | C6orf126 |
| 0.351249994 | 4.3287E-243 | 51393 | TRPV2 |
| 0.351234957 | 4.5541E-243 | 10178 | ODZ1 |
| 0.351041514 | 8.7491E-243 | 84456 | L3MBTL3 |
| 0.350973222 | 1.1016E-242 | 126353 | C19orf21 |
| 0.350759017 | 2.2683E-242 | 4150 | MAZ |
| 0.35075741 | 2.2806E-242 | 146909 | KIF18B |
| 0.350607299 | 3.7821E-242 | 126792 | B3GALT6 |
| 0.350541072 | 4.7272E-242 | 10788 | IQGAP2 |
| 0.35046493 | 6.1089E-242 | 154288 | C6orf221 |
| 0.350371112 | 8.3777E-242 | 64921 | CASD1 |
| 0.349660337 | 9.136E-241 | 23426 | GRIP1 |
| 0.349650992 | 9.4272E-241 | 4145 | MATK |
| 0.349572849 | 1.2254E-240 | 116150 | NUS1 |
| 0.349511343 | 1.5063E-240 | 387522 | TMEM189-UBE2V1 |
| 0.349479122 | 1.6783E-240 | 64405 | CDH22 |
| 0.349316803 | 2.8927E-240 | 8511 | MMP23A |
| 0.349298866 | 3.072E-240 | 4698 | NDUFA5 |
| 0.349200009 | 4.2789E-240 | 219738 | C10orf35 |
| 0.349195457 | 4.3447E-240 | 1538 | CYLC1 |
| 0.349045779 | 7.1739E-240 | 8514 | KCNAB2 |
| 0.348992202 | 8.5839E-240 | 6595 | SMARCA2 |
| 0.348859769 | 1.3374E-239 | 8536 | CAMK1 |
| 0.348824745 | 1.5037E-239 | 286207 | C9orf117 |

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| 0.422651223 | 0.010782852 | 0.035 | 1 | 55650 | PIGV |
| 0.422651223 | 0.010782852 | 0.025 | 1 | 124751 | KRBA2 |
| 0.422651223 | 0.010782852 | 0.032 | 1 | 340596 | LHFPL1 |
| 0.422393822 | 0.010834846 | 0.039 | 1 | 79869 | CPSF7 |
| 0.422393822 | 0.010834846 | 0.045 | 1 | 119504 | C10orf104 |
| 0.422393822 | 0.010834846 | 0.045 | 1 | 441295 | OR2A9P |
| 0.422136422 | 0.010887055 | 0.054 | 1 | 3061 | HCRTR1 |
| 0.422136422 | 0.010887055 | 0.042 | 1 | 57062 | DDX24 |
| 0.422136422 | 0.010887055 | 0.043 | 1 | 117145 | THEM4 |
| 0.422136422 | 0.010887055 | 0.052 | 1 | 219833 | C11orf45 |
| 0.422136422 | 0.010887055 | 0.049 | 1 | 389043 | LOC389043 |
| 0.421879022 | 0.01093948 | 0.036 | 1 | 10818 | FRS2 |
| 0.421879022 | 0.01093948 | 0.047 | 1 | 64844 | MARCHF7 |
| 0.421879022 | 0.01093948 | 0.042 | 1 | 114335 | CGB1 |
| 0.421621622 | 0.010992119 | 0.035 | 1 | 9881 | LBA1 |
| 0.421621622 | 0.010992119 | 0.05 | 1 | 23527 | ACAP2 |
| 0.421364221 | 0.011044976 | 0.026 | 1 | 4172 | MCM3 |
| 0.421364221 | 0.011044976 | 0.029 | 1 | 9541 | CIR1 |
| 0.421364221 | 0.011044976 | 0.03 | 1 | 23353 | UNC84A |
| 0.421364221 | 0.011044976 | 0.041 | 1 | 79022 | TMEM106C |
| 0.421364221 | 0.011044976 | 0.037 | 1 | 79589 | RNF128 |
| 0.421364221 | 0.011044976 | 0.036 | 1 | 147686 | ZNF418 |
| 0.421364221 | 0.011044976 | 0.042 | 1 | 170622 | COMMD6 |
| 0.421106821 | 0.01109805 | 0.024 | 1 | 10399 | GNB2L1 |
| 0.421106821 | 0.01109805 | 0.044 | 1 | 29127 | RACGAP1P |
| 0.421106821 | 0.01109805 | 0.042 | 1 | 60509 | AGBL5 |
| 0.421106821 | 0.01109805 | 0.045 | 1 | 64446 | DNAI2 |
| 0.421106821 | 0.01109805 | 0.041 | 1 | 79596 | RNF219 |
| 0.421106821 | 0.01109805 | 0.054 | 1 | 79915 | ATAD5 |
| 0.421106821 | 0.01109805 | 0.04 | 1 | 80301 | PLEKHO2 |
| 0.421106821 | 0.01109805 | 0.044 | 1 | 116349 | C5orf55 |
| 0.420849421 | 0.011151341 | 0.043 | 1 | 5372 | PMM1 |
| 0.420849421 | 0.011151341 | 0.038 | 1 | 54908 | CCDC99 |
| 0.420849421 | 0.011151341 | 0.046 | 1 | 90799 | CEP95 |
| 0.420592021 | 0.011204851 | 0.054 | 1 | 9663 | LPIN2 |
| 0.420592021 | 0.011204851 | 0.04 | 1 | 51710 | ZNF44 |
| 0.420592021 | 0.011204851 | 0.035 | 1 | 112942 | CCDC104 |
| 0.42033462 | 0.011258581 | 0.036 | 1 | 2036 | EPB41L1 |
| 0.42033462 | 0.011258581 | 0.037 | 1 | 4736 | RPL10A |
| 0.42033462 | 0.011258581 | 0.046 | 1 | 6636 | SNRPF |
| 0.42033462 | 0.011258581 | 0.034 | 1 | 80059 | LRRTM4 |
| 0.42007722 | 0.011312531 | 0.034 | 1 | 5525 | PPP2R5A |
| 0.42007722 | 0.011312531 | 0.055 | 1 | 23043 | TNIK |
| 0.42007722 | 0.011312531 | 0.042 | 1 | 729973 | LOC729973 |
| 0.41981982 | 0.011366701 | 0.049 | 1 | 171023 | ASXL1 |
| 0.41956242 | 0.011421093 | 0.043 | 1 | 9699 | RIMS2 |
| 0.41956242 | 0.011421093 | 0.044 | 1 | 10667 | FARS2 |
| 0.41956242 | 0.011421093 | 0.051 | 1 | 25975 | EGFL6 |
| 0.419305019 | 0.011475708 | 0.05 | 1 | 1690 | COCH |
| 0.419305019 | 0.011475708 | 0.047 | 1 | 9535 | GMFG |
| 0.419305019 | 0.011475708 | 0.04 | 1 | 55703 | POLR3B |
| 0.419305019 | 0.011475708 | 0.066 | 1 | 84059 | GPR98 |
| 0.419047619 | 0.011530545 | 0.046 | 1 | 10461 | MERTK |
| 0.419047619 | 0.011530545 | 0.048 | 1 | 22986 | SORCS3 |
| 0.419047619 | 0.011530545 | 0.042 | 1 | 55683 | KIAA1310 |
| 0.419047619 | 0.011530545 | 0.043 | 1 | 57464 | FAM40B |
| 0.419047619 | 0.011530545 | 0.047 | 1 | 81559 | TRIM11 |
| 0.418790219 | 0.011585606 | 0.036 | 1 | 10449 | ACAA2 |
| 0.418790219 | 0.011585606 | 0.038 | 1 | 56204 | KIAA1370 |
| 0.418790219 | 0.011585606 | 0.04 | 1 | 441951 | ZNFX1-AS1 |
| 0.418275418 | 0.011696402 | 0.035 | 1 | 51019 | CCDC53 |
| 0.418275418 | 0.011696402 | 0.047 | 1 | 158067 | C9orf98 |
| 0.418018018 | 0.011752139 | 0.049 | 1 | 4852 | NPY |
| 0.418018018 | 0.011752139 | 0.056 | 1 | 4969 | OGN |
| 0.418018018 | 0.011752139 | 0.057 | 1 | 55190 | NUDT11 |
| 0.417760618 | 0.011808102 | 0.048 | 1 | 25845 | AC010442.2 |
| 0.417760618 | 0.011808102 | 0.044 | 1 | 50848 | F11R |
| 0.417503218 | 0.011864292 | 0.052 | 1 | 6295 | SAG |
| 0.417503218 | 0.011864292 | 0.042 | 1 | 157807 | RLBP1L1 |
| 0.417245817 | 0.011920711 | 0.054 | 1 | 10309 | CCNO |
| 0.417245817 | 0.011920711 | 0.058 | 1 | 91752 | ZNF804A |
| 0.417245817 | 0.011920711 | 0.053 | 1 | 389895 | LOC389895 |
| 0.416988417 | 0.011977358 | 0.051 | 1 | 152831 | KLB |
| 0.416988417 | 0.011977358 | 0.045 | 1 | 164045 | HFM1 |
| 0.416731017 | 0.012034236 | 0.051 | 1 | 5007 | OSBP |
| 0.416731017 | 0.012034236 | 0.056 | 1 | 641311 | RPL31P11 |
| 0.416473616 | 0.012091343 | 0.053 | 1 | 5592 | PRKG1 |
| 0.416473616 | 0.012091343 | 0.058 | 1 | 219681 | ARMC3 |
| 0.416216216 | 0.012148682 | 0.036 | 1 | 6146 | RPL22 |
| 0.416216216 | 0.012148682 | 0.044 | 1 | 9588 | PRDX6 |
| 0.416216216 | 0.012148682 | 0.058 | 1 | 85443 | DCLK3 |
| 0.416216216 | 0.012148682 | 0.05 | 1 | 129049 | SGSM1 |

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| 0.348737772 | 2.0117E-239 | 57628 | DPP10 |
| 0.348661467 | 2.5967E-239 | 57596 | BEGAIN |
| 0.348560352 | 3.6415E-239 | 23204 | ARL6IP1 |
| 0.348392117 | 6.39E-239 | 55030 | FBXO34 |
| 0.348069537 | 1.8765E-238 | 387597 | ILDR2 |
| 0.348014292 | 2.2565E-238 | 4897 | NRCAM |
| 0.34797905 | 2.5381E-238 | 80331 | DNAJC5 |
| 0.347932208 | 2.9674E-238 | 8600 | TNFSF11 |
| 0.347885841 | 3.4637E-238 | 57521 | RPTOR |
| 0.347668365 | 7.1522E-238 | 113691 | AC002472.8 |
| 0.347569215 | 9.9522E-238 | 79697 | C14orf169 |
| 0.347539679 | 1.0981E-237 | 390637 | C15orf58 |
| 0.347516124 | 1.1878E-237 | 64579 | NDST4 |
| 0.347231885 | 3.0598E-237 | 83931 | STK40 |
| 0.347104162 | 4.6797E-237 | 149175 | MANEAL |
| 0.346983448 | 6.9909E-237 | 8828 | NRP2 |
| 0.346981313 | 7.0407E-237 | 56673 | C11orf16 |
| 0.346943519 | 7.9832E-237 | 55545 | MSX2P1 |
| 0.346910174 | 8.9189E-237 | 254778 | C8orf46 |
| 0.346725629 | 1.6466E-236 | 283316 | CD163L1 |
| 0.346572217 | 2.7403E-236 | 1948 | EFNB2 |
| 0.34653245 | 3.127E-236 | 81871 | KRTAP4-6 |
| 0.346299042 | 6.7829E-236 | 100290481 | CYAT1 |
| 0.346210139 | 9.108E-236 | 29970 | IQCJ-SCHIP1 |
| 0.346199518 | 9.4344E-236 | 11170 | FAM107A |
| 0.346140843 | 1.146E-235 | 201140 | DHRS7C |
| 0.345718833 | 4.6356E-235 | 7772 | ZNF229 |
| 0.345710641 | 4.763E-235 | 95681 | TSGA14 |
| 0.345578906 | 7.3644E-235 | 255374 | MBLAC1 |
| 0.3455394 | 8.3923E-235 | 283638 | KIAA0284 |
| 0.345379503 | 1.4238E-234 | 58495 | OVOL2 |
| 0.345374299 | 1.4485E-234 | 3283 | HSD3B1 |
| 0.345262714 | 2.0943E-234 | 165215 | FAM171B |
| 0.345202299 | 2.5568E-234 | 84660 | CCDC62 |
| 0.345163869 | 2.9028E-234 | 9956 | HS3ST2 |
| 0.34507863 | 3.8463E-234 | 144402 | CPNE8 |
| 0.3450725 | 3.925E-234 | 4645 | MYO5B |
| 0.345054677 | 4.1628E-234 | 685 | BTC |
| 0.344954588 | 5.7922E-234 | 7170 | TPM3 |
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| 0.344895742 | 7.0334E-234 | 26047 | CNTNAP2 |
| 0.344887445 | 7.2286E-234 | 142940 | TRUB1 |
| 0.344808581 | 9.3761E-234 | 27253 | PCDH17 |
| 0.344439038 | 3.1692E-233 | 2171 | FABP5 |
| 0.344232739 | 6.2505E-233 | 4647 | MYO7A |
| 0.344192689 | 7.131E-233 | 127262 | TPRG1L |
| 0.344145884 | 8.3183E-233 | 54627 | KIAA1383 |
| 0.344027075 | 1.2296E-232 | 152992 | C4orf23 |
| 0.343859695 | 2.1317E-232 | 11017 | SNRNP27 |
| 0.343837286 | 2.2946E-232 | 55634 | ZNF673 |
| 0.343540256 | 6.0867E-232 | 138799 | OR13C5 |
| 0.343258975 | 1.5317E-231 | 54802 | TRIT1 |
| 0.343196692 | 1.8787E-231 | 54072 | LINC00158 |
| 0.343134007 | 2.3073E-231 | 400456 | CTD-2536I1.1 |
| 0.343028387 | 3.2615E-231 | 125972 | CALR3 |
| 0.342827866 | 6.2898E-231 | 83693 | HSDL1 |
| 0.342706922 | 9.3447E-231 | 56158 | TEX12 |
| 0.342694787 | 9.7233E-231 | 9643 | MORF4L2 |
| 0.342689002 | 9.9091E-231 | 149603 | RNF187 |
| 0.342575858 | 1.4348E-230 | 2273 | FHL1 |
| 0.342555669 | 1.5328E-230 | 120400 | FAM55A |
| 0.342544248 | 1.5911E-230 | 4074 | M6PR |
| 0.342480608 | 1.9592E-230 | 152926 | PPM1K |
| 0.342137421 | 6.0133E-230 | 155051 | CRYGN |
| 0.341651942 | 2.9311E-229 | 54456 | MOV10L1 |
| 0.341267188 | 1.0265E-228 | 5903 | RANBP2 |
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| 0.34099084 | 2.5224E-228 | 64881 | PCDH20 |
| 0.340978334 | 2.6271E-228 | 359710 | C20orf185 |
| 0.340963701 | 2.7551E-228 | 162968 | ZNF497 |
| 0.340931538 | 3.0588E-228 | 64711 | HS3ST6 |
| 0.340872996 | 3.7E-228 | 8445 | DYRK2 |
| 0.340613973 | 8.5837E-228 | 113730 | KLHDC7B |
| 0.340607663 | 8.7614E-228 | 3109 | HLA-DMB |
| 0.340356465 | 1.98E-227 | 5995 | RGR |
| 0.340261754 | 2.692E-227 | 11329 | STK38 |
| 0.340153249 | 3.8271E-227 | 441381 | LRRC24 |
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| 0.415701416 | 0.012264055 | 0.038 | 1 | 79054 | TRPM8 |
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| 0.415444015 | 0.012322091 | 0.035 | 1 | 83742 | MARVELD1 |
| 0.415444015 | 0.012322091 | 0.042 | 1 | 374354 | NHLRC2 |
| 0.415186615 | 0.012380362 | 0.037 | 1 | 120 | ADD3 |
| 0.415186615 | 0.012380362 | 0.051 | 1 | 8720 | MBTPS1 |
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| 0.415186615 | 0.012380362 | 0.041 | 1 | 55656 | INTS8 |
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| 0.414929215 | 0.012438867 | 0.037 | 1 | 114814 | GNRHR2 |
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| 0.414671815 | 0.012497608 | 0.044 | 1 | 10494 | STK25 |
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| 0.414414414 | 0.012556585 | 0.04 | 1 | 51780 | KDM3B |
| 0.414414414 | 0.012556585 | 0.054 | 1 | 731275 | LOC731275 |
| 0.414157014 | 0.012615799 | 0.034 | 1 | 6204 | RPS10 |
| 0.414157014 | 0.012615799 | 0.052 | 1 | 6727 | SRP14 |
| 0.413899614 | 0.012675251 | 0.044 | 1 | 26505 | CNNM3 |
| 0.413899614 | 0.012675251 | 0.041 | 1 | 127845 | GOLT1A |
| 0.413642214 | 0.012734942 | 0.055 | 1 | 4121 | MAN1A1 |
| 0.413642214 | 0.012734942 | 0.049 | 1 | 10293 | TRAIP |
| 0.413642214 | 0.012734942 | 0.04 | 1 | 284184 | C17orf89 |
| 0.413127413 | 0.012855042 | 0.044 | 1 | 1947 | EFNB1 |
| 0.413127413 | 0.012855042 | 0.056 | 1 | 51422 | PRKAG2 |
| 0.413127413 | 0.012855042 | 0.035 | 1 | 441502 | RPS26P11 |
| 0.412870013 | 0.012915453 | 0.034 | 1 | 122773 | KLHDC1 |
| 0.412612613 | 0.012976106 | 0.051 | 1 | 10861 | SLC26A1 |
| 0.412612613 | 0.012976106 | 0.049 | 1 | 144321 | GLIPR1L2 |
| 0.412355212 | 0.013037001 | 0.043 | 1 | 10142 | AKAP9 |
| 0.412355212 | 0.013037001 | 0.049 | 1 | 55179 | FAIM |
| 0.412097812 | 0.01309814 | 0.044 | 1 | 6128 | RPL6P10 |
| 0.412097812 | 0.01309814 | 0.047 | 1 | 9668 | ZNF432 |
| 0.412097812 | 0.01309814 | 0.038 | 1 | 10859 | LILRB1 |
| 0.412097812 | 0.01309814 | 0.054 | 1 | 55026 | FAM70A |
| 0.412097812 | 0.01309814 | 0.046 | 1 | 113263 | GLCCI1 |
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| 0.411840412 | 0.013159522 | 0.048 | 1 | 3717 | JAK2 |
| 0.411583012 | 0.013221149 | 0.038 | 1 | 57167 | SALL4 |
| 0.411583012 | 0.013221149 | 0.05 | 1 | 60684 | C4orf41 |
| 0.411325611 | 0.013283022 | 0.048 | 1 | 10783 | NEK6 |
| 0.411325611 | 0.013283022 | 0.05 | 1 | 80279 | CDK5RAP3 |
| 0.411325611 | 0.013283022 | 0.048 | 1 | 119369 | NUDT9P1 |
| 0.411068211 | 0.013345141 | 0.042 | 1 | 1486 | CTBS |
| 0.411068211 | 0.013345141 | 0.046 | 1 | 6422 | SFRP1 |
| 0.411068211 | 0.013345141 | 0.053 | 1 | 55031 | USP47 |
| 0.410810811 | 0.013407507 | 0.048 | 1 | 956 | ENTPD3 |
| 0.410553411 | 0.013470121 | 0.051 | 1 | 1545 | CYP1B1 |
| 0.410553411 | 0.013470121 | 0.046 | 1 | 4673 | NAP1L1 |
| 0.41003861 | 0.013596096 | 0.057 | 1 | 64097 | EPB41L4A |
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| 0.40978121 | 0.013659458 | 0.056 | 1 | 49854 | ZNF295 |
| 0.40978121 | 0.013659458 | 0.059 | 1 | 389765 | LOC389765 |
| 0.40952381 | 0.013723072 | 0.037 | 1 | 89782 | LMLN |
| 0.40952381 | 0.013723072 | 0.044 | 1 | 113802 | C1orf59 |
| 0.40952381 | 0.013723072 | 0.059 | 1 | 283521 | LINC00282 |
| 0.40952381 | 0.013723072 | 0.04 | 1 | 388407 | C17orf82 |
| 0.40952381 | 0.013723072 | 0.054 | 1 | 414149 | ACBD7 |
| 0.40952381 | 0.013723072 | 0.042 | 1 | 100506658 | OCLN |
| 0.409266409 | 0.013786937 | 0.056 | 1 | 1428 | CRYM |
| 0.409266409 | 0.013786937 | 0.056 | 1 | 2731 | GLDC |
| 0.409266409 | 0.013786937 | 0.045 | 1 | 6205 | RPS11P5 |
| 0.409266409 | 0.013786937 | 0.042 | 1 | 284004 | HEXDC |
| 0.409266409 | 0.013786937 | 0.039 | 1 | 728492 | SERF1B |
| 0.409009009 | 0.013851054 | 0.05 | 1 | 145389 | SLC38A6 |
| 0.408751609 | 0.013915425 | 0.046 | 1 | 5611 | DNAJC3 |
| 0.408751609 | 0.013915425 | 0.04 | 1 | 51399 | TRAPPC4 |
| 0.408751609 | 0.013915425 | 0.046 | 1 | 54881 | TEX10 |
| 0.408494208 | 0.01398005 | 0.041 | 1 | 10777 | ARPP-21 |
| 0.408494208 | 0.01398005 | 0.045 | 1 | 80217 | C10orf79 |
| 0.408494208 | 0.01398005 | 0.052 | 1 | 83449 | PMFBP1 |
| 0.408494208 | 0.01398005 | 0.048 | 1 | 728024 | LOC728024 |
| 0.408236808 | 0.014044931 | 0.04 | 1 | 5873 | RAB27A |
| 0.408236808 | 0.014044931 | 0.05 | 1 | 7125 | TNNC2 |
| 0.407979408 | 0.014110066 | 0.054 | 1 | 2752 | GLUL |
| 0.407979408 | 0.014110066 | 0.05 | 1 | 6646 | SOAT1 |
| 0.407722008 | 0.014175459 | 0.048 | 1 | 92565 | FANK1 |
| 0.407722008 | 0.014175459 | 0.043 | 1 | 100147773 | RP11-466F5.8 |
| 0.407464607 | 0.014241109 | 0.058 | 1 | 220004 | C11orf66 |
| 0.407207207 | 0.014307017 | 0.049 | 1 | 55138 | FAM90A1 |
| 0.406949807 | 0.014373183 | 0.052 | 1 | 1650 | DDOST |

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| 0.339911694 | 8.3715E-227 | 5273 | SERPINB10 |
| 0.339752767 | 1.4005E-226 | 27099 | SND1-IT1 |
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| 0.339592473 | 2.3527E-226 | 118471 | PRAP1 |
| 0.339504398 | 3.1281E-226 | 245 | ALOX12P2 |
| 0.339328962 | 5.5157E-226 | 1456 | CSNK1G3 |
| 0.339155633 | 9.6562E-226 | 56097 | PCDHGC5 |
| 0.339140162 | 1.0151E-225 | 51156 | SERPINA10 |
| 0.33913866 | 1.02E-225 | 63827 | BCAN |
| 0.339016142 | 1.515E-225 | 146439 | CCDC64B |
| 0.338982679 | 1.6878E-225 | 345193 | LRIT3 |
| 0.33897706 | 1.7187E-225 | 51569 | UFM1 |
| 0.338911136 | 2.1262E-225 | 25833 | POU2F3 |
| 0.338876305 | 2.3791E-225 | 164633 | CABP7 |
| 0.338765075 | 3.406E-225 | 1310 | COL19A1 |
| 0.338688168 | 4.3646E-225 | 23362 | PSD3 |
| 0.338615876 | 5.5101E-225 | 516 | ATP5G1 |
| 0.338441488 | 9.6651E-225 | 1820 | ARID3A |
| 0.338440487 | 9.6963E-225 | 554226 | NCRNA00164 |
| 0.338241885 | 1.838E-224 | 9500 | MAGED1 |
| 0.338212446 | 2.0207E-224 | 606551 | UBE2MP1 |
| 0.338139682 | 2.5538E-224 | 1154 | CISH |
| 0.338116069 | 2.7554E-224 | 53942 | CNTN5 |
| 0.338103314 | 2.8708E-224 | 5880 | RAC2 |
| 0.338092695 | 2.9706E-224 | 200845 | KCTD6 |
| 0.337954185 | 4.6378E-224 | 65981 | CAPRIN2 |
| 0.337857588 | 6.3268E-224 | 84870 | RSPO3 |
| 0.337741102 | 9.1993E-224 | 9479 | MAPK8IP1 |
| 0.3377267 | 9.6349E-224 | 9334 | B4GALT5 |
| 0.337681149 | 1.1153E-223 | 8767 | RIPK2 |
| 0.33767951 | 1.1212E-223 | 10650 | SLMO1 |
| 0.337483159 | 2.1062E-223 | 222029 | DKFZp434L192 |
| 0.33746834 | 2.2088E-223 | 55320 | C14orf106 |
| 0.337047275 | 8.5237E-223 | 11052 | CPSF6 |
| 0.336887831 | 1.4206E-222 | 55733 | HHAT |
| 0.336863751 | 1.5345E-222 | 643226 | GRXCR2 |
| 0.336722937 | 2.4085E-222 | 112858 | TP53RK |
| 0.336411257 | 6.5277E-222 | 56950 | SMYD2 |
| 0.336177234 | 1.3789E-221 | 6894 | TARBP1 |
| 0.336123125 | 1.6391E-221 | 89890 | KBTBD6 |
| 0.336083449 | 1.8605E-221 | 91010 | FMNL3 |
| 0.33602303 | 2.2563E-221 | 375686 | SPATC1 |
| 0.335995624 | 2.4626E-221 | 100132304 | RP1-172N19.1 |
| 0.335846078 | 3.9688E-221 | 492303 | GEMIN8P4 |
| 0.335823934 | 4.2593E-221 | 51451 | LCMT1 |
| 0.33582206 | 4.2848E-221 | 131540 | ZDHHC19 |
| 0.335817957 | 4.3413E-221 | 5568 | PRKACG |
| 0.335777449 | 4.9401E-221 | 526 | ATP6V1B2 |
| 0.335661979 | 7.1391E-221 | 54932 | EXD3 |
| 0.335496566 | 1.2095E-220 | 64895 | PAPOLG |
| 0.335495854 | 1.2122E-220 | 1952 | CELSR2 |
| 0.335487477 | 1.245E-220 | 7010 | TEK |
| 0.335205619 | 3.0547E-220 | 80000 | KIAA1772 |
| 0.335173915 | 3.379E-220 | 65217 | PCDH15 |
| 0.335067775 | 4.7365E-220 | 2762 | GMDS |
| 0.335034496 | 5.2654E-220 | 5441 | POLR2L |
| 0.334935065 | 7.2235E-220 | 5176 | SERPINF1 |
| 0.334841016 | 9.7408E-220 | 339965 | CCDC158 |
| 0.334837172 | 9.8605E-220 | 9079 | LDB2 |
| 0.334616747 | 1.9862E-219 | 29070 | CCDC113 |
| 0.334610574 | 2.0256E-219 | 26262 | TSPAN17 |
| 0.334524579 | 2.6615E-219 | 374786 | EFCAB5 |
| 0.334471105 | 3.1539E-219 | 389812 | LCN15 |
| 0.334383003 | 4.1713E-219 | 3359 | HTR3A |
| 0.334057511 | 1.1709E-218 | 923 | CD6 |
| 0.333976851 | 1.5119E-218 | 5532 | PPP3CB |
| 0.333809907 | 2.5653E-218 | 634 | CEACAM1 |
| 0.333795264 | 2.687E-218 | 84966 | IGSF21 |
| 0.333618182 | 4.7062E-218 | 150962 | PUS10 |
| 0.333590318 | 5.1399E-218 | 3680 | ITGA9 |
| 0.333561608 | 5.6286E-218 | 10535 | RNASEH2A |
| 0.333494308 | 6.9637E-218 | 54777 | C10orf92 |
| 0.333126355 | 2.2276E-217 | 2731 | GLDC |
| 0.33309032 | 2.4961E-217 | 200424 | TET3 |
| 0.333033213 | 2.9893E-217 | 389119 | C3orf54 |
| 0.333004706 | 3.2708E-217 | 23248 | RPRD2 |
| 0.332844252 | 5.4269E-217 | 1175 | AP2S1 |
| 0.332816693 | 5.9198E-217 | 390113 | OR4X1 |
| 0.332710219 | 8.2821E-217 | 22883 | CLSTN1 |
| 0.332592741 | 1.1994E-216 | 80020 | FOXRED2 |
| 0.332540289 | 1.415E-216 | 917 | CD3G |
| 0.332528086 | 1.4705E-216 | 339044 | PKD1P1 |

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| 0.406949807 | 0.014373183 | 0.038 | 1 | 5781 | PTPN11 |
| 0.406949807 | 0.014373183 | 0.053 | 1 | 6869 | TACR1 |
| 0.406949807 | 0.014373183 | 0.04 | 1 | 163702 | IL28RA |
| 0.406949807 | 0.014373183 | 0.052 | 1 | 203547 | VMA21 |
| 0.406692407 | 0.01443961 | 0.04 | 1 | 10690 | FUT9 |
| 0.406692407 | 0.01443961 | 0.042 | 1 | 80314 | EPC1 |
| 0.406435006 | 0.014506297 | 0.051 | 1 | 64769 | MEAF6 |
| 0.406177606 | 0.014573246 | 0.057 | 1 | 3652 | IPP |
| 0.406177606 | 0.014573246 | 0.052 | 1 | 10385 | BTN2A2 |
| 0.406177606 | 0.014573246 | 0.053 | 1 | 29118 | DDX25 |
| 0.406177606 | 0.014573246 | 0.035 | 1 | 51250 | C6orf203 |
| 0.405920206 | 0.014640456 | 0.036 | 1 | 690 | BTF3P11 |
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| 0.405920206 | 0.014640456 | 0.035 | 1 | 26227 | PHGDH |
| 0.405920206 | 0.014640456 | 0.043 | 1 | 339804 | C2orf74 |
| 0.405920206 | 0.014640456 | 0.064 | 1 | 386618 | KCTD4 |
| 0.405662806 | 0.01470793 | 0.038 | 1 | 65250 | C5orf42 |
| 0.405662806 | 0.01470793 | 0.047 | 1 | 388335 | TMEM220 |
| 0.405662806 | 0.01470793 | 0.052 | 1 | 391358 | TRMT112P6 |
| 0.405405405 | 0.014775667 | 0.049 | 1 | 55815 | TSNAXIP1 |
| 0.405405405 | 0.014775667 | 0.037 | 1 | 84182 | FAM188B |
| 0.405405405 | 0.014775667 | 0.05 | 1 | 139728 | PNCK |
| 0.405148005 | 0.014843669 | 0.06 | 1 | 22826 | DNAJC8 |
| 0.405148005 | 0.014843669 | 0.056 | 1 | 22828 | RBM16 |
| 0.405148005 | 0.014843669 | 0.054 | 1 | 25865 | PRKD2 |
| 0.405148005 | 0.014843669 | 0.037 | 1 | 56655 | POLE4 |
| 0.405148005 | 0.014843669 | 0.037 | 1 | 91942 | NDUFAF2 |
| 0.405148005 | 0.014843669 | 0.042 | 1 | 118432 | RPL29P2 |
| 0.404890605 | 0.014911937 | 0.041 | 1 | 3309 | HSPA5 |
| 0.404890605 | 0.014911937 | 0.061 | 1 | 349075 | ZNF713 |
| 0.404633205 | 0.014980471 | 0.058 | 1 | 56171 | DNAH7 |
| 0.404375804 | 0.015049271 | 0.04 | 1 | 7763 | ZFAND5 |
| 0.404375804 | 0.015049271 | 0.053 | 1 | 11200 | CHEK2 |
| 0.404375804 | 0.015049271 | 0.04 | 1 | 22987 | SV2C |
| 0.404375804 | 0.015049271 | 0.051 | 1 | 51347 | TAOK3 |
| 0.404375804 | 0.015049271 | 0.049 | 1 | 90806 | ANGEL2 |
| 0.404118404 | 0.01511834 | 0.05 | 1 | 1787 | TRDMT1 |
| 0.404118404 | 0.01511834 | 0.048 | 1 | 84265 | POLR3GL |
| 0.403861004 | 0.015187677 | 0.05 | 1 | 55520 | ELAC1 |
| 0.403861004 | 0.015187677 | 0.049 | 1 | 144809 | C13orf30 |
| 0.403346203 | 0.015327161 | 0.036 | 1 | 3189 | HNRNPH3 |
| 0.403088803 | 0.01539731 | 0.048 | 1 | 3362 | HTR6 |
| 0.403088803 | 0.01539731 | 0.035 | 1 | 79149 | ZSCAN5A |
| 0.402831403 | 0.01546773 | 0.047 | 1 | 6723 | SRM |
| 0.402831403 | 0.01546773 | 0.057 | 1 | 54952 | TRNAU1AP |
| 0.402574003 | 0.015538423 | 0.051 | 1 | 1739 | DLG1 |
| 0.402574003 | 0.015538423 | 0.072 | 1 | 1842 | ECM2 |
| 0.402574003 | 0.015538423 | 0.042 | 1 | 5927 | KDM5A |
| 0.402059202 | 0.015680632 | 0.05 | 1 | 84243 | ZDHHC18 |
| 0.402059202 | 0.015680632 | 0.048 | 1 | 166379 | BBS12 |
| 0.401801802 | 0.015752148 | 0.052 | 1 | 283078 | MKX |
| 0.401544402 | 0.015823941 | 0.058 | 1 | 2567 | GABRG3 |
| 0.401544402 | 0.015823941 | 0.04 | 1 | 729952 | HMGB3P6 |
| 0.401287001 | 0.015896011 | 0.064 | 1 | 1104 | RCC1 |
| 0.401029601 | 0.015968358 | 0.05 | 1 | 5158 | PDE6B |
| 0.401029601 | 0.015968358 | 0.053 | 1 | 5159 | PDGFRB |
| 0.401029601 | 0.015968358 | 0.042 | 1 | 26355 | FAM162A |
| 0.401029601 | 0.015968358 | 0.043 | 1 | 135398 | C6ORF141 |
| 0.401029601 | 0.015968358 | 0.061 | 1 | 205860 | TRIML2 |
| 0.400772201 | 0.016040985 | 0.05 | 1 | 1824 | DSC2 |
| 0.400772201 | 0.016040985 | 0.066 | 1 | 7617 | ZNF66P |
| 0.400772201 | 0.016040985 | 0.046 | 1 | 8453 | CUL2 |
| 0.400772201 | 0.016040985 | 0.06 | 1 | 22800 | RRAS2 |
| 0.400772201 | 0.016040985 | 0.039 | 1 | 29883 | CNOT7 |
| 0.400772201 | 0.016040985 | 0.048 | 1 | 57035 | C1orf63 |
| 0.400772201 | 0.016040985 | 0.046 | 1 | 404672 | GTF2H5 |
| 0.400772201 | 0.016040985 | 0.042 | 1 | 730092 | RRN3P1 |
| 0.400514801 | 0.01611389 | 0.036 | 1 | 3418 | IDH2 |
| 0.400514801 | 0.01611389 | 0.042 | 1 | 25893 | TRIM58 |
| 0.400514801 | 0.01611389 | 0.056 | 1 | 51084 | CRYL1 |
| 0.400514801 | 0.01611389 | 0.055 | 1 | 56260 | C8orf44 |
| 0.4002574 | 0.016187077 | 0.051 | 1 | 90141 | EFCAB11 |
| 0.4002574 | 0.016187077 | 0.044 | 1 | 122042 | RXFP2 |
| 0.4 | 0.016260544 | 0.054 | 1 | 23155 | CLCC1 |
| 0.4 | 0.016260544 | 0.06 | 1 | 57514 | CDGAP |
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| 0.330774888 | 3.6204E-214 | 349136 | WDR86 |
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| 0.330595032 | 6.356E-214 | 286514 | MAGEB18 |
| 0.33059352 | 6.3861E-214 | 64284 | RAB17 |
| 0.330507459 | 8.3587E-214 | 80863 | PRRT1 |
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| 0.33030851 | 1.5568E-213 | 64757 | MOSC1 |
| 0.330281667 | 1.693E-213 | 55022 | PID1 |
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| 0.330147083 | 2.5777E-213 | 645832 | SEBOX |
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| 0.32667448 | 1.2312E-208 | 51066 | C3orf32 |
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| 0.326180608 | 5.6337E-208 | 92912 | UBE2Q2 |
| 0.32613935 | 6.3961E-208 | 5594 | MAPK1 |
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| 0.325771281 | 1.9828E-207 | 6444 | SGCD |
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| 0.397683398 | 0.016934544 | 0.05 | 1 | 79047 | KCTD15 |
| 0.397683398 | 0.016934544 | 0.052 | 1 | 441381 | LRRC24 |
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| 0.397168597 | 0.017087487 | 0.043 | 1 | 6147 | RPL23A |
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| 0.396911197 | 0.017164395 | 0.054 | 1 | 1081 | CGA |
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| 0.394079794 | 0.018029871 | 0.07 | 1 | 2591 | GALNT3 |
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| 0.324088454 | 3.4282E-205 | 161582 | DYX1C1-CCPG1 |
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| 0.323249909 | 4.4138E-204 | 5140 | PDE3B |
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| 0.32290318 | 1.2666E-203 | 752 | FMNL1 |
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| 0.322401979 | 5.7995E-203 | 2853 | GPR31 |
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| 0.321901338 | 2.6432E-202 | 391191 | OR2AK2 |
| 0.321483096 | 9.3644E-202 | 9497 | SLC4A7 |
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| 0.321168136 | 2.4244E-201 | 26533 | OR10G3 |
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| 0.318165913 | 1.984E-197 | 4920 | ROR2 |
| 0.317737666 | 7.1128E-197 | 2168 | FABP1 |
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| 0.389189189 | 0.019611522 | 0.061 | 1 | 199 | AIF1 |
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| 0.387644788 | 0.020134623 | 0.063 | 1 | 542767 | C1QTNF9B-AS1 |
| 0.387387387 | 0.020222937 | 0.065 | 1 | 4217 | MAP3K5 |
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| 0.386872587 | 0.020400542 | 0.068 | 1 | 54680 | ZNHIT6 |
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| 0.384555985 | 0.021216074 | 0.054 | 1 | 64344 | HIF3A |
| 0.384555985 | 0.021216074 | 0.072 | 1 | 645249 | RP5-1121A15.1 |
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| 0.315977176 | 1.3241E-194 | 3116 | HLA-DPB2 |
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| 0.315658005 | 3.4026E-194 | 169044 | COL22A1 |
| 0.315604503 | 3.9853E-194 | 474148 | TTTY3B |
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| 0.314984371 | 2.4844E-193 | 2038 | EPB42 |
| 0.314962785 | 2.6476E-193 | 23339 | VPS39 |
| 0.314825622 | 3.9662E-193 | 140606 | SELM |
| 0.314811199 | 4.1383E-193 | 225689 | MAPK15 |
| 0.31474635 | 5.0092E-193 | 6925 | TCF4 |
| 0.314702409 | 5.7011E-193 | 7295 | TXN |
| 0.314636788 | 6.916E-193 | 8569 | MKNK1 |
| 0.314363626 | 1.5448E-192 | 283848 | CES8 |
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| 0.312992488 | 8.613E-191 | 23025 | UNC13A |
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| 0.312908838 | 1.1E-190 | 165082 | GPR113 |
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| 0.312086511 | 1.2132E-189 | 56138 | PCDHA11 |
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| 0.310517143 | 1.1596E-187 | 646936 | LOC646936 |
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| 0.309333269 | 3.5502E-186 | 9353 | SLIT2 |
| 0.30932987 | 3.5852E-186 | 8682 | PEA15 |
| 0.30917977 | 5.5261E-186 | 7511 | XPNPEP1 |
| 0.309160661 | 5.8389E-186 | 136 | ADORA2B |
| 0.30914809 | 6.0542E-186 | 9729 | KIAA0408 |
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| 0.38043758 | 0.022733493 | 0.066 | 1 | 23403 | FBXO46 |
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| 0.378893179 | 0.023325476 | 0.065 | 1 | 8864 | PER2 |
| 0.378893179 | 0.023325476 | 0.061 | 1 | 51639 | AC008073.1 |
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| 0.377606178 | 0.023828597 | 0.088 | 1 | 331 | XIAP |
| 0.377606178 | 0.023828597 | 0.056 | 1 | 5338 | PLD2 |
| 0.377606178 | 0.023828597 | 0.067 | 1 | 7010 | TEK |
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| 0.306675218 | 7.2699E-183 | 23033 | DOPEY1 |
| 0.306647983 | 7.8574E-183 | 116988 | AGAP3 |
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| 0.304934052 | 1.0279E-180 | 4107 | MAGEA8 |
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| 0.341827542 | 0.041894235 | 0.131 | 1 | 51765 | STK3 |
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| 0.268484236 | 5.2673E-139 | 387357 | THEMIS |
| 0.268285923 | 8.5436E-139 | 23160 | WDR43 |
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| 0.268210597 | 1.0266E-138 | 1620 | DBC1 |
| 0.26802964 | 1.5953E-138 | 131377 | KBTBD5 |
| 0.267963141 | 1.8757E-138 | 1734 | DIO2 |
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| 0.267661353 | 3.9087E-138 | 5342 | PLGLB2 |
| 0.267584923 | 4.7067E-138 | 65985 | AACS |
| 0.267552687 | 5.0903E-138 | 9424 | KCNK6 |
| 0.267517078 | 5.5504E-138 | 64130 | LIN7B |
| 0.267487118 | 5.9695E-138 | 54511 | HMGCLL1 |
| 0.26724165 | 1.0834E-137 | 8394 | PIP5K1A |
| 0.267042082 | 1.7582E-137 | 56924 | PAK6 |
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| 0.266053135 | 1.9245E-136 | 84172 | POLR1B |
| 0.265916236 | 2.6781E-136 | 8618 | CADPS |
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| 0.264023654 | 2.5303E-134 | 221078 | NSUN6 |
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| 0.33976834 | 0.043205612 | 0.11 | 1 | 151790 | WDR49 |
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| 0.337966538 | 0.044380336 | 0.111 | 1 | 10668 | CGRRF1 |
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| 0.337709138 | 0.044550256 | 0.092 | 1 | 7596 | ZNF45 |
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| 0.337709138 | 0.044550256 | 0.084 | 1 | 55365 | TMEM176A |
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| 0.337709138 | 0.044550256 | 0.112 | 1 | 201456 | FBXO15 |
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| 0.336936937 | 0.045063196 | 0.112 | 1 | 54344 | DPM3 |
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| 0.336936937 | 0.045063196 | 0.082 | 1 | 197258 | FUK |
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| 0.262299376 | 1.5445E-132 | 388585 | HES5 |
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| 0.26180674 | 4.9714E-132 | 197 | AHSG |
| 0.261720993 | 6.0917E-132 | 5295 | PIK3R1 |
| 0.261653501 | 7.1479E-132 | 5566 | PRKACA |
| 0.261554722 | 9.0319E-132 | 81578 | COL21A1 |
| 0.261499633 | 1.029E-131 | 8366 | HIST1H4B |
| 0.261350705 | 1.4638E-131 | 9827 | RGP1 |
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| 0.331016731 | 0.04915732 | 0.1 | 1 | 24148 | PRPF6 |
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| 0.33024453 | 0.049712856 | 0.131 | 1 | 2774 | GNAL |
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| 0.251116907 | 2.7913E-121 | 64778 | FNDC3B |
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| 0.248612791 | 7.7716E-119 | 401533 | LOC401533 |
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| 0.248112366 | 2.3754E-118 | 160418 | TMTC3 |
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| 0.248044526 | 2.7634E-118 | 84059 | GPR98 |
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| 0.247902524 | 3.7922E-118 | 26512 | INTS6 |
| 0.247804826 | 4.7142E-118 | 286887 | KRT6C |
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| 0.245418918 | 9.3011E-116 | 1662 | DDX10 |
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| 0.243546301 | 5.6549E-114 | 83850 | ESYT3 |
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| 0.316344916 | 0.060610535 | 0.131 | 1 | 386617 | KCTD8 |
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| 0.315057915 | 0.061709313 | 0.128 | 1 | 11197 | WIF1 |
| 0.315057915 | 0.061709313 | 0.126 | 1 | 23435 | TARDBP |
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| 0.314028314 | 0.062599742 | 0.13 | 1 | 10902 | BRD8 |
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| 0.239880598 | 1.5853E-110 | 25758 | C11orf41 |
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| 0.31042471 | 0.065797273 | 0.145 | 1 | 6509 | SLC1A4 |
| 0.31042471 | 0.065797273 | 0.146 | 1 | 79832 | QSER1 |
| 0.31042471 | 0.065797273 | 0.137 | 1 | 84747 | UNC119B |
| 0.31016731 | 0.066030548 | 0.154 | 1 | 3606 | IL18 |
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| 0.216816636 | 3.67379E-90 | 80195 | RP11-369J21.1 |
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| 0.216774682 | 3.98196E-90 | 284111 | SLC13A5 |
| 0.216763459 | 4.06869E-90 | 2834 | PRLHR |
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| 0.291891892 | 0.084345771 | 0.178 | 1 | 78998 | C8ORF51 |
| 0.291891892 | 0.084345771 | 0.148 | 1 | 91316 | AP000347.4 |
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| 0.290862291 | 0.085485089 | 0.149 | 1 | 60558 | GUF1 |
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| 0.29034749 | 0.086059233 | 0.153 | 1 | 10079 | ATP9A |
| 0.29034749 | 0.086059233 | 0.194 | 1 | 23708 | GSPT2 |
| 0.29034749 | 0.086059233 | 0.166 | 1 | 147687 | ZNF417 |
| 0.29034749 | 0.086059233 | 0.174 | 1 | 342574 | KRT27 |
| 0.29034749 | 0.086059233 | 0.172 | 1 | 442075 | AC034193.5 |
| 0.29009009 | 0.086347431 | 0.186 | 1 | 158399 | ZNF483 |
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| 0.28983269 | 0.086636381 | 0.194 | 1 | 26082 | AC135731.1 |
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| 0.28957529 | 0.086926084 | 0.151 | 1 | 1476 | CSTB |
| 0.28957529 | 0.086926084 | 0.175 | 1 | 1477 | CSTF1 |
| 0.28957529 | 0.086926084 | 0.202 | 1 | 57821 | C1orf114 |
| 0.289317889 | 0.087216541 | 0.16 | 1 | 5919 | RARRES2 |
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| 0.289060489 | 0.087507754 | 0.161 | 1 | 643630 | LOC643630 |
| 0.288803089 | 0.087799724 | 0.161 | 1 | 11232 | POLG2 |
| 0.288803089 | 0.087799724 | 0.145 | 1 | 51078 | THAP4 |
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| 0.211121734 | 1.76332E-85 | 168433 | RNF133 |
| 0.211045075 | 2.03432E-85 | 25778 | DSTYK |
| 0.211024086 | 2.11551E-85 | 27285 | TEKT2 |
| 0.210943016 | 2.4606E-85 | 84069 | PLEKHN1 |
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| 0.21083892 | 2.98722E-85 | 79017 | GGCT |
| 0.210825261 | 3.06419E-85 | 9244 | CRLF1 |
| 0.21081416 | 3.1282E-85 | 6844 | VAMP2 |
| 0.21080143 | 3.20325E-85 | 94033 | FTMT |
| 0.210800819 | 3.20689E-85 | 23639 | LRRC6 |
| 0.21073607 | 3.61777E-85 | 83863 | TTTY5 |
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| 0.210596231 | 4.69306E-85 | 84276 | NICN1 |
| 0.210568998 | 4.93692E-85 | 7036 | TFR2 |
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| 0.210394211 | 6.83253E-85 | 28992 | MACROD1 |
| 0.21038915 | 6.89709E-85 | 55175 | KLHL11 |
| 0.210241472 | 9.07403E-85 | 137682 | C8orf38 |
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| 0.209403586 | 4.28566E-84 | 5805 | PTS |
| 0.209390126 | 4.39364E-84 | 7225 | TRPC6 |
| 0.209162589 | 6.68956E-84 | 196792 | FAM24B |
| 0.20915089 | 6.83564E-84 | 6999 | TDO2 |
| 0.208950816 | 9.88846E-84 | 7026 | NR2F2 |
| 0.208931756 | 1.02422E-83 | 2669 | GEM |
| 0.208879407 | 1.12802E-83 | 9702 | CEP57 |
| 0.208788006 | 1.33502E-83 | 84365 | MKI67IP |
| 0.208690116 | 1.59888E-83 | 54944 | AC073548.1 |
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| 0.208339366 | 3.04889E-83 | 51118 | UTP11L |
| 0.20831505 | 3.18829E-83 | 5146 | PDE6C |
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| 0.20804927 | 5.19524E-83 | 9942 | XYLB |
| 0.208041694 | 5.268E-83 | 132720 | C4orf32 |
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| 0.207945821 | 6.28147E-83 | 157313 | CDCA2 |
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| 0.207364092 | 1.82352E-82 | 55273 | TMEM100 |
| 0.207309991 | 2.01319E-82 | 245940 | AC144830.1 |
| 0.207297134 | 2.06108E-82 | 10253 | SPRY2 |
| 0.207262226 | 2.19692E-82 | 4067 | LYN |
| 0.207254383 | 2.22865E-82 | 3714 | JAG2 |
| 0.207078025 | 3.07611E-82 | 4301 | MLLT4 |
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| 0.288545689 | 0.088092452 | 0.166 | 1 | 8409 | UXT |
| 0.288545689 | 0.088092452 | 0.162 | 1 | 8559 | PRPF18 |
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| 0.288545689 | 0.088092452 | 0.175 | 1 | 55799 | CACNA2D3 |
| 0.288545689 | 0.088092452 | 0.176 | 1 | 285016 | FAM150B |
| 0.288545689 | 0.088092452 | 0.194 | 1 | 728047 | AC135983.8 |
| 0.288288288 | 0.088385939 | 0.182 | 1 | 5373 | PMM2 |
| 0.288288288 | 0.088385939 | 0.169 | 1 | 5499 | PPP1CA |
| 0.288288288 | 0.088385939 | 0.143 | 1 | 5937 | RBMS1 |
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| 0.287516088 | 0.089270967 | 0.164 | 1 | 26123 | TCTN3 |
| 0.287516088 | 0.089270967 | 0.2 | 1 | 50632 | CALY |
| 0.287516088 | 0.089270967 | 0.156 | 1 | 728724 | RP11-1057N3.1 |
| 0.287258687 | 0.089567503 | 0.155 | 1 | 54439 | RBM27 |
| 0.287258687 | 0.089567503 | 0.168 | 1 | 54737 | MPHOSPH8 |
| 0.287001287 | 0.089864804 | 0.173 | 1 | 4799 | NFX1 |
| 0.287001287 | 0.089864804 | 0.153 | 1 | 55733 | HHAT |
| 0.287001287 | 0.089864804 | 0.158 | 1 | 91860 | CALML4 |
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| 0.286743887 | 0.090162871 | 0.174 | 1 | 51313 | C4orf18 |
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| 0.286743887 | 0.090162871 | 0.153 | 1 | 79921 | TCEAL4 |
| 0.286743887 | 0.090162871 | 0.173 | 1 | 84172 | POLR1B |
| 0.286743887 | 0.090162871 | 0.178 | 1 | 84867 | PTPN5 |
| 0.286486486 | 0.090461706 | 0.18 | 1 | 9868 | TOMM70A |
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| 0.286486486 | 0.090461706 | 0.175 | 1 | 252969 | NEIL2 |
| 0.286486486 | 0.090461706 | 0.188 | 1 | 257313 | UTS2D |
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| 0.285971686 | 0.091061684 | 0.158 | 1 | 26005 | C2CD3 |
| 0.285714286 | 0.091362828 | 0.161 | 1 | 9204 | ZMYM6 |
| 0.285714286 | 0.091362828 | 0.169 | 1 | 57092 | PCNP |
| 0.285714286 | 0.091362828 | 0.16 | 1 | 149499 | C1orf92 |
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| 0.284942085 | 0.092270901 | 0.183 | 1 | 5436 | POLR2G |
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| 0.283397683 | 0.094108029 | 0.175 | 1 | 118429 | ANTXR2 |
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| 0.282368082 | 0.095348426 | 0.171 | 1 | 51575 | ESF1 |
| 0.282368082 | 0.095348426 | 0.167 | 1 | 79918 | SETD6 |
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| 0.282110682 | 0.095660492 | 0.178 | 1 | 8664 | EIF3D |
| 0.282110682 | 0.095660492 | 0.17 | 1 | 22856 | CHSY1 |
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| 0.204245287 | 5.229E-80 | 3899 | AFF3 |
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| 0.204076066 | 7.08935E-80 | 23345 | SYNE1 |
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| 0.203134259 | 3.83829E-79 | 255082 | CASC2 |
| 0.203127976 | 3.88167E-79 | 353149 | TBC1D26 |
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| 0.202193259 | 2.05769E-78 | 130749 | CPO |
| 0.202177749 | 2.11529E-78 | 145567 | TTC7B |
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| 0.201655949 | 5.34734E-78 | 5155 | PDGFB |
| 0.201598769 | 5.91842E-78 | 2673 | GFPT1 |
| 0.201581461 | 6.10299E-78 | 51166 | AADAT |
| 0.201516669 | 6.8463E-78 | 375567 | VWC2 |
| 0.201507927 | 6.95327E-78 | 10135 | PBEF1 |
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| 0.281853282 | 0.095973346 | 0.158 | 1 | 64766 | S100PBP |
| 0.281853282 | 0.095973346 | 0.186 | 1 | 153527 | ZMAT2 |
| 0.281853282 | 0.095973346 | 0.167 | 1 | 283481 | LOC283481 |
| 0.281853282 | 0.095973346 | 0.16 | 1 | 388695 | LYSMD1 |
| 0.281595882 | 0.096286991 | 0.179 | 1 | 2941 | GSTA4 |
| 0.281595882 | 0.096286991 | 0.205 | 1 | 26037 | SIPA1L1 |
| 0.281595882 | 0.096286991 | 0.207 | 1 | 56479 | KCNQ5 |
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| 0.281338481 | 0.096601427 | 0.181 | 1 | 59272 | ACE2 |
| 0.281081081 | 0.096916655 | 0.195 | 1 | 8045 | RASSF7 |
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| 0.281081081 | 0.096916655 | 0.151 | 1 | 57553 | MICAL3 |
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| 0.280823681 | 0.097232678 | 0.158 | 1 | 6118 | RPA2 |
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| 0.280823681 | 0.097232678 | 0.169 | 1 | 64866 | CDCP1 |
| 0.280823681 | 0.097232678 | 0.206 | 1 | 124245 | ZC3H18 |
| 0.280823681 | 0.097232678 | 0.184 | 1 | 162282 | ANKFN1 |
| 0.280823681 | 0.097232678 | 0.208 | 1 | 284485 | C1orf230 |
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| 0.280566281 | 0.097549495 | 0.186 | 1 | 4026 | LPP |
| 0.280566281 | 0.097549495 | 0.171 | 1 | 79871 | RPAP2 |
| 0.280566281 | 0.097549495 | 0.16 | 1 | 205428 | C3orf58 |
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| 0.28030888 | 0.097867108 | 0.194 | 1 | 56105 | PCDHGA11 |
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| 0.28005148 | 0.098185518 | 0.176 | 1 | 25973 | PARS2 |
| 0.28005148 | 0.098185518 | 0.183 | 1 | 84908 | FAM136A |
| 0.28005148 | 0.098185518 | 0.187 | 1 | 153090 | DAB2IP |
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| 0.27979408 | 0.098504726 | 0.203 | 1 | 10579 | TACC2 |
| 0.27979408 | 0.098504726 | 0.189 | 1 | 79571 | GCC1 |
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| 0.27979408 | 0.098504726 | 0.173 | 1 | 440926 | H3F3AP4 |
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| 0.27953668 | 0.098824734 | 0.179 | 1 | 90293 | KLHL13 |
| 0.27953668 | 0.098824734 | 0.175 | 1 | 91975 | ZNF300 |
| 0.27953668 | 0.098824734 | 0.186 | 1 | 100192378 | RP11-65D13.1 |
| 0.279279279 | 0.099145543 | 0.198 | 1 | 1022 | CDK7 |
| 0.279279279 | 0.099145543 | 0.178 | 1 | 389073 | C2orf80 |
| 0.279279279 | 0.099145543 | 0.2 | 1 | 646808 | LOC646808 |
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| 0.279021879 | 0.099467154 | 0.186 | 1 | 10641 | TUSC4 |
| 0.279021879 | 0.099467154 | 0.206 | 1 | 11120 | BTN2A1 |
| 0.279021879 | 0.099467154 | 0.181 | 1 | 23645 | PPP1R15A |
| 0.278764479 | 0.099789568 | 0.16 | 1 | 4728 | NDUFS8 |
| 0.278764479 | 0.099789568 | 0.172 | 1 | 6427 | SFRS2 |
| 0.278764479 | 0.099789568 | 0.222 | 1 | 27299 | ADAMDEC1 |
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| 0.278249678 | 0.100436809 | 0.193 | 1 | 55188 | RIC8B |
| 0.277992278 | 0.100761639 | 0.179 | 1 | 35 | ACADS |
| 0.277992278 | 0.100761639 | 0.203 | 1 | 4013 | VWA5A |
| 0.277992278 | 0.100761639 | 0.192 | 1 | 6778 | STAT6 |
| 0.277734878 | 0.101087276 | 0.193 | 1 | 4437 | MSH3 |
| 0.277734878 | 0.101087276 | 0.192 | 1 | 5930 | RBBP6 |
| 0.277734878 | 0.101087276 | 0.213 | 1 | 9228 | DLGAP2 |
| 0.277734878 | 0.101087276 | 0.184 | 1 | 10175 | CNIH |
| 0.277734878 | 0.101087276 | 0.215 | 1 | 266743 | NPAS4 |
| 0.277477477 | 0.101413723 | 0.172 | 1 | 28959 | TMEM176B |
| 0.277477477 | 0.101413723 | 0.164 | 1 | 91862 | MARVELD3 |
| 0.277477477 | 0.101413723 | 0.173 | 1 | 201158 | FAM18B2 |
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| 0.201198865 | 1.20235E-77 | 25893 | TRIM58 |
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| 0.200868554 | 2.1567E-77 | 374928 | ZNF773 |
| 0.200848776 | 2.23341E-77 | 84648 | LCE3D |
| 0.200790949 | 2.47368E-77 | 339834 | CCDC36 |
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| 0.200496054 | 4.16313E-77 | 127665 | ZNF648 |
| 0.200477759 | 4.29965E-77 | 81616 | ACSBG2 |
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| 0.200278931 | 6.10442E-77 | 7088 | TLE1 |
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| 0.199535095 | 2.25755E-76 | 390598 | SKOR1 |
| 0.199470856 | 2.52688E-76 | 2928 | GSC2 |
| 0.199279126 | 3.53647E-76 | 64743 | WDR13 |
| 0.199243876 | 3.76178E-76 | 7142 | TNP2 |
| 0.199233905 | 3.82807E-76 | 9677 | HISPPD2A |
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| 0.198951169 | 6.27957E-76 | 5599 | MAPK8 |
| 0.198826924 | 7.8034E-76 | 9905 | SGSM2 |
| 0.198748361 | 8.95184E-76 | 83729 | INHBE |
| 0.198695989 | 9.80954E-76 | 2199 | FBLN2 |
| 0.198665052 | 1.03542E-75 | 3149 | HMGB3 |
| 0.198660702 | 1.04332E-75 | 51693 | TRAPPC2L |
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| 0.198472081 | 1.45013E-75 | 146547 | PRSS36 |
| 0.198203861 | 2.31467E-75 | 340508 | RP11-520B13.4 |
| 0.198202406 | 2.32055E-75 | 84662 | GLIS2 |
| 0.198178478 | 2.41932E-75 | 442361 | OR2A2 |
| 0.198051755 | 3.01666E-75 | 11214 | AKAP13 |
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| 0.197806736 | 4.61988E-75 | 5600 | MAPK11 |
| 0.197749356 | 5.10439E-75 | 6401 | SELE |
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| 0.197684559 | 5.71268E-75 | 10221 | TRIB1 |
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| 0.197291819 | 1.12936E-74 | 159090 | FAM122B |
| 0.197182847 | 1.36411E-74 | 112476 | PRRT2 |
| 0.196974995 | 1.95501E-74 | 140890 | SFRS12 |
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| 0.196849287 | 2.42993E-74 | 55653 | BCAS4 |
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| 0.196331693 | 5.93991E-74 | 50488 | MINK1 |
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| 0.195419653 | 2.85181E-73 | 6623 | SNCG |
| 0.195373576 | 3.0864E-73 | 7453 | WARS |
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| 0.277220077 | 0.101740979 | 0.205 | 1 | 92552 | ATXN3L |
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| 0.276962677 | 0.102069047 | 0.16 | 1 | 728698 | EIF4A1P4 |
| 0.276447876 | 0.102727621 | 0.181 | 1 | 268 | AMH |
| 0.276447876 | 0.102727621 | 0.208 | 1 | 145200 | LINC00239 |
| 0.276447876 | 0.102727621 | 0.171 | 1 | 219479 | OR5R1 |
| 0.276447876 | 0.102727621 | 0.183 | 1 | 285521 | COX18 |
| 0.276447876 | 0.102727621 | 0.195 | 1 | 374655 | ZNF710 |
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| 0.276190476 | 0.103058129 | 0.177 | 1 | 896 | CCND3 |
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| 0.275933076 | 0.103389453 | 0.174 | 1 | 8330 | HIST1H2AK |
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| 0.275933076 | 0.103389453 | 0.206 | 1 | 387914 | TMEM46 |
| 0.275675676 | 0.103721595 | 0.195 | 1 | 9274 | BCL7C |
| 0.275675676 | 0.103721595 | 0.157 | 1 | 84705 | GTPBP3 |
| 0.275675676 | 0.103721595 | 0.183 | 1 | 125875 | CLDND2 |
| 0.275418275 | 0.104054554 | 0.184 | 1 | 2079 | ERH |
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| 0.275418275 | 0.104054554 | 0.171 | 1 | 163050 | ZNF564 |
| 0.275160875 | 0.104388333 | 0.207 | 1 | 2919 | CXCL1 |
| 0.275160875 | 0.104388333 | 0.191 | 1 | 56666 | PANX2 |
| 0.275160875 | 0.104388333 | 0.184 | 1 | 135892 | TRIM50 |
| 0.274903475 | 0.104722932 | 0.205 | 1 | 5657 | PRTN3 |
| 0.274903475 | 0.104722932 | 0.214 | 1 | 8809 | IL18R1 |
| 0.274903475 | 0.104722932 | 0.205 | 1 | 220323 | OAF |
| 0.274646075 | 0.105058353 | 0.184 | 1 | 2888 | GRB14 |
| 0.274646075 | 0.105058353 | 0.199 | 1 | 9673 | SLC25A44 |
| 0.274646075 | 0.105058353 | 0.168 | 1 | 79053 | ALG8 |
| 0.274646075 | 0.105058353 | 0.19 | 1 | 84269 | CHCHD5 |
| 0.274646075 | 0.105058353 | 0.186 | 1 | 84549 | MAK16 |
| 0.274646075 | 0.105058353 | 0.192 | 1 | 145853 | C15orf61 |
| 0.274388674 | 0.105394597 | 0.183 | 1 | 23113 | CUL9 |
| 0.274131274 | 0.105731664 | 0.175 | 1 | 49 | ACR |
| 0.274131274 | 0.105731664 | 0.18 | 1 | 6166 | RPL36AL |
| 0.274131274 | 0.105731664 | 0.182 | 1 | 79572 | ATP13A3 |
| 0.274131274 | 0.105731664 | 0.185 | 1 | 353355 | ZNF233 |
| 0.273873874 | 0.106069557 | 0.196 | 1 | 5624 | PROC |
| 0.273873874 | 0.106069557 | 0.199 | 1 | 155054 | ZNF425 |
| 0.273616474 | 0.106408276 | 0.223 | 1 | 10944 | C11orf58 |
| 0.273616474 | 0.106408276 | 0.187 | 1 | 126859 | C1orf125 |
| 0.273359073 | 0.106747822 | 0.169 | 1 | 283578 | TMED8 |
| 0.273101673 | 0.107088197 | 0.184 | 1 | 9611 | NCOR1 |
| 0.273101673 | 0.107088197 | 0.191 | 1 | 10066 | SCAMP2 |
| 0.273101673 | 0.107088197 | 0.197 | 1 | 51633 | OTUD6B |
| 0.273101673 | 0.107088197 | 0.159 | 1 | 84678 | KDM2B |
| 0.273101673 | 0.107088197 | 0.209 | 1 | 400745 | SH2D5 |
| 0.272844273 | 0.107429401 | 0.168 | 1 | 7565 | ZNF17 |
| 0.272844273 | 0.107429401 | 0.191 | 1 | 54892 | NCAPG2 |
| 0.272844273 | 0.107429401 | 0.201 | 1 | 653247 | PRB2 |
| 0.272586873 | 0.107771437 | 0.238 | 1 | 3623 | INHA |
| 0.272586873 | 0.107771437 | 0.182 | 1 | 4693 | NDP |
| 0.272586873 | 0.107771437 | 0.186 | 1 | 11215 | AKAP11 |
| 0.272586873 | 0.107771437 | 0.206 | 1 | 80318 | GKAP1 |
| 0.272329472 | 0.108114304 | 0.194 | 1 | 9620 | CELSR1 |
| 0.272329472 | 0.108114304 | 0.18 | 1 | 11212 | PROSC |
| 0.272329472 | 0.108114304 | 0.206 | 1 | 55028 | C17orf80 |
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| 0.272329472 | 0.108114304 | 0.198 | 1 | 284802 | FRG1B |
| 0.272329472 | 0.108114304 | 0.178 | 1 | 730098 | RP11-195F19.5 |
| 0.272072072 | 0.108458005 | 0.181 | 1 | 3589 | IL11 |
| 0.272072072 | 0.108458005 | 0.209 | 1 | 51324 | SPG21 |
| 0.271814672 | 0.108802539 | 0.179 | 1 | 1936 | EEF1D |
| 0.271814672 | 0.108802539 | 0.195 | 1 | 2018 | EMX2 |
| 0.271814672 | 0.108802539 | 0.188 | 1 | 6637 | SNRPG |
| 0.271814672 | 0.108802539 | 0.215 | 1 | 55785 | FGD6 |
| 0.271814672 | 0.108802539 | 0.191 | 1 | 348995 | NUP43 |
| 0.271557272 | 0.109147909 | 0.185 | 1 | 1407 | CRY1 |
| 0.271557272 | 0.109147909 | 0.198 | 1 | 6901 | TAZ |
| 0.271557272 | 0.109147909 | 0.201 | 1 | 10766 | TOB2 |
| 0.271557272 | 0.109147909 | 0.231 | 1 | 22997 | RP11-259P6.1 |
| 0.271557272 | 0.109147909 | 0.209 | 1 | 51057 | C2orf86 |
| 0.271299871 | 0.109494116 | 0.182 | 1 | 1007 | CDH9 |
| 0.271299871 | 0.109494116 | 0.176 | 1 | 5800 | PTPRO |
| 0.270527671 | 0.110537766 | 0.202 | 1 | 23492 | CBX7 |
| 0.270527671 | 0.110537766 | 0.197 | 1 | 129521 | NMS |
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| 0.194450995 | 1.49634E-72 | 63941 | NECAB3 |
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| 0.19275909 | 2.6501E-71 | 431705 | ASTL |
| 0.192641882 | 3.23073E-71 | 51592 | TRIM33 |
| 0.19263898 | 3.24661E-71 | 22899 | ARHGEF15 |
| 0.192445202 | 4.50353E-71 | 85352 | KIAA1644 |
| 0.192325503 | 5.51147E-71 | 8497 | PPFIA4 |
| 0.192318408 | 5.57782E-71 | 7884 | SLBP |
| 0.192200967 | 6.7993E-71 | 646892 | SH2D7 |
| 0.192060268 | 8.61829E-71 | 6688 | SPI1 |
| 0.192052774 | 8.72774E-71 | 64407 | RGS18 |
| 0.191944245 | 1.04776E-70 | 84225 | ZMYND15 |
| 0.191912737 | 1.10482E-70 | 84622 | ZNF594 |
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| 0.191527013 | 2.11299E-70 | 55669 | MFN1 |
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| 0.264864865 | 0.118424458 | 0.214 | 1 | 8999 | CDKL2 |
| 0.264864865 | 0.118424458 | 0.184 | 1 | 219621 | C10orf107 |
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| 0.186108129 | 1.64878E-66 | 128977 | C22orf39 |
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| 0.264350064 | 0.119162028 | 0.224 | 1 | 5909 | RAP1GAP |
| 0.264350064 | 0.119162028 | 0.169 | 1 | 10772 | FUSIP1 |
| 0.264350064 | 0.119162028 | 0.212 | 1 | 84897 | TBRG1 |
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| 0.262290862 | 0.122147112 | 0.198 | 1 | 51275 | C12ORF47 |
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| 0.178416956 | 3.44887E-61 | 117579 | RLN3 |
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| 0.255855856 | 0.131839616 | 0.224 | 1 | 148645 | LINC00337 |
| 0.255598456 | 0.132238949 | 0.236 | 1 | 1974 | EIF4A2 |
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| 0.251994852 | 0.137925029 | 0.248 | 1 | 161003 | STOML3 |
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| 0.251737452 | 0.138338034 | 0.212 | 1 | 6720 | SREBF1 |
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| 0.251222651 | 0.139166805 | 0.209 | 1 | 23095 | KIF1B |
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| 0.25019305 | 0.140835416 | 0.239 | 1 | 51108 | METTL9 |
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| 0.247876448 | 0.144644043 | 0.25 | 1 | 646050 | LOC646050 |
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| 0.247361647 | 0.14550066 | 0.23 | 1 | 339483 | MTMR9LP |
| 0.247361647 | 0.14550066 | 0.237 | 1 | 399726 | C10orf114 |
| 0.247361647 | 0.14550066 | 0.227 | 1 | 100131564 | LOC100131564 |
| 0.247104247 | 0.145930373 | 0.239 | 1 | 5716 | PSMD10 |
| 0.247104247 | 0.145930373 | 0.224 | 1 | 9555 | H2AFY |
| 0.247104247 | 0.145930373 | 0.245 | 1 | 27086 | FOXP1 |
| 0.247104247 | 0.145930373 | 0.241 | 1 | 51742 | ARID4B |
| 0.247104247 | 0.145930373 | 0.234 | 1 | 642929 | LOC642929 |
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| 0.246846847 | 0.146361024 | 0.257 | 1 | 29116 | MYLIP |
| 0.246589447 | 0.146792613 | 0.255 | 1 | 56979 | PRDM9 |
| 0.246589447 | 0.146792613 | 0.227 | 1 | 645832 | SEBOX |
| 0.246332046 | 0.147225141 | 0.252 | 1 | 4091 | SMAD6 |
| 0.246332046 | 0.147225141 | 0.231 | 1 | 6132 | RPL8 |
| 0.246332046 | 0.147225141 | 0.227 | 1 | 29774 | POM121L9P |
| 0.246332046 | 0.147225141 | 0.23 | 1 | 54900 | LAX1 |
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| 0.246074646 | 0.147658611 | 0.253 | 1 | 23440 | OTP |
| 0.246074646 | 0.147658611 | 0.265 | 1 | 27147 | DENND2A |
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| 0.173394092 | 7.65776E-58 | 197187 | MGC23284 |
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| 0.173061004 | 1.26606E-57 | 84216 | TMEM117 |
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| 0.173035133 | 1.31642E-57 | 84443 | FRMPD3 |
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| 0.172893787 | 1.62893E-57 | 147 | ADRA1B |
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| 0.17282568 | 1.80489E-57 | 146861 | AMAC1 |
| 0.172735684 | 2.06674E-57 | 10009 | ZBTB33 |
| 0.172507854 | 2.91129E-57 | 2060 | EPS15 |
| 0.172506084 | 2.91904E-57 | 7538 | ZFP36 |
| 0.172433795 | 3.25394E-57 | 4705 | NDUFA10 |
| 0.172342705 | 3.73094E-57 | 5163 | PDK1 |
| 0.172201461 | 4.6118E-57 | 9704 | DHX34 |
| 0.172138562 | 5.06801E-57 | 59067 | IL21 |
| 0.172001878 | 6.22026E-57 | 55039 | TRMT12 |
| 0.171986913 | 6.36129E-57 | 140290 | TCP10L |
| 0.171976827 | 6.45813E-57 | 84435 | GPR123 |
| 0.171976013 | 6.466E-57 | 1611 | DAP |
| 0.17195852 | 6.63766E-57 | 26010 | SPATS2L |
| 0.171935455 | 6.87096E-57 | 284600 | RP11-54O7.1 |
| 0.171929022 | 6.93748E-57 | 55789 | DEPDC1B |
| 0.17179792 | 8.44172E-57 | 5889 | RAD51C |
| 0.171770081 | 8.80076E-57 | 6398 | SECTM1 |
| 0.171717671 | 9.51846E-57 | 1800 | DPEP1 |
| 0.171577292 | 1.1741E-56 | 8805 | TRIM24 |
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| 0.171561235 | 1.20261E-56 | 57156 | TMEM63C |
| 0.171517674 | 1.28348E-56 | 3868 | KRT16 |
| 0.171494465 | 1.32875E-56 | 29887 | SNX10 |
| 0.171460678 | 1.39752E-56 | 81696 | OR5V1 |
| 0.171401264 | 1.52714E-56 | 64595 | TTTY15 |
| 0.171349878 | 1.64887E-56 | 9128 | PRPF4 |
| 0.171285522 | 1.81503E-56 | 338094 | FAM151A |
| 0.17119578 | 2.07492E-56 | 92335 | STRADA |
| 0.171189889 | 2.09322E-56 | 25849 | AC110760.2 |
| 0.170796935 | 3.75762E-56 | 733 | C8G |
| 0.170781627 | 3.84414E-56 | 9755 | TBKBP1 |
| 0.170654605 | 4.64299E-56 | 4113 | MAGEB2 |
| 0.170623205 | 4.86472E-56 | 7296 | TXNRD1 |
| 0.170289421 | 7.98327E-56 | 442038 | SULT1C3 |
| 0.170170292 | 9.52471E-56 | 80772 | GLTPD1 |
| 0.170062034 | 1.11809E-55 | 84285 | EIF1AD |
| 0.169960382 | 1.29961E-55 | 3054 | HCFC1 |
| 0.169881901 | 1.45957E-55 | 57410 | SCYL1 |
| 0.169792867 | 1.6649E-55 | 404266 | RP11-357H14.1 |
| 0.16977321 | 1.71398E-55 | 9495 | AKAP5 |
| 0.169769545 | 1.72329E-55 | 254973 | OR1L4 |
| 0.169631839 | 2.11201E-55 | 80737 | C6orf27 |
| 0.169527986 | 2.46187E-55 | 196047 | EMX2OS |
| 0.169404956 | 2.95172E-55 | 148266 | ZNF569 |
| 0.169283035 | 3.53276E-55 | 140775 | SMCR8 |
| 0.169232603 | 3.80519E-55 | 92104 | TTC30A |
| 0.169188352 | 4.06141E-55 | 64582 | GPR135 |
| 0.169174851 | 4.14296E-55 | 26149 | ZNF658 |
| 0.169053931 | 4.94992E-55 | 9149 | DYRK1B |
| 0.168997709 | 5.37667E-55 | 3008 | HIST1H1E |
| 0.168731913 | 7.9458E-55 | 152065 | C3orf22 |
| 0.168692872 | 8.4145E-55 | 163589 | TDRD5 |
| 0.168671199 | 8.68649E-55 | 55142 | HAUS2 |
| 0.168441767 | 1.21613E-54 | 121364 | OR10A7 |
| 0.168269989 | 1.56408E-54 | 219982 | OR5A1 |
| 0.168000865 | 2.31861E-54 | 1848 | DUSP6 |
| 0.167981812 | 2.38408E-54 | 51016 | FAM158A |
| 0.167976703 | 2.40194E-54 | 7727 | ZNF174 |
| 0.167888031 | 2.73415E-54 | 440799 | P2RX6P |
| 0.16783522 | 2.95335E-54 | 7761 | ZNF214 |
| 0.167748329 | 3.35271E-54 | 341568 | OR8S1 |
| 0.167725522 | 3.46616E-54 | 6817 | SULT1A1 |
| 0.167615209 | 4.07123E-54 | 10252 | SPRY1 |
| 0.167591938 | 4.21172E-54 | 389856 | USP27X |
| 0.167459357 | 5.10935E-54 | 2354 | FOSB |
| 0.167438249 | 5.26887E-54 | 23101 | MCF2L2 |
| 0.167436199 | 5.28462E-54 | 114800 | CCDC85A |
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| 0.167140919 | 8.12096E-54 | 1072 | CFL1 |

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| 0.245817246 | 0.148093021 | 0.229 | 1 | 4297 | MLL |
| 0.245817246 | 0.148093021 | 0.274 | 1 | 8653 | DDX3Y |
| 0.245817246 | 0.148093021 | 0.264 | 1 | 11146 | GLMN |
| 0.245817246 | 0.148093021 | 0.254 | 1 | 64318 | NOC3L |
| 0.245817246 | 0.148093021 | 0.226 | 1 | 84279 | C2orf7 |
| 0.245817246 | 0.148093021 | 0.24 | 1 | 253152 | EPHX4 |
| 0.245559846 | 0.148528374 | 0.25 | 1 | 3107 | HLA-C |
| 0.245559846 | 0.148528374 | 0.231 | 1 | 474381 | H2AFB2 |
| 0.245559846 | 0.148528374 | 0.248 | 1 | 728591 | C13orf38 |
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| 0.245302445 | 0.148964671 | 0.239 | 1 | 5991 | RFX3 |
| 0.245302445 | 0.148964671 | 0.224 | 1 | 10625 | IVNS1ABP |
| 0.245302445 | 0.148964671 | 0.244 | 1 | 81550 | TDRD3 |
| 0.245302445 | 0.148964671 | 0.235 | 1 | 646799 | ZAR1L |
| 0.245045045 | 0.149401911 | 0.23 | 1 | 4738 | NEDD8 |
| 0.245045045 | 0.149401911 | 0.214 | 1 | 54799 | MBTD1 |
| 0.245045045 | 0.149401911 | 0.274 | 1 | 56673 | C11orf16 |
| 0.244787645 | 0.149840097 | 0.231 | 1 | 7552 | ZNF711 |
| 0.244787645 | 0.149840097 | 0.236 | 1 | 8293 | SERF1A |
| 0.244787645 | 0.149840097 | 0.235 | 1 | 8399 | PLA2G10 |
| 0.244787645 | 0.149840097 | 0.236 | 1 | 9947 | MAGEC1 |
| 0.244787645 | 0.149840097 | 0.206 | 1 | 84928 | TMEM209 |
| 0.244787645 | 0.149840097 | 0.262 | 1 | 401720 | FIGNL2 |
| 0.244530245 | 0.150279229 | 0.244 | 1 | 1108 | CHD4 |
| 0.244272844 | 0.150719309 | 0.261 | 1 | 9837 | GINS1 |
| 0.244272844 | 0.150719309 | 0.245 | 1 | 10725 | NFAT5 |
| 0.244272844 | 0.150719309 | 0.253 | 1 | 23732 | FRRS1L |
| 0.244272844 | 0.150719309 | 0.268 | 1 | 55007 | FAM118A |
| 0.244015444 | 0.151160336 | 0.269 | 1 | 3017 | HIST1H2BD |
| 0.244015444 | 0.151160336 | 0.239 | 1 | 5702 | PSMC3 |
| 0.244015444 | 0.151160336 | 0.232 | 1 | 7060 | THBS4 |
| 0.244015444 | 0.151160336 | 0.23 | 1 | 149420 | PDIK1L |
| 0.243758044 | 0.151602313 | 0.266 | 1 | 8522 | GAS7 |
| 0.243758044 | 0.151602313 | 0.262 | 1 | 22807 | IKZF2 |
| 0.243758044 | 0.151602313 | 0.27 | 1 | 26523 | EIF2C1 |
| 0.243758044 | 0.151602313 | 0.209 | 1 | 51027 | BOLA1 |
| 0.243758044 | 0.151602313 | 0.263 | 1 | 51309 | ARMCX1 |
| 0.243758044 | 0.151602313 | 0.257 | 1 | 284131 | AC120024.1 |
| 0.243500644 | 0.15204524 | 0.24 | 1 | 1351 | COX8A |
| 0.243500644 | 0.15204524 | 0.246 | 1 | 2521 | FUS |
| 0.243500644 | 0.15204524 | 0.252 | 1 | 8777 | MPDZ |
| 0.243500644 | 0.15204524 | 0.233 | 1 | 79598 | CEP97 |
| 0.243500644 | 0.15204524 | 0.259 | 1 | 503834 | DPRXP4 |
| 0.243243243 | 0.152489117 | 0.231 | 1 | 25836 | NIPBL |
| 0.243243243 | 0.152489117 | 0.216 | 1 | 153364 | MBLAC2 |
| 0.243243243 | 0.152489117 | 0.239 | 1 | 375775 | PNPLA7 |
| 0.242985843 | 0.152933947 | 0.241 | 1 | 5190 | PEX6 |
| 0.242985843 | 0.152933947 | 0.263 | 1 | 7844 | RNF103 |
| 0.242985843 | 0.152933947 | 0.264 | 1 | 130749 | CPO |
| 0.242985843 | 0.152933947 | 0.237 | 1 | 648262 | LOC648262 |
| 0.242728443 | 0.153379729 | 0.228 | 1 | 257 | ALX3 |
| 0.242728443 | 0.153379729 | 0.22 | 1 | 678 | ZFP36L2 |
| 0.242728443 | 0.153379729 | 0.241 | 1 | 919 | CD247 |
| 0.242728443 | 0.153379729 | 0.262 | 1 | 1770 | DNAH9 |
| 0.242728443 | 0.153379729 | 0.287 | 1 | 2057 | EPOR |
| 0.242728443 | 0.153379729 | 0.271 | 1 | 6801 | STRN |
| 0.242471042 | 0.153826466 | 0.228 | 1 | 7045 | TGFBI |
| 0.242471042 | 0.153826466 | 0.239 | 1 | 11154 | AP4S1 |
| 0.242471042 | 0.153826466 | 0.217 | 1 | 25820 | ARIH1 |
| 0.242471042 | 0.153826466 | 0.245 | 1 | 388962 | BOLA3 |
| 0.241956242 | 0.154722803 | 0.253 | 1 | 54865 | GPATCH4 |
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| 0.241698842 | 0.155172406 | 0.271 | 1 | 2898 | GRIK2 |
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| 0.241441441 | 0.155622967 | 0.278 | 1 | 4624 | MYH6 |
| 0.241441441 | 0.155622967 | 0.25 | 1 | 7080 | NKX2-1 |
| 0.241441441 | 0.155622967 | 0.241 | 1 | 55684 | C9orf86 |
| 0.241441441 | 0.155622967 | 0.218 | 1 | 57597 | BAHCC1 |
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| 0.241184041 | 0.156074486 | 0.273 | 1 | 8408 | ULK1 |
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| 0.240926641 | 0.156526965 | 0.248 | 1 | 374 | AREG |
| 0.240926641 | 0.156526965 | 0.246 | 1 | 6607 | SMN2 |
| 0.240926641 | 0.156526965 | 0.262 | 1 | 9172 | MYOM2 |
| 0.240926641 | 0.156526965 | 0.257 | 1 | 27291 | C10orf28 |
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| 0.240669241 | 0.156980404 | 0.243 | 1 | 203427 | SLC25A43 |
| 0.240669241 | 0.156980404 | 0.269 | 1 | 221044 | UCMA |
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| 0.166876255 | 1.19278E-53 | 90586 | AOC4 |
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| 0.165832717 | 5.39675E-53 | 10384 | BTN3A3 |
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| 0.165697318 | 6.5596E-53 | 136227 | EMID2 |
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| 0.165396712 | 1.01103E-52 | 27287 | VENTX |
| 0.165111395 | 1.52322E-52 | 2018 | EMX2 |
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| 0.164936589 | 1.95731E-52 | 347454 | ANKRD58 |
| 0.164896839 | 2.07208E-52 | 4016 | LOXL1 |
| 0.164889252 | 2.09473E-52 | 79719 | AAGAB |
| 0.164852522 | 2.20794E-52 | 348825 | TPRXL |
| 0.16474267 | 2.58417E-52 | 340665 | CYP26C1 |
| 0.164734324 | 2.61524E-52 | 7252 | TSHB |
| 0.164678882 | 2.83126E-52 | 9338 | TCEAL1 |
| 0.164462128 | 3.86028E-52 | 2901 | GRIK5 |
| 0.164409197 | 4.16361E-52 | 8450 | CUL4B |
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| 0.164174493 | 5.82104E-52 | 29967 | LRP12 |
| 0.164166596 | 5.88699E-52 | 90410 | IFT20 |
| 0.164022484 | 7.23002E-52 | 7879 | RAB7A |
| 0.164009304 | 7.36712E-52 | 442117 | GALNTL6 |
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| 0.16383566 | 9.4344E-52 | 6717 | SRI |
| 0.163739686 | 1.08152E-51 | 26084 | RP11-23D24.1 |
| 0.163732182 | 1.09313E-51 | 5524 | PPP2R4 |
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| 0.163630031 | 1.26405E-51 | 442721 | LMOD2 |
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| 0.163453805 | 1.62372E-51 | 55758 | RCOR3 |
| 0.163327888 | 1.94152E-51 | 112942 | CCDC104 |
| 0.163295569 | 2.03262E-51 | 23142 | DCUN1D4 |
| 0.163258321 | 2.1429E-51 | 56675 | NRIP3 |
| 0.163186623 | 2.37223E-51 | 9278 | ZBTB22 |
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| 0.162193241 | 9.65681E-51 | 23094 | SIPA1L3 |
| 0.162171144 | 9.96211E-51 | 83699 | SH3BGRL2 |
| 0.162023247 | 1.22681E-50 | 4253 | CTAGE5 |
| 0.161919088 | 1.42039E-50 | 26953 | RANBP6 |
| 0.161816176 | 1.64147E-50 | 79050 | NOC4L |
| 0.161795843 | 1.68905E-50 | 6611 | SMS |
| 0.161601296 | 2.21964E-50 | 248 | ALPI |
| 0.161578333 | 2.29233E-50 | 9925 | ZBTB5 |
| 0.161553701 | 2.37293E-50 | 114112 | TXNRD3 |
| 0.16153471 | 2.437E-50 | 150465 | TTL |
| 0.161524115 | 2.47348E-50 | 27189 | IL17C |
| 0.161452272 | 2.73566E-50 | 2021 | ENDOG |
| 0.161379658 | 3.02875E-50 | 6506 | SLC1A2 |
| 0.161356333 | 3.12937E-50 | 162979 | ZNF296 |
| 0.161313703 | 3.32195E-50 | 27111 | SDCBP2 |
| 0.161306335 | 3.35641E-50 | 54943 | DNAJC28 |
| 0.161298365 | 3.39408E-50 | 400720 | ZNF772 |
| 0.1612788 | 3.48837E-50 | 4543 | MTNR1A |
| 0.161230179 | 3.73412E-50 | 283489 | ZNF828 |

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| 0.24041184 | 0.157434803 | 0.241 | 1 | 54625 | PARP14 |
| 0.24041184 | 0.157434803 | 0.217 | 1 | 64108 | RTP4 |
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| 0.24015444 | 0.157890166 | 0.269 | 1 | 400954 | EML6 |
| 0.23989704 | 0.158346491 | 0.242 | 1 | 64805 | P2RY12 |
| 0.23989704 | 0.158346491 | 0.269 | 1 | 79948 | AC006273.1 |
| 0.23963964 | 0.15880378 | 0.25 | 1 | 191 | AHCY |
| 0.23963964 | 0.15880378 | 0.258 | 1 | 5100 | PCDH8 |
| 0.23963964 | 0.15880378 | 0.24 | 1 | 29083 | GTPBP8 |
| 0.23963964 | 0.15880378 | 0.242 | 1 | 79003 | MIS12 |
| 0.239382239 | 0.159262033 | 0.253 | 1 | 5933 | RBL1 |
| 0.239382239 | 0.159262033 | 0.257 | 1 | 8237 | USP11 |
| 0.239382239 | 0.159262033 | 0.244 | 1 | 65243 | ZNF643 |
| 0.239124839 | 0.159721253 | 0.239 | 1 | 2547 | XRCC6 |
| 0.239124839 | 0.159721253 | 0.261 | 1 | 6920 | TCEA3 |
| 0.239124839 | 0.159721253 | 0.273 | 1 | 8555 | CDC14B |
| 0.239124839 | 0.159721253 | 0.259 | 1 | 55729 | ATF7IP |
| 0.238867439 | 0.160181439 | 0.236 | 1 | 7855 | FZD5 |
| 0.238867439 | 0.160181439 | 0.234 | 1 | 51138 | COPS4 |
| 0.238867439 | 0.160181439 | 0.278 | 1 | 374899 | ZNF829 |
| 0.238610039 | 0.160642593 | 0.279 | 1 | 9790 | BMS1 |
| 0.238610039 | 0.160642593 | 0.245 | 1 | 51004 | COQ6 |
| 0.238610039 | 0.160642593 | 0.24 | 1 | 64411 | ARAP3 |
| 0.238352638 | 0.161104715 | 0.247 | 1 | 8992 | ATP6V0E1 |
| 0.238352638 | 0.161104715 | 0.261 | 1 | 10952 | SEC61B |
| 0.238352638 | 0.161104715 | 0.25 | 1 | 51752 | ERAP1 |
| 0.238095238 | 0.161567806 | 0.28 | 1 | 33 | ACADL |
| 0.238095238 | 0.161567806 | 0.245 | 1 | 1350 | COX7C |
| 0.238095238 | 0.161567806 | 0.28 | 1 | 5066 | PAM |
| 0.238095238 | 0.161567806 | 0.292 | 1 | 8676 | STX11 |
| 0.238095238 | 0.161567806 | 0.282 | 1 | 11142 | PKIG |
| 0.238095238 | 0.161567806 | 0.233 | 1 | 51025 | AC009171.1 |
| 0.238095238 | 0.161567806 | 0.243 | 1 | 54627 | KIAA1383 |
| 0.238095238 | 0.161567806 | 0.287 | 1 | 84246 | MED10 |
| 0.238095238 | 0.161567806 | 0.244 | 1 | 388969 | C2orf68 |
| 0.238095238 | 0.161567806 | 0.261 | 1 | 493861 | EID3 |
| 0.237837838 | 0.162031868 | 0.256 | 1 | 4958 | OMD |
| 0.237837838 | 0.162031868 | 0.253 | 1 | 26234 | FBXL5 |
| 0.237837838 | 0.162031868 | 0.285 | 1 | 121053 | C12orf45 |
| 0.237580438 | 0.162496901 | 0.248 | 1 | 340543 | TCEAL5 |
| 0.237323037 | 0.162962905 | 0.268 | 1 | 100125288 | AC011511.1 |
| 0.237065637 | 0.163429883 | 0.256 | 1 | 8832 | CD84 |
| 0.237065637 | 0.163429883 | 0.235 | 1 | 55636 | CHD7 |
| 0.237065637 | 0.163429883 | 0.268 | 1 | 261734 | NPHP4 |
| 0.236808237 | 0.163897834 | 0.265 | 1 | 4352 | MPL |
| 0.236550837 | 0.16436676 | 0.288 | 1 | 4062 | LY6H |
| 0.236550837 | 0.16436676 | 0.259 | 1 | 56341 | PRMT8 |
| 0.236293436 | 0.164836662 | 0.288 | 1 | 3269 | HRH1 |
| 0.236293436 | 0.164836662 | 0.257 | 1 | 51246 | SHISA5 |
| 0.236293436 | 0.164836662 | 0.26 | 1 | 60489 | APOBEC3G |
| 0.236293436 | 0.164836662 | 0.276 | 1 | 150291 | MORC2-AS1 |
| 0.236293436 | 0.164836662 | 0.261 | 1 | 266977 | GPR110 |
| 0.236036036 | 0.165307539 | 0.24 | 1 | 3455 | IFNAR2 |
| 0.236036036 | 0.165307539 | 0.262 | 1 | 7019 | TFAM |
| 0.236036036 | 0.165307539 | 0.255 | 1 | 56896 | DPYSL5 |
| 0.235778636 | 0.165779394 | 0.254 | 1 | 475 | ATOX1 |
| 0.235778636 | 0.165779394 | 0.271 | 1 | 1315 | COPB1 |
| 0.235778636 | 0.165779394 | 0.26 | 1 | 8030 | CCDC6 |
| 0.235778636 | 0.165779394 | 0.26 | 1 | 11177 | BAZ1A |
| 0.235778636 | 0.165779394 | 0.236 | 1 | 26175 | C14orf109 |
| 0.235778636 | 0.165779394 | 0.284 | 1 | 55103 | RALGPS2 |
| 0.235778636 | 0.165779394 | 0.254 | 1 | 85291 | KRTAP4-2 |
| 0.235778636 | 0.165779394 | 0.256 | 1 | 150776 | AC093838.4 |
| 0.235778636 | 0.165779394 | 0.262 | 1 | 349152 | DPY19L2P2 |
| 0.235521236 | 0.166252228 | 0.257 | 1 | 10184 | LHFPL2 |
| 0.235521236 | 0.166252228 | 0.222 | 1 | 54974 | THG1L |
| 0.235521236 | 0.166252228 | 0.244 | 1 | 55015 | PRPF39 |
| 0.235521236 | 0.166252228 | 0.263 | 1 | 57619 | SHROOM3 |
| 0.235521236 | 0.166252228 | 0.273 | 1 | 81610 | FAM83D |
| 0.235521236 | 0.166252228 | 0.256 | 1 | 114757 | CYGB |
| 0.235521236 | 0.166252228 | 0.266 | 1 | 221143 | N6AMT2 |
| 0.235263835 | 0.16672604 | 0.225 | 1 | 3042 | HBM |
| 0.235263835 | 0.16672604 | 0.257 | 1 | 5936 | RBM4 |
| 0.235263835 | 0.16672604 | 0.254 | 1 | 6400 | SEL1L |
| 0.235263835 | 0.16672604 | 0.236 | 1 | 84645 | C22orf23 |
| 0.235263835 | 0.16672604 | 0.27 | 1 | 157657 | C8orf37 |
| 0.235006435 | 0.167200832 | 0.263 | 1 | 1660 | DHX9 |
| 0.234749035 | 0.167676604 | 0.266 | 1 | 56987 | BBX |
| 0.234749035 | 0.167676604 | 0.236 | 1 | 80196 | RNF34 |
| 0.234749035 | 0.167676604 | 0.257 | 1 | 162962 | ZNF836 |
| 0.234749035 | 0.167676604 | 0.275 | 1 | 199920 | C1orf168 |
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| 0.161168013 | 4.07358E-50 | 218 | ALDH3A1 |
| 0.161014657 | 5.04813E-50 | 5806 | PTX3 |
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| 0.160852522 | 6.33165E-50 | 138307 | LCN8 |
| 0.160832296 | 6.51303E-50 | 3202 | HOXA5 |
| 0.160820319 | 6.62286E-50 | 84439 | HHIPL1 |
| 0.160785714 | 6.95067E-50 | 23300 | ATMIN |
| 0.160697284 | 7.86359E-50 | 84128 | WDR75 |
| 0.160672595 | 8.13913E-50 | 4128 | MAOA |
| 0.160581847 | 9.23712E-50 | 728056 | LOC728056 |
| 0.16035686 | 1.26372E-49 | 10924 | SMPDL3A |
| 0.160221804 | 1.52497E-49 | 340351 | AGBL3 |
| 0.160185116 | 1.6048E-49 | 23270 | TSPYL5 |
| 0.160156924 | 1.66895E-49 | 7265 | TTC1 |
| 0.160115656 | 1.76749E-49 | 2960 | GTF2E1 |
| 0.159919308 | 2.32164E-49 | 1416 | CRYBB2P1 |
| 0.159887886 | 2.42513E-49 | 6505 | SLC1A1 |
| 0.159795741 | 2.75584E-49 | 55315 | SLC29A3 |
| 0.159795541 | 2.75661E-49 | 10907 | TXNL4A |
| 0.159687137 | 3.20367E-49 | 93210 | PGAP3 |
| 0.159630537 | 3.46505E-49 | 7587 | ZNF37A |
| 0.159591318 | 3.65851E-49 | 6709 | SPTAN1 |
| 0.159501333 | 4.14398E-49 | 91749 | KIAA1919 |
| 0.159500797 | 4.14706E-49 | 347741 | OTOP3 |
| 0.159120185 | 7.01894E-49 | 343263 | MYBPHL |
| 0.15906201 | 7.60591E-49 | 5929 | RBBP5 |
| 0.159060432 | 7.62249E-49 | 779 | CACNA1S |
| 0.158829987 | 1.04745E-48 | 79078 | C1orf50 |
| 0.158798257 | 1.09426E-48 | 25837 | RAB26 |
| 0.158782518 | 1.11825E-48 | 9223 | MAGI1 |
| 0.158530989 | 1.58096E-48 | 65977 | PLEKHA3 |
| 0.15847234 | 1.71375E-48 | 222826 | C6orf146 |
| 0.158425697 | 1.82725E-48 | 57198 | ATP8B2 |
| 0.158349766 | 2.02821E-48 | 54888 | NSUN2 |
| 0.158302452 | 2.16441E-48 | 2290 | FOXG1B |
| 0.158293757 | 2.19041E-48 | 54857 | GDPD2 |
| 0.158249531 | 2.32755E-48 | 729830 | FAM160A1 |
| 0.158129062 | 2.74601E-48 | 575 | BAI1 |
| 0.158062433 | 3.00878E-48 | 9340 | GLP2R |
| 0.157983122 | 3.35436E-48 | 722 | C4BPA |
| 0.157856859 | 3.98779E-48 | 440153 | OR11H12 |
| 0.15782033 | 4.19232E-48 | 55586 | MIOX |
| 0.157782107 | 4.41751E-48 | 283871 | PGP |
| 0.157781617 | 4.42048E-48 | 100287482 | RP11-305M3.3 |
| 0.157779004 | 4.43632E-48 | 2978 | GUCA1A |
| 0.157714708 | 4.84432E-48 | 51725 | FBXO40 |
| 0.157654199 | 5.26233E-48 | 100131315 | LOC100131315 |
| 0.157500772 | 6.49017E-48 | 9929 | JOSD1 |
| 0.157438956 | 7.06197E-48 | 6288 | SAA1 |
| 0.157333794 | 8.15218E-48 | 220115 | TPTE2P3 |
| 0.157219341 | 9.52973E-48 | 22990 | PCNX |
| 0.157157268 | 1.03713E-47 | 51750 | RTEL1 |
| 0.157090267 | 1.13629E-47 | 56829 | ZC3HAV1 |
| 0.157067158 | 1.17263E-47 | 26999 | CYFIP2 |
| 0.157052864 | 1.19569E-47 | 54798 | DCHS2 |
| 0.156998665 | 1.28728E-47 | 5883 | RAD9A |
| 0.156985978 | 1.30971E-47 | 10131 | TRAP1 |
| 0.15691121 | 1.45003E-47 | 2175 | FANCA |
| 0.156840815 | 1.59577E-47 | 4776 | NFATC4 |
| 0.156744937 | 1.81799E-47 | 9218 | VAPA |
| 0.15674417 | 1.81989E-47 | 51222 | ZNF219 |
| 0.1567344 | 1.84422E-47 | 6590 | SLPI |
| 0.15653028 | 2.43347E-47 | 55071 | C9orf40 |
| 0.156514874 | 2.48489E-47 | 90956 | ADCK2 |
| 0.156507929 | 2.50843E-47 | 3706 | ITPKA |
| 0.156471093 | 2.63701E-47 | 7090 | TLE3 |
| 0.156427444 | 2.79788E-47 | 349565 | NMNAT3 |
| 0.156249145 | 3.56291E-47 | 65260 | SELRC1 |
| 0.156205445 | 3.78021E-47 | 26166 | RGS22 |
| 0.156172711 | 3.95156E-47 | 54905 | CYP2W1 |
| 0.156101771 | 4.34991E-47 | 755 | C21orf2 |
| 0.156081876 | 4.46863E-47 | 84542 | KIAA1841 |
| 0.155965962 | 5.22731E-47 | 22902 | RUFY3 |
| 0.15596229 | 5.25333E-47 | 27133 | KCNH5 |
| 0.155924837 | 5.52621E-47 | 28988 | DBNL |
| 0.155914919 | 5.60081E-47 | 22823 | MTF2 |
| 0.155798301 | 6.55679E-47 | 647288 | CTAGE11P |
| 0.155789719 | 6.63324E-47 | 4794 | NFKBIE |
| 0.155725863 | 7.23064E-47 | 5244 | ABCB4 |
| 0.15569983 | 7.48929E-47 | 64220 | STRA6 |
| 0.155662342 | 7.878E-47 | 23615 | PYY2 |
| 0.155649301 | 8.01787E-47 | 121355 | GTSF1 |

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| 0.234491634 | 0.168153358 | 0.275 | 1 | 9641 | IKBKE |
| 0.234491634 | 0.168153358 | 0.266 | 1 | 391192 | OR2L3 |
| 0.234491634 | 0.168153358 | 0.226 | 1 | 100126793 | GHRLOS |
| 0.234234234 | 0.168631095 | 0.282 | 1 | 7745 | ZNF192 |
| 0.234234234 | 0.168631095 | 0.269 | 1 | 53371 | NUP54 |
| 0.234234234 | 0.168631095 | 0.3 | 1 | 221656 | AOF1 |
| 0.233976834 | 0.169109815 | 0.251 | 1 | 6610 | SMPD2 |
| 0.233976834 | 0.169109815 | 0.252 | 1 | 9990 | SLC12A6 |
| 0.233976834 | 0.169109815 | 0.27 | 1 | 150379 | PNPLA5 |
| 0.233976834 | 0.169109815 | 0.249 | 1 | 344387 | CDKL4 |
| 0.233719434 | 0.169589519 | 0.272 | 1 | 87 | ACTN1 |
| 0.233719434 | 0.169589519 | 0.275 | 1 | 9446 | GSTO1 |
| 0.233462033 | 0.170070207 | 0.256 | 1 | 10693 | CCT6B |
| 0.233462033 | 0.170070207 | 0.276 | 1 | 25870 | SUMF2 |
| 0.233462033 | 0.170070207 | 0.257 | 1 | 51061 | TXNDC11 |
| 0.233462033 | 0.170070207 | 0.267 | 1 | 284988 | RHOQP3 |
| 0.233462033 | 0.170070207 | 0.268 | 1 | 388533 | KRTDAP |
| 0.233204633 | 0.170551882 | 0.25 | 1 | 4926 | NUMA1 |
| 0.232947233 | 0.171034543 | 0.259 | 1 | 3490 | IGFBP7 |
| 0.232947233 | 0.171034543 | 0.265 | 1 | 11214 | AKAP13 |
| 0.232947233 | 0.171034543 | 0.296 | 1 | 79954 | NOL10 |
| 0.232947233 | 0.171034543 | 0.281 | 1 | 201229 | C17orf108 |
| 0.232689833 | 0.171518192 | 0.255 | 1 | 9538 | EI24 |
| 0.232689833 | 0.171518192 | 0.235 | 1 | 84560 | MT4 |
| 0.232689833 | 0.171518192 | 0.267 | 1 | 441459 | ANKRD18B |
| 0.232432432 | 0.172002829 | 0.275 | 1 | 7465 | WEE1 |
| 0.232432432 | 0.172002829 | 0.256 | 1 | 10589 | DRAP1 |
| 0.232432432 | 0.172002829 | 0.254 | 1 | 22794 | CASC3 |
| 0.232432432 | 0.172002829 | 0.304 | 1 | 222008 | VSTM2A |
| 0.232175032 | 0.172488455 | 0.248 | 1 | 4338 | MOCS2 |
| 0.232175032 | 0.172488455 | 0.299 | 1 | 9637 | FEZ2 |
| 0.232175032 | 0.172488455 | 0.298 | 1 | 10943 | MSL3 |
| 0.232175032 | 0.172488455 | 0.26 | 1 | 221154 | EFHA1 |
| 0.231917632 | 0.172975071 | 0.284 | 1 | 7082 | TJP1 |
| 0.231917632 | 0.172975071 | 0.271 | 1 | 11095 | ADAMTS8 |
| 0.231917632 | 0.172975071 | 0.266 | 1 | 23239 | PHLPP1 |
| 0.231917632 | 0.172975071 | 0.275 | 1 | 114926 | C8orf40 |
| 0.231660232 | 0.173462678 | 0.259 | 1 | 397 | ARHGDIB |
| 0.231660232 | 0.173462678 | 0.29 | 1 | 5260 | PHKG1 |
| 0.231660232 | 0.173462678 | 0.267 | 1 | 79144 | PPDPF |
| 0.231402831 | 0.173951277 | 0.306 | 1 | 23443 | SLC35A3 |
| 0.231145431 | 0.174440867 | 0.298 | 1 | 22948 | CCT5 |
| 0.231145431 | 0.174440867 | 0.259 | 1 | 26020 | LRP10 |
| 0.230888031 | 0.174931452 | 0.302 | 1 | 7881 | KCNAB1 |
| 0.230888031 | 0.174931452 | 0.313 | 1 | 284252 | KCTD1 |
| 0.230630631 | 0.17542303 | 0.293 | 1 | 1536 | CYBB |
| 0.230630631 | 0.17542303 | 0.271 | 1 | 29965 | C16orf5 |
| 0.23037323 | 0.175915603 | 0.277 | 1 | 9325 | TRIP4 |
| 0.23037323 | 0.175915603 | 0.254 | 1 | 22944 | KIN |
| 0.23037323 | 0.175915603 | 0.259 | 1 | 81554 | WBSCR16 |
| 0.23037323 | 0.175915603 | 0.267 | 1 | 729009 | FTH1P20 |
| 0.23011583 | 0.176409171 | 0.281 | 1 | 3268 | AGFG2 |
| 0.22985843 | 0.176903736 | 0.258 | 1 | 1523 | CUX1 |
| 0.22985843 | 0.176903736 | 0.27 | 1 | 3320 | HSP90AA2 |
| 0.22985843 | 0.176903736 | 0.272 | 1 | 4499 | MT1M |
| 0.22985843 | 0.176903736 | 0.29 | 1 | 7007 | TECTA |
| 0.22985843 | 0.176903736 | 0.296 | 1 | 81035 | COLEC12 |
| 0.22985843 | 0.176903736 | 0.247 | 1 | 147965 | FAM98C |
| 0.22985843 | 0.176903736 | 0.288 | 1 | 389170 | AC117392.3 |
| 0.22960103 | 0.177399299 | 0.268 | 1 | 1195 | CLK1 |
| 0.22960103 | 0.177399299 | 0.265 | 1 | 7608 | ZNF56 |
| 0.22960103 | 0.177399299 | 0.285 | 1 | 200081 | TXLNA |
| 0.22960103 | 0.177399299 | 0.283 | 1 | 257177 | C1orf192 |
| 0.229343629 | 0.177895859 | 0.267 | 1 | 5876 | RABGGTB |
| 0.229343629 | 0.177895859 | 0.269 | 1 | 8850 | KAT2B |
| 0.229343629 | 0.177895859 | 0.283 | 1 | 9789 | SPCS2 |
| 0.229343629 | 0.177895859 | 0.254 | 1 | 26147 | PHF19 |
| 0.229086229 | 0.178393419 | 0.286 | 1 | 9747 | FAM115A |
| 0.229086229 | 0.178393419 | 0.283 | 1 | 10046 | MAMLD1 |
| 0.229086229 | 0.178393419 | 0.244 | 1 | 51016 | FAM158A |
| 0.229086229 | 0.178393419 | 0.308 | 1 | 84707 | BEX2 |
| 0.229086229 | 0.178393419 | 0.256 | 1 | 170960 | ZNF721 |
| 0.228828829 | 0.178891978 | 0.267 | 1 | 3759 | KCNJ2 |
| 0.228828829 | 0.178891978 | 0.276 | 1 | 4524 | MTHFR |
| 0.228828829 | 0.178891978 | 0.288 | 1 | 5693 | PSMB5 |
| 0.228828829 | 0.178891978 | 0.262 | 1 | 8527 | DGKD |
| 0.228828829 | 0.178891978 | 0.284 | 1 | 79576 | NKAP |
| 0.228571429 | 0.179391537 | 0.285 | 1 | 6790 | AURKA |
| 0.228571429 | 0.179391537 | 0.275 | 1 | 376940 | ZC3H6 |
| 0.228571429 | 0.179391537 | 0.29 | 1 | 100131998 | RRN3P3 |
| 0.228314028 | 0.179892098 | 0.293 | 1 | 6601 | SMARCC2 |
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| 0.155634477 | 8.17987E-47 | 6017 | RLBP1 |
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| 0.155453666 | 1.04385E-46 | 27344 | PCSK1N |
| 0.155099468 | 1.68154E-46 | 6346 | CCL1 |
| 0.15496563 | 2.0129E-46 | 55322 | C5orf22 |
| 0.154933317 | 2.10218E-46 | 344967 | AC098591.2 |
| 0.154820349 | 2.44645E-46 | 10564 | ARFGEF2 |
| 0.154810354 | 2.47948E-46 | 140462 | ASB9 |
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| 0.154763458 | 2.6405E-46 | 6332 | SCN7A |
| 0.154695079 | 2.89411E-46 | 6344 | SCTR |
| 0.15463137 | 3.15215E-46 | 9331 | B4GALT6 |
| 0.154620775 | 3.19723E-46 | 168391 | GALNTL5 |
| 0.154551225 | 3.5095E-46 | 80775 | TMEM177 |
| 0.154513171 | 3.69301E-46 | 6865 | TACR2 |
| 0.154506951 | 3.7239E-46 | 92340 | C17orf72 |
| 0.154470053 | 3.91251E-46 | 5993 | RFX5 |
| 0.154326571 | 4.74071E-46 | 80739 | C6orf25 |
| 0.15421684 | 5.48986E-46 | 2971 | GTF3A |
| 0.15408342 | 6.56102E-46 | 57502 | NLGN4X |
| 0.154008332 | 7.25282E-46 | 58475 | MS4A7 |
| 0.153947111 | 7.87021E-46 | 80258 | EFHC2 |
| 0.153923709 | 8.11978E-46 | 60677 | BRUNOL6 |
| 0.153821072 | 9.31071E-46 | 131405 | TRIM71 |
| 0.153607345 | 1.23772E-45 | 26232 | FBXO2 |
| 0.153516866 | 1.39608E-45 | 8818 | DPM2 |
| 0.15350967 | 1.40951E-45 | 605 | BCL7A |
| 0.153483802 | 1.45885E-45 | 143162 | FRMPD2 |
| 0.153455581 | 1.51464E-45 | 55203 | LGI2 |
| 0.153339729 | 1.7668E-45 | 26539 | OR10H1 |
| 0.153311825 | 1.83352E-45 | 117156 | SCGB3A2 |
| 0.153146477 | 2.28363E-45 | 65243 | ZNF643 |
| 0.152953877 | 2.94812E-45 | 864 | RUNX3 |
| 0.152886798 | 3.22212E-45 | 23400 | ATP13A2 |
| 0.152674259 | 4.26893E-45 | 389895 | LOC389895 |
| 0.152658668 | 4.35787E-45 | 56899 | ANKS1B |
| 0.152640203 | 4.4656E-45 | 2844 | GPR21 |
| 0.152620098 | 4.58591E-45 | 11015 | KDELR3 |
| 0.152591676 | 4.76151E-45 | 150921 | TCF23 |
| 0.152474152 | 5.56147E-45 | 149837 | LOC149837 |
| 0.152363586 | 6.43564E-45 | 4008 | LMO7 |
| 0.15230673 | 6.93708E-45 | 5685 | PSMA4 |
| 0.152178589 | 8.21427E-45 | 3745 | KCNB1 |
| 0.152158919 | 8.43004E-45 | 84243 | ZDHHC18 |
| 0.152146523 | 8.5689E-45 | 1414 | CRYBB1 |
| 0.152144618 | 8.59044E-45 | 54665 | RSBN1 |
| 0.151886618 | 1.20658E-44 | 121643 | FOXN4 |
| 0.151881185 | 1.21523E-44 | 1303 | COL12A1 |
| 0.151682635 | 1.57769E-44 | 126129 | CPT1C |
| 0.151658084 | 1.6294E-44 | 339742 | FAM201B |
| 0.151518456 | 1.95724E-44 | 10769 | PLK2 |
| 0.151439543 | 2.17073E-44 | 55558 | PLXNA3 |
| 0.151313471 | 2.56087E-44 | 8460 | TPST1 |
| 0.151280615 | 2.67353E-44 | 91137 | SLC25A46 |
| 0.151273802 | 2.6975E-44 | 6941 | TCF19 |
| 0.151250125 | 2.78248E-44 | 23179 | RGL1 |
| 0.151181914 | 3.04247E-44 | 79680 | C22orf29 |
| 0.151175063 | 3.06988E-44 | 10982 | MAPRE2 |
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| 0.144220006 | 2.22621E-40 | 2525 | FUT3 |
| 0.144166101 | 2.38097E-40 | 7262 | PHLDA2 |
| 0.144114802 | 2.53816E-40 | 201294 | UNC13D |
| 0.144114362 | 2.53955E-40 | 100129250 | C9ORF133 |
| 0.144083316 | 2.63971E-40 | 30815 | ST6GALNAC6 |
| 0.144026281 | 2.83405E-40 | 114088 | TRIM9 |
| 0.144000018 | 2.92826E-40 | 344657 | LRRIQ4 |
| 0.143968975 | 3.04364E-40 | 59339 | PLEKHA2 |
| 0.143893473 | 3.34346E-40 | 1819 | DRG2 |
| 0.143859557 | 3.48754E-40 | 4015 | LOX |
| 0.143831488 | 3.61143E-40 | 84856 | RP11-178A10.1 |
| 0.143812377 | 3.69828E-40 | 7108 | TM7SF2 |
| 0.14379654 | 3.77182E-40 | 79644 | SRD5A3 |
| 0.143779949 | 3.85042E-40 | 7531 | YWHAE |
| 0.143692994 | 4.2898E-40 | 287 | ANK2 |
| 0.143657452 | 4.48342E-40 | 1436 | CSF1R |
| 0.143471872 | 5.6447E-40 | 131583 | FAM43A |
| 0.143465701 | 5.68807E-40 | 2121 | EVC |
| 0.143380653 | 6.32064E-40 | 57144 | PAK7 |
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| 0.143253979 | 7.39468E-40 | 51168 | MYO15A |
| 0.143235146 | 7.56916E-40 | 2155 | F7 |
| 0.143193218 | 7.97243E-40 | 6000 | RGS7 |
| 0.143076765 | 9.20805E-40 | 6870 | TACR3 |
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| 0.142818704 | 1.26664E-39 | 90161 | HS6ST2 |
| 0.142651242 | 1.55733E-39 | 259232 | NALCN |
| 0.142495146 | 1.88764E-39 | 340075 | ARSI |
| 0.142447456 | 2.00182E-39 | 128308 | MRPL55 |
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| 0.142278031 | 2.46581E-39 | 79999 | AC007952.2 |
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| 0.141947664 | 3.69981E-39 | 51388 | NIP7 |
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| 0.141832281 | 4.26213E-39 | 57758 | SCUBE2 |
| 0.141794606 | 4.46353E-39 | 10536 | LEPREL2 |
| 0.141624269 | 5.49885E-39 | 65982 | ZSCAN18 |
| 0.141600867 | 5.6586E-39 | 4246 | SCGB2A1 |
| 0.141326935 | 7.90932E-39 | 83698 | CALN1 |
| 0.141324375 | 7.93408E-39 | 9733 | SART3 |
| 0.141208928 | 9.1348E-39 | 5457 | POU4F1 |
| 0.141181385 | 9.44699E-39 | 51380 | CSAD |
| 0.141021541 | 1.14797E-38 | 55737 | VPS35 |
| 0.141010679 | 1.16326E-38 | 643394 | SPINK9 |
| 0.140881189 | 1.36196E-38 | 10573 | MRPL28 |
| 0.1407987 | 1.50577E-38 | 150147 | C21orf128 |
| 0.140567306 | 1.99484E-38 | 23277 | KIAA0664 |
| 0.140539053 | 2.06447E-38 | 7268 | TTC4 |
| 0.140450866 | 2.29772E-38 | 116071 | BATF2 |
| 0.140381304 | 2.50003E-38 | 5452 | POU2F2 |
| 0.140163559 | 3.25495E-38 | 2209 | FCGR1A |
| 0.140082488 | 3.59059E-38 | 124997 | WDR81 |
| 0.139802333 | 5.03794E-38 | 81558 | FAM117A |
| 0.139695073 | 5.73439E-38 | 9365 | KL |
| 0.139648878 | 6.06307E-38 | 11178 | LZTS1 |
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| 0.216473616 | 0.204013208 | 0.293 | 1 | 868 | CBLB |
| 0.216473616 | 0.204013208 | 0.332 | 1 | 2635 | GBP3 |
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| 0.216473616 | 0.204013208 | 0.288 | 1 | 6169 | RPL38 |
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| 0.216473616 | 0.204013208 | 0.309 | 1 | 441481 | GPX1P1 |
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| 0.216216216 | 0.204561658 | 0.298 | 1 | 221061 | FAM171A1 |
| 0.215958816 | 0.205111144 | 0.32 | 1 | 7480 | WNT10B |
| 0.215958816 | 0.205111144 | 0.301 | 1 | 54662 | TBC1D13 |
| 0.215958816 | 0.205111144 | 0.309 | 1 | 222967 | RSPH10B |
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| 0.215701416 | 0.205661666 | 0.306 | 1 | 23648 | SSBP3 |
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| 0.215444015 | 0.206213224 | 0.337 | 1 | 80054 | LOC80054 |
| 0.215444015 | 0.206213224 | 0.294 | 1 | 124602 | KIF19 |
| 0.215444015 | 0.206213224 | 0.324 | 1 | 282775 | OR5J2 |
| 0.215186615 | 0.20676582 | 0.309 | 1 | 79364 | ZXDC |
| 0.214929215 | 0.207319454 | 0.31 | 1 | 10432 | RBM14 |
| 0.214929215 | 0.207319454 | 0.284 | 1 | 10537 | UBD |
| 0.214929215 | 0.207319454 | 0.323 | 1 | 133522 | PPARGC1B |
| 0.214671815 | 0.207874126 | 0.328 | 1 | 56997 | CABC1 |
| 0.214671815 | 0.207874126 | 0.32 | 1 | 157739 | TDH |
| 0.214671815 | 0.207874126 | 0.307 | 1 | 254272 | TBC1D28 |
| 0.214414414 | 0.208429837 | 0.344 | 1 | 1463 | NCAN |
| 0.214414414 | 0.208429837 | 0.29 | 1 | 3065 | HDAC1 |
| 0.214414414 | 0.208429837 | 0.301 | 1 | 4542 | MYO1F |
| 0.214414414 | 0.208429837 | 0.297 | 1 | 23369 | PUM2 |
| 0.214414414 | 0.208429837 | 0.317 | 1 | 51379 | CRLF3 |
| 0.214414414 | 0.208429837 | 0.293 | 1 | 55486 | PARL |
| 0.214157014 | 0.208986588 | 0.325 | 1 | 59347 | FKSG2 |
| 0.214157014 | 0.208986588 | 0.318 | 1 | 152006 | RNF38 |
| 0.214157014 | 0.208986588 | 0.31 | 1 | 286140 | RNF5P1 |
| 0.213642214 | 0.210103211 | 0.297 | 1 | 8295 | TRRAP |
| 0.213642214 | 0.210103211 | 0.309 | 1 | 81558 | FAM117A |
| 0.213642214 | 0.210103211 | 0.321 | 1 | 130813 | C2orf50 |
| 0.213384813 | 0.210663085 | 0.308 | 1 | 5565 | PRKAB2 |
| 0.213384813 | 0.210663085 | 0.28 | 1 | 11235 | PDCD10 |
| 0.213384813 | 0.210663085 | 0.295 | 1 | 25972 | UNC50 |
| 0.213384813 | 0.210663085 | 0.306 | 1 | 53340 | SPA17 |
| 0.213384813 | 0.210663085 | 0.299 | 1 | 55218 | EXD2 |
| 0.213384813 | 0.210663085 | 0.311 | 1 | 79717 | PPCS |
| 0.213384813 | 0.210663085 | 0.313 | 1 | 161394 | SAMD15 |
| 0.213384813 | 0.210663085 | 0.291 | 1 | 338094 | FAM151A |
| 0.213127413 | 0.211224 | 0.314 | 1 | 1522 | CTSZ |
| 0.213127413 | 0.211224 | 0.329 | 1 | 3592 | IL12A |
| 0.213127413 | 0.211224 | 0.35 | 1 | 7175 | TPR |
| 0.213127413 | 0.211224 | 0.279 | 1 | 64928 | MRPL14 |
| 0.212870013 | 0.211785959 | 0.317 | 1 | 5521 | PPP2R2B |
| 0.212870013 | 0.211785959 | 0.319 | 1 | 7699 | ZNF140 |
| 0.212870013 | 0.211785959 | 0.326 | 1 | 401507 | FAM74A1 |
| 0.212870013 | 0.211785959 | 0.305 | 1 | 730091 | RP11-392A22.2 |
| 0.212612613 | 0.21234896 | 0.304 | 1 | 54876 | C4orf30 |
| 0.212612613 | 0.21234896 | 0.334 | 1 | 375484 | C5orf25 |
| 0.212355212 | 0.212913006 | 0.316 | 1 | 89 | ACTN3 |
| 0.212355212 | 0.212913006 | 0.304 | 1 | 4951 | OCM2 |
| 0.212355212 | 0.212913006 | 0.32 | 1 | 5803 | PTPRZ1 |
| 0.212097812 | 0.213478095 | 0.306 | 1 | 4238 | MFAP3 |
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| 0.211840412 | 0.21404423 | 0.331 | 1 | 3297 | HSF1 |
| 0.211840412 | 0.21404423 | 0.336 | 1 | 23552 | CCRK |
| 0.211840412 | 0.21404423 | 0.321 | 1 | 161882 | ZFPM1 |
| 0.211840412 | 0.21404423 | 0.306 | 1 | 285237 | C3orf38 |
| 0.211583012 | 0.214611411 | 0.317 | 1 | 151 | ADRA2B |
| 0.211583012 | 0.214611411 | 0.287 | 1 | 6273 | S100A2 |
| 0.211583012 | 0.214611411 | 0.298 | 1 | 26958 | COPG2 |
| 0.211583012 | 0.214611411 | 0.31 | 1 | 57794 | SF4 |
| 0.211583012 | 0.214611411 | 0.307 | 1 | 79691 | QTRTD1 |
| 0.211583012 | 0.214611411 | 0.321 | 1 | 113791 | PIK3IP1 |
| 0.211325611 | 0.215179638 | 0.316 | 1 | 3082 | HGF |
| 0.211325611 | 0.215179638 | 0.291 | 1 | 3275 | PRMT2 |
| 0.211325611 | 0.215179638 | 0.352 | 1 | 4090 | SMAD5 |
| 0.211325611 | 0.215179638 | 0.322 | 1 | 5549 | PRELP |
| 0.211325611 | 0.215179638 | 0.309 | 1 | 9329 | GTF3C4 |
| 0.211325611 | 0.215179638 | 0.31 | 1 | 54704 | PDP1 |
| 0.211325611 | 0.215179638 | 0.344 | 1 | 220202 | ATOH7 |
| 0.211325611 | 0.215179638 | 0.3 | 1 | 388753 | C1orf31 |
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| 0.139398334 | 8.2003E-38 | 140701 | C20orf135 |
| 0.139324496 | 8.96254E-38 | 158866 | ZDHHC15 |
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| 0.139206667 | 1.03273E-37 | 159 | ADSS |
| 0.139064719 | 1.22482E-37 | 57510 | XPO5 |
| 0.138996478 | 1.32941E-37 | 84343 | HPS3 |
| 0.138893247 | 1.50474E-37 | 644794 | LOC644794 |
| 0.138841074 | 1.60191E-37 | 163778 | SPRR4 |
| 0.138828835 | 1.62559E-37 | 57343 | ZNF304 |
| 0.138823335 | 1.63634E-37 | 2161 | F12 |
| 0.138768474 | 1.74757E-37 | 3301 | DNAJA1 |
| 0.138641693 | 2.0342E-37 | 9791 | PTDSS1 |
| 0.138564459 | 2.23123E-37 | 57505 | AARS2 |
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| 0.138304996 | 3.04272E-37 | 65057 | ACD |
| 0.138276056 | 3.14971E-37 | 92292 | GLYATL1 |
| 0.138272813 | 3.16194E-37 | 729475 | RAD51AP2 |
| 0.13826928 | 3.1753E-37 | 441273 | SPDYE2 |
| 0.13814379 | 3.68834E-37 | 200159 | C1orf100 |
| 0.13814272 | 3.69305E-37 | 6400 | SEL1L |
| 0.13806107 | 4.07075E-37 | 403239 | OR2T27 |
| 0.137854229 | 5.20822E-37 | 83706 | FERMT3 |
| 0.137772825 | 5.73799E-37 | 525 | ATP6V1B1 |
| 0.137713373 | 6.15843E-37 | 57333 | RCN3 |
| 0.137697833 | 6.27329E-37 | 5025 | P2RX4 |
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| 0.137541552 | 7.55349E-37 | 55534 | MAML3 |
| 0.137538435 | 7.5815E-37 | 23174 | ZCCHC14 |
| 0.137514655 | 7.79865E-37 | 50509 | COL5A3 |
| 0.137502295 | 7.91394E-37 | 164781 | WDR69 |
| 0.137476646 | 8.15861E-37 | 8744 | TNFSF9 |
| 0.13744399 | 8.48104E-37 | 7561 | ZNF14 |
| 0.137319517 | 9.83043E-37 | 388021 | TMEM179 |
| 0.137313589 | 9.89976E-37 | 147381 | CBLN2 |
| 0.137297534 | 1.009E-36 | 117 | ADCYAP1R1 |
| 0.136879579 | 1.65475E-36 | 56986 | DTWD1 |
| 0.136703583 | 2.03704E-36 | 84981 | MIR22HG |
| 0.136681084 | 2.09185E-36 | 29035 | C16orf72 |
| 0.136590655 | 2.32732E-36 | 23275 | POFUT2 |
| 0.136545004 | 2.45601E-36 | 1592 | CYP26A1 |
| 0.136543081 | 2.46158E-36 | 8530 | CST7 |
| 0.136494687 | 2.60606E-36 | 26251 | KCNG2 |
| 0.136457864 | 2.72161E-36 | 81833 | SPACA1 |
| 0.136455948 | 2.72776E-36 | 8512 | MBL1P |
| 0.136385783 | 2.96274E-36 | 151613 | TTC14 |
| 0.136291561 | 3.3102E-36 | 5368 | PNOC |
| 0.136234584 | 3.53966E-36 | 55319 | C4orf43 |
| 0.136216615 | 3.61525E-36 | 440712 | C1orf186 |
| 0.135984951 | 4.74614E-36 | 23262 | HISPPD1 |
| 0.135981149 | 4.76737E-36 | 26063 | DECR2 |
| 0.135777421 | 6.05416E-36 | 11021 | RAB35 |
| 0.13573827 | 6.33839E-36 | 7556 | ZNF10 |
| 0.135711377 | 6.54126E-36 | 93408 | MYL10 |
| 0.135674859 | 6.82711E-36 | 10381 | RP11-566K11.2 |
| 0.135643469 | 7.08271E-36 | 348013 | FAM70B |
| 0.135510372 | 8.27641E-36 | 51301 | GCNT4 |
| 0.135475547 | 8.62044E-36 | 9653 | HS2ST1 |
| 0.135438197 | 9.00522E-36 | 392196 | RP11-1236K1.8 |
| 0.13542223 | 9.17487E-36 | 10694 | CCT8 |
| 0.135314566 | 1.04047E-35 | 122664 | TPPP2 |
| 0.135296189 | 1.06304E-35 | 150737 | TTC30B |
| 0.135269105 | 1.0972E-35 | 84954 | MPND |
| 0.135189669 | 1.20379E-35 | 2561 | GABRB2 |
| 0.135157669 | 1.24958E-35 | 8470 | SORBS2 |
| 0.13514654 | 1.2659E-35 | 93650 | ACPT |
| 0.135013338 | 1.47857E-35 | 5331 | PLCB3 |
| 0.134925435 | 1.63799E-35 | 57224 | NHSL1 |
| 0.134854099 | 1.77982E-35 | 116931 | MED12L |
| 0.134799283 | 1.89705E-35 | 1113 | CHGA |
| 0.134619871 | 2.33701E-35 | 10746 | MAP3K2 |
| 0.134555083 | 2.51966E-35 | 10870 | HCST |
| 0.134508068 | 2.66101E-35 | 6185 | RPN2 |
| 0.134302395 | 3.37791E-35 | 440043 | PGAM1P8 |
| 0.134267837 | 3.51592E-35 | 60385 | TSKS |
| 0.134219597 | 3.718E-35 | 92092 | ZC3HAV1L |
| 0.133915549 | 5.28531E-35 | 94137 | RP1L1 |
| 0.133898774 | 5.38875E-35 | 282617 | IL28B |
| 0.133703537 | 6.75119E-35 | 7574 | ZNF26 |
| 0.13368149 | 6.92509E-35 | 63905 | MANBAL |

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| 0.211068211 | 0.215748911 | 0.301 | 1 | 4931 | NVL |
| 0.211068211 | 0.215748911 | 0.32 | 1 | 23028 | KDM1 |
| 0.211068211 | 0.215748911 | 0.3 | 1 | 51427 | ZNF588 |
| 0.211068211 | 0.215748911 | 0.303 | 1 | 55660 | PRPF40A |
| 0.211068211 | 0.215748911 | 0.331 | 1 | 55727 | BTBD7 |
| 0.211068211 | 0.215748911 | 0.336 | 1 | 57717 | PCDHB16 |
| 0.210810811 | 0.216319232 | 0.298 | 1 | 444 | ASPH |
| 0.210810811 | 0.216319232 | 0.334 | 1 | 2794 | GNL1 |
| 0.210810811 | 0.216319232 | 0.282 | 1 | 3428 | IFI16 |
| 0.210810811 | 0.216319232 | 0.319 | 1 | 64757 | MOSC1 |
| 0.210810811 | 0.216319232 | 0.285 | 1 | 85028 | SNHG12 |
| 0.210810811 | 0.216319232 | 0.291 | 1 | 137902 | PXDNL |
| 0.210810811 | 0.216319232 | 0.318 | 1 | 138162 | C9orf116 |
| 0.210553411 | 0.2168906 | 0.302 | 1 | 5606 | MAP2K3 |
| 0.210553411 | 0.2168906 | 0.313 | 1 | 10084 | PQBP1 |
| 0.210553411 | 0.2168906 | 0.29 | 1 | 26061 | HACL1 |
| 0.210553411 | 0.2168906 | 0.303 | 1 | 54741 | LEPROT |
| 0.210553411 | 0.2168906 | 0.325 | 1 | 55299 | BRIX1 |
| 0.210553411 | 0.2168906 | 0.328 | 1 | 91057 | CCDC34 |
| 0.21029601 | 0.217463017 | 0.32 | 1 | 56649 | TMPRSS4 |
| 0.21029601 | 0.217463017 | 0.311 | 1 | 390595 | UBAP1L |
| 0.21003861 | 0.218036483 | 0.337 | 1 | 5734 | PTGER4 |
| 0.21003861 | 0.218036483 | 0.284 | 1 | 6811 | STX5 |
| 0.20978121 | 0.218610998 | 0.316 | 1 | 770 | CA11 |
| 0.20978121 | 0.218610998 | 0.351 | 1 | 8643 | PTCH2 |
| 0.20978121 | 0.218610998 | 0.3 | 1 | 10240 | MRPS31 |
| 0.20978121 | 0.218610998 | 0.31 | 1 | 29990 | PILRB |
| 0.20978121 | 0.218610998 | 0.318 | 1 | 51218 | GLRX5 |
| 0.20978121 | 0.218610998 | 0.326 | 1 | 54926 | UBE2R2 |
| 0.20978121 | 0.218610998 | 0.298 | 1 | 90480 | GADD45GIP1 |
| 0.20978121 | 0.218610998 | 0.353 | 1 | 147837 | ZNF563 |
| 0.20952381 | 0.219186564 | 0.326 | 1 | 9113 | LATS1 |
| 0.20952381 | 0.219186564 | 0.345 | 1 | 11157 | LSM6 |
| 0.20952381 | 0.219186564 | 0.306 | 1 | 11345 | GABARAPL2 |
| 0.20952381 | 0.219186564 | 0.331 | 1 | 375295 | LOC375295 |
| 0.209266409 | 0.21976318 | 0.32 | 1 | 3987 | LIMS1 |
| 0.209266409 | 0.21976318 | 0.3 | 1 | 10969 | EBNA1BP2 |
| 0.209266409 | 0.21976318 | 0.337 | 1 | 23548 | TTC33 |
| 0.209266409 | 0.21976318 | 0.32 | 1 | 129531 | MITD1 |
| 0.209009009 | 0.220340847 | 0.323 | 1 | 6279 | S100A8 |
| 0.209009009 | 0.220340847 | 0.299 | 1 | 6618 | SNAPC2 |
| 0.209009009 | 0.220340847 | 0.353 | 1 | 8906 | AP1G2 |
| 0.209009009 | 0.220340847 | 0.324 | 1 | 57003 | CCDC47 |
| 0.209009009 | 0.220340847 | 0.337 | 1 | 90592 | ZNF700 |
| 0.209009009 | 0.220340847 | 0.32 | 1 | 374569 | ASPG |
| 0.208751609 | 0.220919565 | 0.302 | 1 | 308 | ANXA5 |
| 0.208751609 | 0.220919565 | 0.321 | 1 | 7041 | TGFB1I1 |
| 0.208751609 | 0.220919565 | 0.325 | 1 | 7275 | TUB |
| 0.208751609 | 0.220919565 | 0.31 | 1 | 317762 | CCDC85C |
| 0.208494208 | 0.221499336 | 0.347 | 1 | 93487 | MAPK1IP1L |
| 0.208236808 | 0.22208016 | 0.311 | 1 | 6263 | RYR3 |
| 0.207979408 | 0.222662037 | 0.29 | 1 | 5253 | PHF2 |
| 0.207979408 | 0.222662037 | 0.346 | 1 | 30819 | KCNIP2 |
| 0.207979408 | 0.222662037 | 0.348 | 1 | 83661 | MS4A8B |
| 0.207979408 | 0.222662037 | 0.36 | 1 | 100133941 | CD24 |
| 0.207722008 | 0.223244967 | 0.321 | 1 | 684 | BST2 |
| 0.207722008 | 0.223244967 | 0.32 | 1 | 22927 | HABP4 |
| 0.207722008 | 0.223244967 | 0.323 | 1 | 50865 | HEBP1 |
| 0.207722008 | 0.223244967 | 0.317 | 1 | 57414 | RHBDD2 |
| 0.207722008 | 0.223244967 | 0.322 | 1 | 90827 | ZNF479 |
| 0.207464607 | 0.223828952 | 0.349 | 1 | 7432 | VIP |
| 0.207464607 | 0.223828952 | 0.33 | 1 | 54482 | CCDC76 |
| 0.207464607 | 0.223828952 | 0.329 | 1 | 200162 | SPAG17 |
| 0.207207207 | 0.224413992 | 0.325 | 1 | 969 | CD69 |
| 0.207207207 | 0.224413992 | 0.323 | 1 | 10384 | BTN3A3 |
| 0.206949807 | 0.225000087 | 0.325 | 1 | 54108 | CHRAC1 |
| 0.206692407 | 0.225587238 | 0.318 | 1 | 267 | AMFR |
| 0.206692407 | 0.225587238 | 0.367 | 1 | 7027 | TFDP1 |
| 0.206692407 | 0.225587238 | 0.313 | 1 | 54819 | ZCCHC10 |
| 0.206692407 | 0.225587238 | 0.336 | 1 | 727936 | GXYLT2 |
| 0.206435006 | 0.226175444 | 0.327 | 1 | 2242 | FES |
| 0.206435006 | 0.226175444 | 0.335 | 1 | 3476 | IGBP1 |
| 0.206435006 | 0.226175444 | 0.331 | 1 | 5955 | RCN2 |
| 0.206435006 | 0.226175444 | 0.321 | 1 | 23051 | ZHX3 |
| 0.206435006 | 0.226175444 | 0.37 | 1 | 25957 | SFRS18 |
| 0.206435006 | 0.226175444 | 0.343 | 1 | 114801 | TMEM200A |
| 0.206435006 | 0.226175444 | 0.353 | 1 | 146330 | FBXL16 |
| 0.206177606 | 0.226764708 | 0.329 | 1 | 29988 | SLC2A8 |
| 0.206177606 | 0.226764708 | 0.372 | 1 | 95681 | TSGA14 |
| 0.205920206 | 0.227355029 | 0.315 | 1 | 175 | AGA |
| 0.205920206 | 0.227355029 | 0.35 | 1 | 79946 | C10orf95 |
| 0.205662806 | 0.227946408 | 0.356 | 1 | 6904 | TBCD |

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| 0.133499129 | 8.54504E-35 | 11138 | TBC1D8 |
| 0.133480405 | 8.73132E-35 | 3556 | IL1RAP |
| 0.133471981 | 8.81644E-35 | 440184 | LINC00238 |
| 0.133380001 | 9.80121E-35 | 55220 | KLHDC8A |
| 0.133332527 | 1.03515E-34 | 65989 | DLK2 |
| 0.133330601 | 1.03744E-34 | 164656 | TMPRSS6 |
| 0.133311035 | 1.06106E-34 | 653657 | AC010606.4 |
| 0.133186744 | 1.22404E-34 | 4282 | MIF |
| 0.132897562 | 1.70589E-34 | 9154 | SLC28A1 |
| 0.132865694 | 1.76936E-34 | 1421 | CRYGD |
| 0.132848048 | 1.80551E-34 | 51105 | PHF20L1 |
| 0.132790295 | 1.92904E-34 | 203259 | C9orf25 |
| 0.132710601 | 2.11338E-34 | 152789 | JAKMIP1 |
| 0.132667624 | 2.21995E-34 | 65018 | PINK1 |
| 0.132665808 | 2.22457E-34 | 387758 | FIBIN |
| 0.132662916 | 2.23195E-34 | 53354 | PANK1 |
| 0.132636619 | 2.30013E-34 | 8504 | PEX3 |
| 0.132550819 | 2.53733E-34 | 337978 | KRTAP21-2 |
| 0.132294676 | 3.3998E-34 | 9016 | SLC25A14 |
| 0.132227026 | 3.6726E-34 | 27152 | INTU |
| 0.132110524 | 4.19429E-34 | 643376 | AP001931.1 |
| 0.132106619 | 4.213E-34 | 83755 | KRTAP4-12 |
| 0.132101301 | 4.23861E-34 | 4588 | MUC6 |
| 0.131968075 | 4.93311E-34 | 1066 | CES1 |
| 0.131962779 | 4.96294E-34 | 57620 | STIM2 |
| 0.131958877 | 4.98504E-34 | 22848 | AAK1 |
| 0.131942158 | 5.08081E-34 | 143630 | UBQLNL |
| 0.131791915 | 6.02769E-34 | 64754 | SMYD3 |
| 0.131666461 | 6.95117E-34 | 2553 | GABPB1 |
| 0.131552712 | 7.90927E-34 | 26037 | SIPA1L1 |
| 0.131530713 | 8.10917E-34 | 266697 | POM121L4P |
| 0.13148572 | 8.53377E-34 | 203 | AK1 |
| 0.131428643 | 9.1043E-34 | 27120 | DKKL1 |
| 0.13140471 | 9.35466E-34 | 4689 | NCF4 |
| 0.131250421 | 1.11411E-33 | 23118 | MAP3K7IP2 |
| 0.131210899 | 1.16507E-33 | 10621 | POLR3F |
| 0.131140925 | 1.26106E-33 | 10904 | BLCAP |
| 0.13106604 | 1.37249E-33 | 56111 | PCDHGA4 |
| 0.130972514 | 1.52548E-33 | 337976 | KRTAP20-2 |
| 0.130931934 | 1.59702E-33 | 285962 | RP5-894A10.1 |
| 0.13091305 | 1.63144E-33 | 10640 | EXOC5 |
| 0.130846186 | 1.75933E-33 | 6019 | RLN2 |
| 0.130801223 | 1.85088E-33 | 7476 | WNT7A |
| 0.130675477 | 2.13282E-33 | 339168 | TMEM95 |
| 0.130661325 | 2.1671E-33 | 26098 | C10orf137 |
| 0.130650965 | 2.19255E-33 | 29979 | UBQLN1 |
| 0.130556463 | 2.43879E-33 | 9777 | TM9SF4 |
| 0.130450921 | 2.74638E-33 | 10620 | ARID3B |
| 0.130411226 | 2.87178E-33 | 57221 | KIAA1244 |
| 0.130330148 | 3.14586E-33 | 167359 | AC114947.2 |
| 0.130327348 | 3.15577E-33 | 6507 | SLC1A3 |
| 0.130311869 | 3.21115E-33 | 333929 | SNAI3 |
| 0.130164155 | 3.79061E-33 | 201595 | STT3B |
| 0.130156128 | 3.82492E-33 | 54734 | RAB39 |
| 0.130136799 | 3.9088E-33 | 26267 | FBXO10 |
| 0.129988939 | 4.61385E-33 | 3227 | HOXC11 |
| 0.129982542 | 4.64705E-33 | 8542 | APOL1 |
| 0.129957913 | 4.77711E-33 | 9389 | SLC22A14 |
| 0.129944041 | 4.85195E-33 | 641702 | FAM138E |
| 0.129898789 | 5.10427E-33 | 55664 | CDC37L1 |
| 0.129799112 | 5.70694E-33 | 6338 | SCNN1B |
| 0.129705525 | 6.3369E-33 | 55061 | SUSD4 |
| 0.129543692 | 7.59334E-33 | 113146 | AHNAK2 |
| 0.129543385 | 7.59594E-33 | 440738 | MAP1LC3C |
| 0.129447819 | 8.4513E-33 | 85320 | ABCC11 |
| 0.129366999 | 9.24883E-33 | 8061 | FOSL1 |
| 0.129350099 | 9.42482E-33 | 2821 | GPI |
| 0.129328836 | 9.65098E-33 | 60560 | MAK10 |
| 0.129262502 | 1.03917E-32 | 286097 | EFHA2 |
| 0.129037183 | 1.33552E-32 | 60487 | TRMT11 |
| 0.128893023 | 1.56771E-32 | 22950 | SLC4A1AP |
| 0.12880001 | 1.73835E-32 | 127003 | C1orf194 |
| 0.128792932 | 1.75207E-32 | 54927 | CHCHD3 |
| 0.128783773 | 1.76998E-32 | 9915 | ARNT2 |
| 0.128448465 | 2.56707E-32 | 261729 | STEAP2 |
| 0.128427649 | 2.62693E-32 | 8821 | INPP4B |
| 0.128424441 | 2.63628E-32 | 148137 | C19orf55 |
| 0.128399292 | 2.7107E-32 | 93145 | OLFM2 |
| 0.128285178 | 3.0755E-32 | 79735 | TBC1D17 |
| 0.128076669 | 3.87238E-32 | 55813 | UTP6 |
| 0.127988274 | 4.26922E-32 | 5199 | CFP |
| 0.127874227 | 4.8414E-32 | 23641 | LDOC1 |

| | | | | | |
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| 0.205662806 | 0.227946408 | 0.325 | 1 | 10487 | CAP1 |
| 0.205662806 | 0.227946408 | 0.312 | 1 | 22801 | ITGA11 |
| 0.205662806 | 0.227946408 | 0.334 | 1 | 57335 | ZNF286 |
| 0.205405405 | 0.228538845 | 0.303 | 1 | 949 | SCARB1 |
| 0.205405405 | 0.228538845 | 0.31 | 1 | 1889 | ECE1 |
| 0.205405405 | 0.228538845 | 0.33 | 1 | 9869 | SETDB1 |
| 0.205405405 | 0.228538845 | 0.311 | 1 | 51018 | RRP15 |
| 0.205405405 | 0.228538845 | 0.364 | 1 | 257194 | NEGR1 |
| 0.205405405 | 0.228538845 | 0.327 | 1 | 353323 | KRTAP12-2 |
| 0.205148005 | 0.229132341 | 0.318 | 1 | 7433 | VIPR1 |
| 0.205148005 | 0.229132341 | 0.354 | 1 | 23764 | MAFF |
| 0.205148005 | 0.229132341 | 0.319 | 1 | 55845 | BRK1 |
| 0.204890605 | 0.229726896 | 0.321 | 1 | 6894 | TARBP1 |
| 0.204890605 | 0.229726896 | 0.319 | 1 | 390199 | OR4D9 |
| 0.204633205 | 0.23032251 | 0.302 | 1 | 713 | C1QB |
| 0.204633205 | 0.23032251 | 0.362 | 1 | 7296 | TXNRD1 |
| 0.204633205 | 0.23032251 | 0.341 | 1 | 55320 | C14orf106 |
| 0.204633205 | 0.23032251 | 0.323 | 1 | 147040 | KCTD11 |
| 0.204375804 | 0.230919185 | 0.373 | 1 | 7223 | TRPC4 |
| 0.204375804 | 0.230919185 | 0.315 | 1 | 23382 | AHCYL2 |
| 0.204375804 | 0.230919185 | 0.331 | 1 | 51691 | NAA38 |
| 0.204375804 | 0.230919185 | 0.335 | 1 | 79817 | MOBKL2B |
| 0.204118404 | 0.23151692 | 0.346 | 1 | 2280 | FKBP1A |
| 0.204118404 | 0.23151692 | 0.324 | 1 | 51538 | ZCCHC17 |
| 0.203861004 | 0.232115716 | 0.354 | 1 | 7293 | TNFRSF4 |
| 0.203861004 | 0.232115716 | 0.351 | 1 | 114784 | CSMD2 |
| 0.203861004 | 0.232115716 | 0.33 | 1 | 100133150 | LOC100133150 |
| 0.203603604 | 0.232715574 | 0.333 | 1 | 57045 | TWSG1 |
| 0.203603604 | 0.232715574 | 0.338 | 1 | 79657 | RPAP3 |
| 0.203603604 | 0.232715574 | 0.309 | 1 | 81576 | CCDC130 |
| 0.203346203 | 0.233316494 | 0.343 | 1 | 54065 | C21orf51 |
| 0.203346203 | 0.233316494 | 0.34 | 1 | 60686 | C14orf93 |
| 0.203346203 | 0.233316494 | 0.32 | 1 | 170394 | PWWP2B |
| 0.203346203 | 0.233316494 | 0.35 | 1 | 283248 | RCOR2 |
| 0.203088803 | 0.233918476 | 0.329 | 1 | 5886 | RAD23A |
| 0.203088803 | 0.233918476 | 0.342 | 1 | 207063 | DHRSX |
| 0.202831403 | 0.234521522 | 0.313 | 1 | 11341 | SCRG1 |
| 0.202831403 | 0.234521522 | 0.349 | 1 | 79443 | FYCO1 |
| 0.202831403 | 0.234521522 | 0.319 | 1 | 131965 | METTL6 |
| 0.202831403 | 0.234521522 | 0.326 | 1 | 386672 | KRTAP10-4 |
| 0.202574003 | 0.23512563 | 0.302 | 1 | 9328 | GTF3C5 |
| 0.202574003 | 0.23512563 | 0.339 | 1 | 54553 | DKFZP434I0714 |
| 0.202574003 | 0.23512563 | 0.358 | 1 | 65979 | PHACTR4 |
| 0.202574003 | 0.23512563 | 0.294 | 1 | 113174 | SAAL1 |
| 0.202574003 | 0.23512563 | 0.325 | 1 | 157638 | FAM84B |
| 0.202316602 | 0.235730802 | 0.346 | 1 | 3976 | LIF |
| 0.202316602 | 0.235730802 | 0.314 | 1 | 6386 | SDCBP |
| 0.202316602 | 0.235730802 | 0.333 | 1 | 10605 | PAIP1 |
| 0.202316602 | 0.235730802 | 0.326 | 1 | 23181 | DIP2A |
| 0.202316602 | 0.235730802 | 0.334 | 1 | 79366 | NSBP1 |
| 0.202316602 | 0.235730802 | 0.343 | 1 | 283377 | SPRYD4 |
| 0.202059202 | 0.236337038 | 0.328 | 1 | 1855 | DVL1 |
| 0.202059202 | 0.236337038 | 0.327 | 1 | 2768 | GNA12 |
| 0.202059202 | 0.236337038 | 0.351 | 1 | 5073 | PARN |
| 0.202059202 | 0.236337038 | 0.31 | 1 | 5686 | PSMA5 |
| 0.202059202 | 0.236337038 | 0.33 | 1 | 8727 | CTNNAL1 |
| 0.202059202 | 0.236337038 | 0.371 | 1 | 51363 | CHST15 |
| 0.201801802 | 0.236944339 | 0.378 | 1 | 4739 | NEDD9 |
| 0.201801802 | 0.236944339 | 0.352 | 1 | 9732 | DOCK4 |
| 0.201801802 | 0.236944339 | 0.387 | 1 | 51127 | TRIM17 |
| 0.201544402 | 0.237552705 | 0.339 | 1 | 26520 | TIMM9 |
| 0.201544402 | 0.237552705 | 0.338 | 1 | 84236 | RHBDD1 |
| 0.201544402 | 0.237552705 | 0.335 | 1 | 133022 | TRAM1L1 |
| 0.201544402 | 0.237552705 | 0.328 | 1 | 222389 | BEND7 |
| 0.201544402 | 0.237552705 | 0.343 | 1 | 255043 | TMEM86B |
| 0.201544402 | 0.237552705 | 0.363 | 1 | 283458 | NME2P1 |
| 0.201287001 | 0.238162137 | 0.342 | 1 | 11331 | PHB2 |
| 0.201287001 | 0.238162137 | 0.34 | 1 | 196383 | RILPL2 |
| 0.201029601 | 0.238772634 | 0.354 | 1 | 6585 | SLIT1 |
| 0.201029601 | 0.238772634 | 0.35 | 1 | 7059 | THBS3 |
| 0.201029601 | 0.238772634 | 0.349 | 1 | 8153 | RND2 |
| 0.201029601 | 0.238772634 | 0.364 | 1 | 347736 | TXNDC6 |
| 0.201029601 | 0.238772634 | 0.357 | 1 | 643376 | AP001931.1 |
| 0.200772201 | 0.239384197 | 0.348 | 1 | 22949 | PTGR1 |
| 0.200772201 | 0.239384197 | 0.339 | 1 | 51001 | MTERFD1 |
| 0.200772201 | 0.239384197 | 0.358 | 1 | 161931 | ADAD2 |
| 0.200772201 | 0.239384197 | 0.348 | 1 | 389705 | LOC389705 |
| 0.200514801 | 0.239996828 | 0.328 | 1 | 7248 | TSC1 |
| 0.200514801 | 0.239996828 | 0.335 | 1 | 344657 | LRRIQ4 |
| 0.2 | 0.24122529 | 0.364 | 1 | 4831 | NME2 |
| 0.2 | 0.24122529 | 0.332 | 1 | 8968 | HIST1H3F |
| 0.2 | 0.24122529 | 0.313 | 1 | 51283 | BFAR |

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| 0.127790907 | 5.30695E-32 | 124773 | C17orf64 |
| 0.127785616 | 5.33798E-32 | 28982 | FLVCR1 |
| 0.127687558 | 5.94659E-32 | 266675 | BEST4 |
| 0.127627541 | 6.35258E-32 | 64223 | MLST8 |
| 0.127623984 | 6.37749E-32 | 11189 | CELF3 |
| 0.127544358 | 6.96114E-32 | 1054 | CEBPG |
| 0.127498447 | 7.32146E-32 | 157556 | C8orf56 |
| 0.127473769 | 7.52272E-32 | 4045 | LSAMP |
| 0.127429865 | 7.89446E-32 | 6920 | TCEA3 |
| 0.127379261 | 8.3456E-32 | 23623 | RUSC1 |
| 0.127352275 | 8.59655E-32 | 8717 | TRADD |
| 0.12727414 | 9.36617E-32 | 3623 | INHA |
| 0.127149599 | 1.07366E-31 | 255313 | CT47A11 |
| 0.127094184 | 1.14087E-31 | 51172 | NAGPA |
| 0.127039837 | 1.21084E-31 | 642696 | AC007601.1 |
| 0.127000377 | 1.2643E-31 | 84342 | COG8 |
| 0.126969977 | 1.30707E-31 | 200933 | FBXO45 |
| 0.126912909 | 1.39129E-31 | 29895 | MYLPF |
| 0.126780706 | 1.60764E-31 | 140707 | BRI3BP |
| 0.126654788 | 1.84465E-31 | 770 | CA11 |
| 0.126638772 | 1.87718E-31 | 27177 | IL1F8 |
| 0.126552745 | 2.06191E-31 | 219844 | HYLS1 |
| 0.126411469 | 2.40521E-31 | 56606 | SLC2A9 |
| 0.126356188 | 2.55448E-31 | 414260 | C10orf136 |
| 0.12632098 | 2.65431E-31 | 55001 | TTC22 |
| 0.126263298 | 2.8263E-31 | 91782 | CHMP7 |
| 0.126231045 | 2.92724E-31 | 2644 | GCHFR |
| 0.126170497 | 3.12649E-31 | 1571 | CYP2E1 |
| 0.126120552 | 3.30095E-31 | 23516 | SLC39A14 |
| 0.125974286 | 3.86938E-31 | 140680 | C20orf96 |
| 0.125967206 | 3.89923E-31 | 57484 | RNF150 |
| 0.125957149 | 3.94204E-31 | 10970 | CKAP4 |
| 0.125946867 | 3.98627E-31 | 441089 | CRSP8P |
| 0.125942368 | 4.00579E-31 | 10228 | STX6 |
| 0.125795753 | 4.6963E-31 | 84639 | IL1F10 |
| 0.125793412 | 4.70824E-31 | 50835 | TAS2R9 |
| 0.125781578 | 4.76902E-31 | 55009 | C19orf24 |
| 0.125775553 | 4.80027E-31 | 30000 | TNPO2 |
| 0.125680907 | 5.31864E-31 | 286256 | LCN12 |
| 0.125412865 | 7.10791E-31 | 26689 | AC005962.2 |
| 0.125403668 | 7.1789E-31 | 2527 | FUT5 |
| 0.125306564 | 7.97283E-31 | 9002 | F2RL3 |
| 0.125059843 | 1.04038E-30 | 51523 | CXXC5 |
| 0.125012861 | 1.0944E-30 | 6662 | SOX9 |
| 0.124902804 | 1.23209E-30 | 4254 | KITLG |
| 0.124748727 | 1.45416E-30 | 84314 | TMEM107 |
| 0.124661712 | 1.59668E-30 | 10262 | SF3B4 |
| 0.124652399 | 1.61273E-30 | 159686 | CCDC147 |
| 0.124546538 | 1.80684E-30 | 643418 | LIPN |
| 0.12449179 | 1.91615E-30 | 3630 | INS |
| 0.124487419 | 1.92515E-30 | 3354 | HTR1E |
| 0.124463059 | 1.97611E-30 | 5970 | RELA |
| 0.124429358 | 2.04883E-30 | 10293 | TRAIP |
| 0.124403266 | 2.10694E-30 | 9582 | APOBEC3B |
| 0.124331479 | 2.27541E-30 | 9935 | MAFB |
| 0.124158801 | 2.7374E-30 | 10579 | TACC2 |
| 0.124157737 | 2.74052E-30 | 26330 | GAPDHS |
| 0.12413804 | 2.79887E-30 | 9127 | P2RX6 |
| 0.124097297 | 2.92351E-30 | 57547 | ZNF624 |
| 0.124027876 | 3.14869E-30 | 400406 | LOC400406 |
| 0.123761295 | 4.18513E-30 | 3171 | FOXA3 |
| 0.123743434 | 4.26559E-30 | 375791 | C9orf169 |
| 0.123737385 | 4.29318E-30 | 246213 | SLC17A8 |
| 0.123644271 | 4.74102E-30 | 5203 | PFDN4 |
| 0.123596379 | 4.98911E-30 | 26258 | PLDN |
| 0.123526746 | 5.37297E-30 | 5081 | PAX7 |
| 0.123499635 | 5.53023E-30 | 10077 | TSPAN32 |
| 0.123366046 | 6.37435E-30 | 51063 | CALHM2 |
| 0.123328629 | 6.6329E-30 | 4326 | MMP17 |
| 0.123323137 | 6.67172E-30 | 5986 | RFNG |
| 0.123298686 | 6.84729E-30 | 64175 | LEPRE1 |
| 0.123256568 | 7.16051E-30 | 9920 | KBTBD11 |
| 0.123086104 | 8.5802E-30 | 29099 | COMMD9 |
| 0.123016799 | 9.23428E-30 | 9921 | RNF10 |
| 0.122824699 | 1.13173E-29 | 23558 | WBP2 |
| 0.122418844 | 1.73749E-29 | 57146 | TMEM159 |
| 0.122417606 | 1.73976E-29 | 146853 | C17orf50 |
| 0.122262042 | 2.04967E-29 | 126549 | ANKLE1 |
| 0.122046324 | 2.57192E-29 | 3817 | KLK2 |
| 0.122043879 | 2.57854E-29 | 126695 | C1orf172 |
| 0.122040072 | 2.58888E-29 | 200373 | AC069154.2 |
| 0.121868187 | 3.10117E-29 | 3980 | LIG3 |

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| 0.1997426 | 0.241841122 | 0.331 | 1 | 10457 | GPNMB |
| 0.1997426 | 0.241841122 | 0.376 | 1 | 10665 | C6orf10 |
| 0.1997426 | 0.241841122 | 0.329 | 1 | 60491 | NIF3L1 |
| 0.199485199 | 0.242458023 | 0.357 | 1 | 3882 | KRT32 |
| 0.199485199 | 0.242458023 | 0.33 | 1 | 7832 | BTG2 |
| 0.199227799 | 0.243075993 | 0.351 | 1 | 27145 | FILIP1 |
| 0.199227799 | 0.243075993 | 0.358 | 1 | 100240734 | LOC100240734 |
| 0.198970399 | 0.243695032 | 0.333 | 1 | 7327 | UBE2G2 |
| 0.198970399 | 0.243695032 | 0.326 | 1 | 56062 | KLHL4 |
| 0.198970399 | 0.243695032 | 0.358 | 1 | 84911 | ZNF382 |
| 0.198970399 | 0.243695032 | 0.318 | 1 | 116444 | GRIN3B |
| 0.198970399 | 0.243695032 | 0.364 | 1 | 642954 | RBBP4P1 |
| 0.198712999 | 0.24431514 | 0.372 | 1 | 23180 | RFTN1 |
| 0.198712999 | 0.24431514 | 0.362 | 1 | 54942 | C9orf6 |
| 0.198712999 | 0.24431514 | 0.325 | 1 | 55214 | LEPREL1 |
| 0.198712999 | 0.24431514 | 0.324 | 1 | 79169 | C1orf35 |
| 0.198712999 | 0.24431514 | 0.372 | 1 | 80114 | BICC1 |
| 0.198712999 | 0.24431514 | 0.307 | 1 | 92482 | BBIP1 |
| 0.198455598 | 0.244936318 | 0.354 | 1 | 84439 | HHIPL1 |
| 0.198198198 | 0.245558566 | 0.356 | 1 | 10291 | SF3A1 |
| 0.198198198 | 0.245558566 | 0.337 | 1 | 126382 | NR2C2AP |
| 0.198198198 | 0.245558566 | 0.329 | 1 | 254958 | REXO1L1 |
| 0.197940798 | 0.246181884 | 0.328 | 1 | 5681 | PSKH1 |
| 0.197940798 | 0.246181884 | 0.369 | 1 | 9071 | CLDN10 |
| 0.197940798 | 0.246181884 | 0.35 | 1 | 287015 | TRIM42 |
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| 0.194337194 | 0.255020951 | 0.371 | 1 | 4595 | MUTYH |
| 0.194337194 | 0.255020951 | 0.38 | 1 | 6819 | SULT1C2 |
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| 0.193822394 | 0.256300864 | 0.378 | 1 | 54583 | EGLN1 |
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| 0.119637385 | 3.1553E-28 | 54881 | TEX10 |
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| 0.119344953 | 4.26301E-28 | 54600 | UGT1A9 |
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| 0.118526362 | 9.85795E-28 | 8812 | CCNK |
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| 0.193307593 | 0.257585081 | 0.364 | 1 | 7298 | TYMS |
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| 0.193307593 | 0.257585081 | 0.383 | 1 | 55624 | POMGNT1 |
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| 0.191763192 | 0.261463585 | 0.356 | 1 | 26025 | PCDHGA12 |
| 0.191763192 | 0.261463585 | 0.358 | 1 | 51105 | PHF20L1 |
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| 0.191505792 | 0.262113775 | 0.322 | 1 | 3383 | ICAM1 |
| 0.191505792 | 0.262113775 | 0.378 | 1 | 7862 | BRPF1 |
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| 0.191248391 | 0.262765044 | 0.35 | 1 | 4953 | ODC1 |
| 0.191248391 | 0.262765044 | 0.327 | 1 | 6879 | TAF7 |
| 0.191248391 | 0.262765044 | 0.351 | 1 | 10404 | AP003117.1 |
| 0.191248391 | 0.262765044 | 0.366 | 1 | 80758 | PRR7 |
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| 0.191248391 | 0.262765044 | 0.376 | 1 | 158798 | AKAP14 |
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| 0.190990991 | 0.263417392 | 0.36 | 1 | 55066 | PDPR |
| 0.190733591 | 0.264070819 | 0.363 | 1 | 83746 | L3MBTL2 |
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| 0.190733591 | 0.264070819 | 0.405 | 1 | 399671 | HEATR4 |
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| 0.19047619 | 0.264725326 | 0.369 | 1 | 7412 | VCAM1 |
| 0.19047619 | 0.264725326 | 0.364 | 1 | 9619 | ABCG1 |
| 0.19047619 | 0.264725326 | 0.371 | 1 | 84952 | CGNL1 |
| 0.19047619 | 0.264725326 | 0.381 | 1 | 85437 | ZCRB1 |
| 0.19047619 | 0.264725326 | 0.383 | 1 | 85459 | KIAA1731 |
| 0.19047619 | 0.264725326 | 0.373 | 1 | 340351 | AGBL3 |
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| 0.18996139 | 0.266037578 | 0.35 | 1 | 79844 | ZDHHC11 |
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| 0.18970399 | 0.266695324 | 0.384 | 1 | 55677 | IWS1 |
| 0.18970399 | 0.266695324 | 0.371 | 1 | 159371 | TMEM20 |
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| 0.189189189 | 0.268014058 | 0.329 | 1 | 51367 | POP5 |
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| 0.188931789 | 0.268675046 | 0.361 | 1 | 64965 | MRPS9 |
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| 0.117092258 | 4.22177E-27 | 474382 | H2AFB1 |
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| 0.115494493 | 2.08996E-26 | 3656 | IRAK2 |
| 0.115475306 | 2.1302E-26 | 22895 | RPH3A |
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| 0.115395813 | 2.30528E-26 | 23316 | CUX2 |
| 0.115382977 | 2.33486E-26 | 4087 | SMAD2 |
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| 0.105507832 | 2.77998E-22 | 54928 | IMPAD1 |
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| 0.103144556 | 2.31834E-21 | 4284 | MIP |
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| 0.174259974 | 0.308142942 | 0.4 | 1 | 59343 | SENP2 |
| 0.174259974 | 0.308142942 | 0.387 | 1 | 401505 | TOMM5 |
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| 0.168597169 | 0.324319429 | 0.422 | 1 | 785 | CACNB4 |
| 0.168597169 | 0.324319429 | 0.422 | 1 | 2297 | RP11-79P5.6 |
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| 0.166795367 | 0.329576547 | 0.441 | 1 | 55337 | C19orf66 |
| 0.166795367 | 0.329576547 | 0.41 | 1 | 84060 | C7orf64 |
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| 0.166537967 | 0.330331895 | 0.454 | 1 | 205 | AK3L1 |
| 0.166537967 | 0.330331895 | 0.432 | 1 | 4923 | NTSR1 |
| 0.166537967 | 0.330331895 | 0.436 | 1 | 6938 | TCF12 |
| 0.166537967 | 0.330331895 | 0.421 | 1 | 8241 | RBM10 |
| 0.166537967 | 0.330331895 | 0.433 | 1 | 11107 | PRDM5 |
| 0.166537967 | 0.330331895 | 0.42 | 1 | 27233 | SULT1C4 |
| 0.166537967 | 0.330331895 | 0.435 | 1 | 64783 | RBM15 |
| 0.166537967 | 0.330331895 | 0.402 | 1 | 79363 | C1orf89 |
| 0.166537967 | 0.330331895 | 0.461 | 1 | 339327 | ZNF546 |
| 0.166537967 | 0.330331895 | 0.434 | 1 | 729920 | ISPD |
| 0.166537967 | 0.330331895 | 0.407 | 1 | 100132288 | TEKT4P2 |
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| 0.098931655 | 9.0261E-20 | 9700 | ESPL1 |
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| 0.098862235 | 9.57527E-20 | 342541 | LOC342541 |
| 0.098759811 | 1.04464E-19 | 57121 | LPAR5 |
| 0.098741866 | 1.06068E-19 | 117178 | SSX2IP |
| 0.098708667 | 1.09102E-19 | 905 | CCNT2 |
| 0.098662968 | 1.13418E-19 | 347468 | OR13H1 |
| 0.098589613 | 1.20702E-19 | 57691 | KIAA1586 |
| 0.098583918 | 1.21286E-19 | 10808 | HSPH1 |
| 0.098538593 | 1.26038E-19 | 51602 | NOP58 |
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| 0.098429812 | 1.38207E-19 | 1036 | CDO1 |
| 0.098320516 | 1.51601E-19 | 23450 | SF3B3 |
| 0.098195396 | 1.68515E-19 | 83856 | FSD1L |
| 0.098159799 | 1.73658E-19 | 57456 | KIAA1143 |
| 0.098099998 | 1.82651E-19 | 115727 | RASGRP4 |
| 0.098070786 | 1.87209E-19 | 85446 | ZFHX2 |
| 0.097969252 | 2.03945E-19 | 10880 | ACTL7B |
| 0.097887514 | 2.18485E-19 | 8239 | USP9X |
| 0.097830906 | 2.2915E-19 | 51366 | UBR5 |
| 0.097748829 | 2.45532E-19 | 653505 | PPIAL4B |
| 0.097729963 | 2.49459E-19 | 29960 | FTSJ2 |
| 0.097722735 | 2.50979E-19 | 157574 | FBXO16 |
| 0.097715897 | 2.52426E-19 | 2877 | GPX2 |
| 0.09769941 | 2.55949E-19 | 56180 | MOSPD1 |
| 0.09758122 | 2.82665E-19 | 10643 | IGF2BP3 |
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| 0.0974685 | 3.10704E-19 | 221711 | SYCP2L |
| 0.09745753 | 3.13576E-19 | 1240 | CMKLR1 |
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| 0.097178843 | 3.95987E-19 | 24141 | C20orf103 |
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| 0.097014297 | 4.54338E-19 | 94009 | SERHL |
| 0.096982685 | 4.66484E-19 | 220992 | ZNF485 |
| 0.096975802 | 4.69171E-19 | 4606 | MYBPC2 |
| 0.09687538 | 5.10153E-19 | 6448 | SGSH |
| 0.096791552 | 5.47056E-19 | 51428 | DDX41 |
| 0.096713323 | 5.83866E-19 | 9831 | ZNF623 |
| 0.0967067 | 5.87092E-19 | 5009 | OTC |
| 0.096672403 | 6.04085E-19 | 79699 | ZYG11B |
| 0.096665227 | 6.07701E-19 | 91319 | DERL3 |
| 0.096627448 | 6.27095E-19 | 57619 | SHROOM3 |
| 0.096533881 | 6.77798E-19 | 130576 | LYPD6B |
| 0.09650836 | 6.92316E-19 | 149069 | DCDC2B |
| 0.096457026 | 7.22456E-19 | 285600 | C5orf36 |
| 0.096400366 | 7.5723E-19 | 84449 | ZNF333 |
| 0.096386524 | 7.65973E-19 | 901 | CCNG2 |
| 0.096373957 | 7.73997E-19 | 26230 | TIAM2 |
| 0.096232219 | 8.70451E-19 | 29800 | ZDHHC1 |
| 0.096188835 | 9.0228E-19 | 55280 | CWF19L1 |
| 0.096137599 | 9.41352E-19 | 9140 | ATG12 |
| 0.096131608 | 9.46029E-19 | 25834 | MGAT4C |
| 0.096122728 | 9.53003E-19 | 140576 | S100A16 |
| 0.096119325 | 9.55688E-19 | 58 | ACTA1 |
| 0.096068522 | 9.96686E-19 | 80184 | CEP290 |
| 0.09605158 | 1.01074E-18 | 9562 | MINPP1 |
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| 0.095913725 | 1.13262E-18 | 55300 | PI4K2B |
| 0.095870733 | 1.17351E-18 | 285180 | RUFY4 |
| 0.095852003 | 1.19179E-18 | 55620 | STAP2 |
| 0.095788716 | 1.25562E-18 | 349334 | FOXD4L4 |
| 0.095778118 | 1.26664E-18 | 200172 | SLFNL1 |
| 0.095757627 | 1.28821E-18 | 23177 | CEP68 |
| 0.095700636 | 1.35012E-18 | 55970 | GNG12 |
| 0.095691036 | 1.36083E-18 | 9091 | PIGQ |
| 0.095596384 | 1.47107E-18 | 646643 | SBK2 |
| 0.09553056 | 1.55289E-18 | 128372 | OR6N1 |
| 0.09552682 | 1.55767E-18 | 257397 | MAP3K7IP3 |
| 0.095515319 | 1.57246E-18 | 10811 | NOXA1 |
| 0.095481488 | 1.61679E-18 | 728 | C5AR1 |
| 0.095461493 | 1.64357E-18 | 84465 | MEGF11 |
| 0.095403517 | 1.7237E-18 | 768206 | PRCD |
| 0.095338789 | 1.81774E-18 | 392391 | OR5C1 |
| 0.095267462 | 1.92723E-18 | 134510 | UBLCP1 |
| 0.095263013 | 1.93427E-18 | 256148 | OR4S1 |
| 0.09512503 | 2.16572E-18 | 199882 | LOC199882 |
| 0.095086805 | 2.23454E-18 | 100049587 | SIGLEC14 |
| 0.094956722 | 2.48531E-18 | 688 | KLF5 |
| 0.094840486 | 2.73276E-18 | 347088 | GPR144 |
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| 0.166280566 | 0.331088325 | 0.445 | 1 | 137362 | GOT1L1 |
| 0.166280566 | 0.331088325 | 0.44 | 1 | 138050 | HGSNAT |
| 0.166023166 | 0.331845838 | 0.409 | 1 | 2887 | GRB10 |
| 0.165765766 | 0.332604432 | 0.431 | 1 | 1490 | CTGF |
| 0.165765766 | 0.332604432 | 0.462 | 1 | 23450 | SF3B3 |
| 0.165508366 | 0.333364108 | 0.395 | 1 | 2209 | FCGR1A |
| 0.165508366 | 0.333364108 | 0.44 | 1 | 2275 | FHL3 |
| 0.165508366 | 0.333364108 | 0.416 | 1 | 6373 | CXCL11 |
| 0.165508366 | 0.333364108 | 0.457 | 1 | 7553 | ZNF7 |
| 0.165508366 | 0.333364108 | 0.436 | 1 | 79603 | LASS4 |
| 0.165508366 | 0.333364108 | 0.423 | 1 | 79682 | MLF1IP |
| 0.165508366 | 0.333364108 | 0.424 | 1 | 83464 | APH1B |
| 0.165250965 | 0.334124866 | 0.444 | 1 | 26469 | PTPN18 |
| 0.165250965 | 0.334124866 | 0.445 | 1 | 54554 | WDR5B |
| 0.165250965 | 0.334124866 | 0.417 | 1 | 84668 | FAM126A |
| 0.165250965 | 0.334124866 | 0.442 | 1 | 85235 | HIST1H2AH |
| 0.164993565 | 0.334886704 | 0.462 | 1 | 317 | APAF1 |
| 0.164993565 | 0.334886704 | 0.441 | 1 | 9686 | VGLL4 |
| 0.164993565 | 0.334886704 | 0.41 | 1 | 84520 | C14orf142 |
| 0.164736165 | 0.335649624 | 0.451 | 1 | 2259 | FGF14 |
| 0.164736165 | 0.335649624 | 0.45 | 1 | 6880 | TAF9 |
| 0.164736165 | 0.335649624 | 0.424 | 1 | 54072 | LINC00158 |
| 0.164736165 | 0.335649624 | 0.426 | 1 | 64376 | IKZF5 |
| 0.164736165 | 0.335649624 | 0.45 | 1 | 137682 | C8orf38 |
| 0.164736165 | 0.335649624 | 0.471 | 1 | 375790 | AGRN |
| 0.164478764 | 0.336413625 | 0.441 | 1 | 7696 | ZNF137P |
| 0.164478764 | 0.336413625 | 0.436 | 1 | 11102 | RPP14 |
| 0.164478764 | 0.336413625 | 0.44 | 1 | 11143 | MYST2 |
| 0.164478764 | 0.336413625 | 0.459 | 1 | 54993 | ZSCAN2 |
| 0.164478764 | 0.336413625 | 0.43 | 1 | 55559 | HAUS7 |
| 0.164478764 | 0.336413625 | 0.443 | 1 | 80034 | CSRNP3 |
| 0.164478764 | 0.336413625 | 0.459 | 1 | 339403 | RXFP4 |
| 0.164221364 | 0.337178706 | 0.428 | 1 | 307 | ANXA4 |
| 0.164221364 | 0.337178706 | 0.427 | 1 | 5978 | REST |
| 0.164221364 | 0.337178706 | 0.423 | 1 | 54977 | SLC25A38 |
| 0.164221364 | 0.337178706 | 0.419 | 1 | 221400 | TDRD6 |
| 0.163963964 | 0.337944867 | 0.43 | 1 | 5333 | PLCD1 |
| 0.163963964 | 0.337944867 | 0.439 | 1 | 7695 | ZNF136 |
| 0.163706564 | 0.338712109 | 0.417 | 1 | 10049 | DNAJB6 |
| 0.163706564 | 0.338712109 | 0.454 | 1 | 51657 | STYXL1 |
| 0.163706564 | 0.338712109 | 0.419 | 1 | 441543 | TTTY6B |
| 0.163449163 | 0.33948043 | 0.444 | 1 | 4199 | ME1 |
| 0.163449163 | 0.33948043 | 0.453 | 1 | 7518 | XRCC4 |
| 0.163449163 | 0.33948043 | 0.458 | 1 | 8909 | AC004241.1 |
| 0.163449163 | 0.33948043 | 0.463 | 1 | 9495 | AKAP5 |
| 0.163449163 | 0.33948043 | 0.459 | 1 | 9905 | SGSM2 |
| 0.163449163 | 0.33948043 | 0.424 | 1 | 10972 | TMED10 |
| 0.163449163 | 0.33948043 | 0.435 | 1 | 22978 | NT5C2 |
| 0.163449163 | 0.33948043 | 0.43 | 1 | 391322 | LOC391322 |
| 0.163449163 | 0.33948043 | 0.449 | 1 | 442523 | DPY19L2P4 |
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| 0.162934363 | 0.341020311 | 0.457 | 1 | 9406 | ZRANB2 |
| 0.162934363 | 0.341020311 | 0.437 | 1 | 9792 | SERTAD2 |
| 0.162934363 | 0.341020311 | 0.469 | 1 | 10806 | SDCCAG8 |
| 0.162934363 | 0.341020311 | 0.44 | 1 | 51706 | CYB5R1 |
| 0.162934363 | 0.341020311 | 0.431 | 1 | 90378 | SAMD1 |
| 0.162934363 | 0.341020311 | 0.433 | 1 | 118812 | MORN4 |
| 0.162934363 | 0.341020311 | 0.422 | 1 | 140460 | ASB7 |
| 0.162676963 | 0.341791871 | 0.444 | 1 | 8425 | LTBP4 |
| 0.162676963 | 0.341791871 | 0.453 | 1 | 116236 | ABHD15 |
| 0.162419562 | 0.342564509 | 0.421 | 1 | 5713 | PSMD7 |
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| 0.162419562 | 0.342564509 | 0.436 | 1 | 57020 | C16orf62 |
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| 0.161904762 | 0.344113021 | 0.451 | 1 | 4175 | MCM6 |
| 0.161904762 | 0.344113021 | 0.441 | 1 | 7772 | ZNF229 |
| 0.161904762 | 0.344113021 | 0.446 | 1 | 9420 | CYP7B1 |
| 0.161904762 | 0.344113021 | 0.471 | 1 | 29841 | GRHL1 |
| 0.161904762 | 0.344113021 | 0.442 | 1 | 55568 | GALNT10 |
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| 0.161647362 | 0.344888894 | 0.427 | 1 | 2151 | F2RL2 |
| 0.161647362 | 0.344888894 | 0.439 | 1 | 2306 | FOXD2 |
| 0.161647362 | 0.344888894 | 0.45 | 1 | 26224 | FBXL3 |
| 0.161647362 | 0.344888894 | 0.472 | 1 | 84851 | TRIM52 |
| 0.161647362 | 0.344888894 | 0.424 | 1 | 441250 | TYW1B |
| 0.161389961 | 0.345665844 | 0.438 | 1 | 4809 | NHP2L1 |
| 0.161389961 | 0.345665844 | 0.401 | 1 | 6119 | RPA3 |
| 0.161132561 | 0.346443873 | 0.449 | 1 | 1910 | EDNRB |
| 0.161132561 | 0.346443873 | 0.421 | 1 | 25876 | SPEF1 |
| 0.161132561 | 0.346443873 | 0.432 | 1 | 64743 | WDR13 |

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| 0.094459005 | 3.72852E-18 | 6367 | CCL22 |
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| 0.094354564 | 4.05868E-18 | 3175 | ONECUT1 |
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| 0.094152954 | 4.7797E-18 | 51304 | ZDHHC3 |
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| 0.094099805 | 4.98996E-18 | 3835 | KIF22 |
| 0.094062377 | 5.14348E-18 | 164284 | APCDD1L |
| 0.094042729 | 5.22593E-18 | 140730 | RIMS4 |
| 0.094041311 | 5.23193E-18 | 50832 | TAS2R4 |
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| 0.093834906 | 6.18195E-18 | 9456 | HOMER1 |
| 0.093822922 | 6.24205E-18 | 344905 | ATP13A5 |
| 0.093790475 | 6.40771E-18 | 114783 | LMTK3 |
| 0.09374485 | 6.64801E-18 | 219771 | CCNY |
| 0.093620777 | 7.34739E-18 | 375035 | SFT2D2 |
| 0.093592401 | 7.51727E-18 | 54522 | ANKRD16 |
| 0.093552683 | 7.76159E-18 | 1159 | CKMT1B |
| 0.093538553 | 7.85038E-18 | 55812 | SPATA7 |
| 0.093486888 | 8.18366E-18 | 59283 | CACNG8 |
| 0.093436341 | 8.52322E-18 | 3199 | HOXA2 |
| 0.09333486 | 9.24747E-18 | 2251 | FGF6 |
| 0.09316314 | 1.06138E-17 | 43849 | KLK12 |
| 0.093155116 | 1.06823E-17 | 3577 | IL8RA |
| 0.0930533 | 1.15903E-17 | 5607 | MAP2K5 |
| 0.092992813 | 1.21654E-17 | 51275 | C12ORF47 |
| 0.092956315 | 1.25259E-17 | 100268168 | AC008429.1 |
| 0.092934405 | 1.27473E-17 | 284021 | MILR1 |
| 0.092859584 | 1.35331E-17 | 23125 | CAMTA2 |
| 0.092830782 | 1.38482E-17 | 7286 | TUFT1 |
| 0.092812401 | 1.4053E-17 | 9371 | KIF3B |
| 0.092776176 | 1.44655E-17 | 4976 | OPA1 |
| 0.092768816 | 1.45508E-17 | 165100 | C2orf57 |
| 0.092601089 | 1.66338E-17 | 22797 | TFEC |
| 0.092545009 | 1.73938E-17 | 57478 | USP31 |
| 0.092526838 | 1.76474E-17 | 147199 | SCGB1C1 |
| 0.09251527 | 1.78107E-17 | 54529 | ASNSD1 |
| 0.092401508 | 1.94983E-17 | 5799 | PTPRN2 |
| 0.092401335 | 1.95009E-17 | 644 | BLVRA |
| 0.092292248 | 2.12672E-17 | 55215 | FANCI |
| 0.092289657 | 2.1311E-17 | 157627 | RP11-403C10.2 |
| 0.092228858 | 2.23651E-17 | 11283 | CYP4F8 |
| 0.092162249 | 2.3579E-17 | 56850 | GRIPAP1 |
| 0.092073613 | 2.52955E-17 | 1973 | EIF4A1 |
| 0.092057579 | 2.5619E-17 | 23332 | CLASP1 |
| 0.091997513 | 2.68673E-17 | 256714 | MAP7D2 |
| 0.091863016 | 2.98842E-17 | 255349 | TMEM211 |
| 0.091846805 | 3.02697E-17 | 442249 | LOC442249 |
| 0.091833735 | 3.0584E-17 | 2617 | GARS |
| 0.091796412 | 3.14996E-17 | 390616 | ANKRD34C |
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| 0.091677499 | 3.46004E-17 | 1729 | DIAPH1 |
| 0.091676575 | 3.46257E-17 | 90678 | LRSAM1 |
| 0.091649249 | 3.53803E-17 | 399979 | SNX19 |
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| 0.091548692 | 3.82994E-17 | 441818 | WBP11P1 |
| 0.091533688 | 3.87549E-17 | 6722 | SRF |
| 0.091495646 | 3.99338E-17 | 1945 | EFNA4 |
| 0.091390997 | 4.33623E-17 | 9315 | C5orf13 |
| 0.091385002 | 4.35673E-17 | 1364 | CLDN4 |
| 0.091339874 | 4.51412E-17 | 8266 | UBL4A |
| 0.091313531 | 4.60857E-17 | 4968 | OGG1 |
| 0.091296028 | 4.67241E-17 | 30012 | TLX3 |
| 0.091241122 | 4.87836E-17 | 83446 | CCDC70 |
| 0.091240195 | 4.88191E-17 | 390201 | OR10V1 |
| 0.091167011 | 5.17061E-17 | 26150 | RIBC2 |
| 0.091117116 | 5.37701E-17 | 100289274 | DNAJC3-AS1 |
| 0.091104439 | 5.43074E-17 | 2255 | FGF10 |
| 0.091021718 | 5.79454E-17 | 10527 | IPO7 |
| 0.091015897 | 5.82103E-17 | 146850 | PIK3R6 |
| 0.090670918 | 7.62355E-17 | 54977 | SLC25A38 |
| 0.090636876 | 7.82879E-17 | 7399 | USH2A |
| 0.090508429 | 8.65342E-17 | 11120 | BTN2A1 |

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| 0.161132561 | 0.346443873 | 0.442 | 1 | 440400 | RNASEK |
| 0.160875161 | 0.347222978 | 0.435 | 1 | 43 | ACHE |
| 0.160875161 | 0.347222978 | 0.43 | 1 | 118 | ADD1 |
| 0.160875161 | 0.347222978 | 0.42 | 1 | 10163 | WASF2 |
| 0.160875161 | 0.347222978 | 0.438 | 1 | 23111 | SPG20 |
| 0.160875161 | 0.347222978 | 0.439 | 1 | 51186 | WBP5 |
| 0.160875161 | 0.347222978 | 0.447 | 1 | 55230 | USP40 |
| 0.160875161 | 0.347222978 | 0.461 | 1 | 79701 | C17orf101 |
| 0.160875161 | 0.347222978 | 0.459 | 1 | 83640 | FAM103A1 |
| 0.160875161 | 0.347222978 | 0.438 | 1 | 145773 | FAM81A |
| 0.160875161 | 0.347222978 | 0.457 | 1 | 345462 | ZNF879 |
| 0.160875161 | 0.347222978 | 0.444 | 1 | 401466 | C8orf59 |
| 0.16036036 | 0.348784418 | 0.465 | 1 | 5423 | POLB |
| 0.16036036 | 0.348784418 | 0.437 | 1 | 5906 | RAP1A |
| 0.16036036 | 0.348784418 | 0.462 | 1 | 9669 | EIF5B |
| 0.16036036 | 0.348784418 | 0.442 | 1 | 254102 | EHBP1L1 |
| 0.16010296 | 0.349566753 | 0.429 | 1 | 80306 | MED28 |
| 0.15984556 | 0.350350164 | 0.463 | 1 | 11275 | KLHL2 |
| 0.15984556 | 0.350350164 | 0.401 | 1 | 54880 | BCOR |
| 0.15984556 | 0.350350164 | 0.424 | 1 | 57149 | LYRM1 |
| 0.15984556 | 0.350350164 | 0.456 | 1 | 161742 | SPRED1 |
| 0.15958816 | 0.35113465 | 0.444 | 1 | 1603 | DAD1 |
| 0.15958816 | 0.35113465 | 0.459 | 1 | 2109 | ETFB |
| 0.15958816 | 0.35113465 | 0.437 | 1 | 2287 | FKBP3 |
| 0.15958816 | 0.35113465 | 0.446 | 1 | 2820 | GPD2 |
| 0.15958816 | 0.35113465 | 0.447 | 1 | 4117 | MAK |
| 0.15958816 | 0.35113465 | 0.45 | 1 | 11243 | PMF1 |
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| 0.153925354 | 0.368664749 | 0.466 | 1 | 788 | SLC25A20 |
| 0.153925354 | 0.368664749 | 0.464 | 1 | 4664 | NAB1 |
| 0.153925354 | 0.368664749 | 0.488 | 1 | 50624 | CUZD1 |
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| 0.083182207 | 2.07534E-14 | 55714 | ODZ3 |
| 0.083026075 | 2.3209E-14 | 55722 | CEP72 |
| 0.082998354 | 2.36739E-14 | 57665 | RDH14 |
| 0.082917634 | 2.50805E-14 | 5127 | PCTK1 |
| 0.082903323 | 2.53383E-14 | 56479 | KCNQ5 |
| 0.082892996 | 2.5526E-14 | 2071 | ERCC3 |
| 0.082811743 | 2.70509E-14 | 57717 | PCDHB16 |
| 0.082306043 | 3.87681E-14 | 55604 | LRRC16A |
| 0.082191492 | 4.20482E-14 | 9231 | DLG5 |

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| 0.150836551 | 0.378444513 | 0.497 | 1 | 8650 | NUMB |
| 0.150836551 | 0.378444513 | 0.467 | 1 | 9682 | KDM4A |
| 0.150836551 | 0.378444513 | 0.515 | 1 | 285622 | NBPF22P |
| 0.150579151 | 0.379266402 | 0.476 | 1 | 4901 | NRL |
| 0.150579151 | 0.379266402 | 0.482 | 1 | 7716 | VEZF1 |
| 0.150579151 | 0.379266402 | 0.453 | 1 | 56915 | EXOSC5 |
| 0.150579151 | 0.379266402 | 0.491 | 1 | 90417 | C15orf23 |
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| 0.15032175 | 0.380089352 | 0.439 | 1 | 4851 | NOTCH1 |
| 0.15032175 | 0.380089352 | 0.464 | 1 | 8334 | HIST1H2AC |
| 0.15032175 | 0.380089352 | 0.469 | 1 | 9532 | BAG2 |
| 0.15032175 | 0.380089352 | 0.489 | 1 | 134492 | NUDCD2 |
| 0.15032175 | 0.380089352 | 0.487 | 1 | 200844 | C3orf67 |
| 0.15032175 | 0.380089352 | 0.48 | 1 | 646960 | PRSS56 |
| 0.15006435 | 0.380913362 | 0.466 | 1 | 9021 | SOCS3 |
| 0.14980695 | 0.381738431 | 0.492 | 1 | 712 | C1QA |
| 0.14980695 | 0.381738431 | 0.493 | 1 | 5995 | RGR |
| 0.14980695 | 0.381738431 | 0.489 | 1 | 7050 | TGIF1 |
| 0.14980695 | 0.381738431 | 0.484 | 1 | 57096 | RPGRIP1 |
| 0.14980695 | 0.381738431 | 0.495 | 1 | 64091 | POPDC2 |
| 0.14980695 | 0.381738431 | 0.497 | 1 | 285533 | RNF175 |
| 0.14954955 | 0.38256456 | 0.493 | 1 | 7726 | TRIM26 |
| 0.14954955 | 0.38256456 | 0.493 | 1 | 9772 | KIAA0195 |
| 0.14954955 | 0.38256456 | 0.455 | 1 | 10594 | PRPF8 |
| 0.14954955 | 0.38256456 | 0.432 | 1 | 83666 | PARP9 |
| 0.14954955 | 0.38256456 | 0.445 | 1 | 219654 | ZCCHC24 |
| 0.149292149 | 0.383391747 | 0.484 | 1 | 2176 | FANCC |
| 0.149292149 | 0.383391747 | 0.456 | 1 | 7923 | HSD17B8 |
| 0.149292149 | 0.383391747 | 0.506 | 1 | 11041 | AP001107.1 |
| 0.149292149 | 0.383391747 | 0.47 | 1 | 22904 | SBNO2 |
| 0.149292149 | 0.383391747 | 0.5 | 1 | 22943 | DKK1 |
| 0.149034749 | 0.384219992 | 0.465 | 1 | 6687 | SPG7 |
| 0.149034749 | 0.384219992 | 0.482 | 1 | 51023 | MRPS18C |
| 0.149034749 | 0.384219992 | 0.442 | 1 | 55270 | NUDT15 |
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| 0.148519949 | 0.385879655 | 0.484 | 1 | 23629 | BRD7P3 |
| 0.148519949 | 0.385879655 | 0.483 | 1 | 113402 | SFT2D1 |
| 0.148519949 | 0.385879655 | 0.476 | 1 | 114788 | CSMD3 |
| 0.148262548 | 0.386711071 | 0.466 | 1 | 224 | ALDH3A2 |
| 0.148262548 | 0.386711071 | 0.484 | 1 | 23015 | GOLGA8A |
| 0.148005148 | 0.387543543 | 0.475 | 1 | 79029 | SPATA5L1 |
| 0.148005148 | 0.387543543 | 0.5 | 1 | 79066 | METTL16 |
| 0.148005148 | 0.387543543 | 0.477 | 1 | 90313 | TP53I13 |
| 0.148005148 | 0.387543543 | 0.481 | 1 | 284697 | BTBD8 |
| 0.147747748 | 0.38837707 | 0.491 | 1 | 617 | BCS1L |
| 0.147747748 | 0.38837707 | 0.449 | 1 | 25925 | ZNF521 |
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| 0.147747748 | 0.38837707 | 0.462 | 1 | 130916 | MTERFD2 |
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| 0.147490347 | 0.389211652 | 0.481 | 1 | 116113 | FOXP4 |
| 0.147232947 | 0.390047288 | 0.538 | 1 | 5579 | PRKCB |
| 0.147232947 | 0.390047288 | 0.482 | 1 | 22977 | AKR7A3 |
| 0.147232947 | 0.390047288 | 0.494 | 1 | 25862 | USP49 |
| 0.147232947 | 0.390047288 | 0.463 | 1 | 55167 | MSL2 |
| 0.147232947 | 0.390047288 | 0.487 | 1 | 56252 | YLPM1 |
| 0.147232947 | 0.390047288 | 0.5 | 1 | 79027 | ZNF655 |
| 0.146975547 | 0.390883977 | 0.474 | 1 | 3141 | HLCS |
| 0.146975547 | 0.390883977 | 0.499 | 1 | 64755 | C16orf58 |
| 0.146975547 | 0.390883977 | 0.483 | 1 | 66002 | CYP4F12 |
| 0.146975547 | 0.390883977 | 0.479 | 1 | 112703 | FAM71E1 |
| 0.146975547 | 0.390883977 | 0.493 | 1 | 284233 | CYP4F35P |
| 0.146718147 | 0.39172172 | 0.489 | 1 | 26574 | AATF |
| 0.146718147 | 0.39172172 | 0.518 | 1 | 57473 | ZNF512B |
| 0.146718147 | 0.39172172 | 0.503 | 1 | 347744 | C6orf52 |
| 0.146460746 | 0.392560515 | 0.479 | 1 | 1514 | CTSL1 |
| 0.146460746 | 0.392560515 | 0.486 | 1 | 4501 | MT1X |
| 0.146460746 | 0.392560515 | 0.492 | 1 | 10424 | PGRMC2 |
| 0.146460746 | 0.392560515 | 0.474 | 1 | 22982 | DIP2C |
| 0.146460746 | 0.392560515 | 0.492 | 1 | 55794 | DDX28 |
| 0.146460746 | 0.392560515 | 0.49 | 1 | 90204 | ZSWIM1 |
| 0.146460746 | 0.392560515 | 0.477 | 1 | 388743 | CAPN8 |
| 0.146203346 | 0.393400362 | 0.52 | 1 | 1295 | COL8A1 |
| 0.146203346 | 0.393400362 | 0.452 | 1 | 3572 | IL6ST |
| 0.146203346 | 0.393400362 | 0.511 | 1 | 6876 | TAGLN |
| 0.146203346 | 0.393400362 | 0.513 | 1 | 10067 | SCAMP3 |
| 0.146203346 | 0.393400362 | 0.458 | 1 | 57085 | AGTRAP |
| 0.146203346 | 0.393400362 | 0.486 | 1 | 388272 | C16orf87 |
| 0.145945946 | 0.39424126 | 0.454 | 1 | 8763 | CD164 |

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| 0.082175607 | 4.2524E-14 | 9058 | SLC13A2 |
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| 0.08208365 | 4.53847E-14 | 10988 | METAP2 |
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| 0.081943371 | 5.01168E-14 | 78998 | C8ORF51 |
| 0.081930508 | 5.05742E-14 | 81855 | SFXN3 |
| 0.081916887 | 5.10631E-14 | 344405 | NCRNA00117 |
| 0.081881106 | 5.23696E-14 | 4063 | LY9 |
| 0.081868838 | 5.2825E-14 | 2299 | FOXI1 |
| 0.081787824 | 5.5932E-14 | 53346 | TM6SF1 |
| 0.081737253 | 5.79619E-14 | 314 | AOC2 |
| 0.081731993 | 5.81771E-14 | 26521 | TIMM8B |
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| 0.081634193 | 6.23252E-14 | 9973 | CCS |
| 0.081616801 | 6.30927E-14 | 220594 | AC107983.3 |
| 0.081578851 | 6.47999E-14 | 4608 | MYBPH |
| 0.081529416 | 6.70919E-14 | 116 | ADCYAP1 |
| 0.081455604 | 7.06632E-14 | 200810 | ALG1L |
| 0.081356549 | 7.57509E-14 | 3984 | LIMK1 |
| 0.081327901 | 7.72884E-14 | 10180 | RBM6 |
| 0.081297045 | 7.89786E-14 | 317662 | FAM149B1 |
| 0.081177576 | 8.58722E-14 | 79018 | C17orf39 |
| 0.081167718 | 8.64668E-14 | 11116 | FGFR1OP |
| 0.081118241 | 8.95124E-14 | 170463 | SSBP4 |
| 0.081101601 | 9.05602E-14 | 23509 | POFUT1 |
| 0.081065835 | 9.28533E-14 | 23363 | OBSL1 |
| 0.080991438 | 9.78077E-14 | 25843 | MOBKL3 |
| 0.080973345 | 9.90513E-14 | 55425 | KIAA1704 |
| 0.080961517 | 9.98726E-14 | 646508 | AC092070.5 |
| 0.080931026 | 1.02021E-13 | 5627 | PROS1 |
| 0.080907105 | 1.03738E-13 | 642280 | ZNF876P |
| 0.080873349 | 1.0621E-13 | 4709 | NDUFB3 |
| 0.080862611 | 1.07008E-13 | 84067 | FAM160A2 |
| 0.080695425 | 1.20225E-13 | 648987 | AC008875.1 |
| 0.080681482 | 1.21397E-13 | 128864 | C20orf144 |
| 0.080674003 | 1.2203E-13 | 27199 | OXGR1 |
| 0.080636778 | 1.25231E-13 | 254048 | UBN2 |
| 0.080635353 | 1.25355E-13 | 283248 | RCOR2 |
| 0.08063026 | 1.258E-13 | 57016 | AKR1B10 |
| 0.08054668 | 1.33324E-13 | 1612 | DAPK1 |
| 0.08052601 | 1.35251E-13 | 115399 | LRRC56 |
| 0.08051207 | 1.36567E-13 | 84885 | ZDHHC12 |
| 0.08048456 | 1.392E-13 | 146 | ADRA1D |
| 0.080290556 | 1.5924E-13 | 728833 | FAM72D |
| 0.080033158 | 1.90257E-13 | 9392 | TGFBRAP1 |
| 0.07989761 | 2.08902E-13 | 4049 | LTA |
| 0.079833556 | 2.18326E-13 | 23075 | SWAP70 |
| 0.079693628 | 2.4039E-13 | 53944 | CSNK1G1 |
| 0.079627973 | 2.51483E-13 | 23564 | DDAH2 |
| 0.07962412 | 2.5215E-13 | 400752 | LOC400752 |
| 0.079434545 | 2.87172E-13 | 118472 | ZNF511 |
| 0.079353795 | 3.03501E-13 | 647309 | RP11-332P22.1 |
| 0.079345704 | 3.05187E-13 | 151306 | GPBAR1 |
| 0.079238234 | 3.28467E-13 | 30010 | NXPH1 |
| 0.079176525 | 3.42614E-13 | 8882 | ZNF259 |
| 0.079108571 | 3.58885E-13 | 10159 | ATP6AP2 |
| 0.079081563 | 3.6556E-13 | 7419 | VDAC3 |
| 0.079059861 | 3.71013E-13 | 116068 | AC027323.1 |
| 0.079020174 | 3.81191E-13 | 6571 | SLC18A2 |
| 0.079013707 | 3.82875E-13 | 55720 | TSR1 |
| 0.079005874 | 3.84925E-13 | 55852 | TEX2 |
| 0.07896433 | 3.95977E-13 | 11122 | PTPRT |
| 0.078803844 | 4.41679E-13 | 138802 | OR13C8 |
| 0.078800324 | 4.42737E-13 | 100129583 | FAM47E |
| 0.078731386 | 4.63973E-13 | 148213 | ZNF681 |
| 0.078710889 | 4.70478E-13 | 54957 | TXNL4B |
| 0.078709403 | 4.70953E-13 | 2719 | GPC3 |
| 0.078616861 | 5.01483E-13 | 91683 | SYT12 |
| 0.078588264 | 5.11304E-13 | 84973 | SNHG7 |
| 0.07853975 | 5.28399E-13 | 23562 | CLDN14 |
| 0.078529174 | 5.322E-13 | 23030 | KDM4B |
| 0.078490445 | 5.46348E-13 | 134548 | ANKRD43 |
| 0.078460547 | 5.57521E-13 | 55345 | C4orf21 |
| 0.078393119 | 5.83551E-13 | 51333 | ZNF771 |
| 0.078385713 | 5.86482E-13 | 124538 | OR4D2 |
| 0.078263967 | 6.36782E-13 | 63891 | RNF123 |
| 0.07816927 | 6.78813E-13 | 89872 | AQP10 |
| 0.078155128 | 6.85319E-13 | 1852 | DUSP9 |
| 0.077963147 | 7.79935E-13 | 166647 | GPR125 |
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| 0.145945946 | 0.39424126 | 0.48 | 1 | 29106 | SCG3 |
| 0.145945946 | 0.39424126 | 0.517 | 1 | 50507 | NOX4 |
| 0.145945946 | 0.39424126 | 0.509 | 1 | 57037 | ANKMY2 |
| 0.145688546 | 0.395083209 | 0.479 | 1 | 5093 | PCBP1 |
| 0.145688546 | 0.395083209 | 0.485 | 1 | 7913 | DEK |
| 0.145688546 | 0.395083209 | 0.498 | 1 | 26057 | ANKRD17 |
| 0.145431145 | 0.395926208 | 0.455 | 1 | 5495 | PPM1B |
| 0.145431145 | 0.395926208 | 0.49 | 1 | 10482 | NXF1 |
| 0.145431145 | 0.395926208 | 0.471 | 1 | 27131 | SNX5 |
| 0.145173745 | 0.396770256 | 0.464 | 1 | 10365 | KLF2 |
| 0.145173745 | 0.396770256 | 0.509 | 1 | 29065 | ASAP1-IT1 |
| 0.144916345 | 0.397615353 | 0.499 | 1 | 10911 | UTS2 |
| 0.144916345 | 0.397615353 | 0.492 | 1 | 57091 | CASS4 |
| 0.144916345 | 0.397615353 | 0.485 | 1 | 388567 | ZNF749 |
| 0.144658945 | 0.398461499 | 0.518 | 1 | 1627 | DBN1 |
| 0.144658945 | 0.398461499 | 0.464 | 1 | 4800 | NFYA |
| 0.144658945 | 0.398461499 | 0.49 | 1 | 7040 | TGFB1 |
| 0.144658945 | 0.398461499 | 0.488 | 1 | 10284 | SAP18 |
| 0.144401544 | 0.399308691 | 0.501 | 1 | 7771 | ZFP112 |
| 0.144401544 | 0.399308691 | 0.49 | 1 | 30833 | NT5C |
| 0.144401544 | 0.399308691 | 0.453 | 1 | 55435 | C4orf16 |
| 0.144401544 | 0.399308691 | 0.47 | 1 | 59271 | C21orf63 |
| 0.144401544 | 0.399308691 | 0.478 | 1 | 116540 | MRPL53 |
| 0.144144144 | 0.400156931 | 0.485 | 1 | 790 | CAD |
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| 0.144144144 | 0.400156931 | 0.472 | 1 | 7525 | YES1 |
| 0.144144144 | 0.400156931 | 0.49 | 1 | 9416 | DDX23 |
| 0.144144144 | 0.400156931 | 0.493 | 1 | 55181 | C17orf71 |
| 0.144144144 | 0.400156931 | 0.473 | 1 | 114805 | GALNT13 |
| 0.144144144 | 0.400156931 | 0.489 | 1 | 123228 | SENP8 |
| 0.144144144 | 0.400156931 | 0.505 | 1 | 284837 | AP001053.11 |
| 0.143886744 | 0.401006218 | 0.503 | 1 | 54802 | TRIT1 |
| 0.143886744 | 0.401006218 | 0.484 | 1 | 374864 | C18orf34 |
| 0.143629344 | 0.401856549 | 0.512 | 1 | 1059 | CENPB |
| 0.143629344 | 0.401856549 | 0.503 | 1 | 3118 | HLA-DQA2 |
| 0.143629344 | 0.401856549 | 0.496 | 1 | 23152 | CIC |
| 0.143629344 | 0.401856549 | 0.525 | 1 | 23168 | RTF1 |
| 0.143629344 | 0.401856549 | 0.486 | 1 | 56892 | C8orf4 |
| 0.143629344 | 0.401856549 | 0.518 | 1 | 57510 | XPO5 |
| 0.143629344 | 0.401856549 | 0.483 | 1 | 113189 | CHST14 |
| 0.143371943 | 0.402707926 | 0.479 | 1 | 753 | C18orf1 |
| 0.143371943 | 0.402707926 | 0.515 | 1 | 9698 | PUM1 |
| 0.143371943 | 0.402707926 | 0.463 | 1 | 57572 | DOCK6 |
| 0.143371943 | 0.402707926 | 0.52 | 1 | 388341 | C17orf76 |
| 0.143114543 | 0.403560347 | 0.49 | 1 | 9666 | DZIP3 |
| 0.143114543 | 0.403560347 | 0.529 | 1 | 9915 | ARNT2 |
| 0.143114543 | 0.403560347 | 0.501 | 1 | 10903 | MTMR11 |
| 0.143114543 | 0.403560347 | 0.499 | 1 | 285025 | CCDC141 |
| 0.142857143 | 0.404413812 | 0.496 | 1 | 4435 | CITED1 |
| 0.142857143 | 0.404413812 | 0.496 | 1 | 51192 | CKLF |
| 0.142857143 | 0.404413812 | 0.484 | 1 | 152110 | NEK10 |
| 0.142599743 | 0.405268321 | 0.511 | 1 | 10613 | ERLIN1 |
| 0.142599743 | 0.405268321 | 0.505 | 1 | 79670 | ZCCHC6 |
| 0.142599743 | 0.405268321 | 0.518 | 1 | 112479 | ERI2 |
| 0.142599743 | 0.405268321 | 0.514 | 1 | 126306 | JSRP1 |
| 0.142599743 | 0.405268321 | 0.511 | 1 | 200765 | TIGD1 |
| 0.142599743 | 0.405268321 | 0.479 | 1 | 400322 | AC091565.3 |
| 0.142342342 | 0.406123871 | 0.506 | 1 | 285175 | C2orf21 |
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| 0.142084942 | 0.406980463 | 0.494 | 1 | 80024 | SLC24A6 |
| 0.142084942 | 0.406980463 | 0.503 | 1 | 253714 | C6orf167 |
| 0.141827542 | 0.407838096 | 0.517 | 1 | 1992 | SERPINB1 |
| 0.141827542 | 0.407838096 | 0.519 | 1 | 6829 | SUPT5H |
| 0.141827542 | 0.407838096 | 0.503 | 1 | 23630 | KCNE1L |
| 0.141827542 | 0.407838096 | 0.537 | 1 | 113220 | KIF12 |
| 0.141827542 | 0.407838096 | 0.494 | 1 | 196528 | ARID2 |
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| 0.141827542 | 0.407838096 | 0.537 | 1 | 401331 | RASA4CP |
| 0.141827542 | 0.407838096 | 0.533 | 1 | 653390 | AC009093.1 |
| 0.141570142 | 0.40869677 | 0.512 | 1 | 5422 | POLA1 |
| 0.141570142 | 0.40869677 | 0.501 | 1 | 8894 | EIF2S2 |
| 0.141570142 | 0.40869677 | 0.499 | 1 | 55254 | TMEM39A |
| 0.141570142 | 0.40869677 | 0.524 | 1 | 64231 | MS4A6A |
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| 0.141055341 | 0.410417235 | 0.515 | 1 | 55127 | HEATR1 |
| 0.141055341 | 0.410417235 | 0.505 | 1 | 81854 | MGC3771 |
| 0.141055341 | 0.410417235 | 0.489 | 1 | 165324 | UBXN2A |
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| 0.077751628 | 8.9905E-13 | 643837 | RP11-206L10.11 |
| 0.077701101 | 9.30046E-13 | 167826 | OLIG3 |
| 0.077660482 | 9.55722E-13 | 201255 | LRRC45 |
| 0.077626644 | 9.77641E-13 | 4359 | MPZ |
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| 0.077248756 | 1.25856E-12 | 4607 | MYBPC3 |
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| 0.076764383 | 1.73667E-12 | 5833 | PCYT2 |
| 0.076743513 | 1.76085E-12 | 9854 | C2CD2L |
| 0.076736363 | 1.76921E-12 | 55204 | GOLPH3L |
| 0.076715412 | 1.79394E-12 | 266 | AMELY |
| 0.076667125 | 1.85222E-12 | 51054 | PLEKHA9 |
| 0.076650986 | 1.87211E-12 | 10956 | OS9 |
| 0.076558291 | 1.99048E-12 | 5291 | PIK3CB |
| 0.07651422 | 2.0493E-12 | 643853 | TMPPE |
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| 0.075262581 | 4.65423E-12 | 80270 | HSD3B7 |
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| 0.134877735 | 0.431385094 | 0.531 | 1 | 148156 | ZNF558 |
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| 0.130759331 | 0.445690701 | 0.513 | 1 | 22877 | MLXIP |
| 0.130759331 | 0.445690701 | 0.503 | 1 | 51596 | CUTA |
| 0.130501931 | 0.446593391 | 0.517 | 1 | 2187 | FANCB |
| 0.130501931 | 0.446593391 | 0.575 | 1 | 9477 | MED20 |
| 0.130501931 | 0.446593391 | 0.524 | 1 | 10553 | HTATIP2 |
| 0.130501931 | 0.446593391 | 0.537 | 1 | 30812 | SOX8 |
| 0.130501931 | 0.446593391 | 0.567 | 1 | 54532 | USP53 |
| 0.130501931 | 0.446593391 | 0.526 | 1 | 59350 | RXFP1 |
| 0.130501931 | 0.446593391 | 0.541 | 1 | 80095 | ZNF606 |
| 0.130501931 | 0.446593391 | 0.582 | 1 | 84065 | TMEM222 |
| 0.13024453 | 0.447497086 | 0.545 | 1 | 8451 | CUL4A |

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| 0.069004898 | 2.30816E-10 | 10298 | PAK4 |
| 0.068973285 | 2.35217E-10 | 90655 | TGIF2LY |
| 0.068965197 | 2.36357E-10 | 58488 | PCTP |
| 0.068819836 | 2.57773E-10 | 65080 | MRPL44 |
| 0.068809657 | 2.59342E-10 | 57095 | C1orf128 |
| 0.068803108 | 2.60356E-10 | 151987 | PPP4R2 |
| 0.068802113 | 2.6051E-10 | 2926 | GRSF1 |
| 0.068792855 | 2.61952E-10 | 147710 | AC138472.2 |
| 0.068773537 | 2.64984E-10 | 6758 | SSX5 |
| 0.068748915 | 2.68899E-10 | 54760 | PCSK4 |
| 0.068697818 | 2.77204E-10 | 286499 | FAM133A |
| 0.068638828 | 2.87103E-10 | 25897 | RNF19A |
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| 0.068600359 | 2.93744E-10 | 60412 | EXOC4 |
| 0.068568574 | 2.99344E-10 | 286359 | LOC286359 |
| 0.068454988 | 3.2022E-10 | 85455 | DISP2 |
| 0.068431177 | 3.24773E-10 | 79982 | DNAJB14 |
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| 0.068208627 | 3.70503E-10 | 1145 | CHRNE |
| 0.06817316 | 3.78349E-10 | 203414 | CXorf24 |
| 0.068120882 | 3.9021E-10 | 219527 | LRRC55 |
| 0.068119096 | 3.90622E-10 | 7049 | TGFBR3 |
| 0.067962575 | 4.28385E-10 | 117166 | WFIKKN1 |
| 0.067895886 | 4.45537E-10 | 84153 | RNASEH2C |
| 0.067856231 | 4.56052E-10 | 80032 | ZNF556 |
| 0.067848554 | 4.58115E-10 | 1408 | CRY2 |
| 0.06779722 | 4.72148E-10 | 84324 | SARNP |
| 0.067796477 | 4.72354E-10 | 121793 | C13orf16 |
| 0.067742577 | 4.87547E-10 | 55843 | ARHGAP15 |
| 0.067682806 | 5.04952E-10 | 9587 | MAD2L1BP |
| 0.067680671 | 5.05585E-10 | 6528 | SLC5A5 |
| 0.067616414 | 5.24996E-10 | 91012 | LASS5 |
| 0.067604522 | 5.28667E-10 | 153478 | PLEKHG4B |
| 0.067592732 | 5.32332E-10 | 128989 | C22orf25 |
| 0.067581079 | 5.35978E-10 | 441554 | DUSPP |
| 0.067528202 | 5.52832E-10 | 283373 | ANKRD52 |
| 0.067386065 | 6.00742E-10 | 1991 | ELANE |
| 0.067362582 | 6.09038E-10 | 440275 | EIF2AK4 |
| 0.067311476 | 6.2748E-10 | 79640 | Z83840.4 |
| 0.067260359 | 6.46471E-10 | 100133204 | C9orf147 |
| 0.067139197 | 6.93752E-10 | 6714 | SRC |
| 0.067078969 | 7.18493E-10 | 50624 | CUZD1 |
| 0.067072588 | 7.21164E-10 | 92949 | ADAMTSL1 |
| 0.067051779 | 7.29942E-10 | 97 | ACYP1 |
| 0.066922683 | 7.86776E-10 | 439916 | C12orf37 |
| 0.06691336 | 7.91044E-10 | 970 | CD70 |
| 0.066863104 | 8.1444E-10 | 5343 | PLGLB1 |
| 0.066744681 | 8.72271E-10 | 55966 | AJAP1 |
| 0.066739909 | 8.74683E-10 | 343171 | OR2W3 |
| 0.06670823 | 8.90864E-10 | 54212 | SNTG1 |
| 0.066623639 | 9.35513E-10 | 11051 | NUDT21 |
| 0.066592846 | 9.52302E-10 | 4802 | NFYC |
| 0.066573172 | 9.63183E-10 | 1795 | DOCK3 |
| 0.066460021 | 1.02815E-09 | 2023 | ENO1 |
| 0.066448196 | 1.03518E-09 | 6549 | SLC9A2 |
| 0.066406995 | 1.06005E-09 | 81693 | AMN |
| 0.06640241 | 1.06285E-09 | 55365 | TMEM176A |
| 0.066350621 | 1.09502E-09 | 11284 | PNKP |
| 0.06627506 | 1.14366E-09 | 168374 | ZNF92 |
| 0.066245746 | 1.16309E-09 | 84964 | ALKBH6 |
| 0.066185646 | 1.20394E-09 | 23157 | SEPTIN6 |
| 0.06613846 | 1.23699E-09 | 54662 | TBC1D13 |
| 0.065948308 | 1.37937E-09 | 90271 | LINC00263 |
| 0.065942017 | 1.38434E-09 | 64919 | BCL11B |
| 0.065922282 | 1.40006E-09 | 10203 | CALCRL |
| 0.065845498 | 1.46287E-09 | 122042 | RXFP2 |
| 0.065637556 | 1.6471E-09 | 387804 | VSTM5 |
| 0.065621352 | 1.66237E-09 | 339896 | GADL1 |
| 0.065609968 | 1.67318E-09 | 8778 | SIGLEC5 |
| 0.06555449 | 1.72685E-09 | 10075 | HUWE1 |
| 0.065502902 | 1.77826E-09 | 79805 | VASH2 |
| 0.065416132 | 1.8681E-09 | 8174 | MADCAM1 |
| 0.065261096 | 2.03977E-09 | 5148 | PDE6G |
| 0.065260936 | 2.03996E-09 | 51340 | CRNKL1 |
| 0.065230489 | 2.07544E-09 | 64693 | CTAGE1 |
| 0.06523035 | 2.0756E-09 | 11219 | TREX2 |
| 0.065168186 | 2.14992E-09 | 400793 | C1orf226 |
| 0.065141659 | 2.18241E-09 | 400 | ARL1 |
| 0.065107297 | 2.22522E-09 | 3398 | ID2 |
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| 0.13024453 | 0.447497086 | 0.573 | 1 | 285190 | RGPD4 |
| 0.13024453 | 0.447497086 | 0.563 | 1 | 342933 | ZSCAN5B |
| 0.12998713 | 0.448401786 | 0.541 | 1 | 10653 | AC011479.2 |
| 0.12998713 | 0.448401786 | 0.551 | 1 | 56339 | METTL3 |
| 0.12998713 | 0.448401786 | 0.532 | 1 | 129563 | DIS3L2 |
| 0.12972973 | 0.449307488 | 0.545 | 1 | 10763 | NES |
| 0.12972973 | 0.449307488 | 0.562 | 1 | 11099 | PTPN21 |
| 0.12972973 | 0.449307488 | 0.518 | 1 | 26040 | SETBP1 |
| 0.12972973 | 0.449307488 | 0.56 | 1 | 28965 | SLC27A6 |
| 0.12972973 | 0.449307488 | 0.539 | 1 | 51444 | RNF138 |
| 0.129472329 | 0.450214194 | 0.539 | 1 | 471 | ATIC |
| 0.129472329 | 0.450214194 | 0.555 | 1 | 5743 | PTGS2 |
| 0.129472329 | 0.450214194 | 0.54 | 1 | 8073 | PTP4A2 |
| 0.129472329 | 0.450214194 | 0.531 | 1 | 10109 | ARPC2 |
| 0.129472329 | 0.450214194 | 0.602 | 1 | 10458 | BAIAP2 |
| 0.129472329 | 0.450214194 | 0.568 | 1 | 63897 | HEATR6 |
| 0.129472329 | 0.450214194 | 0.534 | 1 | 79073 | TMEM109 |
| 0.129214929 | 0.4511219 | 0.535 | 1 | 262 | AMD1 |
| 0.129214929 | 0.4511219 | 0.53 | 1 | 8125 | ANP32A |
| 0.129214929 | 0.4511219 | 0.525 | 1 | 201514 | ZNF584 |
| 0.129214929 | 0.4511219 | 0.533 | 1 | 493753 | C2orf64 |
| 0.128957529 | 0.452030607 | 0.539 | 1 | 2146 | EZH2 |
| 0.128957529 | 0.452030607 | 0.512 | 1 | 4286 | MITF |
| 0.128957529 | 0.452030607 | 0.517 | 1 | 5294 | PIK3CG |
| 0.128957529 | 0.452030607 | 0.545 | 1 | 23034 | SAMD4A |
| 0.128957529 | 0.452030607 | 0.55 | 1 | 25874 | BRP44 |
| 0.128957529 | 0.452030607 | 0.572 | 1 | 440888 | ACTR3BP2 |
| 0.128700129 | 0.452940314 | 0.564 | 1 | 2580 | GAK |
| 0.128700129 | 0.452940314 | 0.554 | 1 | 2981 | GUCA2B |
| 0.128700129 | 0.452940314 | 0.531 | 1 | 23327 | NEDD4L |
| 0.128442728 | 0.45385102 | 0.548 | 1 | 1299 | COL9A3 |
| 0.128442728 | 0.45385102 | 0.567 | 1 | 5157 | PDGFRL |
| 0.128442728 | 0.45385102 | 0.543 | 1 | 6330 | SCN4B |
| 0.128442728 | 0.45385102 | 0.543 | 1 | 9211 | LGI1 |
| 0.128442728 | 0.45385102 | 0.534 | 1 | 23086 | EXPH5 |
| 0.128442728 | 0.45385102 | 0.553 | 1 | 23216 | TBC1D1 |
| 0.128442728 | 0.45385102 | 0.549 | 1 | 30836 | DNTTIP2 |
| 0.128442728 | 0.45385102 | 0.581 | 1 | 65975 | STK33 |
| 0.128185328 | 0.454762723 | 0.537 | 1 | 23033 | DOPEY1 |
| 0.128185328 | 0.454762723 | 0.526 | 1 | 26507 | CNNM1 |
| 0.128185328 | 0.454762723 | 0.554 | 1 | 138639 | PTPDC1 |
| 0.128185328 | 0.454762723 | 0.548 | 1 | 414152 | C10orf105 |
| 0.127927928 | 0.455675423 | 0.525 | 1 | 26065 | LSM14A |
| 0.127927928 | 0.455675423 | 0.547 | 1 | 26160 | IFT172 |
| 0.127927928 | 0.455675423 | 0.527 | 1 | 28971 | C11orf67 |
| 0.127927928 | 0.455675423 | 0.54 | 1 | 55300 | PI4K2B |
| 0.127927928 | 0.455675423 | 0.567 | 1 | 63876 | PKNOX2 |
| 0.127927928 | 0.455675423 | 0.556 | 1 | 192669 | EIF2C3 |
| 0.127927928 | 0.455675423 | 0.556 | 1 | 390259 | BSX |
| 0.127670528 | 0.456589118 | 0.536 | 1 | 1459 | CSNK2A2 |
| 0.127670528 | 0.456589118 | 0.538 | 1 | 3301 | DNAJA1 |
| 0.127670528 | 0.456589118 | 0.537 | 1 | 3449 | IFNA16 |
| 0.127670528 | 0.456589118 | 0.545 | 1 | 6497 | SKI |
| 0.127670528 | 0.456589118 | 0.542 | 1 | 11149 | BVES |
| 0.127670528 | 0.456589118 | 0.559 | 1 | 80168 | MOGAT2 |
| 0.127670528 | 0.456589118 | 0.534 | 1 | 221079 | ARL5B |
| 0.127413127 | 0.457503808 | 0.542 | 1 | 6397 | SEC14L1 |
| 0.127413127 | 0.457503808 | 0.542 | 1 | 22929 | SEPHS1 |
| 0.127155727 | 0.458419493 | 0.558 | 1 | 1592 | CYP26A1 |
| 0.127155727 | 0.458419493 | 0.54 | 1 | 388581 | FAM132A |
| 0.127155727 | 0.458419493 | 0.557 | 1 | 440084 | LOC440084 |
| 0.126898327 | 0.45933617 | 0.561 | 1 | 2766 | GMPR |
| 0.126898327 | 0.45933617 | 0.55 | 1 | 6539 | SLC6A12 |
| 0.126898327 | 0.45933617 | 0.578 | 1 | 54541 | DDIT4 |
| 0.126898327 | 0.45933617 | 0.519 | 1 | 55286 | C4orf19 |
| 0.126640927 | 0.460253839 | 0.53 | 1 | 51282 | SCAND1 |
| 0.126640927 | 0.460253839 | 0.56 | 1 | 126017 | ZNF813 |
| 0.126640927 | 0.460253839 | 0.52 | 1 | 414899 | BLID |
| 0.126640927 | 0.460253839 | 0.542 | 1 | 646626 | LOC646626 |
| 0.126383526 | 0.461172498 | 0.558 | 1 | 5224 | PGAM2 |
| 0.126383526 | 0.461172498 | 0.543 | 1 | 8302 | KLRC4 |
| 0.126383526 | 0.461172498 | 0.57 | 1 | 23176 | SEPTIN8 |
| 0.126383526 | 0.461172498 | 0.565 | 1 | 56102 | PCDHGB3 |
| 0.126383526 | 0.461172498 | 0.565 | 1 | 83636 | C19orf12 |
| 0.126383526 | 0.461172498 | 0.575 | 1 | 90338 | ZNF160 |
| 0.126383526 | 0.461172498 | 0.536 | 1 | 284273 | ZADH2 |
| 0.126126126 | 0.462092148 | 0.543 | 1 | 498 | ATP5A1 |
| 0.126126126 | 0.462092148 | 0.548 | 1 | 1491 | CTH |
| 0.126126126 | 0.462092148 | 0.528 | 1 | 10171 | RCL1 |
| 0.126126126 | 0.462092148 | 0.54 | 1 | 56672 | C11orf17 |
| 0.126126126 | 0.462092148 | 0.548 | 1 | 145553 | MDP1 |
| 0.125868726 | 0.463012786 | 0.569 | 1 | 8195 | MKKS |

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| 0.064977588 | 2.39429E-09 | 4808 | NHLH2 |
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| 0.06486821 | 2.54653E-09 | 3501 | IGHG2 |
| 0.064849309 | 2.57378E-09 | 283149 | BCL9L |
| 0.064845833 | 2.57882E-09 | 7032 | TFF2 |
| 0.064836425 | 2.59252E-09 | 6002 | RGS12 |
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| 0.064732792 | 2.74812E-09 | 51127 | TRIM17 |
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| 0.064552745 | 3.04035E-09 | 5128 | PCTK2 |
| 0.064536922 | 3.06743E-09 | 10488 | CREB3 |
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| 0.064344765 | 3.41566E-09 | 10591 | C6orf108 |
| 0.064242617 | 3.61614E-09 | 84695 | LOXL3 |
| 0.064189308 | 3.72526E-09 | 5595 | MAPK3 |
| 0.064153584 | 3.80018E-09 | 729920 | ISPD |
| 0.064090901 | 3.93519E-09 | 11148 | HHLA2 |
| 0.064072029 | 3.97674E-09 | 2738 | GLI4 |
| 0.064021612 | 4.08986E-09 | 1806 | DPYD |
| 0.063932506 | 4.29749E-09 | 401036 | ASB18 |
| 0.063876481 | 4.43324E-09 | 386653 | IL31 |
| 0.063852337 | 4.49302E-09 | 1503 | CTPS |
| 0.063848524 | 4.50254E-09 | 5023 | P2RX1 |
| 0.063615691 | 5.12208E-09 | 3363 | HTR7 |
| 0.063579574 | 5.22533E-09 | 91807 | MYLK3 |
| 0.063498594 | 5.46424E-09 | 26013 | L3MBTL |
| 0.063464249 | 5.56875E-09 | 4836 | NMT1 |
| 0.063308999 | 6.06592E-09 | 1789 | DNMT3B |
| 0.063307737 | 6.07014E-09 | 84861 | KLHL22 |
| 0.063303222 | 6.08523E-09 | 4209 | MEF2D |
| 0.063301765 | 6.09011E-09 | 7288 | TULP2 |
| 0.063220899 | 6.36698E-09 | 55738 | ARFGAP1 |
| 0.063219428 | 6.37213E-09 | 645676 | RP11-29H23.1 |
| 0.063215662 | 6.38533E-09 | 23625 | FAM89B |
| 0.063120414 | 6.72811E-09 | 100131482 | LOC100131482 |
| 0.063114008 | 6.7518E-09 | 100101267 | POM121C |
| 0.063099042 | 6.80745E-09 | 645027 | EVPLL |
| 0.06308367 | 6.86508E-09 | 2623 | GATA1 |
| 0.063020041 | 7.1087E-09 | 147912 | SIX5 |
| 0.062981819 | 7.25906E-09 | 3667 | IRS1 |
| 0.062942824 | 7.41565E-09 | 5290 | PIK3CA |
| 0.06286228 | 7.74954E-09 | 283208 | P4HA3 |
| 0.062802691 | 8.00593E-09 | 8175 | SF3A2 |
| 0.062595294 | 8.96419E-09 | 2247 | FGF2 |
| 0.06258496 | 9.01475E-09 | 8501 | SLC43A1 |
| 0.062498971 | 9.44631E-09 | 7001 | PRDX2 |
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| 0.062406232 | 9.93424E-09 | 4131 | MAP1B |
| 0.062245718 | 1.08372E-08 | 8074 | FGF23 |
| 0.062204662 | 1.10807E-08 | 219749 | ZNF25 |
| 0.062200152 | 1.11078E-08 | 1102 | RCBTB2 |
| 0.06218034 | 1.12275E-08 | 1718 | DHCR24 |
| 0.06215818 | 1.13628E-08 | 91419 | XRCC6BP1 |
| 0.062076464 | 1.18757E-08 | 57529 | RGAG1 |
| 0.062029439 | 1.2181E-08 | 440400 | RNASEK |
| 0.062028124 | 1.21897E-08 | 26280 | KCTD9P2 |
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| 0.061959521 | 1.26491E-08 | 120863 | DEPDC4 |
| 0.061947843 | 1.27289E-08 | 10394 | PRG3 |
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| 0.061560028 | 1.56777E-08 | 58525 | WIZ |
| 0.061531772 | 1.59167E-08 | 79094 | CHAC1 |
| 0.061503075 | 1.61631E-08 | 440044 | SLC22A20 |
| 0.061488152 | 1.62927E-08 | 117532 | TMC2 |
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| 0.061442261 | 1.66976E-08 | 152002 | C3orf21 |
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| 0.061301248 | 1.80037E-08 | 133308 | NHEDC2 |
| 0.061268167 | 1.83242E-08 | 10495 | ENOX2 |
| 0.061223574 | 1.8765E-08 | 51050 | PI15 |
| 0.061175963 | 1.9247E-08 | 162993 | ZNF846 |
| 0.061130617 | 1.97172E-08 | 151246 | SGOL2 |
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| 0.06081779 | 2.32788E-08 | 89796 | NAV1 |

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| 0.125868726 | 0.463012786 | 0.564 | 1 | 29978 | UBQLN2 |
| 0.125868726 | 0.463012786 | 0.524 | 1 | 57157 | PHTF2 |
| 0.125868726 | 0.463012786 | 0.559 | 1 | 399949 | C11orf88 |
| 0.125611326 | 0.463934413 | 0.549 | 1 | 8603 | C4orf8 |
| 0.125611326 | 0.463934413 | 0.573 | 1 | 54826 | GIN1 |
| 0.125611326 | 0.463934413 | 0.518 | 1 | 54882 | ANKHD1 |
| 0.125353925 | 0.464857026 | 0.543 | 1 | 3570 | IL6R |
| 0.125353925 | 0.464857026 | 0.576 | 1 | 25875 | LETMD1 |
| 0.125353925 | 0.464857026 | 0.538 | 1 | 55775 | TDP1 |
| 0.125353925 | 0.464857026 | 0.547 | 1 | 126328 | NDUFA11 |
| 0.125096525 | 0.465780625 | 0.538 | 1 | 7707 | ZNF148 |
| 0.125096525 | 0.465780625 | 0.566 | 1 | 51631 | LUC7L2 |
| 0.125096525 | 0.465780625 | 0.586 | 1 | 55630 | AF205589.2 |
| 0.125096525 | 0.465780625 | 0.54 | 1 | 81704 | DOCK8 |
| 0.125096525 | 0.465780625 | 0.541 | 1 | 222235 | FBXL13 |
| 0.124839125 | 0.466705208 | 0.539 | 1 | 64080 | RBKS |
| 0.124839125 | 0.466705208 | 0.565 | 1 | 391104 | VHLL |
| 0.124581725 | 0.467630776 | 0.549 | 1 | 5026 | P2RX5 |
| 0.124581725 | 0.467630776 | 0.575 | 1 | 7102 | TSPAN7 |
| 0.124581725 | 0.467630776 | 0.566 | 1 | 9326 | ZNHIT3 |
| 0.124581725 | 0.467630776 | 0.56 | 1 | 56924 | PAK6 |
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| 0.124324324 | 0.468557326 | 0.535 | 1 | 2054 | STX2 |
| 0.124324324 | 0.468557326 | 0.55 | 1 | 9310 | ZNF235 |
| 0.124324324 | 0.468557326 | 0.563 | 1 | 55749 | CCAR1 |
| 0.124066924 | 0.469484858 | 0.569 | 1 | 3291 | HSD11B2 |
| 0.124066924 | 0.469484858 | 0.522 | 1 | 11194 | ABCB8 |
| 0.124066924 | 0.469484858 | 0.551 | 1 | 256281 | NUDT14 |
| 0.123809524 | 0.470413371 | 0.533 | 1 | 23205 | ACSBG1 |
| 0.123809524 | 0.470413371 | 0.574 | 1 | 64943 | NT5DC2 |
| 0.123809524 | 0.470413371 | 0.559 | 1 | 343702 | XKR7 |
| 0.123552124 | 0.471342863 | 0.527 | 1 | 6909 | TBX2 |
| 0.123552124 | 0.471342863 | 0.554 | 1 | 23415 | KCNH4 |
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| 0.119433719 | 0.486347089 | 0.574 | 1 | 10106 | CTDSP2 |
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| 0.119176319 | 0.487293069 | 0.585 | 1 | 5782 | PTPN12 |
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| 0.045054117 | 3.53153E-05 | 91893 | FDXACB1 |
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| 0.044763899 | 3.9652E-05 | 9139 | CBFA2T2 |
| 0.044741188 | 4.00118E-05 | 5309 | PITX3 |
| 0.044627594 | 4.18589E-05 | 10464 | PIBF1 |
| 0.044494214 | 4.41309E-05 | 56891 | LGALS14 |
| 0.044392408 | 4.59432E-05 | 84517 | AC078802.1 |
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| 0.044330583 | 4.7078E-05 | 81543 | LRRC3 |
| 0.044297717 | 4.7692E-05 | 386675 | KRTAP10-7 |
| 0.044287562 | 4.78833E-05 | 2524 | FUT2 |
| 0.044253168 | 4.85364E-05 | 140545 | RNF32 |
| 0.044224423 | 4.90888E-05 | 2931 | GSK3A |
| 0.044177123 | 5.00107E-05 | 10874 | NMU |
| 0.044175134 | 5.00498E-05 | 1805 | DPT |
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| 0.044014924 | 5.32982E-05 | 57624 | KIAA1486 |
| 0.043895196 | 5.58551E-05 | 8110 | DPF3 |
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| 0.043745056 | 5.92259E-05 | 23515 | MORC3 |
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| 0.043492876 | 6.53248E-05 | 863 | CBFA2T3 |
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| 0.043184367 | 7.35952E-05 | 55605 | KIF21A |
| 0.043165737 | 7.41251E-05 | 147965 | FAM98C |
| 0.043077683 | 7.66787E-05 | 646024 | RAET1K |
| 0.042991729 | 7.92514E-05 | 2212 | FCGR2A |
| 0.042833275 | 8.42094E-05 | 5623 | PSPN |
| 0.04279754 | 8.53674E-05 | 60314 | C12orf10 |
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| 0.107078507 | 0.532815986 | 0.606 | 1 | 5715 | PSMD9 |
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| 0.106048906 | 0.536784051 | 0.626 | 1 | 1906 | EDN1 |
| 0.106048906 | 0.536784051 | 0.597 | 1 | 4711 | NDUFB5 |
| 0.106048906 | 0.536784051 | 0.583 | 1 | 54969 | C4orf27 |
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| 0.105534106 | 0.538773458 | 0.617 | 1 | 7073 | TIAL1 |
| 0.105534106 | 0.538773458 | 0.611 | 1 | 7866 | IFRD2 |
| 0.105534106 | 0.538773458 | 0.631 | 1 | 51528 | JKAMP |
| 0.105534106 | 0.538773458 | 0.567 | 1 | 54980 | C2orf42 |
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| 0.105276705 | 0.539769501 | 0.623 | 1 | 92597 | MOBKL1A |
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| 0.105276705 | 0.539769501 | 0.629 | 1 | 284076 | TTLL6 |
| 0.105019305 | 0.540766433 | 0.604 | 1 | 8332 | HIST1H2AL |
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| 0.104761905 | 0.541764255 | 0.627 | 1 | 55876 | GSDMB |
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| 0.103989704 | 0.544763042 | 0.618 | 1 | 6667 | SP1 |
| 0.103989704 | 0.544763042 | 0.643 | 1 | 8715 | NOL4 |
| 0.103989704 | 0.544763042 | 0.62 | 1 | 26092 | TOR1AIP1 |
| 0.103989704 | 0.544763042 | 0.638 | 1 | 53832 | IL20RA |
| 0.103989704 | 0.544763042 | 0.656 | 1 | 353149 | TBC1D26 |
| 0.103732304 | 0.545764406 | 0.618 | 1 | 55082 | ARGLU1 |
| 0.103732304 | 0.545764406 | 0.636 | 1 | 117289 | TAGAP |
| 0.103732304 | 0.545764406 | 0.606 | 1 | 145165 | ST13P4 |
| 0.103732304 | 0.545764406 | 0.604 | 1 | 353376 | TICAM2 |
| 0.103474903 | 0.546766652 | 0.62 | 1 | 632 | BGLAP |
| 0.103474903 | 0.546766652 | 0.613 | 1 | 6462 | SHBG |
| 0.103474903 | 0.546766652 | 0.615 | 1 | 54915 | YTHDF1 |
| 0.103474903 | 0.546766652 | 0.642 | 1 | 55041 | PLEKHB2 |
| 0.103474903 | 0.546766652 | 0.615 | 1 | 63892 | THADA |
| 0.103217503 | 0.547769779 | 0.632 | 1 | 1116 | CHI3L1 |
| 0.103217503 | 0.547769779 | 0.64 | 1 | 6399 | TRAPPC2 |
| 0.103217503 | 0.547769779 | 0.615 | 1 | 6861 | SYT5 |
| 0.103217503 | 0.547769779 | 0.631 | 1 | 29843 | SENP1 |
| 0.103217503 | 0.547769779 | 0.614 | 1 | 55695 | NSUN5 |
| 0.103217503 | 0.547769779 | 0.641 | 1 | 56994 | CHPT1 |
| 0.102960103 | 0.548773784 | 0.659 | 1 | 1962 | EHHADH |
| 0.102960103 | 0.548773784 | 0.644 | 1 | 8227 | SFRS17A |
| 0.102960103 | 0.548773784 | 0.624 | 1 | 9240 | PNMA1 |
| 0.102960103 | 0.548773784 | 0.617 | 1 | 9877 | ZC3H11A |
| 0.102960103 | 0.548773784 | 0.598 | 1 | 51329 | ARL6IP4 |
| 0.102960103 | 0.548773784 | 0.613 | 1 | 54910 | SEMA4C |
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| 0.042306796 | 0.000102871 | 23635 | SSBP2 |
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| 0.042139447 | 0.000109578 | 8315 | BRAP |
| 0.042132536 | 0.000109863 | 84651 | SPINK7 |
| 0.04209283 | 0.000111518 | 11047 | ADRM1 |
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| 0.042028717 | 0.00011424 | 9734 | HDAC9 |
| 0.042026471 | 0.000114336 | 9922 | IQSEC1 |
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| 0.041312488 | 0.00014922 | 3841 | KPNA5 |
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| 0.040756377 | 0.000183092 | 2739 | GLO1 |
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| 0.040276594 | 0.000217997 | 28986 | MAGEH1 |
| 0.040234218 | 0.000221363 | 23333 | DPY19L1 |
| 0.040189707 | 0.000224951 | 3683 | ITGAL |
| 0.040128984 | 0.000229934 | 2678 | GGT1 |
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| 0.039922089 | 0.000247701 | 26974 | ZNF285 |
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| 0.039797969 | 0.00025897 | 5475 | PPEF1 |
| 0.039731427 | 0.000265207 | 2494 | NR5A2 |
| 0.03970298 | 0.000267916 | 389842 | LOC389842 |
| 0.039666515 | 0.000271427 | 122706 | PSMB11 |
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| 0.039551437 | 0.000282791 | 22870 | SAPS1 |
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| 0.03886665 | 0.000360173 | 4795 | NFKBIL1 |
| 0.038860576 | 0.000360941 | 29931 | LINC00312 |
| 0.038641163 | 0.000389713 | 3972 | LHB |
| 0.038597222 | 0.000395726 | 7221 | TRPC2 |
| 0.038553882 | 0.000401743 | 4809 | NHP2L1 |
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| 0.038510247 | 0.000407886 | 1993 | ELAVL2 |
| 0.038499707 | 0.000409383 | 81533 | ITFG1 |
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| 0.102702703 | 0.549778668 | 0.634 | 1 | 115353 | LRRC42 |
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| 0.102445302 | 0.550784427 | 0.63 | 1 | 79974 | C7orf58 |
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| 0.102445302 | 0.550784427 | 0.632 | 1 | 115825 | WDFY2 |
| 0.102445302 | 0.550784427 | 0.627 | 1 | 128387 | TATDN3 |
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| 0.101930502 | 0.552798568 | 0.612 | 1 | 100128782 | LINC00476 |
| 0.101673102 | 0.553806947 | 0.649 | 1 | 1103 | CHAT |
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| 0.101415701 | 0.554816196 | 0.608 | 1 | 7462 | LAT2 |
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| 0.101415701 | 0.554816196 | 0.63 | 1 | 151556 | GPR155 |
| 0.101158301 | 0.555826314 | 0.617 | 1 | 3904 | LAIR2 |
| 0.101158301 | 0.555826314 | 0.623 | 1 | 9117 | SEC22C |
| 0.101158301 | 0.555826314 | 0.632 | 1 | 9865 | TRIL |
| 0.101158301 | 0.555826314 | 0.607 | 1 | 116255 | MOGAT1 |
| 0.101158301 | 0.555826314 | 0.634 | 1 | 256227 | AC099759.1 |
| 0.100900901 | 0.556837299 | 0.619 | 1 | 5229 | PGGT1B |
| 0.100900901 | 0.556837299 | 0.626 | 1 | 27092 | CACNG4 |
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| 0.100643501 | 0.55784915 | 0.659 | 1 | 5580 | PRKCD |
| 0.100643501 | 0.55784915 | 0.623 | 1 | 55843 | ARHGAP15 |
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| 0.100643501 | 0.55784915 | 0.608 | 1 | 257106 | ARHGAP30 |
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| 0.1003861 | 0.558861865 | 0.602 | 1 | 9938 | ARHGAP25 |
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| 0.1001287 | 0.559875443 | 0.645 | 1 | 8544 | PIR |
| 0.1001287 | 0.559875443 | 0.605 | 1 | 84720 | PIGO |
| 0.1001287 | 0.559875443 | 0.647 | 1 | 89944 | GLB1L2 |
| 0.1001287 | 0.559875443 | 0.622 | 1 | 114881 | OSBPL7 |
| 0.0998713 | 0.560889882 | 0.656 | 1 | 5865 | RAB3B |
| 0.0998713 | 0.560889882 | 0.638 | 1 | 8880 | FUBP1 |
| 0.0998713 | 0.560889882 | 0.627 | 1 | 9857 | CEP350 |
| 0.0998713 | 0.560889882 | 0.688 | 1 | 55788 | LMBRD1 |
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| 0.0996139 | 0.56190518 | 0.628 | 1 | 10723 | SLC12A7 |
| 0.0996139 | 0.56190518 | 0.614 | 1 | 80222 | TARS2 |
| 0.099356499 | 0.562921337 | 0.643 | 1 | 1879 | EBF1 |
| 0.099356499 | 0.562921337 | 0.666 | 1 | 2812 | GP1BB |
| 0.099356499 | 0.562921337 | 0.643 | 1 | 6184 | RPN1 |
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| 0.099356499 | 0.562921337 | 0.627 | 1 | 729992 | ST13P1 |
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| 0.099099099 | 0.56393835 | 0.63 | 1 | 6518 | SLC2A5 |
| 0.099099099 | 0.56393835 | 0.633 | 1 | 26249 | KLHL3 |
| 0.099099099 | 0.56393835 | 0.661 | 1 | 29763 | PACSIN3 |
| 0.099099099 | 0.56393835 | 0.642 | 1 | 57337 | SENP7 |
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| 0.098841699 | 0.564956219 | 0.644 | 1 | 10360 | NPM3 |
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| 0.098841699 | 0.564956219 | 0.634 | 1 | 374650 | GOLGA6L5 |
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| 0.098584299 | 0.565974941 | 0.652 | 1 | 328 | APEX1 |
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| 0.098326898 | 0.566994515 | 0.637 | 1 | 55901 | THSD1 |
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| 0.036062281 | 0.000932715 | 8999 | CDKL2 |
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| 0.034192919 | 0.001698811 | 4854 | NOTCH3 |
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| 0.034176228 | 0.001707718 | 2307 | FOXS1 |
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| 0.033576147 | 0.002057922 | 131177 | FAM3D |
| 0.033529736 | 0.00208758 | 1762 | DMWD |
| 0.033514167 | 0.002097617 | 9459 | ARHGEF6 |
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| 0.097039897 | 0.57210511 | 0.641 | 1 | 7571 | ZNF23 |
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| 0.096782497 | 0.573129764 | 0.639 | 1 | 79783 | C7orf10 |
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| 0.096525097 | 0.574155258 | 0.655 | 1 | 51310 | SLC22A17 |
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| 0.096267696 | 0.575181592 | 0.629 | 1 | 55890 | GPRC5C |
| 0.096267696 | 0.575181592 | 0.657 | 1 | 79847 | TMEM180 |
| 0.096267696 | 0.575181592 | 0.632 | 1 | 139081 | MAGEC3 |
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| 0.096010296 | 0.576208763 | 0.659 | 1 | 7182 | NR2C2 |
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| 0.096010296 | 0.576208763 | 0.675 | 1 | 23097 | CDC2L6 |
| 0.096010296 | 0.576208763 | 0.658 | 1 | 166614 | DCLK2 |
| 0.096010296 | 0.576208763 | 0.625 | 1 | 400713 | AC010332.1 |
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| 0.095752896 | 0.577236771 | 0.639 | 1 | 3137 | HLA-J |
| 0.095752896 | 0.577236771 | 0.637 | 1 | 3298 | HSF2 |
| 0.095752896 | 0.577236771 | 0.628 | 1 | 7681 | MKRN3 |
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| 0.095238095 | 0.57929529 | 0.665 | 1 | 162540 | AC217771.1 |
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| 0.094723295 | 0.581357134 | 0.654 | 1 | 57512 | GPR158 |
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| 0.094208494 | 0.583422292 | 0.645 | 1 | 643641 | ZNF862 |
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| 0.093951094 | 0.584456109 | 0.647 | 1 | 162681 | C18orf54 |
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| 0.093951094 | 0.584456109 | 0.658 | 1 | 253143 | C22orf30 |
| 0.093951094 | 0.584456109 | 0.646 | 1 | 641700 | ECSCR |
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| 0.03247986 | 0.00287245 | 729420 | AL359392.2 |
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| 0.032295723 | 0.003035117 | 79924 | ADM2 |
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| 0.032118774 | 0.003199306 | 387712 | C10orf134 |
| 0.03208356 | 0.00323293 | 25907 | TMEM158 |
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| 0.031892646 | 0.003420897 | 120237 | DBX1 |
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| 0.031770357 | 0.003546469 | 10096 | ACTR3 |
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| 0.031130535 | 0.004274464 | 401399 | RP11-155G14.1 |
| 0.031097347 | 0.004315684 | 57415 | C3orf14 |
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| 0.030218702 | 0.005546775 | 5005 | ORM2 |
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| 0.029742829 | 0.006338403 | 5149 | PDE6H |
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| 0.029533027 | 0.006718636 | 150142 | ZNF295-AS1 |
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| 0.029240338 | 0.007283335 | 441177 | LINC00602 |
| 0.029190132 | 0.007384369 | 124842 | TMEM132E |
| 0.029068009 | 0.007635396 | 1141 | CHRNB2 |
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| 0.028706305 | 0.008424361 | 23066 | CAND2 |
| 0.028564475 | 0.008753111 | 163175 | LGI4 |
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| 0.093178893 | 0.587562494 | 0.652 | 1 | 2647 | BLOC1S1 |
| 0.093178893 | 0.587562494 | 0.696 | 1 | 6527 | SLC5A4 |
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| 0.093178893 | 0.587562494 | 0.671 | 1 | 10724 | MGEA5 |
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| 0.092921493 | 0.588599594 | 0.668 | 1 | 151516 | ASPRV1 |
| 0.092921493 | 0.588599594 | 0.641 | 1 | 202181 | LOC202181 |
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| 0.092664093 | 0.589637512 | 0.669 | 1 | 55340 | GIMAP5 |
| 0.092664093 | 0.589637512 | 0.631 | 1 | 65991 | FUNDC2 |
| 0.092664093 | 0.589637512 | 0.671 | 1 | 83698 | CALN1 |
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| 0.092149292 | 0.591715791 | 0.659 | 1 | 23039 | XPO7 |
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| 0.091891892 | 0.592756149 | 0.667 | 1 | 8736 | MYOM1 |
| 0.091891892 | 0.592756149 | 0.659 | 1 | 9175 | MAP3K13 |
| 0.091891892 | 0.592756149 | 0.672 | 1 | 54437 | SEMA5B |
| 0.091891892 | 0.592756149 | 0.663 | 1 | 83744 | ZNF484 |
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| 0.091634492 | 0.593797318 | 0.638 | 1 | 10157 | AASS |
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| 0.091377091 | 0.594839294 | 0.662 | 1 | 25912 | C1orf43 |
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| 0.091377091 | 0.594839294 | 0.654 | 1 | 118987 | PDZD8 |
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| 0.089060489 | 0.60425319 | 0.671 | 1 | 55707 | NECAP2 |
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| 0.083397683 | 0.627532261 | 0.722 | 1 | 22861 | AC055839.1 |
| 0.083397683 | 0.627532261 | 0.681 | 1 | 23524 | SRRM2 |
| 0.083397683 | 0.627532261 | 0.686 | 1 | 728642 | CDC2L2 |
| 0.083140283 | 0.628599199 | 0.704 | 1 | 9414 | TJP2 |
| 0.083140283 | 0.628599199 | 0.682 | 1 | 9610 | RIN1 |
| 0.082882883 | 0.629666889 | 0.707 | 1 | 8341 | HIST1H2BN |
| 0.082882883 | 0.629666889 | 0.707 | 1 | 23383 | KIAA0892 |
| 0.082625483 | 0.630735328 | 0.685 | 1 | 9481 | SLC25A27 |
| 0.082625483 | 0.630735328 | 0.688 | 1 | 51338 | MS4A4A |
| 0.082625483 | 0.630735328 | 0.702 | 1 | 55814 | BDP1 |
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| 0.082625483 | 0.630735328 | 0.676 | 1 | 222537 | HS3ST5 |
| 0.082625483 | 0.630735328 | 0.709 | 1 | 402055 | SRRD |
| 0.082368082 | 0.631804513 | 0.706 | 1 | 3547 | IGSF1 |
| 0.082368082 | 0.631804513 | 0.69 | 1 | 23062 | GGA2 |
| 0.082368082 | 0.631804513 | 0.696 | 1 | 54477 | PLEKHA5 |
| 0.082368082 | 0.631804513 | 0.689 | 1 | 83543 | AIF1L |
| 0.082368082 | 0.631804513 | 0.703 | 1 | 93474 | ZNF670 |
| 0.082368082 | 0.631804513 | 0.695 | 1 | 171546 | C14orf147 |
| 0.082368082 | 0.631804513 | 0.689 | 1 | 339290 | LOC339290 |
| 0.082110682 | 0.632874444 | 0.698 | 1 | 5441 | POLR2L |
| 0.082110682 | 0.632874444 | 0.695 | 1 | 6360 | CCL16 |
| 0.082110682 | 0.632874444 | 0.713 | 1 | 6781 | STC1 |
| 0.082110682 | 0.632874444 | 0.686 | 1 | 55762 | ZNF701 |
| 0.082110682 | 0.632874444 | 0.711 | 1 | 84765 | ZNF577 |
| 0.082110682 | 0.632874444 | 0.674 | 1 | 253827 | MSRB3 |
| 0.081853282 | 0.633945119 | 0.691 | 1 | 27012 | KCNV1 |
| 0.081853282 | 0.633945119 | 0.714 | 1 | 120364 | LOC120364 |
| 0.081853282 | 0.633945119 | 0.71 | 1 | 340146 | SLC35D3 |
| 0.081595882 | 0.635016535 | 0.702 | 1 | 26030 | PLEKHG3 |
| 0.081595882 | 0.635016535 | 0.686 | 1 | 57190 | SEPN1 |
| 0.081595882 | 0.635016535 | 0.718 | 1 | 84842 | HPDL |
| 0.081595882 | 0.635016535 | 0.719 | 1 | 440434 | AC183087.2 |
| 0.081338481 | 0.636088691 | 0.722 | 1 | 245 | ALOX12P2 |
| 0.081338481 | 0.636088691 | 0.681 | 1 | 4017 | LOXL2 |
| 0.081338481 | 0.636088691 | 0.695 | 1 | 8879 | SGPL1 |
| 0.081338481 | 0.636088691 | 0.707 | 1 | 9499 | MYOT |
| 0.081338481 | 0.636088691 | 0.683 | 1 | 9735 | KNTC1 |
| 0.081338481 | 0.636088691 | 0.676 | 1 | 55813 | UTP6 |
| 0.081338481 | 0.636088691 | 0.705 | 1 | 128486 | FITM2 |
| 0.081338481 | 0.636088691 | 0.674 | 1 | 100131482 | LOC100131482 |
| 0.081081081 | 0.637161585 | 0.701 | 1 | 4881 | NPR1 |
| 0.081081081 | 0.637161585 | 0.701 | 1 | 6832 | SUPV3L1 |
| 0.081081081 | 0.637161585 | 0.696 | 1 | 51002 | TPRKB |
| 0.081081081 | 0.637161585 | 0.712 | 1 | 114793 | FMNL2 |
| 0.081081081 | 0.637161585 | 0.688 | 1 | 284021 | MILR1 |
| 0.080823681 | 0.638235214 | 0.731 | 1 | 1725 | DHPS |
| 0.080823681 | 0.638235214 | 0.689 | 1 | 6663 | SOX10 |
| 0.080823681 | 0.638235214 | 0.701 | 1 | 7169 | TPM2 |
| 0.080823681 | 0.638235214 | 0.721 | 1 | 11123 | RCAN3 |
| 0.080823681 | 0.638235214 | 0.686 | 1 | 26091 | HERC4 |
| 0.080823681 | 0.638235214 | 0.71 | 1 | 256051 | ZNF549 |
| 0.080566281 | 0.639309578 | 0.676 | 1 | 1495 | CTNNA1 |
| 0.080566281 | 0.639309578 | 0.696 | 1 | 2953 | GSTT2 |
| 0.080566281 | 0.639309578 | 0.721 | 1 | 3208 | HPCA |
| 0.080566281 | 0.639309578 | 0.704 | 1 | 5687 | PSMA6 |
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| 0.018465807 | 0.090165194 | 285641 | SLC36A3 |
| 0.018373468 | 0.091785801 | 285966 | FAM115C |
| 0.01819979 | 0.094897279 | 120824 | TRIM51GP |
| 0.018162103 | 0.09558349 | 57611 | ISLR2 |
| 0.017859873 | 0.101231178 | 56413 | LTB4R2 |
| 0.017839923 | 0.101613138 | 3275 | PRMT2 |
| 0.017798265 | 0.102414409 | 720 | C4A |
| 0.017791163 | 0.102551516 | 7975 | MAFK |
| 0.017736234 | 0.103616847 | 5156 | PDGFRA |
| 0.017701927 | 0.104286677 | 10568 | SLC34A2 |
| 0.017685799 | 0.104602769 | 1435 | CSF1 |
| 0.017599026 | 0.106316415 | 55225 | RAVER2 |
| 0.017516975 | 0.107957234 | 4987 | OPRL1 |
| 0.017467415 | 0.108957972 | 126382 | NR2C2AP |
| 0.017313311 | 0.112116622 | 28904 | IGKV1D-8 |
| 0.017213151 | 0.114208027 | 440465 | AC013356.3 |
| 0.017210674 | 0.114260132 | 51650 | MRPS33 |
| 0.017131744 | 0.115930354 | 440498 | AC090360.1 |
| 0.017130554 | 0.11595569 | 121551 | BTBD11 |
| 0.017108088 | 0.116434652 | 401507 | FAM74A1 |
| 0.017082793 | 0.116975809 | 23234 | DNAJC9 |
| 0.017058883 | 0.117489137 | 4221 | MEN1 |
| 0.017057427 | 0.117520452 | 27153 | ZNF777 |
| 0.017056023 | 0.117550664 | 124930 | ANKRD13B |
| 0.017051692 | 0.117643859 | 54806 | AHI1 |
| 0.017050106 | 0.117678028 | 56949 | XAB2 |
| 0.016949604 | 0.119857812 | 26279 | PLA2G2D |
| 0.016936411 | 0.120146296 | 967 | CD63 |
| 0.016752059 | 0.124234419 | 10279 | PRSS16 |
| 0.016626503 | 0.127080274 | 388566 | ZNF470 |
| 0.016605267 | 0.127566591 | 7336 | UBE2V2 |
| 0.016522902 | 0.129466466 | 10097 | ACTR2 |
| 0.016417436 | 0.131931198 | 348180 | C16orf84 |
| 0.01637798 | 0.132862576 | 8496 | PPFIBP1 |
| 0.016334388 | 0.133897498 | 339512 | C1orf110 |
| 0.016283045 | 0.135124397 | 140578 | CHODL |
| 0.016244161 | 0.136059354 | 63982 | ANO3 |
| 0.016218422 | 0.13668098 | 137695 | TMEM68 |
| 0.016214936 | 0.136765346 | 116085 | SLC22A12 |
| 0.016196867 | 0.137203256 | 7780 | SLC30A2 |
| 0.016136959 | 0.13866285 | 23016 | EXOSC7 |
| 0.016074542 | 0.140196286 | 254956 | MORN5 |
| 0.01601089 | 0.141773465 | 388199 | AL023882.1 |
| 0.015969605 | 0.142803688 | 26301 | GBGT1 |
| 0.015932778 | 0.143727515 | 84823 | LMNB2 |
| 0.01585812 | 0.145614381 | 645 | BLVRB |
| 0.015819282 | 0.146603427 | 79906 | MORN1 |
| 0.015684465 | 0.150076565 | 9991 | ROD1 |
| 0.015641604 | 0.151193793 | 4088 | SMAD3 |
| 0.015621558 | 0.151718484 | 84832 | ANKRD36BL1 |
| 0.015575881 | 0.152919232 | 339398 | LINGO4 |
| 0.015525777 | 0.154244666 | 5292 | PIM1 |
| 0.015523085 | 0.154316105 | 637 | BID |
| 0.015409754 | 0.157347342 | 4791 | NFKB2 |
| 0.015408727 | 0.157375026 | 2260 | FGFR1 |
| 0.015318841 | 0.159811417 | 9751 | SNPH |
| 0.015297542 | 0.16039289 | 153579 | BTNL9 |
| 0.015088781 | 0.166177059 | 83696 | TRAPPC9 |
| 0.015078369 | 0.166469599 | 201798 | TIGD4 |
| 0.015055917 | 0.167101732 | 100130331 | RP11-193H5.1 |
| 0.015051505 | 0.167226168 | 392188 | USP17L8 |
| 0.01491495 | 0.171111949 | 8558 | CDK10 |
| 0.014873132 | 0.172315338 | 55902 | ACSS2 |
| 0.014863424 | 0.172595598 | 122509 | IFI27L1 |
| 0.014836137 | 0.173385194 | 11182 | SLC2A6 |
| 0.014834027 | 0.173446369 | 5306 | PITPNA |
| 0.014780882 | 0.174992346 | 4247 | MGAT2 |
| 0.014631488 | 0.179393257 | 55212 | BBS7 |
| 0.014622658 | 0.179655933 | 81559 | TRIM11 |
| 0.01458182 | 0.180874486 | 6647 | SOD1 |
| 0.014519393 | 0.182749059 | 53335 | BCL11A |
| 0.014514359 | 0.182900834 | 6294 | SAFB |
| 0.014451522 | 0.184803391 | 83604 | TMEM47 |
| 0.014398236 | 0.186428226 | 56970 | ATXN7L3 |
| 0.014378541 | 0.187031417 | 29991 | OBP2A |
| 0.014333247 | 0.188424138 | 6840 | SVIL |
| 0.014320137 | 0.188828662 | 284459 | AC008806.1 |
| 0.014306142 | 0.189261219 | 51052 | PRLH |
| 0.014263352 | 0.190588261 | 5954 | RCN1 |
| 0.013881293 | 0.202741853 | 26071 | FAM127B |
| 0.01386859 | 0.203155409 | 5936 | RBM4 |
| 0.01379026 | 0.205719187 | 10884 | MRPS30 |

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| 0.080566281 | 0.639309578 | 0.713 | 1 | 27151 | CPAMD8 |
| 0.080566281 | 0.639309578 | 0.715 | 1 | 55870 | ASH1L |
| 0.080566281 | 0.639309578 | 0.685 | 1 | 83440 | ADPGK |
| 0.080566281 | 0.639309578 | 0.71 | 1 | 89887 | ZNF628 |
| 0.080566281 | 0.639309578 | 0.691 | 1 | 152098 | ZCWPW2 |
| 0.080566281 | 0.639309578 | 0.707 | 1 | 167555 | FAM151B |
| 0.08030888 | 0.640384675 | 0.679 | 1 | 4318 | MMP9 |
| 0.08030888 | 0.640384675 | 0.708 | 1 | 162972 | ZNF550 |
| 0.08030888 | 0.640384675 | 0.706 | 1 | 401577 | CD99P1 |
| 0.08005148 | 0.641460502 | 0.702 | 1 | 303 | ANXA2P1 |
| 0.08005148 | 0.641460502 | 0.711 | 1 | 5138 | PDE2A |
| 0.08005148 | 0.641460502 | 0.685 | 1 | 10671 | DCTN6 |
| 0.08005148 | 0.641460502 | 0.664 | 1 | 23256 | SCFD1 |
| 0.08005148 | 0.641460502 | 0.68 | 1 | 56925 | LXN |
| 0.08005148 | 0.641460502 | 0.739 | 1 | 152789 | JAKMIP1 |
| 0.08005148 | 0.641460502 | 0.711 | 1 | 644189 | LOC644189 |
| 0.07979408 | 0.642537057 | 0.715 | 1 | 47 | ACLY |
| 0.07979408 | 0.642537057 | 0.688 | 1 | 27252 | KLHL20 |
| 0.07979408 | 0.642537057 | 0.706 | 1 | 51024 | FIS1 |
| 0.07979408 | 0.642537057 | 0.713 | 1 | 51704 | GPRC5B |
| 0.07979408 | 0.642537057 | 0.691 | 1 | 84327 | ZBED3 |
| 0.07979408 | 0.642537057 | 0.714 | 1 | 283659 | PRTG |
| 0.07953668 | 0.643614339 | 0.72 | 1 | 8091 | HMGA2 |
| 0.07953668 | 0.643614339 | 0.683 | 1 | 54360 | CYTL1 |
| 0.07953668 | 0.643614339 | 0.698 | 1 | 343990 | C2orf55 |
| 0.079279279 | 0.644692346 | 0.701 | 1 | 2665 | GDI2 |
| 0.079279279 | 0.644692346 | 0.718 | 1 | 4615 | MYD88 |
| 0.079279279 | 0.644692346 | 0.709 | 1 | 91355 | LRP5L |
| 0.079021879 | 0.645771076 | 0.699 | 1 | 593 | BCKDHA |
| 0.079021879 | 0.645771076 | 0.701 | 1 | 23151 | GRAMD4 |
| 0.079021879 | 0.645771076 | 0.7 | 1 | 23351 | KIAA0323 |
| 0.079021879 | 0.645771076 | 0.684 | 1 | 55819 | RNF130 |
| 0.079021879 | 0.645771076 | 0.7 | 1 | 144348 | ZNF664 |
| 0.079021879 | 0.645771076 | 0.692 | 1 | 158431 | ZNF782 |
| 0.079021879 | 0.645771076 | 0.702 | 1 | 729501 | ZNF962P |
| 0.078507079 | 0.647930697 | 0.701 | 1 | 11068 | CYB561D2 |
| 0.078507079 | 0.647930697 | 0.692 | 1 | 80205 | CHD9 |
| 0.078507079 | 0.647930697 | 0.697 | 1 | 497258 | BDNF-AS1 |
| 0.078249678 | 0.649011584 | 0.731 | 1 | 10478 | SLC25A17 |
| 0.078249678 | 0.649011584 | 0.746 | 1 | 51339 | DACT1 |
| 0.077992278 | 0.650093187 | 0.703 | 1 | 960 | CD44 |
| 0.077992278 | 0.650093187 | 0.702 | 1 | 1010 | CDH12 |
| 0.077992278 | 0.650093187 | 0.71 | 1 | 3930 | LBR |
| 0.077992278 | 0.650093187 | 0.703 | 1 | 10411 | RAPGEF3 |
| 0.077992278 | 0.650093187 | 0.705 | 1 | 51272 | BET1L |
| 0.077992278 | 0.650093187 | 0.699 | 1 | 64863 | METTL4 |
| 0.077992278 | 0.650093187 | 0.719 | 1 | 441124 | LOC441124 |
| 0.077734878 | 0.651175503 | 0.715 | 1 | 95 | ACY1 |
| 0.077734878 | 0.651175503 | 0.713 | 1 | 7185 | TRAF1 |
| 0.077734878 | 0.651175503 | 0.712 | 1 | 55644 | OSGEP |
| 0.077734878 | 0.651175503 | 0.723 | 1 | 57555 | NLGN2 |
| 0.077734878 | 0.651175503 | 0.7 | 1 | 79885 | HDAC11 |
| 0.077734878 | 0.651175503 | 0.71 | 1 | 81470 | OR2G2 |
| 0.077734878 | 0.651175503 | 0.717 | 1 | 285973 | ATG9B |
| 0.077477477 | 0.652258531 | 0.703 | 1 | 1240 | CMKLR1 |
| 0.077477477 | 0.652258531 | 0.717 | 1 | 79635 | CCDC121 |
| 0.077220077 | 0.653342268 | 0.712 | 1 | 639 | PRDM1 |
| 0.077220077 | 0.653342268 | 0.72 | 1 | 6302 | TSPAN31 |
| 0.077220077 | 0.653342268 | 0.728 | 1 | 23528 | ZNF281 |
| 0.076962677 | 0.654426713 | 0.712 | 1 | 57819 | LSM2 |
| 0.076962677 | 0.654426713 | 0.692 | 1 | 145978 | NCRNA00052 |
| 0.076962677 | 0.654426713 | 0.717 | 1 | 150297 | C22orf42 |
| 0.076962677 | 0.654426713 | 0.719 | 1 | 284370 | ZNF615 |
| 0.076962677 | 0.654426713 | 0.696 | 1 | 317649 | EIF4E3 |
| 0.076705277 | 0.655511864 | 0.732 | 1 | 928 | CD9 |
| 0.076705277 | 0.655511864 | 0.718 | 1 | 1506 | CTRL |
| 0.076705277 | 0.655511864 | 0.724 | 1 | 6772 | STAT1 |
| 0.076705277 | 0.655511864 | 0.709 | 1 | 23585 | TMEM50A |
| 0.076705277 | 0.655511864 | 0.738 | 1 | 51094 | ADIPOR1 |
| 0.076705277 | 0.655511864 | 0.714 | 1 | 80022 | MYO15B |
| 0.076447876 | 0.656597719 | 0.717 | 1 | 843 | CASP10 |
| 0.076447876 | 0.656597719 | 0.726 | 1 | 2232 | FDXR |
| 0.076447876 | 0.656597719 | 0.697 | 1 | 10645 | CAMKK2 |
| 0.076447876 | 0.656597719 | 0.704 | 1 | 22938 | SNW1 |
| 0.076447876 | 0.656597719 | 0.7 | 1 | 23076 | RRP1B |
| 0.076447876 | 0.656597719 | 0.696 | 1 | 221302 | ZUFSP |
| 0.076447876 | 0.656597719 | 0.685 | 1 | 285800 | PRR18 |
| 0.076190476 | 0.657684275 | 0.723 | 1 | 3399 | ID3 |
| 0.076190476 | 0.657684275 | 0.704 | 1 | 7542 | ZFPL1 |
| 0.076190476 | 0.657684275 | 0.699 | 1 | 10577 | NPC2 |
| 0.076190476 | 0.657684275 | 0.717 | 1 | 11147 | HHLA3 |
| 0.076190476 | 0.657684275 | 0.712 | 1 | 129303 | TMEM150A |

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| 0.01376636 | 0.206506083 | 130589 | GALM |
| 0.013722288 | 0.207962917 | 84501 | SPIRE2 |
| 0.013644377 | 0.210556486 | 84547 | PGBD1 |
| 0.013639383 | 0.210723521 | 90768 | MGC45800 |
| 0.013431444 | 0.217763934 | 2584 | GALK1 |
| 0.01340042 | 0.218828675 | 8754 | ADAM9 |
| 0.013344759 | 0.22074833 | 54531 | MIER2 |
| 0.013256946 | 0.223801321 | 527 | ATP6V0C |
| 0.013230383 | 0.224730765 | 22989 | MYH15 |
| 0.013165343 | 0.227018129 | 794 | CALB2 |
| 0.01315678 | 0.227320542 | 23236 | PLCB1 |
| 0.013136575 | 0.228035158 | 55721 | IQCC |
| 0.013125169 | 0.228439289 | 7546 | ZIC2 |
| 0.013114598 | 0.22881427 | 56122 | PCDHB14 |
| 0.013035794 | 0.231623578 | 390110 | ACCSL |
| 0.013003943 | 0.232765967 | 8139 | GAN |
| 0.012998449 | 0.232963429 | 2132 | EXT2 |
| 0.012984869 | 0.23345199 | 2967 | GTF2H3 |
| 0.012974934 | 0.233809902 | 83876 | MRO |
| 0.01297097 | 0.233952791 | 390431 | OR4K2 |
| 0.012956049 | 0.234491282 | 168474 | SEPHS1P1 |
| 0.012934927 | 0.235255015 | 10227 | MFSD10 |
| 0.012875531 | 0.237412187 | 766 | CA7 |
| 0.012787533 | 0.240633708 | 100170229 | AC006276.1 |
| 0.012769837 | 0.241285244 | 9603 | NFE2L3 |
| 0.012694596 | 0.244069367 | 3638 | INSIG1 |
| 0.012554635 | 0.249308118 | 386685 | KRTAP10-12 |
| 0.012519436 | 0.250637887 | 4009 | LMX1A |
| 0.012517887 | 0.250696527 | 535 | ATP6V0A1 |
| 0.012512526 | 0.250899539 | 402055 | SRRD |
| 0.012479917 | 0.252136788 | 646719 | LOC646719 |
| 0.012475567 | 0.252302162 | 80230 | RUFY1 |
| 0.012407178 | 0.25491194 | 285237 | C3orf38 |
| 0.012324394 | 0.25809607 | 89849 | ATG16L2 |
| 0.012235379 | 0.261550522 | 51170 | HSD17B11 |
| 0.012171616 | 0.264044573 | 23090 | ZNF423 |
| 0.012103428 | 0.266729811 | 6768 | ST14 |
| 0.012033412 | 0.269506473 | 92703 | TMEM183A |
| 0.011916563 | 0.274184486 | 2703 | GJA8 |
| 0.011890271 | 0.275244708 | 2631 | GBAS |
| 0.011760851 | 0.280504133 | 374819 | LRRC37A3 |
| 0.011733724 | 0.281615126 | 399947 | C11orf87 |
| 0.011630788 | 0.285858056 | 81872 | KRTAP2-3 |
| 0.011572501 | 0.288279643 | 1121 | CHM |
| 0.01153512 | 0.289839916 | 1479 | CSTF3 |
| 0.01150297 | 0.291186398 | 6731 | SRP72 |
| 0.011459706 | 0.293005007 | 57007 | CXCR7 |
| 0.011296765 | 0.299922414 | 10417 | SPON2 |
| 0.01128604 | 0.300381546 | 3615 | IMPDH2 |
| 0.011192972 | 0.304385152 | 23546 | SYNGR4 |
| 0.01116204 | 0.305723591 | 70 | ACTC1 |
| 0.01115288 | 0.306120695 | 5988 | RFPL1 |
| 0.011148735 | 0.306300498 | 503693 | LOH12CR2 |
| 0.011140394 | 0.30666252 | 7390 | UROS |
| 0.01104918 | 0.310640123 | 26000 | TBC1D10B |
| 0.011041893 | 0.310959367 | 708 | C1QBP |
| 0.010937098 | 0.315574156 | 5818 | PVRL1 |
| 0.010863259 | 0.318852589 | 4012 | LNPEP |
| 0.010758411 | 0.323546032 | 284367 | SIGLECP3 |
| 0.010658052 | 0.328080474 | 657 | BMPR1A |
| 0.010593865 | 0.331002126 | 8092 | ALX1 |
| 0.010542729 | 0.333341695 | 5688 | PSMA7 |
| 0.010455565 | 0.337354149 | 246176 | GAS2L2 |
| 0.010425155 | 0.338761308 | 50939 | IMPG2 |
| 0.010356988 | 0.34192924 | 6839 | SUV39H1 |
| 0.010338102 | 0.342810275 | 2697 | GJA1 |
| 0.010311588 | 0.344049571 | 221687 | RNF182 |
| 0.01027996 | 0.345531693 | 5048 | PAFAH1B1 |
| 0.010274789 | 0.345774371 | 7064 | THOP1 |
| 0.010237813 | 0.347513014 | 83551 | TAAR8 |
| 0.010149538 | 0.35168619 | 734 | OSGIN2 |
| 0.010108371 | 0.353643158 | 8740 | TNFSF14 |
| 0.010085072 | 0.354753795 | 4548 | MTR |
| 0.010034422 | 0.357175737 | 25807 | RHBDD3 |
| 0.00994089 | 0.36167552 | 388325 | SCIMP |
| 0.009875458 | 0.364844422 | 9895 | TECPR2 |
| 0.009847423 | 0.366207465 | 29964 | PRICKLE4 |
| 0.009822811 | 0.367406707 | 64319 | FBRS |
| 0.009813243 | 0.367873581 | 114042 | LINC00334 |
| 0.009810101 | 0.368026995 | 149951 | COMMD7 |
| 0.009806092 | 0.368222782 | 284309 | ZNF776 |
| 0.009795386 | 0.368745894 | 6343 | SCT |

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| 0.076190476 | 0.657684275 | 0.72 | 1 | 163782 | KANK4 |
| 0.075933076 | 0.658771532 | 0.719 | 1 | 4580 | MTX1 |
| 0.075933076 | 0.658771532 | 0.722 | 1 | 80830 | APOL6 |
| 0.075933076 | 0.658771532 | 0.708 | 1 | 92241 | RCSD1 |
| 0.075933076 | 0.658771532 | 0.717 | 1 | 123811 | C16orf63 |
| 0.075933076 | 0.658771532 | 0.726 | 1 | 400916 | CHCHD10 |
| 0.075933076 | 0.658771532 | 0.77 | 1 | 649946 | RPL23AP64 |
| 0.075675676 | 0.659859487 | 0.73 | 1 | 1960 | EGR3 |
| 0.075675676 | 0.659859487 | 0.724 | 1 | 10782 | ZNF274 |
| 0.075675676 | 0.659859487 | 0.735 | 1 | 23389 | MED13L |
| 0.075675676 | 0.659859487 | 0.731 | 1 | 25932 | CLIC4 |
| 0.075675676 | 0.659859487 | 0.716 | 1 | 286336 | FAM78A |
| 0.075675676 | 0.659859487 | 0.71 | 1 | 400931 | RP4-695O20__B.1 |
| 0.075675676 | 0.659859487 | 0.728 | 1 | 400960 | PCBP1-AS1 |
| 0.075418275 | 0.660948137 | 0.701 | 1 | 210 | ALAD |
| 0.075418275 | 0.660948137 | 0.731 | 1 | 1616 | DAXX |
| 0.075418275 | 0.660948137 | 0.734 | 1 | 4669 | NAGLU |
| 0.075160875 | 0.662037482 | 0.742 | 1 | 11022 | TDRKH |
| 0.075160875 | 0.662037482 | 0.71 | 1 | 54739 | XAF1 |
| 0.075160875 | 0.662037482 | 0.73 | 1 | 220929 | ZNF438 |
| 0.075160875 | 0.662037482 | 0.708 | 1 | 403315 | FAM92A3 |
| 0.074903475 | 0.66312752 | 0.73 | 1 | 5082 | PDCL |
| 0.074903475 | 0.66312752 | 0.74 | 1 | 6856 | SYPL1 |
| 0.074903475 | 0.66312752 | 0.707 | 1 | 7803 | PTP4A1 |
| 0.074903475 | 0.66312752 | 0.698 | 1 | 23192 | ATG4B |
| 0.074903475 | 0.66312752 | 0.747 | 1 | 51629 | SLC25A39 |
| 0.074903475 | 0.66312752 | 0.723 | 1 | 57109 | REXO4 |
| 0.074903475 | 0.66312752 | 0.722 | 1 | 286527 | TMSB15B |
| 0.074646075 | 0.664218247 | 0.718 | 1 | 3431 | SP110 |
| 0.074646075 | 0.664218247 | 0.694 | 1 | 7403 | KDM6A |
| 0.074646075 | 0.664218247 | 0.73 | 1 | 7673 | ZNF222 |
| 0.074646075 | 0.664218247 | 0.728 | 1 | 28974 | C19orf53 |
| 0.074646075 | 0.664218247 | 0.71 | 1 | 54893 | MTMR10 |
| 0.074646075 | 0.664218247 | 0.729 | 1 | 790955 | C11orf83 |
| 0.074388674 | 0.665309663 | 0.714 | 1 | 3361 | HTR5A |
| 0.074388674 | 0.665309663 | 0.735 | 1 | 3698 | ITIH2 |
| 0.074388674 | 0.665309663 | 0.726 | 1 | 7941 | PLA2G7 |
| 0.074388674 | 0.665309663 | 0.733 | 1 | 9721 | GPRIN2 |
| 0.074388674 | 0.665309663 | 0.74 | 1 | 54800 | KLHL24 |
| 0.074388674 | 0.665309663 | 0.72 | 1 | 64135 | IFIH1 |
| 0.074388674 | 0.665309663 | 0.706 | 1 | 79041 | TMEM38A |
| 0.074388674 | 0.665309663 | 0.733 | 1 | 148266 | ZNF569 |
| 0.074131274 | 0.666401765 | 0.733 | 1 | 3155 | HMGCL |
| 0.074131274 | 0.666401765 | 0.733 | 1 | 344901 | OSTN |
| 0.074131274 | 0.666401765 | 0.731 | 1 | 399744 | LOC399744 |
| 0.073873874 | 0.667494551 | 0.721 | 1 | 2986 | GUCY2F |
| 0.073873874 | 0.667494551 | 0.736 | 1 | 5891 | RAGE |
| 0.073873874 | 0.667494551 | 0.729 | 1 | 10425 | ARIH2 |
| 0.073873874 | 0.667494551 | 0.72 | 1 | 10732 | TCFL5 |
| 0.073873874 | 0.667494551 | 0.754 | 1 | 83394 | PITPNM3 |
| 0.073873874 | 0.667494551 | 0.742 | 1 | 127428 | C1orf83 |
| 0.073616474 | 0.66858802 | 0.723 | 1 | 2517 | FUCA1 |
| 0.073616474 | 0.66858802 | 0.719 | 1 | 4128 | MAOA |
| 0.073616474 | 0.66858802 | 0.707 | 1 | 5375 | PMP2 |
| 0.073616474 | 0.66858802 | 0.718 | 1 | 9344 | TAOK2 |
| 0.073616474 | 0.66858802 | 0.716 | 1 | 9552 | SPAG7 |
| 0.073616474 | 0.66858802 | 0.725 | 1 | 118472 | ZNF511 |
| 0.073616474 | 0.66858802 | 0.736 | 1 | 100288083 | LOC100288083 |
| 0.073359073 | 0.669682169 | 0.717 | 1 | 23473 | CAPN7 |
| 0.073359073 | 0.669682169 | 0.763 | 1 | 29124 | LGALS13 |
| 0.073359073 | 0.669682169 | 0.739 | 1 | 400410 | ST20 |
| 0.073101673 | 0.670776996 | 0.759 | 1 | 4604 | MYBPC1 |
| 0.073101673 | 0.670776996 | 0.713 | 1 | 4862 | NPAS2 |
| 0.073101673 | 0.670776996 | 0.717 | 1 | 10669 | CGREF1 |
| 0.073101673 | 0.670776996 | 0.714 | 1 | 63906 | GPATCH3 |
| 0.073101673 | 0.670776996 | 0.731 | 1 | 285671 | RNF180 |
| 0.072844273 | 0.6718725 | 0.748 | 1 | 5092 | PCBD1 |
| 0.072844273 | 0.6718725 | 0.728 | 1 | 51155 | HN1 |
| 0.072844273 | 0.6718725 | 0.72 | 1 | 100289361 | LOC100289361 |
| 0.072586873 | 0.672968679 | 0.718 | 1 | 4552 | MTRR |
| 0.072586873 | 0.672968679 | 0.72 | 1 | 27153 | ZNF777 |
| 0.072586873 | 0.672968679 | 0.737 | 1 | 55114 | ARHGAP17 |
| 0.072586873 | 0.672968679 | 0.731 | 1 | 83759 | RBM4B |
| 0.072586873 | 0.672968679 | 0.74 | 1 | 90835 | C16orf93 |
| 0.072586873 | 0.672968679 | 0.732 | 1 | 554251 | FBXO48 |
| 0.072329472 | 0.67406553 | 0.714 | 1 | 1278 | COL1A2 |
| 0.072329472 | 0.67406553 | 0.743 | 1 | 2846 | LPAR4 |
| 0.072329472 | 0.67406553 | 0.717 | 1 | 5730 | PTGDS |
| 0.072329472 | 0.67406553 | 0.732 | 1 | 5947 | RBP1 |
| 0.072329472 | 0.67406553 | 0.717 | 1 | 11325 | DDX42 |
| 0.072329472 | 0.67406553 | 0.732 | 1 | 51103 | NDUFAF1 |
| 0.072072072 | 0.675163051 | 0.733 | 1 | 4841 | NONO |

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| 0.009719716 | 0.372456621 | 2975 | GTF3C1 |
| 0.009702314 | 0.373313278 | 23355 | VPS8 |
| 0.009700478 | 0.373403733 | 9249 | DHRS3 |
| 0.009659814 | 0.375410483 | 2797 | GNRH2 |
| 0.009620925 | 0.37733588 | 55 | ACPP |
| 0.009619033 | 0.377429681 | 727910 | TLCD2 |
| 0.009596695 | 0.378538556 | 7699 | ZNF140 |
| 0.009557823 | 0.380472975 | 2036 | EPB41L1 |
| 0.009469155 | 0.384908056 | 9721 | GPRIN2 |
| 0.009434141 | 0.386668107 | 347853 | TBX10 |
| 0.009422482 | 0.387255249 | 9993 | DGCR2 |
| 0.009298794 | 0.393517535 | 200420 | ALMS1P |
| 0.009289829 | 0.393973808 | 127700 | C1orf102 |
| 0.009128877 | 0.402219768 | 23620 | NTSR2 |
| 0.009022569 | 0.407722494 | 5216 | PFN1 |
| 0.008855067 | 0.416483151 | 116983 | ACAP3 |
| 0.008760158 | 0.42149602 | 3110 | MNX1 |
| 0.008760094 | 0.421499377 | 89801 | PPP1R3F |
| 0.008683524 | 0.425569314 | 2961 | GTF2E2 |
| 0.008659012 | 0.426877029 | 2636 | GBX1 |
| 0.008629533 | 0.428452824 | 1053 | CEBPE |
| 0.008626207 | 0.428630829 | 100131390 | SP9 |
| 0.00858677 | 0.430744706 | 55154 | MSTO1 |
| 0.008422517 | 0.439613734 | 85453 | AP003115.1 |
| 0.008386375 | 0.441579232 | 440934 | AC010980.2 |
| 0.008357286 | 0.443164854 | 78994 | PRR14 |
| 0.00829534 | 0.446552215 | 4841 | NONO |
| 0.00822507 | 0.450412592 | 84516 | DCTN5 |
| 0.008209725 | 0.451258072 | 23521 | RPL13A |
| 0.008088419 | 0.457973454 | 128387 | TATDN3 |
| 0.008087502 | 0.458024436 | 8642 | DCHS1 |
| 0.008042082 | 0.460553385 | 55845 | BRK1 |
| 0.0079752 | 0.464291453 | 284382 | ACTL9 |
| 0.00796601 | 0.464806413 | 54972 | TMEM132A |
| 0.007925037 | 0.467106096 | 100129094 | BTNL10 |
| 0.007881954 | 0.469531065 | 5892 | RAD51L3 |
| 0.007844314 | 0.471655321 | 375449 | MAST4 |
| 0.007822521 | 0.472887687 | 445815 | PALM2-AKAP2 |
| 0.007772832 | 0.475704046 | 79366 | NSBP1 |
| 0.007592794 | 0.485985334 | 57127 | RHBG |
| 0.007558163 | 0.487976641 | 9997 | SCO2 |
| 0.007538299 | 0.489120823 | 6003 | RGS13 |
| 0.007495113 | 0.491613369 | 56999 | ADAMTS9 |
| 0.007431524 | 0.495295894 | 89886 | SLAMF9 |
| 0.007418919 | 0.496027613 | 81697 | OR2B2 |
| 0.007366611 | 0.499070225 | 120526 | DNAJC24 |
| 0.007338514 | 0.500708611 | 6273 | S100A2 |
| 0.007229698 | 0.507080729 | 10402 | ST3GAL6 |
| 0.007153149 | 0.511588737 | 85443 | DCLK3 |
| 0.007143218 | 0.512175119 | 4294 | MAP3K10 |
| 0.007140767 | 0.512319895 | 91039 | DPP9 |
| 0.006970045 | 0.522456102 | 27352 | SGSM3 |
| 0.006962473 | 0.522908044 | 83723 | FAM57B |
| 0.006935265 | 0.524533619 | 8085 | MLL2 |
| 0.006908786 | 0.526118132 | 389538 | MGC72080 |
| 0.006905146 | 0.52633618 | 10531 | PITRM1 |
| 0.006778428 | 0.533954354 | 402665 | IGLON5 |
| 0.00676235 | 0.534924908 | 84616 | KRTAP4-4 |
| 0.006733282 | 0.536681911 | 24142 | NAT6 |
| 0.006711514 | 0.537999527 | 55005 | RMND1 |
| 0.006685535 | 0.539574164 | 8454 | CUL1 |
| 0.006680633 | 0.539871523 | 203197 | C9orf91 |
| 0.006674501 | 0.540243651 | 6978 | TRGV5 |
| 0.00661821 | 0.543665586 | 3949 | LDLR |
| 0.006585132 | 0.545681449 | 7732 | RNF112 |
| 0.006528647 | 0.549132261 | 9152 | SLC6A5 |
| 0.006520793 | 0.549612956 | 55740 | ENAH |
| 0.006428968 | 0.555248114 | 147694 | ZNF548 |
| 0.006413952 | 0.556172341 | 64400 | AKTIP |
| 0.00625078 | 0.56626311 | 83882 | TSPAN10 |
| 0.006219788 | 0.568189583 | 6775 | STAT4 |
| 0.006153045 | 0.572348978 | 125931 | CEACAM20 |
| 0.006040183 | 0.579415179 | 54682 | MANSC1 |
| 0.005982749 | 0.583026709 | 84065 | TMEM222 |
| 0.005939401 | 0.585759475 | 1622 | DBI |
| 0.005922426 | 0.586831205 | 80856 | KIAA1715 |
| 0.005799098 | 0.594644882 | 3981 | LIG4 |
| 0.005771977 | 0.596369542 | 653121 | ZBTB8A |
| 0.005742996 | 0.598214958 | 57093 | TRIM49 |
| 0.005642307 | 0.604646699 | 5002 | SLC22A18 |
| 0.005611675 | 0.60660951 | 128488 | WFDC12 |
| 0.00559465 | 0.607701604 | 84457 | PHYHIP |

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| 0.072072072 | 0.675163051 | 0.746 | 1 | 79611 | ACSS3 |
| 0.072072072 | 0.675163051 | 0.735 | 1 | 132430 | PABPC4L |
| 0.071814672 | 0.676261241 | 0.742 | 1 | 4323 | MMP14 |
| 0.071814672 | 0.676261241 | 0.759 | 1 | 7064 | THOP1 |
| 0.071814672 | 0.676261241 | 0.722 | 1 | 79134 | TMEM185B |
| 0.071814672 | 0.676261241 | 0.723 | 1 | 84874 | ZNF514 |
| 0.071557272 | 0.677360098 | 0.753 | 1 | 714 | C1QC |
| 0.071557272 | 0.677360098 | 0.735 | 1 | 926 | CD8B |
| 0.071557272 | 0.677360098 | 0.738 | 1 | 2157 | F8 |
| 0.071557272 | 0.677360098 | 0.718 | 1 | 3434 | IFIT1 |
| 0.071557272 | 0.677360098 | 0.719 | 1 | 4676 | NAP1L4 |
| 0.071557272 | 0.677360098 | 0.749 | 1 | 4793 | NFKBIB |
| 0.071557272 | 0.677360098 | 0.751 | 1 | 8549 | LGR5 |
| 0.071557272 | 0.677360098 | 0.75 | 1 | 10981 | RAB32 |
| 0.071557272 | 0.677360098 | 0.748 | 1 | 84987 | C12orf62 |
| 0.071299871 | 0.678459618 | 0.758 | 1 | 5318 | PKP2 |
| 0.071299871 | 0.678459618 | 0.719 | 1 | 7873 | ARMET |
| 0.071299871 | 0.678459618 | 0.756 | 1 | 23005 | MAPKBP1 |
| 0.071299871 | 0.678459618 | 0.741 | 1 | 65124 | ANKRD57 |
| 0.071299871 | 0.678459618 | 0.725 | 1 | 151354 | FAM84A |
| 0.071042471 | 0.679559802 | 0.736 | 1 | 2124 | EVI2B |
| 0.070785071 | 0.680660645 | 0.714 | 1 | 921 | CD5 |
| 0.070785071 | 0.680660645 | 0.732 | 1 | 3113 | HLA-DPA1 |
| 0.070785071 | 0.680660645 | 0.717 | 1 | 9440 | MED17 |
| 0.070785071 | 0.680660645 | 0.729 | 1 | 10964 | IFI44L |
| 0.070785071 | 0.680660645 | 0.728 | 1 | 51302 | CYP39A1 |
| 0.070785071 | 0.680660645 | 0.733 | 1 | 64374 | SIL1 |
| 0.070527671 | 0.681762147 | 0.733 | 1 | 5710 | PSMD4 |
| 0.070527671 | 0.681762147 | 0.757 | 1 | 54465 | ETAA1 |
| 0.070527671 | 0.681762147 | 0.749 | 1 | 57409 | MIF4GD |
| 0.070527671 | 0.681762147 | 0.736 | 1 | 84273 | NOA1 |
| 0.070527671 | 0.681762147 | 0.742 | 1 | 159013 | CXorf38 |
| 0.07027027 | 0.682864306 | 0.761 | 1 | 7078 | TIMP3 |
| 0.07027027 | 0.682864306 | 0.747 | 1 | 57128 | LYRM4 |
| 0.07027027 | 0.682864306 | 0.748 | 1 | 79857 | AC024940.3 |
| 0.07027027 | 0.682864306 | 0.728 | 1 | 84913 | ATOH8 |
| 0.07001287 | 0.683967119 | 0.731 | 1 | 2108 | ETFA |
| 0.07001287 | 0.683967119 | 0.741 | 1 | 8863 | PER3 |
| 0.07001287 | 0.683967119 | 0.756 | 1 | 55303 | GIMAP4 |
| 0.07001287 | 0.683967119 | 0.763 | 1 | 160335 | TMTC2 |
| 0.06975547 | 0.685070584 | 0.754 | 1 | 29907 | SNX15 |
| 0.06975547 | 0.685070584 | 0.746 | 1 | 148022 | TICAM1 |
| 0.069498069 | 0.686174699 | 0.739 | 1 | 51734 | SEPX1 |
| 0.069498069 | 0.686174699 | 0.732 | 1 | 54899 | PXK |
| 0.069498069 | 0.686174699 | 0.735 | 1 | 440515 | ZNF506 |
| 0.069240669 | 0.687279463 | 0.745 | 1 | 25805 | BAMBI |
| 0.069240669 | 0.687279463 | 0.762 | 1 | 152559 | PAQR3 |
| 0.068983269 | 0.688384873 | 0.753 | 1 | 1355 | COX15 |
| 0.068983269 | 0.688384873 | 0.748 | 1 | 9121 | SLC16A5 |
| 0.068983269 | 0.688384873 | 0.757 | 1 | 23405 | DICER1 |
| 0.068983269 | 0.688384873 | 0.736 | 1 | 51021 | MRPS16 |
| 0.068983269 | 0.688384873 | 0.725 | 1 | 64418 | TMEM168 |
| 0.068983269 | 0.688384873 | 0.744 | 1 | 79684 | C11orf61 |
| 0.068725869 | 0.689490926 | 0.761 | 1 | 333 | APLP1 |
| 0.068725869 | 0.689490926 | 0.747 | 1 | 2803 | GOLGA4 |
| 0.068725869 | 0.689490926 | 0.759 | 1 | 4040 | LRP6 |
| 0.068468468 | 0.690597623 | 0.752 | 1 | 1376 | CPT2 |
| 0.068468468 | 0.690597623 | 0.758 | 1 | 3371 | TNC |
| 0.068468468 | 0.690597623 | 0.722 | 1 | 84619 | ZGPAT |
| 0.068211068 | 0.691704959 | 0.753 | 1 | 11015 | KDELR3 |
| 0.068211068 | 0.691704959 | 0.753 | 1 | 23194 | FBXL7 |
| 0.068211068 | 0.691704959 | 0.759 | 1 | 23506 | KIAA0240 |
| 0.068211068 | 0.691704959 | 0.767 | 1 | 85001 | CTD-2514K5.2 |
| 0.067953668 | 0.692812933 | 0.746 | 1 | 2873 | GPS1 |
| 0.067953668 | 0.692812933 | 0.746 | 1 | 3675 | ITGA3 |
| 0.067953668 | 0.692812933 | 0.739 | 1 | 83597 | RTP3 |
| 0.067696268 | 0.693921543 | 0.734 | 1 | 91869 | RFT1 |
| 0.067438867 | 0.695030787 | 0.755 | 1 | 123803 | NTAN1 |
| 0.067438867 | 0.695030787 | 0.749 | 1 | 133121 | ENPP6 |
| 0.067181467 | 0.696140663 | 0.738 | 1 | 7307 | U2AF1 |
| 0.067181467 | 0.696140663 | 0.759 | 1 | 51281 | ANKMY1 |
| 0.067181467 | 0.696140663 | 0.755 | 1 | 55900 | ZNF302 |
| 0.066924067 | 0.697251168 | 0.781 | 1 | 4163 | MCC |
| 0.066924067 | 0.697251168 | 0.751 | 1 | 7692 | ZNF133 |
| 0.066924067 | 0.697251168 | 0.749 | 1 | 7884 | SLBP |
| 0.066924067 | 0.697251168 | 0.729 | 1 | 9129 | PRPF3 |
| 0.066924067 | 0.697251168 | 0.739 | 1 | 26099 | C1orf144 |
| 0.066924067 | 0.697251168 | 0.741 | 1 | 56246 | MRAP |
| 0.066924067 | 0.697251168 | 0.727 | 1 | 84068 | SLC10A7 |
| 0.066666667 | 0.698362301 | 0.752 | 1 | 393 | ARHGAP4 |
| 0.066666667 | 0.698362301 | 0.747 | 1 | 51318 | MRPL35 |
| 0.066666667 | 0.698362301 | 0.76 | 1 | 54785 | C17orf59 |

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| 0.005547349 | 0.61074055 | 624 | BDKRB2 |
| 0.005462663 | 0.616198071 | 50805 | IRX4 |
| 0.00539554 | 0.62053895 | 728621 | CCDC30 |
| 0.005312332 | 0.625938414 | 54442 | KCTD5 |
| 0.005254908 | 0.629676456 | 161394 | SAMD15 |
| 0.005178067 | 0.634693297 | 91147 | TMEM67 |
| 0.00517004 | 0.635218384 | 4583 | MUC2 |
| 0.005127744 | 0.637988023 | 23011 | RAB21 |
| 0.00502665 | 0.644628271 | 79869 | CPSF7 |
| 0.00502458 | 0.64476452 | 4994 | OR3A1 |
| 0.004999901 | 0.646390011 | 83538 | TTC25 |
| 0.004905035 | 0.652654132 | 54432 | YIPF1 |
| 0.004842988 | 0.656764496 | 219 | ALDH1B1 |
| 0.004794313 | 0.65999631 | 5223 | PGAM1 |
| 0.004762945 | 0.662082364 | 1340 | COX6B1 |
| 0.004694527 | 0.666641422 | 55593 | OTUD5 |
| 0.004570986 | 0.674904841 | 23219 | FBXO28 |
| 0.004564305 | 0.675352877 | 9422 | ZNF264 |
| 0.004558125 | 0.67576741 | 201965 | RWDD4A |
| 0.004368733 | 0.688517729 | 1877 | E4F1 |
| 0.004120854 | 0.705339786 | 283514 | SIAH3 |
| 0.004096987 | 0.706967258 | 64755 | C16orf58 |
| 0.004044384 | 0.710558996 | 83943 | IMMP2L |
| 0.004035034 | 0.711198083 | 121599 | SPIC |
| 0.004022659 | 0.712044303 | 9797 | TATDN2 |
| 0.004012642 | 0.712729458 | 100131733 | USP30-AS1 |
| 0.003985181 | 0.714609044 | 10213 | PSMD14 |
| 0.003960869 | 0.716274617 | 2330 | FMO5 |
| 0.003907324 | 0.719947481 | 3084 | NRG1 |
| 0.003801482 | 0.727226681 | 2819 | GPD1 |
| 0.003798073 | 0.727461531 | 9296 | ATP6V1F |
| 0.003724807 | 0.73251539 | 80789 | INTS5 |
| 0.003683473 | 0.735371712 | 9110 | MTMR4 |
| 0.003653783 | 0.737425719 | 51316 | PLAC8 |
| 0.003628815 | 0.739154463 | 51390 | AIG1 |
| 0.003616001 | 0.740042194 | 3633 | INPP5B |
| 0.003572829 | 0.743035607 | 81034 | SLC25A32 |
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| 0.003346967 | 0.758758641 | 120227 | CYP2R1 |
| 0.003336134 | 0.759515355 | 80108 | ZFP2 |
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| 0.002999485 | 0.783141975 | 58155 | PTBP2 |
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| 0.0024962 | 0.818832926 | 11037 | STON1 |
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| 0.001732355 | 0.873702526 | 6447 | SCG5 |
| 0.001672034 | 0.878065227 | 5550 | PREP |
| 0.001652217 | 0.879499319 | 64446 | DNAI2 |
| 0.001537122 | 0.887835944 | 64601 | VPS16A |
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| 0.063835264 | 0.710625591 | 0.756 | 1 | 131408 | FAM131A |
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| 0.063835264 | 0.710625591 | 0.774 | 1 | 387787 | AP001372.1 |
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| 0.062548263 | 0.716224079 | 0.775 | 1 | 10744 | PTTG2 |
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| 0.001062802 | 0.922313086 | 10438 | C1D |
| 0.000991274 | 0.927526622 | 22854 | NTNG1 |
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| 0.000974693 | 0.928735612 | 814 | CAMK4 |
| 0.000964402 | 0.929486081 | 154796 | AMOT |
| 0.000954565 | 0.930203504 | 341883 | LRRC9 |
| 0.000782612 | 0.942752501 | 57555 | NLGN2 |
| 0.000692909 | 0.949304781 | 394 | ARHGAP5 |
| 0.000603701 | 0.95582434 | 143282 | FGFBP3 |
| 0.000556866 | 0.959248353 | 27339 | PRPF19 |
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| 0.000500173 | 0.963394091 | 136371 | ASB10 |
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| 0.000346451 | 0.974639835 | 128826 | C20orf166 |
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| 0.000168562 | 0.987659724 | 285989 | ZNF789 |
| 8.87035E-05 | 0.993505898 | 339448 | C1orf174 |
| 3.78988E-05 | 0.997225351 | 163059 | ZNF433 |
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| -0.00079135 | 0.942114387 | 8694 | DGAT1 |
| -0.000851886 | 0.937695024 | 126308 | MOBKL2A |
| -0.000916738 | 0.932962706 | 10014 | HDAC5 |
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| -0.0015507 | 0.886851787 | 2812 | GP1BB |
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| -0.001661876 | 0.878800279 | 1394 | CRHR1 |
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| -0.002375538 | 0.827448972 | 359821 | MRPL42P5 |
| -0.0023775 | 0.827308706 | 341019 | DCDC1 |
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| -0.003126879 | 0.774176402 | 8310 | ACOX3 |
| -0.003149472 | 0.772589428 | 5573 | PRKAR1A |
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| 0.061518662 | 0.720713534 | 0.745 | 1 | 5813 | PURA |
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| 0.061518662 | 0.720713534 | 0.772 | 1 | 11060 | WWP2 |
| 0.061518662 | 0.720713534 | 0.76 | 1 | 126308 | MOBKL2A |
| 0.061261261 | 0.721837361 | 0.773 | 1 | 4528 | MTIF2 |
| 0.061261261 | 0.721837361 | 0.785 | 1 | 6612 | SUMO3 |
| 0.061261261 | 0.721837361 | 0.788 | 1 | 126069 | ZNF491 |
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| 0.061261261 | 0.721837361 | 0.767 | 1 | 441308 | OR4F21 |
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| 0.061003861 | 0.722961769 | 0.775 | 1 | 55010 | C12orf48 |
| 0.061003861 | 0.722961769 | 0.784 | 1 | 57605 | PITPNM2 |
| 0.060746461 | 0.724086756 | 0.742 | 1 | 4947 | OAZ2 |
| 0.060746461 | 0.724086756 | 0.756 | 1 | 8242 | KDM5C |
| 0.060746461 | 0.724086756 | 0.76 | 1 | 117245 | HRASLS5 |
| 0.060746461 | 0.724086756 | 0.776 | 1 | 134145 | FAM173B |
| 0.06048906 | 0.725212319 | 0.765 | 1 | 3043 | HBB |
| 0.06048906 | 0.725212319 | 0.777 | 1 | 25976 | TIPARP |
| 0.06048906 | 0.725212319 | 0.768 | 1 | 202051 | AC135457.3 |
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| 0.05997426 | 0.727465168 | 0.773 | 1 | 56901 | NDUFA4L2 |
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| 0.05997426 | 0.727465168 | 0.802 | 1 | 117178 | SSX2IP |
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| 0.05971686 | 0.728592448 | 0.764 | 1 | 3670 | ISL1 |
| 0.05971686 | 0.728592448 | 0.808 | 1 | 51479 | ANKFY1 |
| 0.059459459 | 0.729720297 | 0.774 | 1 | 1743 | DLSTP |
| 0.059459459 | 0.729720297 | 0.774 | 1 | 26751 | SH3YL1 |
| 0.059459459 | 0.729720297 | 0.78 | 1 | 84910 | TMEM87B |
| 0.059459459 | 0.729720297 | 0.799 | 1 | 128077 | LIX1L |
| 0.059459459 | 0.729720297 | 0.792 | 1 | 199221 | DZIP1L |
| 0.059459459 | 0.729720297 | 0.761 | 1 | 283450 | C12orf51 |
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| 0.059202059 | 0.730848711 | 0.769 | 1 | 55722 | CEP72 |
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| 0.059202059 | 0.730848711 | 0.781 | 1 | 644192 | RP11-327J17.3 |
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| 0.058944659 | 0.731977689 | 0.763 | 1 | 4159 | MC3R |
| 0.058944659 | 0.731977689 | 0.79 | 1 | 134526 | ACOT12 |
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| 0.058944659 | 0.731977689 | 0.768 | 1 | 388419 | BTBD17 |
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| 0.058687259 | 0.733107228 | 0.771 | 1 | 5465 | PPARA |
| 0.058687259 | 0.733107228 | 0.767 | 1 | 9123 | SLC16A3 |
| 0.058687259 | 0.733107228 | 0.785 | 1 | 80312 | TET1 |
| 0.058687259 | 0.733107228 | 0.772 | 1 | 85465 | AC010896.1 |
| 0.058687259 | 0.733107228 | 0.788 | 1 | 93550 | ANUBL1 |
| 0.058687259 | 0.733107228 | 0.793 | 1 | 353500 | BMP8A |
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| 0.057915058 | 0.736499193 | 0.783 | 1 | 3460 | IFNGR2 |
| 0.057915058 | 0.736499193 | 0.786 | 1 | 4988 | OPRM1 |
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| 0.057657658 | 0.737630956 | 0.786 | 1 | 4752 | NEK3 |
| 0.057657658 | 0.737630956 | 0.788 | 1 | 10497 | UNC13B |
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| -0.00393324 | 0.718169006 | 10585 | POMT1 |
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| -0.00436218 | 0.688960521 | 51305 | KCNK9 |
| -0.004370276 | 0.688413512 | 3360 | HTR4 |
| -0.00438123 | 0.687673674 | 23508 | TTC9 |
| -0.004597166 | 0.673150432 | 55209 | SETD5 |
| -0.004629891 | 0.67095982 | 5382 | PMS2P4 |
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| -0.006227988 | 0.567679601 | 22824 | HSPA4L |
| -0.006293744 | 0.563597683 | 8216 | LZTR1 |
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| 0.056885457 | 0.741029539 | 0.801 | 1 | 4781 | NFIB |
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| 0.056628057 | 0.742163491 | 0.79 | 1 | 2581 | GALC |
| 0.056628057 | 0.742163491 | 0.779 | 1 | 10517 | FBXW10 |
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| 0.054311454 | 0.752393159 | 0.81 | 1 | 6578 | SLCO2A1 |
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| 0.053281853 | 0.756953333 | 0.803 | 1 | 54961 | SSH3 |
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| 0.053024453 | 0.758094664 | 0.836 | 1 | 3423 | IDS |
| 0.053024453 | 0.758094664 | 0.817 | 1 | 6430 | SFRS5 |
| 0.053024453 | 0.758094664 | 0.798 | 1 | 6923 | TCEB2 |
| 0.053024453 | 0.758094664 | 0.799 | 1 | 8350 | HIST1H3A |
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| 0.052252252 | 0.761521707 | 0.816 | 1 | 51090 | PLLP |
| 0.052252252 | 0.761521707 | 0.815 | 1 | 79723 | SUV39H2 |
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| 0.051994852 | 0.762665065 | 0.828 | 1 | 9683 | N4BP1 |
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| 0.051994852 | 0.762665065 | 0.798 | 1 | 131096 | KCNH8 |
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| 0.051737452 | 0.763808923 | 0.796 | 1 | 6940 | ZNF354A |
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| 0.051480051 | 0.764953281 | 0.811 | 1 | 2760 | GM2A |
| 0.051480051 | 0.764953281 | 0.815 | 1 | 9976 | CLEC2B |
| 0.051480051 | 0.764953281 | 0.81 | 1 | 26289 | AK5 |
| 0.051480051 | 0.764953281 | 0.796 | 1 | 50649 | ARHGEF4 |
| 0.051480051 | 0.764953281 | 0.816 | 1 | 51091 | SEPSECS |
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| -0.027990164 | 0.010204543 | 9070 | ASH2L |
| -0.028031718 | 0.010092752 | 51010 | EXOSC3 |
| -0.028052622 | 0.010036928 | 5432 | POLR2C |
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| -0.028106803 | 0.009893516 | 55352 | C17orf79 |
| -0.028197487 | 0.009657567 | 56965 | PARP6 |
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| -0.028318893 | 0.009349536 | 7643 | ZNF90 |
| -0.028323424 | 0.009338212 | 54841 | BIVM |
| -0.028417508 | 0.009105815 | 7379 | UPK2 |
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| -0.028635994 | 0.00858593 | 256691 | MAMDC2 |
| -0.028648484 | 0.008557028 | 5393 | EXOSC9 |
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| -0.02886122 | 0.008077937 | 100132977 | LOC100132977 |
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| -0.028986954 | 0.007806201 | 387751 | GVINP1 |
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| -0.029374162 | 0.007020061 | 54551 | MAGEL2 |
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| 0.037323037 | 0.828593241 | 0.839 | 1 | 6262 | RYR2 |
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| 0.037065637 | 0.829761809 | 0.864 | 1 | 115209 | OMA1 |
| 0.037065637 | 0.829761809 | 0.85 | 1 | 138724 | C9orf131 |
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| 0.036293436 | 0.833269688 | 0.873 | 1 | 51201 | ZDHHC2 |
| 0.036293436 | 0.833269688 | 0.848 | 1 | 285195 | SLC9A9 |
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| 0.036036036 | 0.834439698 | 0.849 | 1 | 1345 | COX6C |
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| 0.035778636 | 0.835610063 | 0.86 | 1 | 2994 | GYPB |
| 0.035778636 | 0.835610063 | 0.871 | 1 | 3615 | IMPDH2 |
| 0.035778636 | 0.835610063 | 0.851 | 1 | 5252 | PHF1 |
| 0.035778636 | 0.835610063 | 0.874 | 1 | 7188 | TRAF5 |
| 0.035778636 | 0.835610063 | 0.86 | 1 | 9341 | VAMP3 |
| 0.035778636 | 0.835610063 | 0.876 | 1 | 54991 | C1orf159 |
| 0.035778636 | 0.835610063 | 0.871 | 1 | 151230 | KLHL23 |
| 0.035778636 | 0.835610063 | 0.875 | 1 | 389337 | AC022100.1 |
| 0.035778636 | 0.835610063 | 0.888 | 1 | 728695 | SPANXB1 |
| 0.035521236 | 0.83678078 | 0.843 | 1 | 3459 | IFNGR1 |
| 0.035521236 | 0.83678078 | 0.872 | 1 | 5450 | POU2AF1 |
| 0.035521236 | 0.83678078 | 0.867 | 1 | 8690 | JRKL |
| 0.035521236 | 0.83678078 | 0.847 | 1 | 8814 | CDKL1 |
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| 0.035263835 | 0.837951847 | 0.867 | 1 | 1117 | CHI3L2 |
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| 0.035263835 | 0.837951847 | 0.87 | 1 | 56475 | RPRM |
| 0.035263835 | 0.837951847 | 0.878 | 1 | 92979 | MARCHF9 |
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| 0.035263835 | 0.837951847 | 0.879 | 1 | 340277 | C7orf46 |
| 0.035006435 | 0.839123262 | 0.861 | 1 | 521 | ATP5I |
| 0.035006435 | 0.839123262 | 0.863 | 1 | 8737 | RIPK1 |
| 0.035006435 | 0.839123262 | 0.874 | 1 | 10362 | HMG20B |
| 0.035006435 | 0.839123262 | 0.869 | 1 | 50862 | RNF141 |
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| 0.035006435 | 0.839123262 | 0.872 | 1 | 100170841 | C17orf96 |
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| 0.034749035 | 0.840295021 | 0.88 | 1 | 55530 | SVOP |
| 0.034749035 | 0.840295021 | 0.867 | 1 | 91300 | C19orf22 |
| 0.034749035 | 0.840295021 | 0.893 | 1 | 148229 | ATP8B3 |
| 0.034491634 | 0.841467122 | 0.857 | 1 | 23291 | FBXW11 |
| 0.034491634 | 0.841467122 | 0.875 | 1 | 51161 | C3orf18 |
| 0.034491634 | 0.841467122 | 0.848 | 1 | 94015 | TTYH2 |
| 0.034234234 | 0.842639564 | 0.874 | 1 | 3475 | IFRD1 |
| 0.034234234 | 0.842639564 | 0.891 | 1 | 5191 | PEX7 |
| 0.034234234 | 0.842639564 | 0.869 | 1 | 6548 | SLC9A1 |
| 0.034234234 | 0.842639564 | 0.881 | 1 | 11163 | NUDT4 |
| 0.034234234 | 0.842639564 | 0.896 | 1 | 390980 | ZNF805 |
| 0.033976834 | 0.843812343 | 0.856 | 1 | 2005 | ELK4 |
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| 0.033976834 | 0.843812343 | 0.871 | 1 | 5962 | RDX |
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| 0.033204633 | 0.84733268 | 0.864 | 1 | 10850 | CCL27 |
| 0.033204633 | 0.84733268 | 0.866 | 1 | 50937 | CDON |
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| 0.033204633 | 0.84733268 | 0.844 | 1 | 79969 | C6orf134 |
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| -0.029658981 | 0.006487978 | 5266 | PI3 |
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| -0.029913018 | 0.006044307 | 51015 | ISOC1 |
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| -0.030368245 | 0.005317104 | 64102 | TNMD |
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| -0.030583501 | 0.005001574 | 669 | BPGM |
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| -0.03199225 | 0.003321624 | 54995 | OXSM |
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| -0.033175505 | 0.002327186 | 644172 | LOC644172 |
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| 0.032947233 | 0.848506784 | 0.885 | 1 | 729648 | ZNF812 |
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| 0.032689833 | 0.849681214 | 0.897 | 1 | 25799 | ZNF324 |
| 0.032689833 | 0.849681214 | 0.871 | 1 | 27018 | NGFRAP1 |
| 0.032689833 | 0.849681214 | 0.899 | 1 | 51205 | ACP6 |
| 0.032689833 | 0.849681214 | 0.878 | 1 | 169792 | GLIS3 |
| 0.032432432 | 0.850855966 | 0.851 | 1 | 1119 | CHKA |
| 0.032432432 | 0.850855966 | 0.879 | 1 | 2697 | GJA1 |
| 0.032432432 | 0.850855966 | 0.872 | 1 | 6729 | SRP54 |
| 0.032432432 | 0.850855966 | 0.894 | 1 | 58498 | MYL7 |
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| 0.032432432 | 0.850855966 | 0.881 | 1 | 148870 | CCDC27 |
| 0.032432432 | 0.850855966 | 0.857 | 1 | 283131 | NEAT1 |
| 0.032175032 | 0.852031038 | 0.881 | 1 | 10541 | ANP32B |
| 0.032175032 | 0.852031038 | 0.862 | 1 | 84247 | LDOC1L |
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| 0.032175032 | 0.852031038 | 0.883 | 1 | 219287 | FAM123A |
| 0.031917632 | 0.853206429 | 0.86 | 1 | 5660 | PSAP |
| 0.031917632 | 0.853206429 | 0.878 | 1 | 96764 | TGS1 |
| 0.031660232 | 0.854382134 | 0.877 | 1 | 706 | TSPO |
| 0.031660232 | 0.854382134 | 0.886 | 1 | 2213 | FCGR2B |
| 0.031660232 | 0.854382134 | 0.888 | 1 | 3706 | ITPKA |
| 0.031660232 | 0.854382134 | 0.866 | 1 | 7576 | ZNF28 |
| 0.031660232 | 0.854382134 | 0.889 | 1 | 83874 | TBC1D10A |
| 0.031660232 | 0.854382134 | 0.874 | 1 | 84958 | SYTL1 |
| 0.031660232 | 0.854382134 | 0.87 | 1 | 196385 | DNAH10 |
| 0.031660232 | 0.854382134 | 0.888 | 1 | 387775 | SLC22A10 |
| 0.031402831 | 0.855558153 | 0.871 | 1 | 2683 | B4GALT1 |
| 0.031402831 | 0.855558153 | 0.873 | 1 | 5371 | PML |
| 0.031402831 | 0.855558153 | 0.888 | 1 | 9033 | PKD2L1 |
| 0.031402831 | 0.855558153 | 0.88 | 1 | 54498 | SMOX |
| 0.031402831 | 0.855558153 | 0.865 | 1 | 81844 | TRIM56 |
| 0.031402831 | 0.855558153 | 0.892 | 1 | 89857 | KLHL6 |
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| 0.031145431 | 0.856734482 | 0.894 | 1 | 7461 | CLIP2 |
| 0.031145431 | 0.856734482 | 0.881 | 1 | 55902 | ACSS2 |
| 0.031145431 | 0.856734482 | 0.886 | 1 | 84126 | ATRIP |
| 0.030888031 | 0.857911119 | 0.889 | 1 | 389 | RHOC |
| 0.030888031 | 0.857911119 | 0.879 | 1 | 596 | BCL2 |
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| 0.030888031 | 0.857911119 | 0.875 | 1 | 8626 | TP63 |
| 0.030888031 | 0.857911119 | 0.882 | 1 | 10327 | AKR1A1 |
| 0.030888031 | 0.857911119 | 0.903 | 1 | 27327 | TNRC6A |
| 0.030888031 | 0.857911119 | 0.876 | 1 | 55957 | LIN37 |
| 0.030888031 | 0.857911119 | 0.893 | 1 | 56477 | CCL28 |
| 0.030888031 | 0.857911119 | 0.877 | 1 | 170954 | KIAA1949 |
| 0.030630631 | 0.859088061 | 0.863 | 1 | 8349 | HIST2H2BE |
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| 0.030630631 | 0.859088061 | 0.869 | 1 | 10910 | SUGT1 |
| 0.030630631 | 0.859088061 | 0.884 | 1 | 23189 | KANK1 |
| 0.030630631 | 0.859088061 | 0.879 | 1 | 55205 | ZNF532 |
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| 0.03037323 | 0.860265306 | 0.898 | 1 | 29114 | TAGLN3 |
| 0.03037323 | 0.860265306 | 0.907 | 1 | 254559 | LOC254559 |
| 0.03011583 | 0.861442852 | 0.892 | 1 | 963 | CD53 |
| 0.03011583 | 0.861442852 | 0.874 | 1 | 4046 | LSP1 |
| 0.03011583 | 0.861442852 | 0.883 | 1 | 10351 | ABCA8 |
| 0.03011583 | 0.861442852 | 0.87 | 1 | 23193 | GANAB |
| 0.03011583 | 0.861442852 | 0.894 | 1 | 51228 | GLTP |
| 0.03011583 | 0.861442852 | 0.887 | 1 | 51440 | HPCAL4 |
| 0.03011583 | 0.861442852 | 0.89 | 1 | 84457 | PHYHIP |
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| 0.02985843 | 0.862620695 | 0.881 | 1 | 22898 | DENND3 |
| 0.02985843 | 0.862620695 | 0.884 | 1 | 92595 | ZNF764 |
| 0.02985843 | 0.862620695 | 0.877 | 1 | 401127 | AC021148.2 |
| 0.02960103 | 0.863798834 | 0.878 | 1 | 8692 | HYAL2 |
| 0.02960103 | 0.863798834 | 0.891 | 1 | 158747 | MOSPD2 |
| 0.02960103 | 0.863798834 | 0.891 | 1 | 285381 | DPH3 |
| 0.02960103 | 0.863798834 | 0.886 | 1 | 730087 | ZNF726 |
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| 0.029343629 | 0.864977266 | 0.892 | 1 | 7150 | TOP1 |
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| 0.029343629 | 0.864977266 | 0.879 | 1 | 51714 | SELT |
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| 0.029086229 | 0.866155989 | 0.892 | 1 | 2831 | NPBWR1 |
| 0.029086229 | 0.866155989 | 0.887 | 1 | 30834 | ZNRD1 |
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| 0.016731017 | 0.923027089 | 0.924 | 1 | 9879 | DDX46 |
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| -0.073746053 | 1.23544E-11 | 259217 | HSPA12A |
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| -0.073836264 | 1.16637E-11 | 51659 | GINS2 |
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| -0.074141092 | 9.59818E-12 | 83901 | KRTAP9-8 |
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| -0.074408935 | 8.08226E-12 | 6041 | RNASEL |
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| -0.006949807 | 0.968335913 | 0.968 | 1 | 89853 | FAM125B |
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| -0.007979408 | 0.963559433 | 0.972 | 1 | 9415 | FADS2 |
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| -0.150836551 | 0.378444513 | 0.476 | 1 | 20 | ABCA2 |
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| -0.152380952 | 0.373535478 | 0.473 | 1 | 5000 | ORC4 |
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| -0.214878464 | 1.49127E-88 | 7718 | ZNF165 |
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| -0.215923268 | 2.03451E-89 | 4291 | MLF1 |
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| -0.15984556 | 0.350350164 | 0.43 | 1 | 440915 | POTEKP |
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| -0.161904762 | 0.344113021 | 0.417 | 1 | 1485 | CTAG1B |
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| -0.218700951 | 9.6876E-92 | 2149 | F2R |
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| -0.171171171 | 0.316901382 | 0.422 | 1 | 9468 | PCYT1B |
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| -0.187902188 | 0.27132981 | 0.366 | 1 | 725 | C4BPB |
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| -0.210553411 | 0.2168906 | 0.324 | 1 | 5867 | RAB4A |
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| -0.211325611 | 0.215179638 | 0.308 | 1 | 85416 | ZIC5 |
| -0.211583012 | 0.214611411 | 0.334 | 1 | 5878 | RAB5C |
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| -0.212612613 | 0.21234896 | 0.302 | 1 | 2799 | GNS |
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| -0.212612613 | 0.21234896 | 0.294 | 1 | 23423 | TMED3 |
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| -0.213127413 | 0.211224 | 0.308 | 1 | 1645 | AKR1C1 |
| -0.213127413 | 0.211224 | 0.313 | 1 | 51669 | TMEM66 |
| -0.213127413 | 0.211224 | 0.33 | 1 | 89941 | RHOT2 |
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| -0.254338196 | 1.8204E-124 | 10210 | TOPORS |
| -0.254386593 | 1.6291E-124 | 79897 | RPP21 |
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| -0.25532903 | 1.8665E-125 | 5693 | PSMB5 |
| -0.255342719 | 1.8086E-125 | 10413 | YAP1 |
| -0.255420264 | 1.5127E-125 | 2495 | FTHL16 |
| -0.255472043 | 1.3425E-125 | 2304 | FOXE1 |
| -0.255505393 | 1.2431E-125 | 387646 | RP11-85G18.4 |
| -0.255587371 | 1.029E-125 | 10973 | ASCC3 |
| -0.255707087 | 7.8069E-126 | 7770 | ZNF227 |
| -0.255787313 | 6.4873E-126 | 51226 | COPZ2 |
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| -0.255864509 | 5.4283E-126 | 11201 | POLI |
| -0.255879616 | 5.2421E-126 | 2632 | GBE1 |
| -0.255931675 | 4.6483E-126 | 64599 | GIGYF1 |
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| -0.256000917 | 3.9611E-126 | 5526 | PPP2R5B |
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| -0.214157014 | 0.208986588 | 0.313 | 1 | 51121 | RPL26L1 |
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| -0.215444015 | 0.206213224 | 0.328 | 1 | 51123 | ZNF706 |
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| -0.216216216 | 0.204561658 | 0.328 | 1 | 3725 | JUN |
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| -0.216473616 | 0.204013208 | 0.29 | 1 | 1238 | CCBP2 |
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| -0.216731017 | 0.203465792 | 0.314 | 1 | 23078 | KIAA0564 |
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| -0.217245817 | 0.202374062 | 0.287 | 1 | 2703 | GJA8 |
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| -0.217245817 | 0.202374062 | 0.323 | 1 | 58527 | C6orf115 |
| -0.217245817 | 0.202374062 | 0.279 | 1 | 127540 | HMGB4 |
| -0.217245817 | 0.202374062 | 0.284 | 1 | 606551 | UBE2MP1 |
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| -0.217503218 | 0.201829746 | 0.289 | 1 | 9729 | KIAA0408 |
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| -0.217503218 | 0.201829746 | 0.33 | 1 | 643387 | LOC643387 |
| -0.217760618 | 0.201286463 | 0.309 | 1 | 5473 | PPBP |
| -0.217760618 | 0.201286463 | 0.304 | 1 | 10928 | RALBP1 |
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| -0.218532819 | 0.199662799 | 0.3 | 1 | 1427 | CRYGS |
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| -0.218532819 | 0.199662799 | 0.332 | 1 | 100144602 | RP11-807H7.1 |
| -0.218790219 | 0.199123638 | 0.296 | 1 | 3237 | HOXD11 |
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| -0.218790219 | 0.199123638 | 0.272 | 1 | 55502 | HES6 |
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| -0.257678561 | 8.0922E-128 | 57685 | CACHD1 |
| -0.257824233 | 5.7643E-128 | 55183 | RIF1 |
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| -0.257866913 | 5.2188E-128 | 728492 | SERF1B |
| -0.257869274 | 5.1902E-128 | 5116 | PCNT |
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| -0.25794822 | 4.318E-128 | 3183 | HNRNPC |
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| -0.257955002 | 4.2503E-128 | 26036 | ZNF451 |
| -0.258013009 | 3.7128E-128 | 146691 | TOM1L2 |
| -0.258038935 | 3.495E-128 | 729096 | RP11-464F9.1 |
| -0.258075774 | 3.2073E-128 | 146429 | SLC22A31 |
| -0.258084835 | 3.1403E-128 | 2873 | GPS1 |
| -0.258089956 | 3.103E-128 | 64236 | PDLIM2 |
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| -0.258202826 | 2.3847E-128 | 84749 | USP30 |
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| -0.258674448 | 7.9258E-129 | 2670 | GFAP |
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| -0.258726182 | 7.0227E-129 | 6166 | RPL36AL |
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| -0.243243243 | 0.152489117 | 0.257 | 1 | 404266 | RP11-357H14.1 |
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| -0.334404617 | 3.8948E-219 | 23283 | CSTF2T |
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| -0.337712095 | 1.0098E-223 | 5027 | P2RX7 |
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| -0.342241799 | 4.2761E-230 | 122704 | MRPL52 |
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| -0.336679537 | 0.04523524 | 0.111 | 1 | 199745 | THAP8 |
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| -0.34442529 | 3.316E-233 | 30813 | VSX1 |
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| -0.3729662 | 3.237E-276 | 5187 | PER1 |
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| -0.666189028 | < 0.001 | 644256 | DND1P2 |
| -0.666518419 | < 0.001 | 83482 | SCRT1 |
| -0.666613485 | < 0.001 | 100293090 | MTND4P12 |
| -0.667376977 | < 0.001 | 1506 | CTRL |
| -0.667496935 | < 0.001 | 29062 | WDR91 |
| -0.668230413 | < 0.001 | 3710 | ITPR3 |
| -0.668366536 | < 0.001 | 125058 | TBC1D16 |
| -0.668849258 | < 0.001 | 11035 | RIPK3 |
| -0.669110921 | < 0.001 | 138065 | RNF183 |
| -0.669346942 | < 0.001 | 91252 | SLC39A13 |
| -0.670308337 | < 0.001 | 100272228 | RP13-507I23.1 |
| -0.670394439 | < 0.001 | 3554 | IL1R1 |
| -0.671175598 | < 0.001 | 2277 | FIGF |
| -0.671564389 | < 0.001 | 91624 | NEXN |
| -0.671930185 | < 0.001 | 7222 | TRPC3 |
| -0.671995956 | < 0.001 | 57194 | ATP10A |
| -0.672856488 | < 0.001 | 64116 | SLC39A8 |
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| -0.673127959 | < 0.001 | 8743 | TNFSF10 |
| -0.673244075 | < 0.001 | 4017 | LOXL2 |
| -0.673280258 | < 0.001 | 27198 | HCAR1 |
| -0.673386392 | < 0.001 | 100130357 | LOC100130357 |
| -0.673829118 | < 0.001 | 56652 | C10orf2 |
| -0.673915618 | < 0.001 | 55340 | GIMAP5 |
| -0.674181444 | < 0.001 | 83714 | NRIP2 |
| -0.674227329 | < 0.001 | 57703 | CWC22 |
| -0.67532785 | < 0.001 | 127833 | SYT2 |
| -0.675655582 | < 0.001 | 3090 | HIC1 |
| -0.680164102 | < 0.001 | 51167 | CYB5R4 |
| -0.680531704 | < 0.001 | 23463 | ICMT |
| -0.683143327 | < 0.001 | 25788 | RAD54B |
| -0.683214626 | < 0.001 | 79940 | LINC00472 |
| -0.683786763 | < 0.001 | 90952 | ESAM |
| -0.684662824 | < 0.001 | 2296 | FOXC1 |
| -0.686463855 | < 0.001 | 79070 | KDELC1 |
| -0.6865622 | < 0.001 | 947 | CD34 |
| -0.687092533 | < 0.001 | 51705 | EMCN |
| -0.687163753 | < 0.001 | 81698 | LINC00597 |
| -0.68813329 | < 0.001 | 92162 | TMEM88 |
| -0.688490382 | < 0.001 | 27161 | EIF2C2 |
| -0.688824041 | < 0.001 | 26151 | NAT9 |
| -0.688911068 | < 0.001 | 2022 | ENG |
| -0.68900804 | < 0.001 | 100129781 | LOC100129781 |
| -0.690210555 | < 0.001 | 80760 | ITIH5 |
| -0.690531052 | < 0.001 | 116441 | TM4SF18 |
| -0.691864705 | < 0.001 | 7052 | TGM2 |
| -0.693459982 | < 0.001 | 6495 | SIX1 |
| -0.694580124 | < 0.001 | 149563 | C1orf64 |
| -0.695700745 | < 0.001 | 54586 | C9orf11 |
| -0.697356289 | < 0.001 | 22874 | PLEKHA6 |
| -0.697788814 | < 0.001 | 79652 | TMEM204 |
| -0.700181779 | < 0.001 | 9034 | CCRL2 |
| -0.700651866 | < 0.001 | 64981 | MRPL34 |
| -0.702457377 | < 0.001 | 3384 | ICAM2 |
| -0.704433314 | < 0.001 | 29842 | TFCP2L1 |
| -0.714264209 | < 0.001 | 286826 | LIN9 |
| -0.716432768 | < 0.001 | 317671 | RFESD |
| -0.724910017 | < 0.001 | 9934 | P2RY14 |

| | | | | | |
|---|---|---|---|---|---|
| -0.802316602 | 2.14202E-07 | < 0.001 | < 0.001 | 51304 | ZDHHC3 |
| -0.802831403 | 2.11521E-07 | < 0.001 | < 0.001 | 5864 | RAB3A |
| -0.803346203 | 2.0886E-07 | < 0.001 | < 0.001 | 79658 | ARHGAP10 |
| -0.805405405 | 1.98414E-07 | < 0.001 | < 0.001 | 768 | CA9 |
| -0.805405405 | 1.98414E-07 | < 0.001 | < 0.001 | 79827 | AP000926.2 |
| -0.806435006 | 1.93306E-07 | < 0.001 | < 0.001 | 1072 | CFL1 |
| -0.808236808 | 1.84544E-07 | < 0.001 | < 0.001 | 22903 | BTBD3 |
| -0.808751609 | 1.82081E-07 | < 0.001 | < 0.001 | 8618 | CADPS |
| -0.809266409 | 1.79635E-07 | < 0.001 | < 0.001 | 1001 | CDH3 |
| -0.81029601 | 1.74797E-07 | < 0.001 | < 0.001 | 54682 | MANSC1 |
| -0.811068211 | 1.71213E-07 | < 0.001 | < 0.001 | 401993 | OR2T5 |
| -0.814671815 | 1.54982E-07 | < 0.001 | < 0.001 | 10367 | CBARA1 |
| -0.816473616 | 1.47162E-07 | < 0.001 | < 0.001 | 8517 | IKBKG |
| -0.817503218 | 1.42779E-07 | < 0.001 | < 0.001 | 8724 | SNX3 |
| -0.81981982 | 1.33141E-07 | < 0.001 | < 0.001 | 26033 | ATRNL1 |
| -0.820592021 | 1.29997E-07 | < 0.001 | < 0.001 | 30845 | EHD3 |
| -0.821364221 | 1.26886E-07 | < 0.001 | < 0.001 | 283871 | PGP |
| -0.822393822 | 1.2279E-07 | < 0.001 | < 0.001 | 473 | RERE |
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| -0.822651223 | 1.21775E-07 | < 0.001 | < 0.001 | 3765 | KCNJ9 |
| -0.823423423 | 1.18752E-07 | < 0.001 | < 0.001 | 10531 | PITRM1 |
| -0.823423423 | 1.18752E-07 | < 0.001 | < 0.001 | 92609 | TIMM50 |
| -0.823423423 | 1.18752E-07 | < 0.001 | < 0.001 | 259217 | HSPA12A |
| -0.824453024 | 1.14773E-07 | < 0.001 | < 0.001 | 66004 | LYNX1 |
| -0.825482625 | 1.10852E-07 | < 0.001 | < 0.001 | 8078 | USP5 |
| -0.825997426 | 1.08913E-07 | < 0.001 | < 0.001 | 1826 | DSCAM |
| -0.826769627 | 1.06031E-07 | < 0.001 | < 0.001 | 10000 | AKT3 |
| -0.826769627 | 1.06031E-07 | < 0.001 | < 0.001 | 51316 | PLAC8 |
| -0.827027027 | 1.05077E-07 | < 0.001 | < 0.001 | 286097 | EFHA2 |
| -0.827541828 | 1.03181E-07 | < 0.001 | < 0.001 | 11012 | KLK11 |
| -0.827799228 | 1.02239E-07 | < 0.001 | < 0.001 | 57446 | NDRG3 |
| -0.82960103 | 9.57386E-08 | < 0.001 | < 0.001 | 7126 | TNFAIP1 |
| -0.82985843 | 9.48242E-08 | < 0.001 | < 0.001 | 81855 | SFXN3 |
| -0.830630631 | 9.21019E-08 | < 0.001 | < 0.001 | 8775 | NAPA |
| -0.832432432 | 8.58726E-08 | < 0.001 | < 0.001 | 728470 | LOC728470 |
| -0.833719434 | 8.15275E-08 | < 0.001 | < 0.001 | 79759 | ZNF668 |
| -0.833976834 | 8.06689E-08 | < 0.001 | < 0.001 | 9912 | AC005277.1 |
| -0.837065637 | 7.06347E-08 | < 0.001 | < 0.001 | 5347 | PLK1 |
| -0.84015444 | 6.10937E-08 | < 0.001 | < 0.001 | 148252 | DIRAS1 |
| -0.84041184 | 6.03207E-08 | < 0.001 | < 0.001 | 2911 | GRM1 |
| -0.840926641 | 5.8785E-08 | < 0.001 | < 0.001 | 57410 | SCYL1 |
| -0.842728443 | 5.35161E-08 | < 0.001 | < 0.001 | 55209 | SETD5 |
| -0.843243243 | 5.2041E-08 | < 0.001 | < 0.001 | 220359 | TIGD3 |
| -0.843243243 | 5.2041E-08 | < 0.001 | < 0.001 | 387263 | C6orf120 |
| -0.843758044 | 5.05794E-08 | < 0.001 | < 0.001 | 6949 | TCOF1 |
| -0.844015444 | 4.98536E-08 | < 0.001 | < 0.001 | 9390 | SLC22A13 |
| -0.844787645 | 4.76963E-08 | < 0.001 | < 0.001 | 6677 | SPAM1 |
| -0.845302445 | 4.62747E-08 | < 0.001 | < 0.001 | 59341 | TRPV4 |
| -0.848648649 | 3.73584E-08 | < 0.001 | < 0.001 | 4221 | MEN1 |
| -0.854568855 | 2.29387E-08 | < 0.001 | < 0.001 | 480 | ATP1A4 |
| -0.86023166 | 1.07271E-08 | < 0.001 | < 0.001 | 8115 | TCL1A |
| -0.860746461 | 9.69181E-09 | < 0.001 | < 0.001 | 762 | CA4 |
| -0.863063063 | 5.18457E-09 | < 0.001 | < 0.001 | 440419 | TBC1D3P5 |
| -0.866409266 | < 0.001 | < 0.001 | < 0.001 | 478 | ATP1A3 |
| -0.867953668 | < 0.001 | < 0.001 | < 0.001 | 59284 | CACNG7 |
| -0.869240669 | < 0.001 | < 0.001 | < 0.001 | 23305 | ACSL6 |
| -0.86975547 | < 0.001 | < 0.001 | < 0.001 | 266722 | HS6ST3 |
| -0.871557272 | < 0.001 | < 0.001 | < 0.001 | 53339 | BTBD1 |
| -0.871814672 | < 0.001 | < 0.001 | < 0.001 | 6818 | SULT1A3 |
| -0.879021879 | < 0.001 | < 0.001 | < 0.001 | 57476 | GRAMD1B |
| -0.891891892 | < 0.001 | < 0.001 | < 0.001 | 23030 | KDM4B |
| -0.897297297 | < 0.001 | < 0.001 | < 0.001 | 114804 | RNF157 |

**Rewards (Neurosynth) Cortex**

| voxel-wise, cortex | | | |
|---|---|---|---|
| Spearman's corr coef | p-val | GenID | Gene |
| 0.272422586 | < 0.001 | 219981 | OR5A2 |
| 0.249310305 | < 0.001 | 122042 | RXFP2 |
| 0.234047359 | < 0.001 | 89822 | KCNK17 |
| 0.227820516 | < 0.001 | 1071 | CETP |
| 0.224643738 | < 0.001 | 3960 | LGALS4 |
| 0.218659896 | < 0.001 | 260429 | PRSS33 |
| 0.218218754 | < 0.001 | 100131315 | LOC100131315 |
| 0.217795563 | < 0.001 | 4239 | MFAP4 |
| 0.217651868 | < 0.001 | 2077 | ERF |
| 0.216831176 | < 0.001 | 84419 | C15orf48 |
| 0.215644202 | < 0.001 | 3698 | ITIH2 |
| 0.215436274 | < 0.001 | 641700 | ECSCR |
| 0.213575655 | < 0.001 | 50848 | F11R |
| 0.213341416 | < 0.001 | 387890 | AC002563.2 |
| 0.212303926 | < 0.001 | 257101 | ZNF683 |
| 0.211870323 | < 0.001 | 284382 | ACTL9 |
| 0.211429282 | < 0.001 | 51340 | CRNKL1 |
| 0.208250747 | < 0.001 | 4969 | OGN |
| 0.208095996 | < 0.001 | 64063 | PRSS22 |
| 0.206259187 | < 0.001 | 1278 | COL1A2 |
| 0.205893042 | < 0.001 | 57211 | GPR126 |
| 0.205119494 | < 0.001 | 389123 | IQCF2 |
| 0.204863575 | < 0.001 | 10500 | SEMA6C |
| 0.204510084 | < 0.001 | 337882 | KRTAP19-1 |
| 0.204255712 | < 0.001 | 162699 | TCEB3C |
| 0.203722246 | < 0.001 | 253039 | RP11-27I1.2 |
| 0.203571315 | < 0.001 | 730 | C7 |
| 0.203331464 | < 0.001 | 7436 | VLDLR |
| 0.202482583 | < 0.001 | 2920 | CXCL2 |
| 0.200422487 | < 0.001 | 9635 | CLCA2 |
| 0.199011274 | < 0.001 | 401 | PHOX2A |
| 0.198771591 | < 0.001 | 4629 | MYH11 |
| 0.19815505 | < 0.001 | 199870 | FAM76A |
| 0.197619898 | < 0.001 | 5616 | PRKY |
| 0.197389786 | < 0.001 | 25865 | PRKD2 |
| 0.197345257 | < 0.001 | 2327 | FMO2 |
| 0.197211717 | < 0.001 | 4312 | MMP1 |
| 0.196357668 | < 0.001 | 114818 | KLHL29 |
| 0.196000617 | < 0.001 | 83481 | EPPK1 |
| 0.194888328 | < 0.001 | 729330 | OC90 |
| 0.194324989 | < 0.001 | 54900 | LAX1 |
| 0.19424111 | < 0.001 | 57695 | USP37 |
| 0.194159246 | < 0.001 | 80152 | CENPT |
| 0.19370958 | < 0.001 | 692094 | MSMP |
| 0.192510679 | < 0.001 | 27042 | C1orf107 |
| 0.191383006 | < 0.001 | 6580 | SLC22A1 |
| 0.191122285 | < 0.001 | 170626 | XAGE3 |
| 0.190736296 | < 0.001 | 353332 | KRTAP12-1 |
| 0.190710547 | < 0.001 | 10682 | EBP |
| 0.190206847 | < 0.001 | 65123 | INTS3 |
| 0.190102929 | < 0.001 | 51365 | PLA1A |
| 0.189883255 | < 0.001 | 3337 | DNAJB1 |
| 0.189503827 | < 0.001 | 84787 | SUV420H2 |
| 0.189350101 | < 0.001 | 434 | ASIP |
| 0.18765064 | < 0.001 | 202 | AIM1 |
| 0.187395871 | < 0.001 | 8685 | MARCO |
| 0.18654009 | < 0.001 | 51270 | TFDP3 |
| 0.186036212 | < 0.001 | 5313 | PKLR |
| 0.185922855 | < 0.001 | 23562 | CLDN14 |
| 0.185494027 | < 0.001 | 29931 | LINC00312 |
| 0.185146309 | < 0.001 | 7512 | XPNPEP2 |
| 0.184749844 | < 0.001 | 1415 | CRYBB2 |
| 0.184186519 | < 0.001 | 646799 | ZAR1L |
| 0.183810049 | < 0.001 | 10319 | LAMC3 |
| 0.183783464 | < 0.001 | 8407 | TAGLN2 |
| 0.183266441 | < 0.001 | 54768 | HYDIN |
| 0.183010356 | < 0.001 | 197135 | PATL2 |
| 0.182717642 | < 0.001 | 3982 | LIM2 |
| 0.18262868 | < 0.001 | 83852 | SETDB2 |
| 0.18218286 | < 0.001 | 79792 | GSDMD |
| 0.181677609 | < 0.001 | 3383 | ICAM1 |
| 0.181640021 | < 0.001 | 59 | ACTA2 |
| 0.181609359 | < 0.001 | 72 | ACTG2 |
| 0.1813979 | < 0.001 | 91373 | UAP1L1 |
| 0.18048859 | < 0.001 | 338667 | LOC338667 |
| 0.180372834 | < 0.001 | 283848 | CES8 |
| 0.180137062 | < 0.001 | 337978 | KRTAP21-2 |

| region-wise, cortex | | | | | |
|---|---|---|---|---|---|
| Spearman's corr coef | p-val | p-val, SA | p-val, SA (BH- correction) | GenID | Gene |
| 0.664701176 | < 0.001 | < 0.001 | < 0.001 | 9294 | S1PR2 |
| 0.662370057 | < 0.001 | < 0.001 | < 0.001 | 388849 | LOC388849 |
| 0.620338654 | < 0.001 | < 0.001 | < 0.001 | 728175 | AC103540.1 |
| 0.60972876 | < 0.001 | < 0.001 | < 0.001 | 83888 | FGFBP2 |
| 0.608867062 | < 0.001 | < 0.001 | < 0.001 | 81035 | COLEC12 |
| 0.601297082 | < 0.001 | < 0.001 | < 0.001 | 283349 | RASSF3 |
| 0.581830492 | < 0.001 | < 0.001 | < 0.001 | 2275 | FHL3 |
| 0.577011464 | < 0.001 | < 0.001 | < 0.001 | 8692 | HYAL2 |
| 0.576726392 | < 0.001 | < 0.001 | < 0.001 | 9314 | KLF4 |
| 0.575846553 | < 0.001 | < 0.001 | < 0.001 | 344901 | OSTN |
| 0.56907996 | < 0.001 | < 0.001 | < 0.001 | 10769 | PLK2 |
| 0.568096458 | < 0.001 | < 0.001 | < 0.001 | 11156 | PTP4A3 |
| 0.565878073 | < 0.001 | < 0.001 | < 0.001 | 5313 | PKLR |
| 0.560444843 | < 0.001 | < 0.001 | < 0.001 | 56918 | C2orf83 |
| 0.558857506 | < 0.001 | < 0.001 | < 0.001 | 256536 | TCERG1L |
| 0.557942681 | < 0.001 | < 0.001 | < 0.001 | 147381 | CBLN2 |
| 0.556744079 | < 0.001 | < 0.001 | < 0.001 | 7052 | TGM2 |
| 0.555813705 | < 0.001 | < 0.001 | < 0.001 | 4241 | MFI2 |
| 0.552562578 | < 0.001 | < 0.001 | < 0.001 | 9501 | RPH3AL |
| 0.551160538 | < 0.001 | < 0.001 | < 0.001 | 26468 | LHX6 |
| 0.55112296 | < 0.001 | < 0.001 | < 0.001 | 2849 | GPR26 |
| 0.549544693 | < 0.001 | 0.001 | 1 | 5276 | SERPINI2 |
| 0.549237592 | < 0.001 | < 0.001 | < 0.001 | 758 | MPPED1 |
| 0.540277233 | < 0.001 | < 0.001 | < 0.001 | 80177 | MYCT1 |
| 0.536953543 | < 0.001 | < 0.001 | < 0.001 | 165 | AEBP1 |
| 0.534463043 | < 0.001 | < 0.001 | < 0.001 | 2327 | FMO2 |
| 0.533909742 | < 0.001 | < 0.001 | < 0.001 | 57452 | GALNTL1 |
| 0.532967706 | < 0.001 | < 0.001 | < 0.001 | 7090 | TLE3 |
| 0.532454575 | < 0.001 | < 0.001 | < 0.001 | 642943 | LOC642943 |
| 0.532337954 | < 0.001 | < 0.001 | < 0.001 | 23764 | MAFF |
| 0.531300029 | < 0.001 | < 0.001 | < 0.001 | 51676 | ASB2 |
| 0.528414315 | < 0.001 | < 0.001 | < 0.001 | 2906 | GRIN2D |
| 0.52736732 | < 0.001 | < 0.001 | < 0.001 | 91807 | MYLK3 |
| 0.525943251 | < 0.001 | < 0.001 | < 0.001 | 343450 | KCNT2 |
| 0.524112306 | < 0.001 | < 0.001 | < 0.001 | 132430 | PABPC4L |
| 0.519710521 | < 0.001 | < 0.001 | < 0.001 | 23213 | SULF1 |
| 0.518953783 | < 0.001 | < 0.001 | < 0.001 | 145864 | HAPLN3 |
| 0.518886402 | < 0.001 | < 0.001 | < 0.001 | 64847 | SPATA20 |
| 0.517831632 | < 0.001 | < 0.001 | < 0.001 | 162699 | TCEB3C |
| 0.516941427 | < 0.001 | < 0.001 | < 0.001 | 55609 | ZNF280C |
| 0.516046039 | < 0.001 | < 0.001 | < 0.001 | 116 | ADCYAP1 |
| 0.511487465 | < 0.001 | < 0.001 | < 0.001 | 7224 | TRPC5 |
| 0.50898919 | < 0.001 | < 0.001 | < 0.001 | 8623 | ASMTL |
| 0.507206189 | < 0.001 | 0.001 | 1 | 93109 | TMEM44 |
| 0.506428717 | < 0.001 | < 0.001 | < 0.001 | 342977 | NANOS3 |
| 0.506168264 | < 0.001 | < 0.001 | < 0.001 | 3881 | KRT31 |
| 0.505560541 | < 0.001 | 0.001 | 1 | 7976 | FZD3 |
| 0.505070734 | < 0.001 | < 0.001 | < 0.001 | 1602 | DACH1 |
| 0.503903231 | < 0.001 | 0.001 | 1 | 2671 | GFER |
| 0.502630769 | < 0.001 | < 0.001 | < 0.001 | 80115 | BAIAP2L2 |
| 0.500361848 | < 0.001 | < 0.001 | < 0.001 | 91522 | COL23A1 |
| 0.499852604 | < 0.001 | < 0.001 | < 0.001 | 346389 | MACC1 |
| 0.498799131 | < 0.001 | < 0.001 | < 0.001 | 5274 | SERPINI1 |
| 0.497036862 | < 0.001 | < 0.001 | < 0.001 | 2162 | F13A1 |
| 0.496969481 | < 0.001 | < 0.001 | < 0.001 | 93273 | LEMD1 |
| 0.496258095 | < 0.001 | 0.001 | 1 | 8654 | PDE5A |
| 0.494760166 | < 0.001 | 0.001 | 1 | 143379 | C10orf82 |
| 0.494275542 | < 0.001 | < 0.001 | < 0.001 | 1142 | CHRNB3 |
| 0.494241852 | < 0.001 | < 0.001 | < 0.001 | 4139 | MARK1 |
| 0.492931813 | < 0.001 | < 0.001 | < 0.001 | 3617 | IMPG1 |
| 0.492241159 | < 0.001 | < 0.001 | < 0.001 | 57575 | PCDH10 |
| 0.491848536 | < 0.001 | < 0.001 | < 0.001 | 54798 | DCHS2 |
| 0.490432242 | < 0.001 | < 0.001 | < 0.001 | 58495 | OVOL2 |
| 0.489841363 | < 0.001 | < 0.001 | < 0.001 | 2313 | FLI1 |
| 0.489627559 | < 0.001 | < 0.001 | < 0.001 | 3883 | KRT33A |
| 0.488579268 | < 0.001 | < 0.001 | < 0.001 | 59350 | RXFP1 |
| 0.488057066 | < 0.001 | < 0.001 | < 0.001 | 9734 | HDAC9 |
| 0.487538752 | < 0.001 | 0.002 | 1 | 2297 | RP11-79P5.6 |
| 0.486655026 | < 0.001 | < 0.001 | < 0.001 | 84065 | TMEM222 |
| 0.486322009 | < 0.001 | < 0.001 | < 0.001 | 5212 | VIT |
| 0.486297389 | < 0.001 | 0.001 | 1 | 1012 | CDH13 |
| 0.485678004 | < 0.001 | < 0.001 | < 0.001 | 388939 | C2orf71 |
| 0.484719122 | < 0.001 | < 0.001 | < 0.001 | 29969 | MDFIC |
| 0.484062159 | < 0.001 | < 0.001 | < 0.001 | 144193 | AMDHD1 |
| 0.484038835 | < 0.001 | < 0.001 | < 0.001 | 29951 | PDZRN4 |
| 0.483489422 | < 0.001 | < 0.001 | < 0.001 | 342357 | ZKSCAN2 |
| 0.483451844 | < 0.001 | < 0.001 | < 0.001 | 3082 | HGF |

| | | | |
|---|---|---|---|
| 0.18013539 | < 0.001 | 5956 | OPN1LW |
| 0.180034585 | < 0.001 | 27324 | TOX3 |
| 0.180015541 | < 0.001 | 2160 | F11 |
| 0.179809817 | < 0.001 | 11063 | SOX30 |
| 0.179562808 | < 0.001 | 54361 | WNT4 |
| 0.179273577 | < 0.001 | 285513 | GPRIN3 |
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| 0.333403738 | 8.87404E-07 | 0.023 | 1 | 26872 | STEAP1 |
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| 0.321425494 | 2.2381E-06 | 0.021 | 1 | 85002 | FAM86B1 |
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| 0.102293877 | 3.3009E-280 | 492303 | GEMIN8P4 |
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| 0.10227164 | 4.3665E-280 | 285362 | SUMF1 |
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| 0.259059324 | 0.00015412 | 0.066 | 1 | 390243 | FOLR4 |
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| 0.102102275 | 3.6705E-279 | 8038 | ADAM12 |
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| 0.101708662 | 5.0986E-277 | 9564 | BCAR1 |
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| 0.101557568 | 3.3708E-276 | 282616 | IL28A |
| 0.101557376 | 3.3789E-276 | 1562 | CYP2C18 |
| 0.101521331 | 5.3E-276 | 56606 | SLC2A9 |
| 0.101511427 | 5.9977E-276 | 55236 | UBA6 |
| 0.101497919 | 7.0994E-276 | 23196 | FAM120A |
| 0.101494453 | 7.4133E-276 | 22829 | NLGN4Y |
| 0.101476017 | 9.3315E-276 | 284069 | FAM171A2 |
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| 0.101337534 | 5.2488E-275 | 54221 | SNTG2 |
| 0.101332235 | 5.6072E-275 | 23769 | FLRT1 |
| 0.101273258 | 1.1691E-274 | 51122 | COMMD2 |
| 0.101260372 | 1.3727E-274 | 222962 | SLC29A4 |
| 0.101240311 | 1.7622E-274 | 23533 | PIK3R5 |
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| 0.101156325 | 5.0122E-274 | 10056 | FARSB |
| 0.10115437 | 5.1355E-274 | 5727 | PTCH1 |
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| 0.252424901 | 0.000228802 | 0.094 | 1 | 114036 | LINC00310 |
| 0.252387323 | 0.000229308 | 0.078 | 1 | 84734 | FAM167B |
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| 0.25219166 | 0.00023196 | 0.083 | 1 | 80319 | CXXC4 |
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| 0.252177406 | 0.000232154 | 0.076 | 1 | 53918 | PELO |
| 0.252154082 | 0.000232472 | 0.085 | 1 | 1486 | CTBS |
| 0.252108729 | 0.000233092 | 0.078 | 1 | 79047 | KCTD15 |
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| 0.100295981 | 2.1296E-269 | 401944 | LDLRAD2 |
| 0.10028299 | 2.4997E-269 | 1000 | CDH2 |
| 0.100250653 | 3.7242E-269 | 79730 | NSUN7 |
| 0.100249815 | 3.7628E-269 | 4086 | SMAD1 |
| 0.100235341 | 4.4978E-269 | 79643 | CHMP6 |
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| 0.100136925 | 1.512E-268 | 3892 | KRT86 |
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| 0.099981674 | 1.0212E-267 | 85352 | KIAA1644 |
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| 0.09993924 | 1.7203E-267 | 2898 | GRIK2 |
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| 0.09970906 | 2.9012E-266 | 3293 | HSD17B3 |
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| 0.099692663 | 3.5471E-266 | 127731 | VWA5B1 |
| 0.099684872 | 3.9025E-266 | 79083 | MLPH |
| 0.09968412 | 3.9386E-266 | 1486 | CTBS |
| 0.099671377 | 4.6044E-266 | 54583 | EGLN1 |
| 0.099644618 | 1.7081E-264 | 340061 | TMEM173 |
| 0.099622887 | 8.3402E-266 | 81567 | TXNDC5 |
| 0.099607572 | 1.0061E-265 | 1789 | DNMT3B |
| 0.099565535 | 1.6834E-265 | 7517 | XRCC3 |
| 0.099536903 | 2.3899E-265 | 64847 | SPATA20 |
| 0.099508795 | 3.3709E-265 | 10800 | CYSLTR1 |
| 0.099507399 | 3.4289E-265 | 116 | ADCYAP1 |
| 0.099485427 | 4.4864E-265 | 317701 | VN1R2 |
| 0.099471434 | 5.3237E-265 | 2783 | GNB2 |
| 0.099436507 | 8.1601E-265 | 125875 | CLDND2 |
| 0.099435451 | 8.2661E-265 | 55762 | ZNF701 |
| 0.09942772 | 9.0855E-265 | 10352 | WARS2 |
| 0.099420124 | 9.9695E-265 | 6586 | SLIT3 |
| 0.099403444 | 1.2224E-264 | 29085 | PHPT1 |
| 0.099390378 | 1.434E-264 | 64858 | DCLRE1B |
| 0.099387598 | 1.4836E-264 | 213 | ALB |
| 0.099348792 | 2.3834E-264 | 158062 | LCN6 |
| 0.099340364 | 2.6418E-264 | 84958 | SYTL1 |
| 0.099338948 | 2.6879E-264 | 6415 | SEPW1 |
| 0.099337887 | 2.723E-264 | 27077 | B9D1 |
| 0.099324814 | 3.1943E-264 | 79173 | C19orf57 |
| 0.099324593 | 3.203E-264 | 10487 | CAP1 |
| 0.099315824 | 3.5649E-264 | 624 | BDKRB2 |
| 0.099272276 | 6.0664E-264 | 80022 | MYO15B |
| 0.099270438 | 6.204E-264 | 23635 | SSBP2 |
| 0.09922565 | 1.0715E-263 | 282890 | ZNF311 |
| 0.099214023 | 1.2348E-263 | 89845 | ABCC10 |
| 0.099200608 | 1.4543E-263 | 11041 | AP001107.1 |
| 0.099200596 | 1.4546E-263 | 93273 | LEMD1 |
| 0.099194653 | 1.5639E-263 | 85417 | CCNB3 |
| 0.099158883 | 2.4189E-263 | 1018 | CDK3 |
| 0.099104983 | 4.6656E-263 | 55128 | TRIM68 |
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| 0.248306894 | 0.000290905 | 0.086 | 1 | 64777 | RMND5B |
| 0.248245992 | 0.000291932 | 0.076 | 1 | 129881 | C2orf77 |
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| 0.248159174 | 0.000293401 | 0.064 | 1 | 2077 | ERF |
| 0.248148808 | 0.000293577 | 0.065 | 1 | 221927 | C7orf27 |
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| 0.248012751 | 0.000295894 | 0.088 | 1 | 85359 | DGCR6L |
| 0.247951849 | 0.000296937 | 0.098 | 1 | 3965 | LGALS9 |
| 0.247932412 | 0.000297271 | 0.079 | 1 | 57613 | KIAA1467 |
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| 0.247736748 | 0.000300648 | 0.074 | 1 | 134429 | STARD4 |
| 0.247708241 | 0.000301143 | 0.089 | 1 | 100288560 | LOC100288560 |
| 0.247693987 | 0.00030139 | 0.091 | 1 | 84313 | VPS25 |
| 0.247653818 | 0.00030209 | 0.066 | 1 | 54968 | TMEM70 |
| 0.247611057 | 0.000302836 | 0.065 | 1 | 7855 | FZD5 |
| 0.247552747 | 0.000303856 | 0.07 | 1 | 2683 | B4GALT1 |
| 0.247442605 | 0.000305792 | 0.084 | 1 | 25805 | BAMBI |
| 0.247440013 | 0.000305837 | 0.104 | 1 | 27175 | TUBG2 |
| 0.24741021 | 0.000306363 | 0.096 | 1 | 25880 | TMEM186 |
| 0.247394661 | 0.000306638 | 0.096 | 1 | 10969 | EBNA1BP2 |
| 0.247390773 | 0.000306707 | 0.068 | 1 | 4330 | MN1 |
| 0.247350604 | 0.000307417 | 0.056 | 1 | 56098 | PCDHGC4 |
| 0.247338942 | 0.000307624 | 0.079 | 1 | 399668 | LINC00086 |
| 0.24732728 | 0.000307831 | 0.062 | 1 | 416 | ARSF |
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| 0.247274153 | 0.000308774 | 0.081 | 1 | 53832 | IL20RA |
| 0.247262491 | 0.000308982 | 0.098 | 1 | 23185 | LARP4B |
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| 0.247241758 | 0.000309351 | 0.058 | 1 | 23345 | SYNE1 |
| 0.247208068 | 0.000309952 | 0.08 | 1 | 5743 | PTGS2 |
| 0.247182152 | 0.000310415 | 0.078 | 1 | 4607 | MYBPC3 |
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| 0.247112179 | 0.000311668 | 0.08 | 1 | 1325 | CORT |
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| 0.245491151 | 0.00034205 | 0.081 | 1 | 79961 | DENND2D |
| 0.245467827 | 0.000342506 | 0.098 | 1 | 219981 | OR5A2 |
| 0.245461348 | 0.000342633 | 0.087 | 1 | 651302 | ZNF192P1 |
| 0.245449686 | 0.000342862 | 0.083 | 1 | 55615 | PRR5 |
| 0.245400446 | 0.000343829 | 0.112 | 1 | 51293 | CD320 |
| 0.245373235 | 0.000344364 | 0.081 | 1 | 100127206 | KIAA1024L |
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| 0.244946921 | 0.000352853 | 0.091 | 1 | 79803 | HPS6 |
| 0.244880836 | 0.000354186 | 0.065 | 1 | 997 | CDC34 |
| 0.24483678 | 0.000355077 | 0.087 | 1 | 79001 | VKORC1 |
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| 0.099051179 | 8.9851E-263 | 143379 | C10orf82 |
| 0.098982687 | 2.0683E-262 | 114132 | SIGLEC11 |
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| 0.098957455 | 2.8115E-262 | 7252 | TSHB |
| 0.09892839 | 4.0039E-262 | 3156 | HMGCR |
| 0.098863392 | 8.8241E-262 | 3855 | KRT7 |
| 0.098856517 | 9.5931E-262 | 7258 | TSPY1 |
| 0.098835616 | 1.2367E-261 | 541565 | C8orf58 |
| 0.098822833 | 1.4445E-261 | 29065 | ASAP1-IT1 |
| 0.098808914 | 1.7106E-261 | 56951 | C5orf15 |
| 0.098790231 | 2.1463E-261 | 93210 | PGAP3 |
| 0.098784476 | 2.3017E-261 | 857 | CAV1 |
| 0.098723395 | 4.8315E-261 | 153571 | C5orf38 |
| 0.098721681 | 4.933E-261 | 3241 | HPCAL1 |
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| 0.098633757 | 1.4332E-260 | 114042 | LINC00334 |
| 0.098597025 | 3.7015E-260 | 197259 | MLKL |
| 0.09857572 | 2.8962E-260 | 4943 | TBC1D25 |
| 0.098555832 | 3.6854E-260 | 91319 | DERL3 |
| 0.098540645 | 6.0385E-259 | 57146 | TMEM159 |
| 0.098518768 | 5.7737E-260 | 2295 | FOXF2 |
| 0.098466676 | 1.0848E-259 | 54504 | CPVL |
| 0.098447011 | 1.3763E-259 | 375057 | C1orf95 |
| 0.098444556 | 1.4178E-259 | 9875 | URB1 |
| 0.098436143 | 1.5698E-259 | 10493 | VAT1 |
| 0.098393885 | 2.6173E-259 | 84766 | EFCAB4B |
| 0.098376592 | 3.2262E-259 | 2736 | GLI2 |
| 0.098350677 | 4.4134E-259 | 5552 | SRGN |
| 0.098344535 | 4.7535E-259 | 100128327 | BET3L |
| 0.098313378 | 6.9274E-259 | 27036 | SIGLEC7 |
| 0.09823569 | 1.7707E-258 | 65999 | LRRC61 |
| 0.098235502 | 1.7747E-258 | 391334 | LOC391334 |
| 0.098217598 | 2.203E-258 | 22974 | TPX2 |
| 0.098187209 | 3.1792E-258 | 54480 | CSGLCA-T |
| 0.098186779 | 3.1957E-258 | 2978 | GUCA1A |
| 0.098170578 | 3.8858E-258 | 643332 | AL355922.1 |
| 0.098166537 | 4.08E-258 | 10669 | CGREF1 |
| 0.098163316 | 4.2417E-258 | 441381 | LRRC24 |
| 0.098089743 | 1.0302E-257 | 140862 | C20orf82 |
| 0.098061615 | 1.4461E-257 | 148170 | CDC42EP5 |
| 0.098036262 | 1.9628E-257 | 58 | ACTA1 |
| 0.097955511 | 5.1917E-257 | 140706 | C20orf160 |
| 0.097935533 | 6.6033E-257 | 55714 | ODZ3 |
| 0.097913267 | 8.6328E-257 | 81857 | MED25 |
| 0.097893666 | 1.0929E-256 | 8512 | MBL1P |
| 0.097884122 | 1.2259E-256 | 26468 | LHX6 |
| 0.097808865 | 6.0101E-255 | 117154 | DACH2 |
| 0.097777009 | 4.4444E-256 | 212 | ALAS2 |
| 0.097727238 | 8.0819E-256 | 3137 | HLA-J |
| 0.097723954 | 8.407E-256 | 50628 | GEMIN4 |
| 0.097720132 | 8.802E-256 | 4242 | MFNG |
| 0.097710493 | 9.8823E-256 | 8854 | ALDH1A2 |
| 0.09770355 | 1.0742E-255 | 51382 | ATP6V1D |
| 0.097703097 | 1.08E-255 | 84830 | C6orf105 |
| 0.097695211 | 1.1873E-255 | 29980 | DONSON |
| 0.097655408 | 1.9146E-255 | 10392 | NOD1 |
| 0.097649747 | 2.0492E-255 | 9570 | GOSR2 |
| 0.097647195 | 2.1129E-255 | 29115 | SAP30BP |
| 0.09762818 | 2.6545E-255 | 9414 | TJP2 |
| 0.097609259 | 3.331E-255 | 899 | CCNF |
| 0.097528137 | 8.8115E-255 | 157927 | C9orf62 |
| 0.097501271 | 1.2159E-254 | 164592 | CCDC116 |
| 0.09743021 | 2.8482E-254 | 10857 | PGRMC1 |
| 0.097416903 | 3.3402E-254 | 122509 | IFI27L1 |
| 0.097413163 | 3.4931E-254 | 26153 | KIF26A |
| 0.097399582 | 4.1099E-254 | 285672 | SREK1IP1 |
| 0.097376922 | 5.3903E-254 | 60675 | PROK2 |
| 0.097373288 | 5.6299E-254 | 8547 | FCN3 |
| 0.097368666 | 5.95E-254 | 1163 | CKS1B |
| 0.097365715 | 6.1639E-254 | 23169 | SLC35D1 |
| 0.097347555 | 7.6599E-254 | 150280 | HORMAD2 |
| 0.097332741 | 9.1452E-254 | 54836 | BSPRY |
| 0.097319029 | 1.0775E-253 | 1208 | CLPS |
| 0.097314491 | 1.1376E-253 | 3938 | LCT |
| 0.097296766 | 1.4062E-253 | 2734 | GLG1 |
| 0.097282548 | 1.6668E-253 | 79139 | DERL1 |
| 0.097267434 | 1.9969E-253 | 84332 | DYDC2 |
| 0.097218858 | 3.5684E-253 | 64167 | ERAP2 |
| 0.097163274 | 6.9312E-253 | 2562 | GABRB3 |
| 0.097154858 | 7.6639E-253 | 54494 | C11orf71 |
| 0.097100581 | 1.4649E-252 | 474343 | SPIN2B |
| 0.097096514 | 1.5378E-252 | 56905 | C15orf39 |

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| 0.244476551 | 0.000362444 | 0.103 | 1 | 200942 | KLHDC8B |
| 0.24443379 | 0.000363328 | 0.084 | 1 | 81575 | APOLD1 |
| 0.244345677 | 0.000365156 | 0.093 | 1 | 79575 | ABHD8 |
| 0.244337902 | 0.000365318 | 0.093 | 1 | 7139 | TNNT2 |
| 0.244295141 | 0.000366208 | 0.079 | 1 | 153579 | BTNL9 |
| 0.244239422 | 0.000367371 | 0.076 | 1 | 5209 | PFKFB3 |
| 0.244190182 | 0.000368402 | 0.099 | 1 | 3479 | IGF1 |
| 0.244050238 | 0.000371346 | 0.07 | 1 | 65993 | MRPS34 |
| 0.24404635 | 0.000371429 | 0.087 | 1 | 202051 | AC135457.3 |
| 0.243933617 | 0.000373817 | 0.086 | 1 | 3857 | KRT9 |
| 0.243916772 | 0.000374175 | 0.084 | 1 | 6750 | SST |
| 0.243809221 | 0.000376469 | 0.084 | 1 | 84790 | TUBA1C |
| 0.24373277 | 0.000378107 | 0.077 | 1 | 79823 | C2orf34 |
| 0.243719812 | 0.000378386 | 0.079 | 1 | 25794 | FSCN2 |
| 0.243669277 | 0.000379473 | 0.084 | 1 | 25759 | SHC2 |
| 0.243464542 | 0.000383908 | 0.099 | 1 | 60386 | SLC25A19 |
| 0.243324598 | 0.000386968 | 0.091 | 1 | 1725 | DHPS |
| 0.243252034 | 0.000388563 | 0.099 | 1 | 64428 | NARFL |
| 0.243211864 | 0.000389449 | 0.083 | 1 | 349136 | WDR86 |
| 0.243201498 | 0.000389678 | 0.1 | 1 | 7091 | TLE4 |
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| 0.242954003 | 0.000395179 | 0.073 | 1 | 11016 | ATF7 |
| 0.24289958 | 0.000396399 | 0.084 | 1 | 162282 | ANKFN1 |
| 0.242834791 | 0.000397855 | 0.11 | 1 | 10244 | RABEPK |
| 0.242834791 | 0.000397855 | 0.097 | 1 | 221120 | ALKBH3 |
| 0.242613211 | 0.000402873 | 0.108 | 1 | 9021 | SOCS3 |
| 0.242596366 | 0.000403257 | 0.08 | 1 | 5519 | PPP2R1B |
| 0.242549718 | 0.000404322 | 0.086 | 1 | 5372 | PMM1 |
| 0.242530281 | 0.000404766 | 0.099 | 1 | 51706 | CYB5R1 |
| 0.242500478 | 0.000405449 | 0.11 | 1 | 29881 | NPC1L1 |
| 0.242479745 | 0.000405924 | 0.081 | 1 | 85450 | ITPRIP |
| 0.242465492 | 0.000406251 | 0.096 | 1 | 220164 | DOK6 |
| 0.242416252 | 0.000407383 | 0.092 | 1 | 8326 | FZD9 |
| 0.242267236 | 0.000410826 | 0.064 | 1 | 6332 | SCN7A |
| 0.242221884 | 0.000411879 | 0.078 | 1 | 55346 | TCP11L1 |
| 0.242195968 | 0.000412482 | 0.08 | 1 | 178 | AGL |
| 0.24195236 | 0.00041819 | 0.094 | 1 | 83696 | TRAPPC9 |
| 0.241847402 | 0.000420672 | 0.081 | 1 | 283643 | C14orf80 |
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| 0.241763176 | 0.000422674 | 0.065 | 1 | 2260 | FGFR1 |
| 0.24174633 | 0.000423075 | 0.086 | 1 | 100290481 | CYAT1 |
| 0.241476807 | 0.000429546 | 0.093 | 1 | 728666 | PRELID1P1 |
| 0.241413314 | 0.000431083 | 0.079 | 1 | 91373 | UAP1L1 |
| 0.241304468 | 0.000433731 | 0.109 | 1 | 166012 | CHST13 |
| 0.241290214 | 0.000434079 | 0.074 | 1 | 55321 | C20orf46 |
| 0.241185255 | 0.000436648 | 0.086 | 1 | 9040 | UBE2M |
| 0.241117874 | 0.000438305 | 0.087 | 1 | 57407 | NMRAL1 |
| 0.241113987 | 0.000438401 | 0.078 | 1 | 286205 | SCAI |
| 0.24101162 | 0.00044093 | 0.071 | 1 | 79613 | TMCO7 |
| 0.241007733 | 0.000441026 | 0.091 | 1 | 449520 | GGNBP1 |
| 0.240975338 | 0.000441829 | 0.081 | 1 | 55081 | IFT57 |
| 0.240941648 | 0.000442666 | 0.104 | 1 | 1990 | CELA1 |
| 0.240929985 | 0.000442956 | 0.09 | 1 | 25911 | RP11-529I10.1 |
| 0.240808182 | 0.000445996 | 0.107 | 1 | 58475 | MS4A7 |
| 0.240710998 | 0.000448435 | 0.094 | 1 | 3631 | INPP4A |
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| 0.240591785 | 0.000451444 | 0.092 | 1 | 729330 | OC90 |
| 0.24047646 | 0.000454372 | 0.068 | 1 | 6697 | SPR |
| 0.240458319 | 0.000454835 | 0.097 | 1 | 10365 | KLF2 |
| 0.240451841 | 0.000455 | 0.07 | 1 | 148213 | ZNF681 |
| 0.240419446 | 0.000455827 | 0.086 | 1 | 80896 | NPL |
| 0.240276909 | 0.000459482 | 0.064 | 1 | 84435 | GPR123 |
| 0.240274318 | 0.000459548 | 0.092 | 1 | 7802 | DNALI1 |
| 0.240171951 | 0.00046219 | 0.074 | 1 | 2676 | GFRA3 |
| 0.240042372 | 0.000465555 | 0.101 | 1 | 3357 | HTR2B |
| 0.239906315 | 0.000469112 | 0.106 | 1 | 6723 | SRM |
| 0.239894653 | 0.000469418 | 0.111 | 1 | 9143 | SYNGR3 |
| 0.239858371 | 0.000470371 | 0.1 | 1 | 375791 | C9orf169 |
| 0.239825976 | 0.000471224 | 0.08 | 1 | 374900 | ZNF568 |
| 0.239676961 | 0.000475165 | 0.065 | 1 | 9353 | SLIT2 |
| 0.239654932 | 0.00047575 | 0.085 | 1 | 79948 | AC006273.1 |
| 0.239546086 | 0.000478651 | 0.067 | 1 | 6472 | SHMT2 |
| 0.239540903 | 0.00047879 | 0.108 | 1 | 4066 | LYL1 |
| 0.239530537 | 0.000479067 | 0.077 | 1 | 642987 | TMEM232 |
| 0.239476114 | 0.000480525 | 0.119 | 1 | 5630 | PRPH |
| 0.23936338 | 0.000483558 | 0.094 | 1 | 644139 | PIRT |
| 0.239311549 | 0.000484959 | 0.097 | 1 | 26470 | SEZ6L2 |
| 0.239244168 | 0.000486785 | 0.116 | 1 | 8800 | PEX11A |
| 0.239191041 | 0.00048823 | 0.113 | 1 | 84253 | GARNL3 |
| 0.23914828 | 0.000489395 | 0.076 | 1 | 282974 | STK32C |
| 0.238935771 | 0.000495226 | 0.093 | 1 | 4886 | NPY1R |
| 0.238881348 | 0.000496729 | 0.102 | 1 | 8818 | DPM2 |

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| 0.097076237 | 1.9587E-252 | 10265 | IRX5 |
| 0.09706963 | 2.1193E-252 | 23429 | RYBP |
| 0.097066795 | 2.1922E-252 | 201625 | DNAH12 |
| 0.097032778 | 3.2892E-252 | 26996 | GPR160 |
| 0.097020826 | 3.793E-252 | 5883 | RAD9A |
| 0.096972006 | 6.7876E-252 | 253190 | SERHL2 |
| 0.096929525 | 1.126E-251 | 80818 | ZNF436 |
| 0.096921171 | 1.2438E-251 | 215 | ABCD1 |
| 0.096913647 | 1.3604E-251 | 200728 | TMEM17 |
| 0.096889094 | 1.8224E-251 | 80108 | ZFP2 |
| 0.096859021 | 2.6069E-251 | 441124 | LOC441124 |
| 0.096845009 | 3.08E-251 | 84057 | MND1 |
| 0.096812695 | 4.5242E-251 | 7347 | UCHL3 |
| 0.096763218 | 8.1492E-251 | 11001 | SLC27A2 |
| 0.096759392 | 8.5285E-251 | 154215 | NKAIN2 |
| 0.096705788 | 1.6129E-250 | 54921 | CHTF8 |
| 0.096704347 | 1.6407E-250 | 1142 | CHRNB3 |
| 0.096697037 | 7.832E-250 | 25907 | TMEM158 |
| 0.096674995 | 2.3254E-250 | 4327 | MMP19 |
| 0.096670574 | 2.4508E-250 | 2820 | GPD2 |
| 0.096659071 | 2.8097E-250 | 51339 | DACT1 |
| 0.096585989 | 6.6912E-250 | 339366 | ADAMTSL5 |
| 0.096547531 | 1.0561E-249 | 3769 | KCNJ13 |
| 0.096482036 | 2.2964E-249 | 200810 | ALG1L |
| 0.096463042 | 2.8763E-249 | 115361 | GBP4 |
| 0.096448967 | 3.3985E-249 | 2782 | GNB1 |
| 0.096446431 | 3.5022E-249 | 27291 | C10orf28 |
| 0.096440085 | 3.7757E-249 | 219965 | OR5B17 |
| 0.096436562 | 3.9367E-249 | 727936 | GXYLT2 |
| 0.096427591 | 4.3782E-249 | 1746 | DLX2 |
| 0.096420295 | 4.7735E-249 | 54825 | PCDH24 |
| 0.096418338 | 4.8855E-249 | 55800 | SCN3B |
| 0.096414739 | 5.0983E-249 | 10885 | WDR3 |
| 0.096402935 | 5.8635E-249 | 10178 | ODZ1 |
| 0.096398977 | 6.145E-249 | 813 | CALU |
| 0.096377832 | 7.8938E-249 | 148479 | PHF13 |
| 0.096349429 | 1.105E-248 | 57713 | SFMBT2 |
| 0.09633397 | 1.3269E-248 | 79946 | C10orf95 |
| 0.096316679 | 1.6282E-248 | 2863 | GPR39 |
| 0.096301465 | 1.9494E-248 | 10586 | MAB21L2 |
| 0.096288815 | 2.2642E-248 | 2885 | GRB2 |
| 0.096288431 | 2.2745E-248 | 84063 | KIRREL2 |
| 0.096284882 | 2.372E-248 | 158160 | HSD17B7P2 |
| 0.096262827 | 3.0791E-248 | 51105 | PHF20L1 |
| 0.096234627 | 4.298E-248 | 143282 | FGFBP3 |
| 0.096217066 | 5.2899E-248 | 5525 | PPP2R5A |
| 0.096213945 | 5.4887E-248 | 10971 | YWHAQ |
| 0.096194176 | 6.9337E-248 | 140732 | SPAG4L |
| 0.096139062 | 1.3298E-247 | 90806 | ANGEL2 |
| 0.096133677 | 1.4172E-247 | 51776 | ZAK |
| 0.096126828 | 1.5366E-247 | 51643 | TMBIM4 |
| 0.09609381 | 2.2693E-247 | 7514 | XPO1 |
| 0.095996743 | 7.1349E-247 | 80274 | SCUBE1 |
| 0.095991292 | 7.6087E-247 | 285989 | ZNF789 |
| 0.095980876 | 8.6032E-247 | 3397 | ID1 |
| 0.095966465 | 1.0197E-246 | 78989 | COLEC11 |
| 0.095965058 | 1.0367E-246 | 9578 | AL117209.1 |
| 0.095934153 | 1.4925E-246 | 91653 | BOC |
| 0.09587568 | 2.9727E-246 | 353174 | ZACN |
| 0.095868766 | 3.2249E-246 | 10769 | PLK2 |
| 0.095835329 | 4.7812E-246 | 55813 | UTP6 |
| 0.095829154 | 5.1418E-246 | 81888 | HYI |
| 0.095816417 | 5.9736E-246 | 65982 | ZSCAN18 |
| 0.095758209 | 2.4726E-244 | 161198 | CLEC14A |
| 0.095706257 | 2.1834E-245 | 40 | ACCN1 |
| 0.095698909 | 2.3805E-245 | 84649 | DGAT2 |
| 0.095686173 | 6.3839E-244 | 284656 | RP4-783C10.1 |
| 0.095639181 | 4.8035E-245 | 55532 | SLC30A10 |
| 0.095633359 | 5.1436E-245 | 6509 | SLC1A4 |
| 0.095614595 | 6.4123E-245 | 80115 | BAIAP2L2 |
| 0.095609276 | 6.8257E-245 | 338398 | TAS2R60 |
| 0.095587001 | 8.8668E-245 | 64651 | CSRNP1 |
| 0.095556839 | 1.2635E-244 | 159091 | FAM122C |
| 0.095549424 | 1.3784E-244 | 219743 | TYSND1 |
| 0.095539219 | 1.5539E-244 | 9424 | KCNK6 |
| 0.095536963 | 1.5956E-244 | 3075 | CFH |
| 0.09545745 | 4.0557E-244 | 23670 | TMEM2 |
| 0.095451264 | 4.3609E-244 | 23376 | KIAA0776 |
| 0.095446129 | 4.6316E-244 | 387103 | C6orf173 |
| 0.095433464 | 5.3731E-244 | 83729 | INHBE |
| 0.095417111 | 6.5085E-244 | 256051 | ZNF549 |
| 0.095416898 | 6.5248E-244 | 400410 | ST20 |

| | | | | | |
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| 0.238655881 | 0.000503003 | 0.079 | 1 | 51338 | MS4A4A |
| 0.23850557 | 0.000507227 | 0.086 | 1 | 55607 | PPP1R9A |
| 0.238443373 | 0.000508984 | 0.083 | 1 | 1111 | CHEK1 |
| 0.238304723 | 0.000512922 | 0.097 | 1 | 6441 | SFTPD |
| 0.238229568 | 0.000515068 | 0.087 | 1 | 83643 | CCDC3 |
| 0.238159595 | 0.000517073 | 0.104 | 1 | 255022 | CALHM1 |
| 0.2380352 | 0.000520657 | 0.099 | 1 | 284424 | MIR7-3HG |
| 0.238028721 | 0.000520844 | 0.101 | 1 | 8036 | SHOC2 |
| 0.238000214 | 0.000521669 | 0.08 | 1 | 140606 | SELM |
| 0.237877114 | 0.000525244 | 0.108 | 1 | 84067 | FAM160A2 |
| 0.237869339 | 0.00052547 | 0.089 | 1 | 114881 | OSBPL7 |
| 0.237862861 | 0.000525659 | 0.109 | 1 | 2873 | GPS1 |
| 0.237624436 | 0.000532653 | 0.099 | 1 | 23093 | TTLL5 |
| 0.237571309 | 0.000534224 | 0.089 | 1 | 83464 | APH1B |
| 0.237557055 | 0.000534646 | 0.099 | 1 | 151525 | WDSUB1 |
| 0.237433955 | 0.000538303 | 0.091 | 1 | 9429 | ABCG2 |
| 0.237380828 | 0.000539889 | 0.08 | 1 | 4324 | MMP15 |
| 0.237338067 | 0.000541168 | 0.105 | 1 | 56904 | SH3GLB2 |
| 0.237336771 | 0.000541207 | 0.098 | 1 | 8411 | EEA1 |
| 0.237178686 | 0.000545961 | 0.103 | 1 | 1591 | CYP24A1 |
| 0.237168319 | 0.000546274 | 0.125 | 1 | 51629 | SLC25A39 |
| 0.237154066 | 0.000546705 | 0.115 | 1 | 7874 | USP7 |
| 0.237119079 | 0.000547764 | 0.09 | 1 | 9123 | SLC16A3 |
| 0.237006346 | 0.000551189 | 0.095 | 1 | 5552 | SRGN |
| 0.23695581 | 0.00055273 | 0.1 | 1 | 27295 | PDLIM3 |
| 0.236902683 | 0.000554355 | 0.112 | 1 | 23113 | CUL9 |
| 0.236896204 | 0.000554554 | 0.08 | 1 | 146 | ADRA1D |
| 0.236892317 | 0.000554673 | 0.11 | 1 | 226 | ALDOA |
| 0.236876768 | 0.000555149 | 0.09 | 1 | 2664 | GDI1 |
| 0.236837894 | 0.000556343 | 0.119 | 1 | 10916 | MAGED2 |
| 0.236837894 | 0.000556343 | 0.089 | 1 | 401565 | FAM166A |
| 0.236786063 | 0.000557938 | 0.093 | 1 | 22800 | RRAS2 |
| 0.236683695 | 0.0005611 | 0.093 | 1 | 91978 | C19orf20 |
| 0.236609836 | 0.000563392 | 0.089 | 1 | 51086 | TNNI3K |
| 0.236591695 | 0.000563956 | 0.088 | 1 | 23769 | FLRT1 |
| 0.236478961 | 0.000567474 | 0.111 | 1 | 1565 | CYP2D6 |
| 0.236396031 | 0.000570075 | 0.105 | 1 | 10400 | PEMT |
| 0.236056535 | 0.000580839 | 0.125 | 1 | 254263 | CNIH2 |
| 0.236047465 | 0.000581129 | 0.109 | 1 | 8111 | GPR68 |
| 0.235959351 | 0.000583955 | 0.074 | 1 | 170960 | ZNF721 |
| 0.235947689 | 0.000584329 | 0.098 | 1 | 343702 | XKR7 |
| 0.235925661 | 0.000585038 | 0.102 | 1 | 51678 | MPP6 |
| 0.235872534 | 0.000586751 | 0.09 | 1 | 5634 | PRPS2 |
| 0.235836252 | 0.000587923 | 0.108 | 1 | 8704 | B4GALT2 |
| 0.235812927 | 0.000588678 | 0.103 | 1 | 49861 | CLDN20 |
| 0.2357598 | 0.000590401 | 0.101 | 1 | 971 | CD72 |
| 0.235636701 | 0.00059441 | 0.111 | 1 | 7108 | TM7SF2 |
| 0.235617264 | 0.000595045 | 0.098 | 1 | 9513 | FXR2 |
| 0.235609489 | 0.000595299 | 0.087 | 1 | 201798 | TIGD4 |
| 0.235596531 | 0.000595724 | 0.083 | 1 | 1286 | COL4A4 |
| 0.235583573 | 0.000596148 | 0.098 | 1 | 51665 | ASB1 |
| 0.235536925 | 0.000597678 | 0.086 | 1 | 8220 | DGCR14 |
| 0.235507122 | 0.000598657 | 0.095 | 1 | 111 | ADCY5 |
| 0.235343853 | 0.000604049 | 0.085 | 1 | 114798 | SLITRK1 |
| 0.235333487 | 0.000604393 | 0.111 | 1 | 2900 | GRIK4 |
| 0.235315346 | 0.000604995 | 0.114 | 1 | 116039 | OSR2 |
| 0.235303684 | 0.000605382 | 0.102 | 1 | 92162 | TMEM88 |
| 0.235210387 | 0.00060849 | 0.081 | 1 | 2996 | GYPE |
| 0.235167626 | 0.000609919 | 0.118 | 1 | 162 | AP1B1 |
| 0.235102837 | 0.00061209 | 0.102 | 1 | 116443 | GRIN3A |
| 0.235041935 | 0.000614138 | 0.125 | 1 | 5447 | POR |
| 0.234990103 | 0.000615886 | 0.121 | 1 | 65999 | LRRC61 |
| 0.234867004 | 0.000620055 | 0.114 | 1 | 51559 | NT5DC3 |
| 0.234492522 | 0.000632899 | 0.111 | 1 | 55347 | ABHD10 |
| 0.234482155 | 0.000633258 | 0.126 | 1 | 4682 | NUBP1 |
| 0.234353873 | 0.000637716 | 0.127 | 1 | 51526 | C20orf111 |
| 0.234346098 | 0.000637987 | 0.09 | 1 | 56776 | FMN2 |
| 0.23405325 | 0.000648278 | 0.097 | 1 | 1404 | HAPLN1 |
| 0.233980686 | 0.000650852 | 0.078 | 1 | 64167 | ERAP2 |
| 0.233932742 | 0.000652557 | 0.095 | 1 | 55105 | GPATCH2 |
| 0.233880911 | 0.000654406 | 0.1 | 1 | 136853 | SRCRB4D |
| 0.233772065 | 0.000658303 | 0.105 | 1 | 1384 | CRAT |
| 0.233757811 | 0.000658815 | 0.118 | 1 | 4935 | GPR143 |
| 0.233696909 | 0.000661007 | 0.098 | 1 | 5172 | SLC26A4 |
| 0.233689135 | 0.000661287 | 0.102 | 1 | 23352 | UBR4 |
| 0.233505133 | 0.000667953 | 0.102 | 1 | 26157 | GIMAP2 |
| 0.233474034 | 0.000669086 | 0.104 | 1 | 284434 | NWD1 |
| 0.233385921 | 0.000672304 | 0.118 | 1 | 63036 | CELA2A |
| 0.23335223 | 0.000673539 | 0.101 | 1 | 65267 | WNK3 |
| 0.233345751 | 0.000673777 | 0.113 | 1 | 27330 | RPS6KA6 |
| 0.233334089 | 0.000674205 | 0.077 | 1 | 90362 | FAM110B |
| 0.233304286 | 0.000675299 | 0.099 | 1 | 5301 | PIN1P1 |

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| 0.095385399 | 9.4386E-244 | 347688 | TUBB8 |
| 0.095375702 | 1.8773E-242 | 1534 | CYB561 |
| 0.095358246 | 1.2974E-243 | 5604 | MAP2K1 |
| 0.095355238 | 1.344E-243 | 80975 | TMPRSS5 |
| 0.095353686 | 1.3686E-243 | 6404 | SELPLG |
| 0.095319591 | 2.0404E-243 | 55591 | VEZT |
| 0.095304446 | 2.4363E-243 | 58538 | MPP4 |
| 0.095300463 | 2.5526E-243 | 8120 | AP3B2 |
| 0.095275911 | 3.4026E-243 | 728769 | CTD-2037K23.2 |
| 0.095244991 | 4.8862E-243 | 84749 | USP30 |
| 0.095227789 | 5.9755E-243 | 10717 | AP4B1 |
| 0.095224699 | 6.1955E-243 | 2900 | GRIK4 |
| 0.095164885 | 1.247E-242 | 9179 | AP4M1 |
| 0.095150701 | 1.4719E-242 | 5238 | PGM3 |
| 0.095134448 | 1.7799E-242 | 6091 | ROBO1 |
| 0.095113527 | 2.2729E-242 | 64859 | OBFC2A |
| 0.095112476 | 2.3009E-242 | 84225 | ZMYND15 |
| 0.095087888 | 3.0667E-242 | 6428 | SRSF3 |
| 0.095086772 | 3.1069E-242 | 1674 | DES |
| 0.095079822 | 3.3696E-242 | 10890 | RAB10 |
| 0.095076881 | 3.4874E-242 | 3630 | INS |
| 0.095066684 | 3.9285E-242 | 2064 | ERBB2 |
| 0.095046007 | 5.0014E-242 | 4884 | NPTX1 |
| 0.095020662 | 6.7235E-242 | 54536 | EXOC6 |
| 0.09500857 | 7.7428E-242 | 147699 | PPM1N |
| 0.094997222 | 8.8392E-242 | 56895 | AGPAT4 |
| 0.094956754 | 1.4174E-241 | 6720 | SREBF1 |
| 0.094952391 | 1.4914E-241 | 79144 | PPDPF |
| 0.094940062 | 1.722E-241 | 11218 | DDX20 |
| 0.094850024 | 4.9191E-241 | 126549 | ANKLE1 |
| 0.0948071 | 8.1104E-241 | 55171 | TBCCD1 |
| 0.094801214 | 8.6859E-241 | 9603 | NFE2L3 |
| 0.094778001 | 1.1382E-240 | 84645 | C22orf23 |
| 0.094772506 | 1.2134E-240 | 5276 | SERPINI2 |
| 0.094762444 | 1.3642E-240 | 10535 | RNASEH2A |
| 0.094745852 | 1.6548E-240 | 9940 | DLEC1 |
| 0.094736531 | 1.8444E-240 | 23326 | USP22 |
| 0.094720944 | 2.2112E-240 | 430 | ASCL2 |
| 0.094666154 | 9.0322E-239 | 83857 | TMTC1 |
| 0.094663921 | 4.2923E-240 | 94122 | SYTL5 |
| 0.094648137 | 5.157E-240 | 8549 | LGR5 |
| 0.094634515 | 6.042E-240 | 51086 | TNNI3K |
| 0.094632396 | 6.1926E-240 | 114770 | PGLYRP2 |
| 0.094621957 | 6.9916E-240 | 56954 | NIT2 |
| 0.094605354 | 8.4797E-240 | 93487 | MAPK1IP1L |
| 0.094599362 | 9.0912E-240 | 5331 | PLCB3 |
| 0.094583796 | 1.0894E-239 | 59350 | RXFP1 |
| 0.094508678 | 2.6065E-239 | 54020 | SLC37A1 |
| 0.094476312 | 3.7951E-239 | 197335 | WDR90 |
| 0.094459741 | 4.5997E-239 | 85449 | KIAA1755 |
| 0.09445048 | 5.1215E-239 | 2690 | GHR |
| 0.094427451 | 6.6899E-239 | 123096 | SLC25A29 |
| 0.094421573 | 7.1619E-239 | 55660 | PRPF40A |
| 0.094411564 | 8.0435E-239 | 400451 | FAM174B |
| 0.094411478 | 8.0515E-239 | 6613 | SUMO2 |
| 0.094395948 | 9.6403E-239 | 115207 | KCTD12 |
| 0.094391372 | 1.0166E-238 | 3758 | KCNJ1 |
| 0.09437502 | 1.2288E-238 | 3963 | LGALS7 |
| 0.094345517 | 1.7297E-238 | 9858 | KIAA0649 |
| 0.094340225 | 1.8391E-238 | 11142 | PKIG |
| 0.09427902 | 3.7371E-238 | 7168 | TPM1 |
| 0.094259534 | 4.6831E-238 | 4361 | MRE11A |
| 0.094252578 | 5.0759E-238 | 164091 | PAQR7 |
| 0.094230139 | 6.5814E-238 | 9540 | TP53I3 |
| 0.094227708 | 6.7693E-238 | 4948 | OCA2 |
| 0.094196604 | 9.702E-238 | 1809 | DPYSL3 |
| 0.094079243 | 3.769E-237 | 404217 | CTXN1 |
| 0.094044734 | 5.6154E-237 | 10238 | DCAF7 |
| 0.094034393 | 6.3278E-237 | 10848 | PPP1R13L |
| 0.093973901 | 1.2723E-236 | 80737 | C6orf27 |
| 0.093954478 | 1.592E-236 | 5728 | PTEN |
| 0.093946238 | 1.7508E-236 | 4053 | LTBP2 |
| 0.093918034 | 2.4242E-236 | 347088 | GPR144 |
| 0.093916409 | 2.47E-236 | 2004 | ELK3 |
| 0.093910891 | 2.6324E-236 | 55450 | CAMK2N1 |
| 0.093891505 | 3.2919E-236 | 55615 | PRR5 |
| 0.093872316 | 4.1072E-236 | 26286 | ARFGAP3 |
| 0.093857265 | 4.8854E-236 | 168455 | C7ORF74 |
| 0.093818706 | 7.6193E-236 | 55619 | DOCK10 |
| 0.09378824 | 2.1195E-235 | 79845 | RNF122 |
| 0.093787127 | 1.0963E-235 | 8445 | DYRK2 |
| 0.093748996 | 1.7008E-235 | 145814 | AC069029.1 |

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| 0.233304286 | 0.000675299 | 0.101 | 1 | 85366 | MYLK2 |
| 0.233284849 | 0.000676014 | 0.102 | 1 | 2050 | EPHB4 |
| 0.23325375 | 0.00067716 | 0.078 | 1 | 56951 | C5orf15 |
| 0.233247272 | 0.000677398 | 0.116 | 1 | 259266 | ASPM |
| 0.233151383 | 0.000680942 | 0.117 | 1 | 441416 | GPR116P2 |
| 0.233026988 | 0.000685565 | 0.098 | 1 | 94121 | SYTL4 |
| 0.232992002 | 0.000686871 | 0.115 | 1 | 60528 | ELAC2 |
| 0.232922029 | 0.000689488 | 0.104 | 1 | 138050 | HGSNAT |
| 0.23278338 | 0.000694703 | 0.108 | 1 | 54758 | KLHDC4 |
| 0.23275876 | 0.000695632 | 0.102 | 1 | 374864 | C18orf34 |
| 0.232623999 | 0.000700742 | 0.109 | 1 | 92856 | IMP4 |
| 0.23251904 | 0.000704745 | 0.101 | 1 | 27042 | C1orf107 |
| 0.232512561 | 0.000704993 | 0.079 | 1 | 388121 | TNFAIP8L3 |
| 0.23233763 | 0.000711714 | 0.118 | 1 | 57801 | HES4 |
| 0.232265066 | 0.00071452 | 0.094 | 1 | 23335 | WDR7 |
| 0.232224897 | 0.000716077 | 0.103 | 1 | 51703 | ACSL5 |
| 0.232222305 | 0.000716178 | 0.125 | 1 | 6448 | SGSH |
| 0.232206756 | 0.000716781 | 0.123 | 1 | 647979 | LOC647979 |
| 0.232198981 | 0.000717084 | 0.109 | 1 | 5453 | POU3F1 |
| 0.232139375 | 0.000719403 | 0.102 | 1 | 388389 | CCDC103 |
| 0.232127713 | 0.000719858 | 0.116 | 1 | 388015 | RTL1 |
| 0.232100501 | 0.00072092 | 0.112 | 1 | 54847 | SIDT1 |
| 0.23209791 | 0.000721021 | 0.12 | 1 | 3948 | LDHC |
| 0.232009796 | 0.00072447 | 0.076 | 1 | 29122 | TSP50 |
| 0.231957965 | 0.000726506 | 0.087 | 1 | 55530 | SVOP |
| 0.231952782 | 0.00072671 | 0.106 | 1 | 7098 | TLR3 |
| 0.231921683 | 0.000727935 | 0.104 | 1 | 81565 | NDEL1 |
| 0.231845231 | 0.000730953 | 0.1 | 1 | 80833 | APOL3 |
| 0.231803766 | 0.000732595 | 0.094 | 1 | 307 | ANXA4 |
| 0.231758414 | 0.000734394 | 0.099 | 1 | 1816 | DRD5 |
| 0.231707878 | 0.000736404 | 0.118 | 1 | 4855 | NOTCH4 |
| 0.231346354 | 0.000750934 | 0.107 | 1 | 55613 | MTMR8 |
| 0.231288043 | 0.000753302 | 0.101 | 1 | 2670 | GFAP |
| 0.231284156 | 0.00075346 | 0.105 | 1 | 4772 | NFATC1 |
| 0.231113112 | 0.000760447 | 0.099 | 1 | 23145 | SSPO |
| 0.231069056 | 0.000762257 | 0.105 | 1 | 56034 | PDGFC |
| 0.231006858 | 0.000764818 | 0.112 | 1 | 51635 | DHRS7 |
| 0.230936886 | 0.000767709 | 0.113 | 1 | 2874 | GPS2 |
| 0.230728264 | 0.000776388 | 0.114 | 1 | 94120 | SYTL3 |
| 0.230707531 | 0.000777256 | 0.1 | 1 | 9179 | AP4M1 |
| 0.230671249 | 0.000778776 | 0.114 | 1 | 23203 | PMPCA |
| 0.230651813 | 0.000779591 | 0.118 | 1 | 387890 | AC002563.2 |
| 0.230628488 | 0.000780571 | 0.108 | 1 | 22907 | DHX30 |
| 0.230616826 | 0.000781061 | 0.101 | 1 | 51248 | PDZD11 |
| 0.230566291 | 0.000783189 | 0.103 | 1 | 6647 | SOD1 |
| 0.230545558 | 0.000784064 | 0.102 | 1 | 146227 | AC132186.2 |
| 0.230476882 | 0.000786967 | 0.107 | 1 | 9509 | ADAMTS2 |
| 0.230413388 | 0.00078966 | 0.111 | 1 | 2319 | FLOT2 |
| 0.230371923 | 0.000791423 | 0.11 | 1 | 403253 | AC134982.1 |
| 0.230303246 | 0.000794351 | 0.106 | 1 | 8925 | HERC1 |
| 0.230266964 | 0.000795902 | 0.1 | 1 | 55827 | IQWD1 |
| 0.23024364 | 0.000796901 | 0.09 | 1 | 7480 | WNT10B |
| 0.230198288 | 0.000798846 | 0.1 | 1 | 595 | CCND1 |
| 0.230127019 | 0.000801911 | 0.104 | 1 | 9172 | MYOM2 |
| 0.230032427 | 0.000805996 | 0.111 | 1 | 201254 | STRA13 |
| 0.230014286 | 0.000806782 | 0.117 | 1 | 72 | ACTG2 |
| 0.229972821 | 0.00080858 | 0.098 | 1 | 6474 | SHOX2 |
| 0.229941722 | 0.000809932 | 0.095 | 1 | 3127 | HLA-DRB5 |
| 0.229924877 | 0.000810665 | 0.102 | 1 | 410 | ARSA |
| 0.229922285 | 0.000810777 | 0.12 | 1 | 118932 | ANKRD22 |
| 0.229863975 | 0.000813319 | 0.102 | 1 | 284904 | SEC14L4 |
| 0.229857496 | 0.000813602 | 0.096 | 1 | 7561 | ZNF14 |
| 0.229784932 | 0.000816776 | 0.146 | 1 | 54681 | P4HTM |
| 0.229765495 | 0.000817628 | 0.116 | 1 | 843 | CASP10 |
| 0.229765495 | 0.000817628 | 0.126 | 1 | 4969 | OGN |
| 0.229744763 | 0.000818538 | 0.104 | 1 | 5650 | KLK7 |
| 0.229739579 | 0.000818766 | 0.12 | 1 | 55815 | TSNAXIP1 |
| 0.229739579 | 0.000818766 | 0.081 | 1 | 79016 | DDA1 |
| 0.229551691 | 0.000827057 | 0.129 | 1 | 80700 | UBXN6 |
| 0.229536141 | 0.000827746 | 0.116 | 1 | 256302 | C17orf103 |
| 0.229529662 | 0.000828034 | 0.114 | 1 | 55750 | AGK |
| 0.229524479 | 0.000828264 | 0.097 | 1 | 192111 | PGAM5 |
| 0.229495972 | 0.00082953 | 0.127 | 1 | 197257 | LDHD |
| 0.229467464 | 0.000830798 | 0.104 | 1 | 64789 | DEM1 |
| 0.229457098 | 0.00083126 | 0.13 | 1 | 51058 | ZNF691 |
| 0.229381943 | 0.000834614 | 0.116 | 1 | 677769 | SCARNA17 |
| 0.22931197 | 0.000837747 | 0.091 | 1 | 3241 | HPCAL1 |
| 0.229241998 | 0.000840891 | 0.111 | 1 | 84342 | COG8 |
| 0.229225152 | 0.00084165 | 0.109 | 1 | 167227 | DCP2 |
| 0.2291798 | 0.000843696 | 0.123 | 1 | 14 | AAMP |
| 0.22912149 | 0.000846332 | 0.092 | 1 | 3597 | IL13RA1 |
| 0.229117602 | 0.000846508 | 0.11 | 1 | 51451 | LCMT1 |

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| 0.093733167 | 2.0408E-235 | 56063 | C1orf91 |
| 0.093716053 | 2.4852E-235 | 165215 | FAM171B |
| 0.093667536 | 4.3433E-235 | 133619 | PRRC1 |
| 0.093658277 | 4.8315E-235 | 23732 | FRRS1L |
| 0.0936581 | 4.8413E-235 | 79873 | NUDT18 |
| 0.093650581 | 5.2787E-235 | 7343 | UBTF |
| 0.093608311 | 8.5828E-235 | 92340 | C17orf72 |
| 0.093606607 | 8.7527E-235 | 2891 | GRIA2 |
| 0.093534455 | 2.0056E-234 | 112479 | ERI2 |
| 0.093527913 | 2.1622E-234 | 7851 | MALL |
| 0.093527012 | 2.1847E-234 | 5019 | OXCT1 |
| 0.093520888 | 2.3439E-234 | 221656 | AOF1 |
| 0.093506423 | 2.7675E-234 | 57139 | RGL3 |
| 0.093497055 | 3.0818E-234 | 1192 | CLIC1 |
| 0.093496911 | 3.0869E-234 | 6504 | SLAMF1 |
| 0.093494722 | 3.1655E-234 | 134121 | C5orf49 |
| 0.093483889 | 3.5848E-234 | 57180 | ACTR3B |
| 0.093460136 | 4.7085E-234 | 220202 | ATOH7 |
| 0.093450062 | 5.2857E-234 | 163589 | TDRD5 |
| 0.093443061 | 5.7279E-234 | 9420 | CYP7B1 |
| 0.093432039 | 6.5003E-234 | 1378 | CR1 |
| 0.093418051 | 7.6319E-234 | 219477 | OR8J1 |
| 0.093400596 | 9.3239E-234 | 8974 | P4HA2 |
| 0.093399725 | 9.4176E-234 | 1062 | CENPE |
| 0.09339541 | 9.8954E-234 | 3631 | INPP4A |
| 0.093389031 | 1.0647E-233 | 799 | CALCR |
| 0.093363092 | 1.4335E-233 | 56683 | C21orf59 |
| 0.09335123 | 1.6424E-233 | 221662 | RBM24 |
| 0.093350845 | 1.6496E-233 | 151963 | C3orf59 |
| 0.093345018 | 1.7636E-233 | 84962 | JUB |
| 0.093338612 | 1.898E-233 | 57486 | NLN |
| 0.093332258 | 2.0414E-233 | 286002 | AC078937.4 |
| 0.093322651 | 2.279E-233 | 546 | ATRX |
| 0.093267741 | 4.2754E-233 | 2520 | GAST |
| 0.093265343 | 4.3945E-233 | 1044 | CDX1 |
| 0.09323695 | 6.0832E-233 | 283209 | PGM2L1 |
| 0.093209429 | 8.3362E-233 | 27044 | SND1 |
| 0.093183634 | 1.1199E-232 | 6217 | RPS16P1 |
| 0.093174424 | 1.2444E-232 | 779 | CACNA1S |
| 0.093119514 | 2.3322E-232 | 80024 | SLC24A6 |
| 0.093100235 | 2.9074E-232 | 23518 | R3HDM1 |
| 0.093074183 | 3.916E-232 | 7477 | WNT7B |
| 0.093071158 | 4.0538E-232 | 6610 | SMPD2 |
| 0.09305839 | 4.6907E-232 | 81491 | GPR63 |
| 0.093026943 | 6.7188E-232 | 163071 | ZNF114 |
| 0.093016923 | 7.5336E-232 | 283385 | MORN3 |
| 0.093009051 | 8.2424E-232 | 79838 | TMC5 |
| 0.092991004 | 1.0129E-231 | 148523 | C1orf51 |
| 0.09298904 | 1.0359E-231 | 254439 | C11orf86 |
| 0.092968951 | 1.303E-231 | 8332 | HIST1H2AL |
| 0.09290072 | 2.8387E-231 | 441027 | TMEM150C |
| 0.092878978 | 3.6378E-231 | 54935 | DUSP23 |
| 0.092859642 | 4.5353E-231 | 2294 | FOXF1 |
| 0.092845747 | 5.314E-231 | 1978 | EIF4EBP1 |
| 0.092835229 | 5.991E-231 | 64326 | RFWD2 |
| 0.092813553 | 7.6703E-231 | 26035 | GLCE |
| 0.092769911 | 1.2612E-230 | 3755 | KCNG1 |
| 0.092742196 | 1.7294E-230 | 10763 | NES |
| 0.092733172 | 1.9166E-230 | 1268 | CNR1 |
| 0.092727405 | 2.0467E-230 | 84253 | GARNL3 |
| 0.092725529 | 2.0908E-230 | 5676 | PSG7 |
| 0.0927034 | 2.6899E-230 | 146330 | FBXL16 |
| 0.092670785 | 3.8991E-230 | 53353 | LRP1B |
| 0.092653999 | 4.7197E-230 | 221091 | LRRN4CL |
| 0.09258979 | 9.7968E-230 | 55627 | SMPD4 |
| 0.092589089 | 9.8753E-230 | 86 | ACTL6A |
| 0.092577679 | 1.1243E-229 | 2494 | NR5A2 |
| 0.092577095 | 1.1318E-229 | 388125 | FAM148B |
| 0.092549112 | 1.5556E-229 | 143384 | C10orf46 |
| 0.092544356 | 1.642E-229 | 1107 | CHD3 |
| 0.092531196 | 1.9069E-229 | 9704 | DHX34 |
| 0.092518302 | 2.2077E-229 | 389558 | FAM180A |
| 0.092517112 | 2.2378E-229 | 3683 | ITGAL |
| 0.092512093 | 2.3691E-229 | 79694 | MANEA |
| 0.092505056 | 2.5663E-229 | 55898 | UNC45A |
| 0.092484388 | 3.2453E-229 | 9427 | ECEL1 |
| 0.092421386 | 6.6356E-229 | 55225 | RAVER2 |
| 0.092397001 | 8.7509E-229 | 64215 | DNAJC1 |
| 0.092395147 | 8.9369E-229 | 2812 | GP1BB |
| 0.092375836 | 1.1126E-228 | 650 | BMP2 |
| 0.092340105 | 1.6685E-228 | 51562 | MBIP |
| 0.092316104 | 2.1902E-228 | 100289274 | DNAJC3-AS1 |

| | | | | | |
|---|---|---|---|---|---|
| 0.229085208 | 0.000847977 | 0.111 | 1 | 2067 | ERCC1 |
| 0.229068362 | 0.000848741 | 0.104 | 1 | 79674 | VEPH1 |
| 0.229026897 | 0.000850626 | 0.104 | 1 | 84892 | C3orf39 |
| 0.229010052 | 0.000851393 | 0.084 | 1 | 3786 | KCNQ3 |
| 0.228872699 | 0.000857668 | 0.084 | 1 | 3269 | HRH1 |
| 0.228695176 | 0.000865842 | 0.106 | 1 | 474149 | TTTY4B |
| 0.228486555 | 0.000875539 | 0.111 | 1 | 203069 | R3HCC1 |
| 0.228465822 | 0.000876508 | 0.102 | 1 | 5339 | PLEC1 |
| 0.228443794 | 0.000877539 | 0.095 | 1 | 55303 | GIMAP4 |
| 0.228421765 | 0.000878571 | 0.135 | 1 | 122616 | C14orf79 |
| 0.228264975 | 0.000885949 | 0.1 | 1 | 84458 | LCOR |
| 0.228132805 | 0.000892212 | 0.109 | 1 | 6307 | SC4MOL |
| 0.227985086 | 0.00089926 | 0.132 | 1 | 64131 | XYLT1 |
| 0.22794362 | 0.000901248 | 0.107 | 1 | 89797 | NAV2 |
| 0.227915113 | 0.000902617 | 0.117 | 1 | 345645 | PSMC1P4 |
| 0.227845141 | 0.000905985 | 0.123 | 1 | 2537 | IFI6 |
| 0.227608012 | 0.000917486 | 0.11 | 1 | 9068 | ANGPTL1 |
| 0.227501757 | 0.000922683 | 0.124 | 1 | 55621 | TRMT1 |
| 0.227466771 | 0.0009244 | 0.122 | 1 | 7325 | UBE2E2 |
| 0.227394207 | 0.00092797 | 0.096 | 1 | 23324 | MAN2B2 |
| 0.227347559 | 0.000930273 | 0.142 | 1 | 7846 | TUBA1A |
| 0.227309981 | 0.000932131 | 0.108 | 1 | 2193 | FARSA |
| 0.227269812 | 0.000934121 | 0.118 | 1 | 3231 | HOXD1 |
| 0.227223163 | 0.000936437 | 0.11 | 1 | 286257 | C9orf142 |
| 0.227167445 | 0.000939211 | 0.105 | 1 | 29099 | COMMD9 |
| 0.227113022 | 0.000941927 | 0.085 | 1 | 575 | BAI1 |
| 0.227024908 | 0.000946341 | 0.12 | 1 | 51529 | ANAPC11 |
| 0.226984739 | 0.000948359 | 0.107 | 1 | 283152 | CCDC153 |
| 0.226970485 | 0.000949076 | 0.098 | 1 | 2356 | FPGS |
| 0.226941978 | 0.000950512 | 0.119 | 1 | 4958 | OMD |
| 0.226923837 | 0.000951426 | 0.118 | 1 | 124995 | MRPL10 |
| 0.22687978 | 0.000953651 | 0.125 | 1 | 60343 | FAM3A |
| 0.226742427 | 0.000960618 | 0.108 | 1 | 344387 | CDKL4 |
| 0.226667271 | 0.000964449 | 0.121 | 1 | 23521 | RPL13A |
| 0.226555834 | 0.000970157 | 0.114 | 1 | 1485 | CTAG1B |
| 0.226504002 | 0.000972822 | 0.115 | 1 | 9746 | CLSTN3 |
| 0.226497523 | 0.000973156 | 0.097 | 1 | 26508 | HEYL |
| 0.226476791 | 0.000974224 | 0.123 | 1 | 83988 | NCALD |
| 0.226475495 | 0.000974291 | 0.138 | 1 | 793 | CALB1 |
| 0.226408114 | 0.00097777 | 0.112 | 1 | 2939 | GSTA2 |
| 0.226378311 | 0.000979313 | 0.089 | 1 | 4738 | NEDD8 |
| 0.226342029 | 0.000981194 | 0.102 | 1 | 10257 | ABCC4 |
| 0.226322592 | 0.000982203 | 0.142 | 1 | 392360 | CTSL3 |
| 0.226097126 | 0.000993979 | 0.117 | 1 | 401944 | LDLRAD2 |
| 0.226084168 | 0.00099466 | 0.115 | 1 | 283685 | AC100756.1 |
| 0.226072506 | 0.000995273 | 0.103 | 1 | 389541 | C7orf59 |
| 0.226053069 | 0.000996295 | 0.123 | 1 | 400410 | ST20 |
| 0.225924786 | 0.001003068 | 0.115 | 1 | 23275 | POFUT2 |
| 0.225917011 | 0.00100348 | 0.09 | 1 | 6641 | SNTB1 |
| 0.22581594 | 0.001008847 | 0.129 | 1 | 64780 | MICAL1 |
| 0.225795208 | 0.001009952 | 0.116 | 1 | 55726 | C12orf11 |
| 0.225743376 | 0.001012717 | 0.098 | 1 | 22885 | ABLIM3 |
| 0.225735601 | 0.001013133 | 0.094 | 1 | 11000 | SLC27A3 |
| 0.225630643 | 0.001018757 | 0.114 | 1 | 54461 | FBXW5 |
| 0.22562546 | 0.001019035 | 0.135 | 1 | 57619 | SHROOM3 |
| 0.225558079 | 0.001022662 | 0.113 | 1 | 51127 | TRIM17 |
| 0.225555487 | 0.001022802 | 0.104 | 1 | 51776 | ZAK |
| 0.225547712 | 0.001023221 | 0.109 | 1 | 154467 | C6orf129 |
| 0.225530867 | 0.00102413 | 0.129 | 1 | 55818 | KDM3A |
| 0.225501064 | 0.00102574 | 0.122 | 1 | 80201 | HKDC1 |
| 0.225488106 | 0.00102644 | 0.114 | 1 | 1429 | CRYZ |
| 0.225481627 | 0.001026791 | 0.113 | 1 | 57216 | VANGL2 |
| 0.225383148 | 0.001032132 | 0.113 | 1 | 84836 | ABHD14B |
| 0.225377965 | 0.001032414 | 0.118 | 1 | 2827 | GPR3 |
| 0.225344274 | 0.001034248 | 0.116 | 1 | 402778 | AC068580.3 |
| 0.225322246 | 0.001035448 | 0.147 | 1 | 90507 | SCRN2 |
| 0.225292443 | 0.001037075 | 0.093 | 1 | 9956 | HS3ST2 |
| 0.225166751 | 0.001043959 | 0.117 | 1 | 127281 | C1orf93 |
| 0.225077342 | 0.001048882 | 0.112 | 1 | 284422 | AC005551.1 |
| 0.224965905 | 0.001055048 | 0.115 | 1 | 199920 | C1orf168 |
| 0.22494258 | 0.001056343 | 0.118 | 1 | 146779 | AC008026.2 |
| 0.224845397 | 0.001061753 | 0.111 | 1 | 81573 | ANKRD13C |
| 0.22483503 | 0.001062332 | 0.104 | 1 | 116541 | MRPL54 |
| 0.224827256 | 0.001062766 | 0.118 | 1 | 846 | CASR |
| 0.224805227 | 0.001063997 | 0.118 | 1 | 84266 | ALKBH7 |
| 0.224766354 | 0.001066172 | 0.086 | 1 | 154007 | SNRNP48 |
| 0.224765058 | 0.001066245 | 0.105 | 1 | 27253 | PCDH17 |
| 0.224763762 | 0.001066318 | 0.119 | 1 | 130271 | PLEKHH2 |
| 0.224735255 | 0.001067916 | 0.125 | 1 | 2584 | GALK1 |
| 0.22472748 | 0.001068352 | 0.127 | 1 | 7391 | USF1 |
| 0.224674353 | 0.001071337 | 0.107 | 1 | 387496 | RASL11A |
| 0.224556436 | 0.001077991 | 0.137 | 1 | 6482 | ST3GAL1 |

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| 0.092307434 | 2.4164E-228 | 79902 | NUP85 |
| 0.092304551 | 2.4967E-228 | 9706 | ULK2 |
| 0.092297534 | 2.7034E-228 | 347853 | TBX10 |
| 0.09229032 | 2.9337E-228 | 79042 | TSEN34 |
| 0.092262268 | 4.0314E-228 | 7157 | TP53 |
| 0.092254869 | 4.3839E-228 | 8451 | CUL4A |
| 0.092250982 | 4.5812E-228 | 128637 | TBC1D20 |
| 0.09224837 | 4.7188E-228 | 3691 | ITGB4 |
| 0.092230372 | 5.7858E-228 | 728175 | AC103540.1 |
| 0.092224441 | 6.1878E-228 | 114798 | SLITRK1 |
| 0.092204162 | 7.785E-228 | 90488 | C12orf23 |
| 0.092202796 | 7.9062E-228 | 10859 | LILRB1 |
| 0.092194173 | 8.717E-228 | 1382 | CRABP2 |
| 0.092191651 | 8.9695E-228 | 117196 | MRGPRX4 |
| 0.092179446 | 1.0298E-227 | 65997 | RASL11B |
| 0.092174558 | 1.0884E-227 | 256227 | AC099759.1 |
| 0.092162923 | 1.2416E-227 | 10501 | SEMA6B |
| 0.092160175 | 1.2808E-227 | 7515 | XRCC1 |
| 0.092140948 | 1.5921E-227 | 10381 | RP11-566K11.2 |
| 0.092088432 | 2.8836E-227 | 147 | ADRA1B |
| 0.092085333 | 2.9865E-227 | 399668 | LINC00086 |
| 0.092063954 | 3.803E-227 | 8277 | TKTL1 |
| 0.092047214 | 4.5952E-227 | 6755 | SSTR5 |
| 0.092027193 | 5.7619E-227 | 3441 | IFNA4 |
| 0.092014873 | 6.6226E-227 | 285679 | AC136604.1 |
| 0.091984846 | 9.2968E-227 | 25943 | C20orf194 |
| 0.091979098 | 9.9204E-227 | 1060 | CENPC1 |
| 0.091970842 | 1.089E-226 | 55332 | DRAM1 |
| 0.091963743 | 1.1799E-226 | 10683 | DLL3 |
| 0.091953966 | 1.3176E-226 | 5475 | PPEF1 |
| 0.091951024 | 1.3621E-226 | 21 | ABCA3 |
| 0.091944489 | 1.4664E-226 | 6571 | SLC18A2 |
| 0.091918378 | 1.969E-226 | 6839 | SUV39H1 |
| 0.09189763 | 2.4885E-226 | 167838 | TXLNB |
| 0.091880026 | 3.0353E-226 | 100131176 | RP4-555L14.5 |
| 0.091867337 | 3.5024E-226 | 54972 | TMEM132A |
| 0.091837236 | 4.9181E-226 | 340706 | VWA2 |
| 0.091801676 | 7.3435E-226 | 1397 | CRIP2 |
| 0.091768274 | 1.07E-225 | 23129 | PLXND1 |
| 0.091761422 | 1.1559E-225 | 171023 | ASXL1 |
| 0.091758266 | 1.1977E-225 | 7224 | TRPC5 |
| 0.091753724 | 1.2606E-225 | 29780 | PARVB |
| 0.091752128 | 1.2835E-225 | 126259 | TMIGD2 |
| 0.091743849 | 1.4089E-225 | 55010 | C12orf48 |
| 0.091740149 | 1.4689E-225 | 51131 | PHF11 |
| 0.091737715 | 1.5097E-225 | 144486 | LOC144486 |
| 0.091730229 | 1.6425E-225 | 3762 | KCNJ5 |
| 0.091716389 | 1.9196E-225 | 7739 | ZNF185 |
| 0.09171015 | 2.0593E-225 | 25827 | FBXL2 |
| 0.091701837 | 2.2614E-225 | 129080 | EMID1 |
| 0.091688807 | 2.6187E-225 | 7123 | CLEC3B |
| 0.091684805 | 2.7393E-225 | 3593 | IL12B |
| 0.091681552 | 2.8415E-225 | 4356 | MPP3 |
| 0.091676977 | 2.9917E-225 | 3690 | ITGB3 |
| 0.091672041 | 3.1626E-225 | 6241 | RRM2 |
| 0.091659629 | 3.6367E-225 | 5277 | PIGA |
| 0.091636805 | 4.7017E-225 | 137964 | AGPAT6 |
| 0.09160396 | 6.8032E-225 | 222865 | TMEM130 |
| 0.091595916 | 7.4474E-225 | 374650 | GOLGA6L5 |
| 0.091588201 | 8.1223E-225 | 81558 | FAM117A |
| 0.091566078 | 1.0416E-224 | 8552 | INE1 |
| 0.09155483 | 1.182E-224 | 388512 | CLEC17A |
| 0.091553917 | 1.1942E-224 | 57626 | KLHL1 |
| 0.09154599 | 1.3055E-224 | 2767 | GNA11 |
| 0.091545322 | 1.3153E-224 | 997 | CDC34 |
| 0.091544448 | 1.3283E-224 | 10376 | TUBA1B |
| 0.091525174 | 1.6496E-224 | 117177 | RAB3IP |
| 0.091495306 | 2.3074E-224 | 4485 | MST1 |
| 0.091463132 | 3.3117E-224 | 22953 | P2RX2 |
| 0.091434779 | 4.5531E-224 | 100506658 | OCLN |
| 0.091399268 | 6.7827E-224 | 55065 | GPR172B |
| 0.091371192 | 9.2942E-224 | 51440 | HPCAL4 |
| 0.091368556 | 9.5732E-224 | 337977 | KRTAP21-1 |
| 0.091350452 | 1.9811E-222 | 260434 | PYDC1 |
| 0.091301945 | 2.0205E-223 | 115560 | ZNF501 |
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| 0.090364027 | 7.0407E-219 | 731789 | RP13-16H11.1 |
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| 0.089094753 | 8.2934E-213 | 3042 | HBM |
| 0.089094449 | 8.321E-213 | 440585 | FAM183A |
| 0.089081665 | 9.5693E-213 | 91523 | FAM113B |
| 0.089076538 | 1.0121E-212 | 5034 | P4HB |
| 0.08906609 | 1.1346E-212 | 11245 | GPR176 |
| 0.089018137 | 1.9161E-212 | 10236 | HNRNPR |
| 0.089014168 | 2.001E-212 | 26231 | LRRC29 |
| 0.089006665 | 2.1719E-212 | 80097 | FAM128B |
| 0.089002668 | 2.2688E-212 | 57570 | TRMT5 |
| 0.088995422 | 2.4557E-212 | 387715 | ARMS2 |
| 0.088986198 | 2.716E-212 | 79927 | GRRP1 |
| 0.088979981 | 2.9068E-212 | 154091 | SLC2A12 |
| 0.088965188 | 3.4163E-212 | 9620 | CELSR1 |
| 0.088962757 | 3.5083E-212 | 27134 | TJP3 |
| 0.088954357 | 3.8452E-212 | 10519 | CIB1 |
| 0.088913551 | 6.0027E-212 | 29969 | MDFIC |
| 0.088886445 | 8.0682E-212 | 10904 | BLCAP |
| 0.088879183 | 8.7334E-212 | 50944 | SHANK1 |
| 0.088877302 | 8.9144E-212 | 85236 | HIST1H2BK |
| 0.088866685 | 1.0009E-211 | 666 | BOK |
| 0.08886337 | 1.0377E-211 | 1141 | CHRNB2 |
| 0.088861799 | 1.0557E-211 | 5447 | POR |
| 0.08885149 | 1.1813E-211 | 7319 | UBE2A |
| 0.088837001 | 1.3834E-211 | 341359 | SYT10 |
| 0.088794248 | 2.2047E-211 | 286187 | LRRC67 |
| 0.088791361 | 2.2751E-211 | 7158 | TP53BP1 |
| 0.088779168 | 2.5984E-211 | 10636 | RGS14 |
| 0.088727962 | 4.5386E-211 | 339559 | ZNF642 |
| 0.088686844 | 7.1012E-211 | 56965 | PARP6 |
| 0.08868158 | 7.5199E-211 | 25790 | CCDC19 |
| 0.088676813 | 7.9203E-211 | 646936 | LOC646936 |
| 0.088673286 | 8.2302E-211 | 4172 | MCM3 |
| 0.088607311 | 1.6869E-210 | 3384 | ICAM2 |
| 0.088597444 | 1.878E-210 | 199990 | C1orf86 |
| 0.088590569 | 2.0237E-210 | 54796 | BNC2 |
| 0.088587653 | 2.0889E-210 | 64283 | AC093283.3 |
| 0.088583089 | 2.1952E-210 | 57182 | ANKRD50 |
| 0.088563214 | 2.7245E-210 | 26251 | KCNG2 |
| 0.088562716 | 2.7393E-210 | 5595 | MAPK3 |
| 0.088553429 | 3.0302E-210 | 6421 | SFPQ |
| 0.088550338 | 3.1337E-210 | 2044 | EPHA5 |
| 0.088544928 | 3.3235E-210 | 728739 | LOC728739 |
| 0.088544665 | 3.333E-210 | 910 | CD1B |
| 0.088515223 | 4.5894E-210 | 22800 | RRAS2 |
| 0.088500346 | 5.3942E-210 | 147372 | CCBE1 |
| 0.088496465 | 5.6264E-210 | 222699 | TOB2P1 |

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| 0.215991292 | 0.001676373 | 0.133 | 1 | 826 | CAPNS1 |
| 0.215975743 | 0.001677692 | 0.109 | 1 | 3823 | KLRC3 |
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| 0.215790446 | 0.001693493 | 0.151 | 1 | 401251 | C6orf26 |
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| 0.215629768 | 0.001707303 | 0.122 | 1 | 2153 | F5 |
| 0.215629768 | 0.001707303 | 0.131 | 1 | 344967 | AC098591.2 |
| 0.215541655 | 0.001714921 | 0.136 | 1 | 4716 | NDUFB10 |
| 0.21550926 | 0.001717729 | 0.119 | 1 | 8214 | DGCR6 |
| 0.21545095 | 0.001722795 | 0.144 | 1 | 51073 | MRPL4 |
| 0.21545095 | 0.001722795 | 0.137 | 1 | 130827 | TMEM182 |
| 0.215430217 | 0.001724599 | 0.144 | 1 | 3730 | KAL1 |
| 0.215419851 | 0.001725502 | 0.136 | 1 | 2329 | FMO4 |
| 0.215308413 | 0.001735235 | 0.104 | 1 | 8038 | ADAM12 |
| 0.215300638 | 0.001735916 | 0.119 | 1 | 2217 | FCGRT |
| 0.21526954 | 0.001738642 | 0.125 | 1 | 887 | CCKBR |
| 0.2152203 | 0.001742966 | 0.131 | 1 | 25979 | DHRS7B |
| 0.215160694 | 0.001748214 | 0.148 | 1 | 91663 | MYADM |
| 0.215119228 | 0.001751873 | 0.12 | 1 | 146712 | B3GNTL1 |
| 0.214927452 | 0.001768888 | 0.134 | 1 | 10776 | ARPP19 |
| 0.214839339 | 0.001776756 | 0.139 | 1 | 80108 | ZFP2 |
| 0.214756408 | 0.001784191 | 0.132 | 1 | 113655 | MFSD3 |
| 0.214726605 | 0.001786869 | 0.113 | 1 | 1842 | ECM2 |
| 0.214381926 | 0.001818118 | 0.143 | 1 | 51365 | PLA1A |
| 0.214306771 | 0.001824997 | 0.134 | 1 | 10109 | ARPC2 |
| 0.214295109 | 0.001826067 | 0.145 | 1 | 4921 | DDR2 |
| 0.214130544 | 0.001841222 | 0.149 | 1 | 5657 | PRTN3 |
| 0.214060572 | 0.001847701 | 0.136 | 1 | 5702 | PSMC3 |
| 0.214045022 | 0.001849143 | 0.136 | 1 | 10287 | RGS19 |
| 0.214039839 | 0.001849624 | 0.124 | 1 | 56672 | C11orf17 |
| 0.213990599 | 0.0018542 | 0.137 | 1 | 29106 | SCG3 |
| 0.21392581 | 0.001860237 | 0.106 | 1 | 5796 | PTPRK |
| 0.213915443 | 0.001861204 | 0.149 | 1 | 6301 | SARS |
| 0.213846767 | 0.001867626 | 0.123 | 1 | 5603 | MAPK13 |
| 0.21381826 | 0.001870297 | 0.132 | 1 | 23647 | ARFIP2 |
| 0.213652399 | 0.001885909 | 0.164 | 1 | 55012 | PPP2R3C |
| 0.213564286 | 0.001894252 | 0.115 | 1 | 3912 | LAMB1 |
| 0.213515046 | 0.001898928 | 0.136 | 1 | 117583 | PARD3B |
| 0.213454144 | 0.001904727 | 0.136 | 1 | 80776 | B9D2 |
| 0.213417862 | 0.001908189 | 0.114 | 1 | 2029 | ENSA |
| 0.213068 | 0.001941872 | 0.119 | 1 | 90627 | STARD13 |
| 0.213016168 | 0.001946908 | 0.147 | 1 | 597 | BCL2A1 |
| 0.213009689 | 0.001947538 | 0.142 | 1 | 26290 | GALNT8 |
| 0.213000619 | 0.001948421 | 0.131 | 1 | 4898 | NRD1 |
| 0.212854195 | 0.001962722 | 0.14 | 1 | 642273 | FAM110C |
| 0.212828279 | 0.001965263 | 0.141 | 1 | 81624 | DIAPH3 |
| 0.212657236 | 0.00198211 | 0.175 | 1 | 7579 | ZSCAN20 |
| 0.212619658 | 0.001985829 | 0.149 | 1 | 1160 | CKMT2 |
| 0.212495262 | 0.001998184 | 0.122 | 1 | 122042 | RXFP2 |
| 0.212426586 | 0.002005036 | 0.155 | 1 | 79007 | DBNDD1 |
| 0.212365684 | 0.00201113 | 0.157 | 1 | 51176 | LEF1 |
| 0.212324219 | 0.002015289 | 0.145 | 1 | 115708 | TRMT61A |
| 0.212247767 | 0.002022977 | 0.141 | 1 | 8643 | PTCH2 |
| 0.21224388 | 0.002023368 | 0.14 | 1 | 29074 | MRPL18 |
| 0.212227035 | 0.002025066 | 0.132 | 1 | 5585 | PKN1 |
| 0.212212781 | 0.002026504 | 0.154 | 1 | 54976 | C20orf27 |
| 0.212159654 | 0.002031871 | 0.141 | 1 | 9427 | ECEL1 |
| 0.212131146 | 0.002034756 | 0.139 | 1 | 10894 | LYVE1 |
| 0.21208709 | 0.002039222 | 0.123 | 1 | 5824 | PEX19 |
| 0.212024892 | 0.002045542 | 0.137 | 1 | 10923 | SUB1 |
| 0.211973061 | 0.002050823 | 0.157 | 1 | 84054 | PCDHB19P |
| 0.211921229 | 0.002056116 | 0.141 | 1 | 55181 | C17orf71 |
| 0.211906976 | 0.002057574 | 0.137 | 1 | 3418 | IDH2 |
| 0.211887539 | 0.002059563 | 0.166 | 1 | 2166 | FAAH |
| 0.211814975 | 0.002067006 | 0.115 | 1 | 51646 | YPEL5 |
| 0.211585621 | 0.002090692 | 0.169 | 1 | 2735 | GLI1 |
| 0.211568775 | 0.002092441 | 0.155 | 1 | 116841 | SNAP47 |
| 0.211566184 | 0.00209271 | 0.172 | 1 | 339559 | ZNF642 |
| 0.211524719 | 0.002097023 | 0.128 | 1 | 401827 | MSLNL |
| 0.211441788 | 0.002105671 | 0.141 | 1 | 25818 | KLK5 |
| 0.211406802 | 0.00210933 | 0.132 | 1 | 4123 | MAN2C1 |
| 0.211406802 | 0.00210933 | 0.132 | 1 | 26226 | FBXW4P1 |
| 0.211208547 | 0.002130171 | 0.156 | 1 | 653639 | LYPLA2P1 |
| 0.211169673 | 0.002134279 | 0.126 | 1 | 54756 | IL17RD |
| 0.210931249 | 0.002159636 | 0.145 | 1 | 81533 | ITFG1 |
| 0.210869051 | 0.002166296 | 0.134 | 1 | 283446 | MYO1H |
| 0.210840544 | 0.002169355 | 0.15 | 1 | 2538 | G6PC |
| 0.210830178 | 0.002170468 | 0.141 | 1 | 2691 | GHRH |
| 0.210797783 | 0.00217395 | 0.115 | 1 | 54963 | UCKL1 |
| 0.210740768 | 0.002180091 | 0.113 | 1 | 3589 | IL11 |

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| 0.088477357 | 6.9238E-210 | 414777 | HCG18 |
| 0.088430358 | 1.1532E-209 | 644762 | LOC644762 |
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| 0.088412548 | 1.3991E-209 | 339231 | ARL16 |
| 0.08841198 | 1.4077E-209 | 158228 | FAM201A |
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| 0.088386433 | 1.8573E-209 | 83741 | TFAP2D |
| 0.088340273 | 3.0638E-209 | 2040 | STOM |
| 0.088339383 | 3.0935E-209 | 100128164 | RP11-379K17.4 |
| 0.088335922 | 3.2117E-209 | 55503 | TRPV6 |
| 0.088331211 | 3.38E-209 | 148753 | FAM163A |
| 0.088321664 | 3.7485E-209 | 10094 | ARPC3 |
| 0.088296957 | 4.8993E-209 | 51606 | ATP6V1H |
| 0.088292033 | 5.1678E-209 | 55422 | ZNF331 |
| 0.08822407 | 1.0789E-208 | 4858 | NOVA2 |
| 0.088218594 | 1.1448E-208 | 25809 | TTLL1 |
| 0.088208695 | 1.2743E-208 | 64860 | ARMCX5 |
| 0.088182417 | 1.6935E-208 | 100129387 | GABPB1-AS1 |
| 0.08817276 | 1.88E-208 | 6874 | TAF4 |
| 0.088166211 | 2.018E-208 | 79716 | NPEPL1 |
| 0.088150039 | 2.4039E-208 | 124936 | CYB5D2 |
| 0.088145191 | 2.5333E-208 | 8290 | HIST3H3 |
| 0.088144804 | 2.5439E-208 | 10972 | TMED10 |
| 0.088131347 | 2.9425E-208 | 64854 | USP46 |
| 0.088129166 | 3.0127E-208 | 148014 | TTC9B |
| 0.088129045 | 3.0166E-208 | 8682 | PEA15 |
| 0.088123328 | 3.209E-208 | 85443 | DCLK3 |
| 0.088095346 | 4.3428E-208 | 3228 | HOXC12 |
| 0.088046675 | 7.3486E-208 | 567 | B2M |
| 0.088035041 | 8.3328E-208 | 646993 | HMGB3P24 |
| 0.088017522 | 1.0069E-207 | 10811 | NOXA1 |
| 0.087993235 | 1.3088E-207 | 4097 | MAFG |
| 0.0879887 | 1.3745E-207 | 10466 | COG5 |
| 0.087972521 | 1.6368E-207 | 151636 | DTX3L |
| 0.08794427 | 2.2204E-207 | 5652 | PRSS8 |
| 0.087934248 | 2.474E-207 | 26524 | LATS2 |
| 0.087905172 | 3.3855E-207 | 2580 | GAK |
| 0.087888002 | 4.0743E-207 | 378884 | NHLRC1 |
| 0.087872348 | 4.8235E-207 | 25800 | SLC39A6 |
| 0.087849866 | 6.1465E-207 | 196441 | ZFC3H1 |
| 0.087846975 | 6.341E-207 | 6626 | SNRPA |
| 0.08780304 | 1.0181E-206 | 143162 | FRMPD2 |
| 0.087801382 | 1.0364E-206 | 83464 | APH1B |
| 0.087799492 | 1.0578E-206 | 22989 | MYH15 |
| 0.087797426 | 1.0816E-206 | 5128 | PCTK2 |
| 0.087796142 | 1.0966E-206 | 84443 | FRMPD3 |
| 0.087780027 | 1.3045E-206 | 2996 | GYPE |
| 0.087779858 | 1.3069E-206 | 11104 | KATNA1 |
| 0.087771025 | 1.4373E-206 | 22893 | BAHD1 |
| 0.087739675 | 2.8175E-205 | 55086 | CXorf57 |
| 0.08773175 | 2.1939E-206 | 51052 | PRLH |
| 0.087711838 | 2.7183E-206 | 7010 | TEK |
| 0.087658997 | 4.7997E-206 | 9399 | STOML1 |
| 0.087655918 | 4.9613E-206 | 540 | ATP7B |
| 0.087637129 | 6.0723E-206 | 8692 | HYAL2 |
| 0.087596643 | 9.3838E-206 | 131616 | TMEM42 |
| 0.087568132 | 1.2748E-205 | 57596 | BEGAIN |
| 0.087561461 | 1.3695E-205 | 2916 | GRM6 |
| 0.08755611 | 1.4506E-205 | 11000 | SLC27A3 |
| 0.087546581 | 1.6069E-205 | 221322 | C6orf170 |
| 0.087546577 | 1.607E-205 | 54985 | HCFC1R1 |
| 0.087536566 | 1.7894E-205 | 124045 | C16orf55 |
| 0.087522983 | 2.0705E-205 | 122011 | CSNK1A1L |
| 0.087522907 | 2.0722E-205 | 9200 | PTPLA |
| 0.087520878 | 2.1178E-205 | 4613 | MYCN |
| 0.087512832 | 2.3089E-205 | 388931 | AC104665.1 |
| 0.087503822 | 2.5435E-205 | 84059 | GPR98 |
| 0.087501516 | 2.6072E-205 | 85028 | SNHG12 |
| 0.087489901 | 2.9535E-205 | 7535 | ZAP70 |
| 0.087482174 | 3.2089E-205 | 5097 | PCDH1 |
| 0.087426029 | 5.8614E-205 | 57727 | NCOA5 |
| 0.087390733 | 8.5586E-205 | 79734 | KCTD17 |
| 0.087374235 | 1.0215E-204 | 155051 | CRYGN |
| 0.087329226 | 1.6547E-204 | 5651 | PRSS7 |
| 0.087320873 | 1.8096E-204 | 10677 | AVIL |
| 0.087296433 | 2.3512E-204 | 8354 | HIST1H3I |
| 0.087296043 | 2.3611E-204 | 23130 | ATG2A |
| 0.087280621 | 2.7851E-204 | 386682 | KRTAP10-3 |
| 0.087242313 | 4.1973E-204 | 2830 | GPR6 |
| 0.087241961 | 4.2131E-204 | 23148 | NACAD |
| 0.087213001 | 5.744E-204 | 129831 | RBM45 |
| 0.08718818 | 7.491E-204 | 1660 | DHX9 |

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| 0.21071874 | 0.002182468 | 0.159 | 1 | 163059 | ZNF433 |
| 0.210655246 | 0.002189333 | 0.146 | 1 | 1950 | EGF |
| 0.210612486 | 0.002193967 | 0.136 | 1 | 23443 | SLC35A3 |
| 0.210556767 | 0.002200018 | 0.138 | 1 | 284185 | LINC00482 |
| 0.210536034 | 0.002202274 | 0.114 | 1 | 83891 | SNX25 |
| 0.210521781 | 0.002203826 | 0.124 | 1 | 23673 | STX12 |
| 0.210514006 | 0.002204673 | 0.139 | 1 | 10882 | AC015936.3 |
| 0.210481611 | 0.002208205 | 0.156 | 1 | 7965 | AIMP2 |
| 0.210480315 | 0.002208346 | 0.129 | 1 | 54625 | PARP14 |
| 0.210437554 | 0.002213017 | 0.14 | 1 | 355 | FAS |
| 0.210388315 | 0.002218407 | 0.129 | 1 | 1109 | AKR1C4 |
| 0.210333892 | 0.002224377 | 0.148 | 1 | 440915 | POTEKP |
| 0.21029761 | 0.002228366 | 0.144 | 1 | 222256 | CTA-351J1.1 |
| 0.210256144 | 0.002232932 | 0.108 | 1 | 686 | BTD |
| 0.210254849 | 0.002233075 | 0.138 | 1 | 131034 | CPNE4 |
| 0.210212088 | 0.002237793 | 0.16 | 1 | 9735 | KNTC1 |
| 0.210206905 | 0.002238366 | 0.121 | 1 | 83478 | ARHGAP24 |
| 0.210192651 | 0.002239941 | 0.112 | 1 | 56243 | KIAA1217 |
| 0.210166735 | 0.002242807 | 0.163 | 1 | 4311 | MME |
| 0.210059185 | 0.002254739 | 0.122 | 1 | 58504 | ARHGAP22 |
| 0.21002679 | 0.002258344 | 0.128 | 1 | 23322 | RPGRIP1L |
| 0.209956818 | 0.002266149 | 0.13 | 1 | 432 | ASGR1 |
| 0.209941269 | 0.002267887 | 0.142 | 1 | 3692 | EIF6 |
| 0.20991924 | 0.002270351 | 0.162 | 1 | 4908 | NTF3 |
| 0.209884254 | 0.002274269 | 0.143 | 1 | 593 | BCKDHA |
| 0.209825944 | 0.002280814 | 0.127 | 1 | 2681 | GGTA1 |
| 0.209812986 | 0.00228227 | 0.139 | 1 | 285590 | SH3PXD2B |
| 0.209789662 | 0.002284894 | 0.136 | 1 | 83879 | CDCA7 |
| 0.209697661 | 0.002295272 | 0.132 | 1 | 11142 | PKIG |
| 0.20968859 | 0.002296297 | 0.128 | 1 | 285193 | DUSP28 |
| 0.209557716 | 0.002311139 | 0.143 | 1 | 8934 | RAB7L1 |
| 0.209548645 | 0.002312171 | 0.143 | 1 | 9263 | STK17A |
| 0.209513659 | 0.002316155 | 0.149 | 1 | 56928 | SPPL2B |
| 0.209337432 | 0.002336318 | 0.127 | 1 | 145173 | B3GALTL |
| 0.209308925 | 0.002339595 | 0.138 | 1 | 29082 | CHMP4A |
| 0.209148248 | 0.002358142 | 0.133 | 1 | 79649 | MAP7D3 |
| 0.209087346 | 0.002365206 | 0.169 | 1 | 54677 | CROT |
| 0.209035514 | 0.002371234 | 0.152 | 1 | 54881 | TEX10 |
| 0.208943513 | 0.002381968 | 0.148 | 1 | 56917 | MEIS3P2 |
| 0.208927964 | 0.002383786 | 0.16 | 1 | 4758 | NEU1 |
| 0.208883907 | 0.002388946 | 0.123 | 1 | 5067 | CNTN3 |
| 0.208856696 | 0.002392137 | 0.151 | 1 | 2771 | GNAI2 |
| 0.208838555 | 0.002394267 | 0.121 | 1 | 9620 | CELSR1 |
| 0.208815231 | 0.002397008 | 0.148 | 1 | 51491 | NOP16 |
| 0.20880616 | 0.002398075 | 0.145 | 1 | 200931 | Osta |
| 0.208703793 | 0.002410144 | 0.156 | 1 | 84879 | MFSD2 |
| 0.208699906 | 0.002410603 | 0.138 | 1 | 2185 | PTK2B |
| 0.208675286 | 0.002413515 | 0.166 | 1 | 129521 | NMS |
| 0.208501651 | 0.002434139 | 0.125 | 1 | 84072 | HORMAD1 |
| 0.208375959 | 0.002449168 | 0.169 | 1 | 2633 | GBP1 |
| 0.208334494 | 0.002454144 | 0.141 | 1 | 388 | RHOB |
| 0.208334494 | 0.002454144 | 0.151 | 1 | 10908 | PNPLA6 |
| 0.208191958 | 0.002471322 | 0.142 | 1 | 80114 | BICC1 |
| 0.208172521 | 0.002473672 | 0.144 | 1 | 6352 | CCL5 |
| 0.208141422 | 0.002477438 | 0.159 | 1 | 800 | CALD1 |
| 0.208029984 | 0.002490974 | 0.142 | 1 | 2983 | GUCY1B3 |
| 0.20798204 | 0.002496818 | 0.112 | 1 | 7011 | TEP1 |
| 0.207861532 | 0.002511563 | 0.159 | 1 | 55850 | USE1 |
| 0.207838208 | 0.002514426 | 0.144 | 1 | 219348 | PLAC9 |
| 0.207799335 | 0.002519204 | 0.138 | 1 | 100170841 | C17orf96 |
| 0.207781194 | 0.002521437 | 0.143 | 1 | 285672 | SREK1IP1 |
| 0.207759165 | 0.00252415 | 0.127 | 1 | 10584 | COLEC10 |
| 0.207752686 | 0.002524949 | 0.115 | 1 | 65124 | ANKRD57 |
| 0.207593305 | 0.002544667 | 0.154 | 1 | 808 | CALM3 |
| 0.207576459 | 0.002546759 | 0.137 | 1 | 64792 | RABL5 |
| 0.207531107 | 0.0025524 | 0.145 | 1 | 55146 | ZDHHC4 |
| 0.207496121 | 0.002556759 | 0.128 | 1 | 10392 | NOD1 |
| 0.207479276 | 0.00255886 | 0.149 | 1 | 125988 | C19orf70 |
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| 0.207422261 | 0.002565983 | 0.134 | 1 | 54492 | NEURL1B |
| 0.207326373 | 0.002578004 | 0.125 | 1 | 343637 | RSPO4 |
| 0.207323781 | 0.00257833 | 0.149 | 1 | 340706 | VWA2 |
| 0.207292682 | 0.00258224 | 0.139 | 1 | 4739 | NEDD9 |
| 0.207078878 | 0.002609269 | 0.147 | 1 | 142 | PARP1 |
| 0.207060737 | 0.002611574 | 0.15 | 1 | 1176 | AP3S1 |
| 0.206980398 | 0.002621804 | 0.156 | 1 | 6275 | S100A4 |
| 0.206976511 | 0.0026223 | 0.146 | 1 | 22822 | PHLDA1 |
| 0.206745861 | 0.00265188 | 0.154 | 1 | 2799 | GNS |
| 0.206739382 | 0.002652716 | 0.142 | 1 | 129293 | AC010087.3 |
| 0.206688846 | 0.002659239 | 0.152 | 1 | 5917 | RARS |
| 0.206674593 | 0.002661081 | 0.146 | 1 | 26509 | MYOF |
| 0.206647381 | 0.002664602 | 0.163 | 1 | 441549 | CDNF |

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| 0.087179754 | 8.1975E-204 | 1519 | CTSO |
| 0.087139155 | 1.2654E-203 | 283229 | EFCAB4A |
| 0.087136263 | 1.0599E-202 | 284129 | SLC26A11 |
| 0.087132922 | 1.3526E-203 | 5409 | PNMT |
| 0.087119361 | 1.5636E-203 | 528 | ATP6V1C1 |
| 0.087083312 | 2.2985E-203 | 2735 | GLI1 |
| 0.08707717 | 2.4544E-203 | 81603 | TRIM8 |
| 0.087074791 | 2.5176E-203 | 138804 | OR13C4 |
| 0.08707055 | 2.6342E-203 | 51225 | ABI3 |
| 0.087042968 | 3.5368E-203 | 23089 | PEG10 |
| 0.086978164 | 7.064E-203 | 100506742 | CASP12 |
| 0.086973716 | 7.4074E-203 | 84172 | POLR1B |
| 0.086966085 | 8.0358E-203 | 152185 | CCDC52 |
| 0.086954775 | 9.0664E-203 | 55122 | AKIRIN2 |
| 0.086951355 | 9.4033E-203 | 4342 | MOS |
| 0.086944741 | 1.0091E-202 | 401067 | IQCF3 |
| 0.086931271 | 1.165E-202 | 8933 | FAM127A |
| 0.086925358 | 1.2408E-202 | 100128288 | AC135178.1 |
| 0.086919888 | 1.3153E-202 | 55811 | ADCY10 |
| 0.086892015 | 1.7706E-202 | 5918 | RARRES1 |
| 0.086887646 | 1.855E-202 | 79158 | GNPTAB |
| 0.08686878 | 2.2681E-202 | 9500 | MAGED1 |
| 0.086855381 | 2.6163E-202 | 55779 | WDR52 |
| 0.086844438 | 2.9399E-202 | 338675 | OR5AP2 |
| 0.086828113 | 3.4983E-202 | 199745 | THAP8 |
| 0.086786535 | 5.4471E-202 | 797 | CALCB |
| 0.08678317 | 5.6458E-202 | 84790 | TUBA1C |
| 0.086771334 | 6.404E-202 | 5580 | PRKCD |
| 0.086744587 | 8.5132E-202 | 200162 | SPAG17 |
| 0.086733384 | 9.5912E-202 | 145226 | RDH12 |
| 0.086731794 | 9.7548E-202 | 55879 | GABRQ |
| 0.086729096 | 1.0039E-201 | 100288346 | AP000880.1 |
| 0.086720396 | 1.1013E-201 | 338557 | GPR120 |
| 0.08670191 | 1.3406E-201 | 196883 | ADCY4 |
| 0.086690661 | 1.511E-201 | 552891 | DNAJC25-GNG10 |
| 0.086667808 | 1.9267E-201 | 3978 | LIG1 |
| 0.086662217 | 2.0446E-201 | 65986 | ZBTB10 |
| 0.086661924 | 2.051E-201 | 116254 | C6orf72 |
| 0.08662704 | 2.9718E-201 | 195827 | AAED1 |
| 0.086620648 | 3.1807E-201 | 113451 | ADC |
| 0.086608464 | 3.6203E-201 | 6328 | SCN3A |
| 0.086598749 | 4.0139E-201 | 6866 | TAC3 |
| 0.086592124 | 4.3066E-201 | 203522 | DDX26B |
| 0.086582064 | 4.7923E-201 | 390205 | AP003108.2 |
| 0.086575822 | 5.1209E-201 | 53407 | STX18 |
| 0.086574364 | 5.2008E-201 | 642658 | SCXB |
| 0.086537235 | 7.7143E-201 | 1263 | PLK3 |
| 0.086531531 | 8.1959E-201 | 222161 | DKFZP586I1420 |
| 0.086508218 | 1.0497E-200 | 27006 | FGF22 |
| 0.08648303 | 1.3713E-200 | 83480 | PUS3 |
| 0.086475218 | 1.4898E-200 | 23594 | ORC6L |
| 0.086439709 | 2.1712E-200 | 25992 | SNED1 |
| 0.086430067 | 2.4049E-200 | 89876 | C3orf15 |
| 0.086422631 | 2.6022E-200 | 84439 | HHIPL1 |
| 0.086420702 | 2.656E-200 | 10135 | PBEF1 |
| 0.086404705 | 3.1469E-200 | 541466 | CT45A1 |
| 0.08640225 | 3.2299E-200 | 55023 | PHIP |
| 0.086352873 | 5.4503E-200 | 401027 | C2orf66 |
| 0.086350042 | 5.6162E-200 | 57190 | SEPN1 |
| 0.086324671 | 7.3476E-200 | 1463 | NCAN |
| 0.086321986 | 7.5596E-200 | 53349 | ZFYVE1 |
| 0.086297403 | 9.8071E-200 | 29940 | DSE |
| 0.086264552 | 1.3885E-199 | 9623 | TCL1B |
| 0.086250103 | 1.6179E-199 | 91893 | FDXACB1 |
| 0.086239465 | 1.8107E-199 | 220972 | MARCHF8 |
| 0.086228415 | 2.0352E-199 | 286207 | C9orf117 |
| 0.086212232 | 2.4151E-199 | 56896 | DPYSL5 |
| 0.086211305 | 2.4389E-199 | 375341 | C3orf62 |
| 0.086208916 | 2.5013E-199 | 199223 | TTC21A |
| 0.086197063 | 2.8354E-199 | 388585 | HES5 |
| 0.086175219 | 3.572E-199 | 26103 | LRIT1 |
| 0.08617471 | 3.5913E-199 | 100507055 | LRCOL1 |
| 0.086170827 | 3.7418E-199 | 115004 | C6orf150 |
| 0.086161562 | 4.1268E-199 | 56884 | FSTL5 |
| 0.086131648 | 5.6611E-199 | 387885 | CCDC42B |
| 0.086113974 | 6.8233E-199 | 135138 | PACRG |
| 0.086084982 | 9.268E-199 | 5365 | PLXNB3 |
| 0.086083489 | 9.5758E-198 | 6547 | SLC8A3 |
| 0.086082608 | 9.5033E-199 | 64582 | GPR135 |
| 0.085936751 | 4.4282E-198 | 10162 | U47924.1 |
| 0.085933607 | 4.5774E-198 | 6786 | STIM1 |
| 0.085897816 | 6.6749E-198 | 196743 | PAOX |

| | | | | | |
|---|---|---|---|---|---|
| 0.206627944 | 0.002667119 | 0.131 | 1 | 9200 | PTPLA |
| 0.20660462 | 0.002670143 | 0.125 | 1 | 7852 | CXCR4 |
| 0.206515211 | 0.002681763 | 0.151 | 1 | 57463 | AMIGO1 |
| 0.206494478 | 0.002684464 | 0.162 | 1 | 129049 | SGSM1 |
| 0.206468563 | 0.002687844 | 0.125 | 1 | 147906 | DACT3 |
| 0.206342871 | 0.002704291 | 0.148 | 1 | 3265 | HRAS |
| 0.206310477 | 0.002708544 | 0.14 | 1 | 79065 | ATG9A |
| 0.206283265 | 0.002712122 | 0.146 | 1 | 100132831 | LOC100132831 |
| 0.206196448 | 0.002723565 | 0.134 | 1 | 3590 | IL11RA |
| 0.206154982 | 0.002729046 | 0.175 | 1 | 1284 | COL4A2 |
| 0.205956727 | 0.002755391 | 0.12 | 1 | 139221 | MUM1L1 |
| 0.20593729 | 0.002757986 | 0.176 | 1 | 23623 | RUSC1 |
| 0.205932107 | 0.002758679 | 0.143 | 1 | 90957 | DHX57 |
| 0.205895825 | 0.00276353 | 0.17 | 1 | 680 | BRS3 |
| 0.205868614 | 0.002767174 | 0.149 | 1 | 10955 | SERINC3 |
| 0.20584529 | 0.002770301 | 0.153 | 1 | 128272 | ARHGEF19 |
| 0.20575588 | 0.002782316 | 0.17 | 1 | 682 | BSG |
| 0.205723486 | 0.002786681 | 0.136 | 1 | 5738 | PTGFRN |
| 0.20572219 | 0.002786855 | 0.144 | 1 | 8609 | KLF7 |
| 0.205711824 | 0.002788254 | 0.115 | 1 | 8302 | KLRC4 |
| 0.205535597 | 0.00281212 | 0.163 | 1 | 5321 | PLA2G4A |
| 0.20549154 | 0.002818116 | 0.138 | 1 | 3957 | LGALS2 |
| 0.205443596 | 0.002824654 | 0.167 | 1 | 79090 | TRAPPC6A |
| 0.20543323 | 0.002826069 | 0.18 | 1 | 154043 | CNKSR3 |
| 0.205382694 | 0.002832979 | 0.163 | 1 | 55129 | ANO10 |
| 0.205326975 | 0.002840614 | 0.149 | 1 | 27145 | FILIP1 |
| 0.205185735 | 0.002860054 | 0.147 | 1 | 11047 | ADRM1 |
| 0.205078184 | 0.002874937 | 0.145 | 1 | 140564 | APOBEC3D |
| 0.205004325 | 0.002885199 | 0.156 | 1 | 8724 | SNX3 |
| 0.204958972 | 0.002891516 | 0.138 | 1 | 138649 | ANKRD19P |
| 0.204951197 | 0.002892601 | 0.175 | 1 | 138311 | FAM69B |
| 0.204904549 | 0.002899114 | 0.166 | 1 | 9973 | CCS |
| 0.204878633 | 0.002902738 | 0.145 | 1 | 8663 | EIF3S8 |
| 0.204834577 | 0.002908909 | 0.152 | 1 | 56134 | PCDHAC2 |
| 0.204794407 | 0.002914546 | 0.157 | 1 | 154790 | CLEC2L |
| 0.204774971 | 0.002917277 | 0.157 | 1 | 4714 | NDUFB8 |
| 0.204714069 | 0.002925849 | 0.161 | 1 | 80198 | MUS81 |
| 0.204651871 | 0.002934627 | 0.13 | 1 | 132671 | SPATA18 |
| 0.204585786 | 0.00294398 | 0.141 | 1 | 8907 | AP1M1 |
| 0.204528771 | 0.00295207 | 0.173 | 1 | 2591 | GALNT3 |
| 0.204527476 | 0.002952254 | 0.153 | 1 | 84058 | WDR54 |
| 0.204518405 | 0.002953544 | 0.149 | 1 | 8935 | SKAP2 |
| 0.204421221 | 0.002967388 | 0.146 | 1 | 28965 | SLC27A6 |
| 0.204397897 | 0.002970719 | 0.15 | 1 | 169792 | GLIS3 |
| 0.204365502 | 0.002975351 | 0.178 | 1 | 58531 | PRM3 |
| 0.204359023 | 0.002976279 | 0.151 | 1 | 5859 | QARS |
| 0.204351249 | 0.002977392 | 0.149 | 1 | 84674 | CARD6 |
| 0.2043046 | 0.002984078 | 0.155 | 1 | 90441 | ZNF622 |
| 0.204268318 | 0.002989288 | 0.164 | 1 | 2119 | ETV5 |
| 0.204244994 | 0.002992642 | 0.147 | 1 | 9784 | SNX17 |
| 0.20418798 | 0.003000854 | 0.15 | 1 | 5300 | PIN1 |
| 0.204182797 | 0.003001601 | 0.132 | 1 | 6678 | SPARC |
| 0.204002682 | 0.003027684 | 0.16 | 1 | 56970 | ATXN7L3 |
| 0.203976767 | 0.003031454 | 0.15 | 1 | 55752 | SEPTIN11 |
| 0.203961217 | 0.003033718 | 0.124 | 1 | 389941 | C1QL1 |
| 0.203950851 | 0.003035228 | 0.188 | 1 | 57134 | MAN1C1 |
| 0.203930118 | 0.003038251 | 0.131 | 1 | 6617 | SNAPC1 |
| 0.203906794 | 0.003041654 | 0.155 | 1 | 9146 | HGS |
| 0.203893836 | 0.003043546 | 0.18 | 1 | 257364 | SNX33 |
| 0.203876991 | 0.003046008 | 0.164 | 1 | 121665 | AC069234.1 |
| 0.203867921 | 0.003047334 | 0.138 | 1 | 9535 | GMFG |
| 0.203808314 | 0.003056062 | 0.149 | 1 | 79744 | ZNF419 |
| 0.203795357 | 0.003057962 | 0.181 | 1 | 23526 | HMHA1 |
| 0.203786286 | 0.003059293 | 0.152 | 1 | 148304 | C1orf74 |
| 0.203744821 | 0.003065384 | 0.141 | 1 | 23075 | SWAP70 |
| 0.203721497 | 0.003068815 | 0.134 | 1 | 8534 | CHST1 |
| 0.203600989 | 0.003086597 | 0.129 | 1 | 9320 | TRIP12 |
| 0.203573777 | 0.003090625 | 0.132 | 1 | 164127 | C1orf65 |
| 0.203556932 | 0.003093121 | 0.154 | 1 | 55553 | SOX6 |
| 0.203541383 | 0.003095427 | 0.148 | 1 | 143384 | C10orf46 |
| 0.203531016 | 0.003096965 | 0.163 | 1 | 84270 | C9orf89 |
| 0.20352065 | 0.003098504 | 0.156 | 1 | 5434 | POLR2E |
| 0.203510284 | 0.003100043 | 0.133 | 1 | 2892 | GRIA3 |
| 0.203485664 | 0.003103702 | 0.139 | 1 | 57628 | DPP10 |
| 0.203485664 | 0.003103702 | 0.155 | 1 | 64137 | ABCG4 |
| 0.203475297 | 0.003105243 | 0.15 | 1 | 10140 | TOB1 |
| 0.203379409 | 0.003119537 | 0.146 | 1 | 11116 | FGFR1OP |
| 0.203354789 | 0.003123217 | 0.167 | 1 | 5437 | POLR2H |
| 0.203257605 | 0.00313778 | 0.14 | 1 | 3303 | HSPA1A |
| 0.203239464 | 0.003140505 | 0.136 | 1 | 399726 | C10orf114 |
| 0.203234281 | 0.003141284 | 0.149 | 1 | 4809 | NHP2L1 |
| 0.203229098 | 0.003142064 | 0.162 | 1 | 78989 | COLEC11 |

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| 0.085876213 | 8.3809E-198 | 11021 | RAB35 |
| 0.085864871 | 9.4445E-198 | 3642 | INSM1 |
| 0.085831055 | 1.3484E-197 | 84164 | ASCC2 |
| 0.08582231 | 1.4785E-197 | 1756 | DMD |
| 0.08582208 | 1.4821E-197 | 55568 | GALNT10 |
| 0.085814441 | 1.6062E-197 | 441168 | FAM26F |
| 0.085798633 | 1.897E-197 | 222068 | TMED4 |
| 0.08577776 | 2.363E-197 | 6234 | RPS28 |
| 0.085767153 | 2.6419E-197 | 256302 | C17orf103 |
| 0.085744182 | 3.3641E-197 | 26147 | PHF19 |
| 0.085720763 | 4.3036E-197 | 71 | ACTG1 |
| 0.085685237 | 6.2522E-197 | 2940 | GSTA3 |
| 0.085681883 | 6.4765E-197 | 55174 | INTS10 |
| 0.085666977 | 7.5748E-197 | 6441 | SFTPD |
| 0.08563195 | 1.0944E-196 | 283297 | OR10A4 |
| 0.085539886 | 2.8771E-196 | 115992 | RNF166 |
| 0.085510554 | 3.9137E-196 | 161 | AP2A2 |
| 0.085497414 | 4.492E-196 | 283596 | SNHG10 |
| 0.085492564 | 4.7264E-196 | 9873 | FCHSD2 |
| 0.085488399 | 4.9374E-196 | 201243 | C17orf74 |
| 0.085470138 | 5.9793E-196 | 79644 | SRD5A3 |
| 0.085452726 | 7.1767E-196 | 84078 | KBTBD7 |
| 0.085432583 | 8.8635E-196 | 399821 | RP11-383C5.4 |
| 0.085424311 | 9.6661E-196 | 285590 | SH3PXD2B |
| 0.085377038 | 1.5861E-195 | 121643 | FOXN4 |
| 0.085368784 | 1.7292E-195 | 57556 | SEMA6A |
| 0.085358881 | 1.9182E-195 | 63947 | DMRTC1B |
| 0.085353396 | 2.0316E-195 | 56102 | PCDHGB3 |
| 0.085350545 | 2.0931E-195 | 93556 | EGFEM1P |
| 0.085348109 | 2.1472E-195 | 8190 | MIA |
| 0.085346059 | 2.1937E-195 | 401127 | AC021148.2 |
| 0.085344286 | 2.2349E-195 | 7529 | YWHAB |
| 0.085306946 | 3.3035E-195 | 23504 | RIMBP2 |
| 0.085280129 | 4.3734E-195 | 149603 | RNF187 |
| 0.085266003 | 5.0697E-195 | 51118 | UTP11L |
| 0.085234064 | 7.0799E-195 | 3995 | FADS3 |
| 0.085233321 | 7.1351E-195 | 8192 | CLPP |
| 0.085227134 | 7.6119E-195 | 389033 | AC079776.2 |
| 0.085200776 | 1.0026E-194 | 7108 | TM7SF2 |
| 0.085173662 | 1.4172E-193 | 23362 | PSD3 |
| 0.085147687 | 1.7459E-194 | 9467 | SH3BP5 |
| 0.085129531 | 2.1104E-194 | 30815 | ST6GALNAC6 |
| 0.085110764 | 2.5671E-194 | 55771 | PRR11 |
| 0.085101633 | 2.8239E-194 | 54619 | CCNJ |
| 0.085074003 | 3.7677E-194 | 282974 | STK32C |
| 0.085053518 | 4.6655E-194 | 340371 | NRBP2 |
| 0.085038193 | 5.4743E-194 | 23030 | KDM4B |
| 0.085024197 | 6.3346E-194 | 64344 | HIF3A |
| 0.085022433 | 6.4523E-194 | 2625 | GATA3 |
| 0.085010828 | 2.5576E-193 | 55530 | SVOP |
| 0.08500644 | 7.6232E-194 | 4852 | NPY |
| 0.085001726 | 8.0072E-194 | 146223 | CMTM4 |
| 0.084962474 | 1.2055E-193 | 54960 | GEMIN8 |
| 0.084958995 | 1.25E-193 | 221833 | SP8 |
| 0.084951566 | 1.3506E-193 | 271 | AMPD2 |
| 0.084941069 | 1.5067E-193 | 8756 | ADAM7 |
| 0.084916197 | 1.9523E-193 | 5569 | PKIA |
| 0.084875695 | 2.9765E-193 | 1234 | CCR5 |
| 0.084854811 | 3.6992E-193 | 148109 | FAM187B |
| 0.084850833 | 3.8556E-193 | 79774 | GRTP1 |
| 0.08484372 | 4.1518E-193 | 57085 | AGTRAP |
| 0.084840858 | 4.2774E-193 | 11151 | CORO1A |
| 0.084828729 | 4.8527E-193 | 25934 | NIPSNAP3A |
| 0.084810394 | 5.8725E-193 | 29942 | PURG |
| 0.084807385 | 6.0592E-193 | 154007 | SNRNP48 |
| 0.084798582 | 6.6402E-193 | 5428 | POLG |
| 0.084786345 | 7.5414E-193 | 341152 | OR2AT4 |
| 0.084770241 | 8.9161E-193 | 9068 | ANGPTL1 |
| 0.084738863 | 1.2355E-192 | 4109 | MAGEA10 |
| 0.084728695 | 1.3732E-192 | 343035 | RD3 |
| 0.084692104 | 2.0083E-192 | 7166 | TPH1 |
| 0.084664677 | 2.6701E-192 | 11201 | POLI |
| 0.084647735 | 3.1837E-192 | 4093 | SMAD9 |
| 0.084640131 | 3.4452E-192 | 136319 | MTPN |
| 0.084635962 | 3.5976E-192 | 51450 | PRRX2 |
| 0.084631165 | 3.7812E-192 | 3725 | JUN |
| 0.084621268 | 4.1903E-192 | 55352 | C17orf79 |
| 0.084565193 | 7.4974E-192 | 9061 | PAPSS1 |
| 0.084555858 | 8.2596E-192 | 283638 | KIAA0284 |
| 0.084546066 | 9.1424E-192 | 170679 | PSORS1C1 |
| 0.084523677 | 1.1531E-191 | 2556 | GABRA3 |
| 0.084521704 | 1.1769E-191 | 160428 | ALDH1L2 |

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| 0.203169492 | 0.003151037 | 0.152 | 1 | 221302 | ZUFSP |
| 0.203159126 | 0.0031526 | 0.166 | 1 | 6347 | CCL2 |
| 0.203095632 | 0.003162189 | 0.135 | 1 | 2734 | GLG1 |
| 0.203086562 | 0.003163561 | 0.182 | 1 | 92714 | ARRDC1 |
| 0.202954392 | 0.003183614 | 0.149 | 1 | 64860 | ARMCX5 |
| 0.202931067 | 0.003187164 | 0.155 | 1 | 389740 | GPR116P1 |
| 0.202925884 | 0.003187954 | 0.151 | 1 | 7779 | SLC30A1 |
| 0.202884419 | 0.003194277 | 0.162 | 1 | 363 | AQP6 |
| 0.202867574 | 0.003196848 | 0.171 | 1 | 199746 | U2AF1L4 |
| 0.202827405 | 0.003202989 | 0.182 | 1 | 56979 | PRDM9 |
| 0.202717263 | 0.00321988 | 0.119 | 1 | 4836 | NMT1 |
| 0.20266284 | 0.003228256 | 0.147 | 1 | 55324 | ABCF3 |
| 0.202651178 | 0.003230053 | 0.156 | 1 | 56604 | TUBB7P |
| 0.202599346 | 0.003238053 | 0.16 | 1 | 400566 | C17orf97 |
| 0.202582501 | 0.003240657 | 0.15 | 1 | 486 | FXYD2 |
| 0.202572135 | 0.00324226 | 0.162 | 1 | 83443 | SF3B5 |
| 0.202535853 | 0.003247877 | 0.158 | 1 | 9061 | PAPSS1 |
| 0.202482726 | 0.003256118 | 0.17 | 1 | 4723 | NDUFV1 |
| 0.202455514 | 0.003260346 | 0.166 | 1 | 5700 | PSMC1 |
| 0.202429598 | 0.003264377 | 0.168 | 1 | 187 | APLNR |
| 0.202403683 | 0.003268413 | 0.139 | 1 | 3275 | PRMT2 |
| 0.202369992 | 0.003273667 | 0.187 | 1 | 4515 | MTCP1 |
| 0.202347964 | 0.003277106 | 0.166 | 1 | 114971 | PTPMT1 |
| 0.202342781 | 0.003277916 | 0.137 | 1 | 25870 | SUMF2 |
| 0.202341485 | 0.003278118 | 0.166 | 1 | 4923 | NTSR1 |
| 0.202336302 | 0.003278928 | 0.17 | 1 | 169693 | C9orf71 |
| 0.202320752 | 0.003281359 | 0.151 | 1 | 284207 | METRNL |
| 0.202303907 | 0.003283994 | 0.182 | 1 | 51634 | RBMX2 |
| 0.20225985 | 0.003290896 | 0.15 | 1 | 6305 | SBF1 |
| 0.202254667 | 0.003291708 | 0.154 | 1 | 142940 | TRUB1 |
| 0.202244301 | 0.003293334 | 0.148 | 1 | 79895 | ATP8B4 |
| 0.202205427 | 0.003299439 | 0.13 | 1 | 170685 | NUDT10 |
| 0.202196357 | 0.003300865 | 0.166 | 1 | 5797 | PTPRM |
| 0.202180807 | 0.00330331 | 0.147 | 1 | 9076 | CLDN1 |
| 0.202162666 | 0.003306165 | 0.156 | 1 | 7932 | OR2H2 |
| 0.202125089 | 0.003312087 | 0.147 | 1 | 4915 | NTRK2 |
| 0.202059004 | 0.003322524 | 0.144 | 1 | 677 | ZFP36L1 |
| 0.201915171 | 0.003345343 | 0.152 | 1 | 56655 | POLE4 |
| 0.201906101 | 0.003346786 | 0.149 | 1 | 10436 | EMG1 |
| 0.201801142 | 0.003363534 | 0.16 | 1 | 29911 | HOOK2 |
| 0.201793368 | 0.003364778 | 0.136 | 1 | 6442 | SGCA |
| 0.201738945 | 0.003373494 | 0.16 | 1 | 259173 | ALS2CL |
| 0.201718212 | 0.00337682 | 0.173 | 1 | 9094 | UNC119 |
| 0.201671564 | 0.003384315 | 0.182 | 1 | 11152 | WDR45 |
| 0.201615845 | 0.003393286 | 0.158 | 1 | 57106 | NAT14 |
| 0.201513478 | 0.003409825 | 0.152 | 1 | 9943 | OXSR1 |
| 0.201488858 | 0.003413813 | 0.176 | 1 | 4087 | SMAD2 |
| 0.201483675 | 0.003414653 | 0.167 | 1 | 223075 | CCDC129 |
| 0.201460351 | 0.003418437 | 0.163 | 1 | 283093 | OR4C12 |
| 0.201369646 | 0.003433185 | 0.183 | 1 | 8636 | SSNA1 |
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| 0.200594766 | 0.00356155 | 0.17 | 1 | 9472 | AKAP6 |
| 0.200590878 | 0.003562205 | 0.141 | 1 | 374618 | TEX9 |
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| 0.200542934 | 0.00357029 | 0.181 | 1 | 54784 | ALKBH4 |
| 0.20053516 | 0.003571602 | 0.167 | 1 | 57758 | SCUBE2 |
| 0.200345975 | 0.003603676 | 0.16 | 1 | 79696 | FAM164C |
| 0.200108846 | 0.003644246 | 0.156 | 1 | 85409 | NKD2 |
| 0.200067381 | 0.003651382 | 0.164 | 1 | 2879 | GPX4 |
| 0.200044057 | 0.003655402 | 0.155 | 1 | 147372 | CCBE1 |
| 0.200005183 | 0.003662111 | 0.155 | 1 | 283576 | ZDHHC22 |
| 0.199994817 | 0.003663902 | 0.153 | 1 | 51052 | PRLH |
| 0.199910591 | 0.003678482 | 0.163 | 1 | 10612 | TRIM3 |
| 0.199810815 | 0.003695821 | 0.132 | 1 | 55603 | FAM46A |
| 0.199773237 | 0.003702371 | 0.167 | 1 | 220107 | DLEU7 |
| 0.19963718 | 0.003726172 | 0.16 | 1 | 440799 | P2RX6P |
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| 0.084074423 | 1.1995E-189 | 1844 | DUSP2 |
| 0.084071964 | 1.2304E-189 | 84324 | SARNP |
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| 0.083946253 | 4.4927E-189 | 2103 | ESRRB |
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| 0.083773665 | 2.6506E-188 | 127262 | TPRG1L |
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| 0.08363709 | 1.077E-187 | 4825 | NKX6-1 |
| 0.083626088 | 1.2056E-187 | 387496 | RASL11A |
| 0.083623986 | 1.2319E-187 | 1445 | CSK |
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| 0.08351171 | 3.8927E-187 | 503542 | SPRN |
| 0.083507482 | 4.0649E-187 | 8525 | DGKZ |
| 0.083494476 | 4.644E-187 | 246778 | IL27 |
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| 0.083420488 | 9.9025E-187 | 51673 | TPPP3 |
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| 0.083343937 | 2.1661E-186 | 148808 | MFSD4 |
| 0.083326272 | 2.5946E-186 | 3600 | IL15 |
| 0.083323786 | 2.9652E-186 | 116159 | CYYR1 |
| 0.083300573 | 3.3736E-186 | 120787 | OR52W1 |
| 0.083296787 | 3.5066E-186 | 4669 | NAGLU |
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| 0.083186832 | 1.0773E-185 | 11117 | EMILIN1 |
| 0.083182662 | 1.1241E-185 | 56666 | PANX2 |
| 0.083128277 | 1.9572E-185 | 6102 | RP2 |
| 0.083110734 | 2.3404E-185 | 6660 | SOX5 |
| 0.08310986 | 2.3613E-185 | 8826 | IQGAP1 |
| 0.083109195 | 2.3774E-185 | 8484 | GALR3 |
| 0.083102149 | 2.5544E-185 | 115426 | UHRF2 |
| 0.08310104 | 5.619E-185 | 8531 | CSDAP1 |
| 0.083067497 | 3.6358E-185 | 2550 | GABBR1 |
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| 0.199410417 | 0.00376615 | 0.136 | 1 | 91461 | SGK493 |
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| 0.199164218 | 0.003809992 | 0.158 | 1 | 79902 | NUP85 |
| 0.199146077 | 0.003813241 | 0.186 | 1 | 5676 | PSG7 |
| 0.199015203 | 0.003836752 | 0.149 | 1 | 100134229 | LOC100134229 |
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| 0.198822131 | 0.003871676 | 0.131 | 1 | 153571 | C5orf38 |
| 0.198820835 | 0.003871911 | 0.171 | 1 | 10025 | MED16 |
| 0.198735313 | 0.003887473 | 0.158 | 1 | 387071 | FAM136BP |
| 0.198683482 | 0.003896932 | 0.141 | 1 | 10381 | RP11-566K11.2 |
| 0.19867182 | 0.003899063 | 0.182 | 1 | 53 | ACP2 |
| 0.198649791 | 0.003903092 | 0.187 | 1 | 26001 | RNF167 |
| 0.198644608 | 0.00390404 | 0.151 | 1 | 6509 | SLC1A4 |
| 0.198627763 | 0.003907124 | 0.169 | 1 | 84223 | IQCG |
| 0.198610918 | 0.00391021 | 0.186 | 1 | 56912 | C11orf60 |
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| 0.198489114 | 0.003932589 | 0.168 | 1 | 55168 | MRPS18A |
| 0.198480043 | 0.00393426 | 0.145 | 1 | 53981 | CPSF2 |
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| 0.198236436 | 0.003979383 | 0.148 | 1 | 55589 | BMP2K |
| 0.198209224 | 0.003984452 | 0.145 | 1 | 54361 | WNT4 |
| 0.198154801 | 0.003994608 | 0.164 | 1 | 83661 | MS4A8B |
| 0.198137956 | 0.003997756 | 0.151 | 1 | 56981 | PRDM11 |
| 0.198008377 | 0.004022049 | 0.165 | 1 | 91283 | MSANTD3 |
| 0.197981166 | 0.004027167 | 0.167 | 1 | 60490 | PPCDC |
| 0.197942292 | 0.004034489 | 0.179 | 1 | 115207 | KCTD12 |
| 0.19792156 | 0.004038399 | 0.17 | 1 | 9091 | PIGQ |
| 0.197801052 | 0.004061193 | 0.138 | 1 | 5577 | PRKAR2B |
| 0.197799756 | 0.004061439 | 0.162 | 1 | 728689 | EIF3CL |
| 0.197698684 | 0.004080648 | 0.17 | 1 | 11161 | C14orf1 |
| 0.197693501 | 0.004081635 | 0.176 | 1 | 9726 | ZNF646 |
| 0.197642966 | 0.004091272 | 0.16 | 1 | 51466 | EVL |
| 0.197526345 | 0.00411359 | 0.167 | 1 | 22836 | RHOBTB3 |
| 0.197515979 | 0.004115579 | 0.159 | 1 | 7424 | VEGFC |
| 0.197499133 | 0.004118813 | 0.186 | 1 | 96764 | TGS1 |
| 0.197475809 | 0.004123295 | 0.184 | 1 | 401428 | OR2A20P |
| 0.197461556 | 0.004126036 | 0.199 | 1 | 79571 | GCC1 |
| 0.197364372 | 0.004144769 | 0.192 | 1 | 6926 | TBX3 |
| 0.197236089 | 0.004169615 | 0.142 | 1 | 27341 | RRP7A |
| 0.197228314 | 0.004171125 | 0.164 | 1 | 25837 | RAB26 |
| 0.197216652 | 0.004173391 | 0.189 | 1 | 85378 | TUBGCP6 |
| 0.197129834 | 0.004190295 | 0.161 | 1 | 127602 | DNAH14 |
| 0.197116877 | 0.004192823 | 0.181 | 1 | 8412 | BCAR3 |
| 0.197085778 | 0.004198897 | 0.184 | 1 | 6768 | ST14 |
| 0.197063749 | 0.004203204 | 0.169 | 1 | 84259 | DCUN1D5 |
| 0.197062454 | 0.004203457 | 0.164 | 1 | 23220 | DTX4 |
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| 0.196862903 | 0.004242657 | 0.162 | 1 | 10588 | MTHFS |
| 0.196830508 | 0.004249052 | 0.167 | 1 | 4621 | MYH3 |
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| 0.196664647 | 0.004281929 | 0.186 | 1 | 6567 | SLC16A2 |
| 0.19662707 | 0.004289409 | 0.16 | 1 | 577 | BAI3 |
| 0.196601154 | 0.004294575 | 0.192 | 1 | 10742 | RAI2 |
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| 0.196549322 | 0.004304924 | 0.179 | 1 | 11022 | TDRKH |
| 0.196546731 | 0.004305442 | 0.15 | 1 | 137392 | FAM92A1 |
| 0.196443068 | 0.004326208 | 0.191 | 1 | 6419 | SETMAR |
| 0.196423631 | 0.004330112 | 0.182 | 1 | 59351 | PBOV1 |
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| 0.196181319 | 0.004379046 | 0.18 | 1 | 163782 | KANK4 |
| 0.196117826 | 0.004391951 | 0.176 | 1 | 338328 | GPIHBP1 |
| 0.195977881 | 0.004420515 | 0.186 | 1 | 115677 | NOSTRIN |
| 0.195964923 | 0.004423168 | 0.163 | 1 | 2896 | GRN |
| 0.195896246 | 0.004437254 | 0.19 | 1 | 23434 | C3orf27 |
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| 0.082677322 | 1.9164E-183 | 90809 | TMEM55B |
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| 0.082243634 | 1.5374E-181 | 353140 | LCE2C |
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| 0.081783585 | 1.5695E-179 | 23476 | BRD4 |
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| 0.081691256 | 3.9591E-179 | 1815 | DRD4 |

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| 0.195571004 | 0.004504514 | 0.155 | 1 | 4900 | NRGN |
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| 0.195494553 | 0.004520457 | 0.153 | 1 | 57611 | ISLR2 |
| 0.195451792 | 0.004529397 | 0.159 | 1 | 345222 | MSANTD1 |
| 0.195412918 | 0.004537537 | 0.168 | 1 | 8310 | ACOX3 |
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| 0.195359791 | 0.004548684 | 0.152 | 1 | 59274 | MESDC1 |
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| 0.19529241 | 0.004562857 | 0.203 | 1 | 9533 | POLR1C |
| 0.195228917 | 0.004576248 | 0.148 | 1 | 10512 | SEMA3C |
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| 0.195145986 | 0.004593793 | 0.172 | 1 | 29933 | GPR132 |
| 0.195140803 | 0.004594891 | 0.182 | 1 | 152579 | SCFD2 |
| 0.195133029 | 0.004596539 | 0.163 | 1 | 81615 | TMEM163 |
| 0.195105817 | 0.004602312 | 0.151 | 1 | 120376 | AP002448.1 |
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| 0.081284084 | 2.3128E-177 | 92235 | DUSP27 |
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| 0.081036568 | 2.7142E-176 | 9252 | RPS6KA5 |
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| 0.191905226 | 0.005328652 | 0.177 | 1 | 135152 | B3GAT2 |
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| 0.190894513 | 0.00557853 | 0.199 | 1 | 91442 | C19orf40 |
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| 0.18961039 | 0.005911144 | 0.211 | 1 | 643988 | RP11-345P4.1 |
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| 0.079317115 | 5.9202E-169 | 27151 | CPAMD8 |
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| 0.07925334 | 8.7965E-168 | 219931 | TPCN2 |
| 0.079218751 | 1.5394E-168 | 58189 | WFDC1 |
| 0.0792059 | 1.7439E-168 | 2906 | GRIN2D |
| 0.079162213 | 2.6648E-168 | 80258 | EFHC2 |
| 0.07914524 | 3.1417E-168 | 54507 | ADAMTSL4 |
| 0.079114913 | 4.2159E-168 | 5582 | PRKCG |
| 0.079078584 | 5.9957E-168 | 55258 | THNSL2 |
| 0.079073287 | 6.3115E-168 | 170572 | HTR3C |
| 0.079054822 | 7.5481E-168 | 128344 | C1orf88 |
| 0.079034218 | 9.2156E-168 | 152189 | CMTM8 |
| 0.079033109 | 9.3151E-168 | 7316 | UBC |
| 0.079019051 | 1.0674E-167 | 7220 | TRPC1 |
| 0.079006641 | 1.2037E-167 | 8809 | IL18R1 |
| 0.078998562 | 1.3016E-167 | 8111 | GPR68 |
| 0.078987682 | 1.4462E-167 | 862 | RUNX1T1 |
| 0.078961455 | 1.8641E-167 | 5441 | POLR2L |
| 0.078924637 | 2.6617E-167 | 56005 | C19orf10 |
| 0.078922753 | 2.7107E-167 | 85290 | KRTAP4-3 |
| 0.078917935 | 2.84E-167 | 7802 | DNALI1 |

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| 0.188634663 | 0.006175646 | 0.19 | 1 | 10494 | STK25 |
| 0.188352182 | 0.006254174 | 0.188 | 1 | 284018 | C17orf58 |
| 0.188319787 | 0.006263237 | 0.192 | 1 | 81931 | ZNF93 |
| 0.18824204 | 0.006285035 | 0.194 | 1 | 440184 | LINC00238 |
| 0.188210941 | 0.006293773 | 0.203 | 1 | 57194 | ATP10A |
| 0.188148743 | 0.006311282 | 0.2 | 1 | 149473 | CCDC24 |
| 0.188107278 | 0.006322979 | 0.176 | 1 | 126567 | FAM148C |
| 0.188052855 | 0.006338361 | 0.198 | 1 | 5087 | PBX1 |
| 0.188041193 | 0.006341661 | 0.203 | 1 | 2353 | FOS |
| 0.187990657 | 0.00635598 | 0.18 | 1 | 4580 | MTX1 |
| 0.187906431 | 0.006379911 | 0.173 | 1 | 84439 | HHIPL1 |
| 0.187841642 | 0.006398373 | 0.184 | 1 | 51118 | UTP11L |
| 0.187815726 | 0.006405772 | 0.195 | 1 | 440356 | AC120114.2 |
| 0.187810543 | 0.006407252 | 0.17 | 1 | 3889 | KRT83 |
| 0.187753529 | 0.006423559 | 0.202 | 1 | 167681 | PRSS23 |
| 0.187750937 | 0.006424301 | 0.198 | 1 | 947 | CD34 |
| 0.1877315 | 0.00642987 | 0.196 | 1 | 254887 | ZDHHC23 |
| 0.187705585 | 0.006437301 | 0.168 | 1 | 152816 | C4orf26 |
| 0.187691331 | 0.006441391 | 0.186 | 1 | 9356 | SLC22A6 |
| 0.187670598 | 0.006447345 | 0.19 | 1 | 4636 | MYL5 |
| 0.187638204 | 0.006456657 | 0.181 | 1 | 1632 | DCI |
| 0.187635612 | 0.006457403 | 0.196 | 1 | 65117 | RSRC2 |
| 0.187616175 | 0.006462997 | 0.158 | 1 | 79191 | IRX3 |
| 0.187556569 | 0.006480178 | 0.179 | 1 | 55118 | CRTAC1 |
| 0.187397187 | 0.006526321 | 0.191 | 1 | 255488 | RNF144B |
| 0.18733499 | 0.006544408 | 0.221 | 1 | 9150 | CTDP1 |
| 0.187331102 | 0.00654554 | 0.159 | 1 | 23314 | SATB2 |
| 0.187279271 | 0.006560649 | 0.183 | 1 | 2556 | GABRA3 |
| 0.187140622 | 0.006601218 | 0.191 | 1 | 79623 | GALNT14 |
| 0.187121185 | 0.006606923 | 0.173 | 1 | 542767 | C1QTNF9B-AS1 |
| 0.187031776 | 0.006633224 | 0.217 | 1 | 140707 | BRI3BP |
| 0.186983832 | 0.006647366 | 0.176 | 1 | 1490 | CTGF |
| 0.186915155 | 0.00666767 | 0.199 | 1 | 65094 | JMJD4 |
| 0.18682445 | 0.006694571 | 0.194 | 1 | 9704 | DHX34 |
| 0.186812788 | 0.006698037 | 0.216 | 1 | 246269 | LACE1 |
| 0.186798534 | 0.006702275 | 0.221 | 1 | 550 | AUP1 |
| 0.186751886 | 0.006716162 | 0.195 | 1 | 9597 | SMAD5OS |
| 0.186732449 | 0.006721956 | 0.189 | 1 | 257177 | C1orf192 |
| 0.186711717 | 0.006728141 | 0.208 | 1 | 5888 | RAD51 |
| 0.186680618 | 0.006737429 | 0.184 | 1 | 8842 | PROM1 |
| 0.186595096 | 0.006763027 | 0.179 | 1 | 11335 | CBX3 |
| 0.186541969 | 0.006778973 | 0.189 | 1 | 56651 | LINC00470 |
| 0.186492729 | 0.006793783 | 0.199 | 1 | 284415 | VSTM1 |
| 0.186392954 | 0.00682388 | 0.197 | 1 | 127845 | GOLT1A |
| 0.186357967 | 0.006834461 | 0.183 | 1 | 3709 | ITPR2 |
| 0.186352784 | 0.00683603 | 0.222 | 1 | 53407 | STX18 |
| 0.186352784 | 0.00683603 | 0.195 | 1 | 54627 | KIAA1383 |
| 0.186269854 | 0.006861176 | 0.196 | 1 | 56944 | OLFML3 |
| 0.186198586 | 0.006882852 | 0.177 | 1 | 27199 | OXGR1 |
| 0.186087148 | 0.006916868 | 0.188 | 1 | 7142 | TNP2 |
| 0.186017176 | 0.006938304 | 0.171 | 1 | 392 | ARHGAP1 |
| 0.185929062 | 0.006965381 | 0.188 | 1 | 345757 | FAM174A |
| 0.185921287 | 0.006967775 | 0.216 | 1 | 7064 | THOP1 |
| 0.185918696 | 0.006968573 | 0.193 | 1 | 64423 | INF2 |
| 0.185865569 | 0.006984951 | 0.193 | 1 | 55601 | AC068989.2 |
| 0.185856498 | 0.006987751 | 0.204 | 1 | 1993 | ELAVL2 |
| 0.185838357 | 0.006993353 | 0.166 | 1 | 166336 | PRICKLE2 |
| 0.185815033 | 0.007000562 | 0.184 | 1 | 528 | ATP6V1C1 |
| 0.185805963 | 0.007003368 | 0.184 | 1 | 126014 | OSCAR |
| 0.185790413 | 0.007008179 | 0.182 | 1 | 2588 | GALNS |
| 0.185770976 | 0.007014198 | 0.175 | 1 | 26261 | FBXO24 |
| 0.185767089 | 0.007015402 | 0.207 | 1 | 9878 | TOX4 |
| 0.185746356 | 0.007021828 | 0.189 | 1 | 388955 | LOC388955 |
| 0.185671201 | 0.007045165 | 0.219 | 1 | 10666 | CD226 |
| 0.185572721 | 0.00707585 | 0.183 | 1 | 79850 | FAM57A |
| 0.185526073 | 0.007090427 | 0.189 | 1 | 10518 | CIB2 |
| 0.185467762 | 0.007108685 | 0.193 | 1 | 7014 | TERF2 |
| 0.185366691 | 0.007140432 | 0.193 | 1 | 57700 | FAM160B1 |
| 0.185129562 | 0.007215414 | 0.193 | 1 | 23743 | BHMT2 |
| 0.185106238 | 0.007222827 | 0.222 | 1 | 58493 | C9orf80 |
| 0.184974068 | 0.007264963 | 0.206 | 1 | 55577 | NAGK |
| 0.184942969 | 0.007274909 | 0.216 | 1 | 7337 | UBE3A |
| 0.184940378 | 0.007275739 | 0.207 | 1 | 401992 | OR2T2 |
| 0.184937786 | 0.007276568 | 0.18 | 1 | 8900 | CCNA1 |
| 0.184910575 | 0.007285283 | 0.208 | 1 | 26017 | FAM32A |
| 0.184891138 | 0.007291513 | 0.195 | 1 | 58478 | ENOPH1 |
| 0.184831532 | 0.007310649 | 0.193 | 1 | 11244 | ZHX1 |
| 0.184827644 | 0.007311899 | 0.189 | 1 | 92002 | FAM58A |
| 0.184784883 | 0.007325657 | 0.183 | 1 | 93082 | NEURL3 |
| 0.184777109 | 0.007328161 | 0.197 | 1 | 8650 | NUMB |
| 0.18470584 | 0.007351149 | 0.208 | 1 | 54998 | AURKAIP1 |
| 0.184552938 | 0.007400686 | 0.2 | 1 | 51332 | SPTBN5 |

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| 0.078905313 | 3.2087E-167 | 23096 | IQSEC2 |
| 0.07890453 | 3.2331E-167 | 4241 | MFI2 |
| 0.078898579 | 3.4246E-167 | 91300 | C19orf22 |
| 0.078822823 | 7.1216E-167 | 8693 | GALNT4 |
| 0.078818228 | 7.4448E-167 | 114 | ADCY8 |
| 0.078785252 | 1.0237E-166 | 644353 | ZCCHC18 |
| 0.078768865 | 1.1991E-166 | 133690 | CAPSL |
| 0.078766215 | 1.2302E-166 | 84696 | ABHD1 |
| 0.078763152 | 1.2671E-166 | 131601 | GPR175 |
| 0.078713846 | 2.0391E-166 | 10660 | LBX1 |
| 0.078713583 | 2.0443E-166 | 11039 | SMA4 |
| 0.078698484 | 2.3648E-166 | 7644 | ZNF91 |
| 0.078696261 | 2.416E-166 | 168090 | C6orf118 |
| 0.078690352 | 2.5577E-166 | 2886 | GRB7 |
| 0.078686247 | 2.661E-166 | 4993 | OR2C1 |
| 0.078677837 | 2.8858E-166 | 5366 | PMAIP1 |
| 0.078660471 | 3.4117E-166 | 3175 | ONECUT1 |
| 0.078652303 | 3.6912E-166 | 55897 | MESP1 |
| 0.078642746 | 4.0473E-166 | 7536 | SF1 |
| 0.078642251 | 4.0667E-166 | 55068 | ENOX1 |
| 0.078638023 | 4.2358E-166 | 10611 | PDLIM5 |
| 0.078635425 | 4.3432E-166 | 196500 | C12orf53 |
| 0.078625636 | 4.7729E-166 | 23466 | CBX6 |
| 0.078608672 | 5.6203E-166 | 8942 | KYNU |
| 0.078602404 | 5.9701E-166 | 347736 | TXNDC6 |
| 0.078591253 | 6.647E-166 | 9294 | S1PR2 |
| 0.078585797 | 7.0056E-166 | 140710 | C20orf117 |
| 0.078578789 | 7.4947E-166 | 84072 | HORMAD1 |
| 0.078573187 | 7.9101E-166 | 64221 | ROBO3 |
| 0.078561346 | 8.8653E-166 | 574407 | C1orf145 |
| 0.078556801 | 9.2619E-166 | 25789 | TMEM59L |
| 0.078554426 | 9.4761E-166 | 8760 | CDS2 |
| 0.07854672 | 1.0206E-165 | 139411 | PTCHD1 |
| 0.078539227 | 1.0969E-165 | 56033 | BARX1 |
| 0.078515631 | 1.3765E-165 | 83694 | RPS6KL1 |
| 0.078514698 | 1.3889E-165 | 5909 | RAP1GAP |
| 0.078510849 | 1.4413E-165 | 4832 | NME3 |
| 0.078508158 | 1.4791E-165 | 5721 | PSME2 |
| 0.078479628 | 1.9462E-165 | 8200 | GDF5 |
| 0.078465168 | 2.2366E-165 | 391104 | VHLL |
| 0.078442911 | 2.7702E-165 | 360023 | ZBTB41 |
| 0.078431218 | 3.0998E-165 | 79148 | MMP28 |
| 0.078386207 | 5.0499E-165 | 57707 | KIAA1609 |
| 0.078379546 | 5.0927E-165 | 55911 | AC138894.3 |
| 0.078367884 | 5.6963E-165 | 29122 | TSP50 |
| 0.078316083 | 9.3664E-165 | 153364 | MBLAC2 |
| 0.078303205 | 1.0598E-164 | 26232 | FBXO2 |
| 0.078287274 | 1.2349E-164 | 391013 | PLA2G2C |
| 0.078279931 | 1.325E-164 | 5211 | PFKL |
| 0.078271599 | 1.4352E-164 | 343099 | CCDC18 |
| 0.078267941 | 1.4865E-164 | 26577 | PCOLCE2 |
| 0.078245168 | 1.8493E-164 | 100128108 | RP11-89K11.1 |
| 0.078237801 | 1.9847E-164 | 149134 | LOC149134 |
| 0.078236956 | 2.0008E-164 | 56477 | CCL28 |
| 0.078232088 | 2.0964E-164 | 8237 | USP11 |
| 0.078229969 | 3.2696E-164 | 25780 | RASGRP3 |
| 0.078219783 | 2.3588E-164 | 25975 | EGFL6 |
| 0.07821777 | 2.4048E-164 | 165140 | OXER1 |
| 0.078213077 | 2.5154E-164 | 5281 | PIGF |
| 0.078178237 | 3.5124E-164 | 389119 | C3orf54 |
| 0.078173718 | 3.6678E-164 | 284417 | TMEM150B |
| 0.078171125 | 3.76E-164 | 130749 | CPO |
| 0.078163948 | 4.0276E-164 | 100130932 | LOC100130932 |
| 0.078152304 | 4.5028E-164 | 283143 | LOC283143 |
| 0.078138711 | 5.1287E-164 | 255738 | PCSK9 |
| 0.078134119 | 5.3593E-164 | 740 | MRPL49 |
| 0.078117788 | 6.2663E-164 | 1297 | COL9A1 |
| 0.078101759 | 7.3053E-164 | 222642 | BZRPL1 |
| 0.07808158 | 8.8614E-164 | 6746 | SSR2 |
| 0.078068622 | 1.0031E-163 | 374875 | HSD11B1L |
| 0.078046038 | 1.245E-163 | 317762 | CCDC85C |
| 0.078045641 | 1.2497E-163 | 400798 | RP5-990P15.1 |
| 0.07802664 | 1.4987E-163 | 645027 | EVPLL |
| 0.078018956 | 1.613E-163 | 4829 | NMBR |
| 0.078012816 | 1.7105E-163 | 256643 | CXorf23 |
| 0.078002258 | 1.8921E-163 | 79134 | TMEM185B |
| 0.077970797 | 2.5558E-163 | 440044 | SLC22A20 |
| 0.077967216 | 2.6447E-163 | 4245 | MGAT1 |
| 0.07794477 | 3.2772E-163 | 123872 | LRRC50 |
| 0.077942919 | 3.3356E-163 | 10690 | FUT9 |
| 0.077938635 | 3.4749E-163 | 4762 | NEUROG1 |
| 0.077921948 | 4.0752E-163 | 388507 | ZNF788 |

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| 0.18454905 | 0.00740195 | 0.172 | 1 | 23621 | BACE1 |
| 0.184527022 | 0.007409112 | 0.211 | 1 | 1036 | CDO1 |
| 0.184504994 | 0.00741628 | 0.193 | 1 | 5476 | CTSA |
| 0.184482965 | 0.007423455 | 0.206 | 1 | 79656 | BEND5 |
| 0.184464824 | 0.007429368 | 0.183 | 1 | 84269 | CHCHD5 |
| 0.184424655 | 0.007442477 | 0.143 | 1 | 154313 | C6orf165 |
| 0.184355978 | 0.007464936 | 0.213 | 1 | 127933 | UHMK1 |
| 0.184313217 | 0.00747895 | 0.205 | 1 | 79917 | MAGIX |
| 0.184276935 | 0.00749086 | 0.199 | 1 | 1482 | NKX2-5 |
| 0.184271752 | 0.007492563 | 0.174 | 1 | 7975 | MAFK |
| 0.184253611 | 0.007498525 | 0.186 | 1 | 404636 | FAM45A |
| 0.184238062 | 0.007503639 | 0.212 | 1 | 22937 | SCAP |
| 0.18421085 | 0.007512595 | 0.196 | 1 | 56945 | MRPS22 |
| 0.184183639 | 0.007521562 | 0.221 | 1 | 390748 | AC092384.2 |
| 0.18417716 | 0.007523698 | 0.192 | 1 | 3141 | HLCS |
| 0.184171977 | 0.007525407 | 0.211 | 1 | 57007 | CXCR7 |
| 0.184156427 | 0.007530538 | 0.227 | 1 | 5030 | P2RY4 |
| 0.184139582 | 0.007536099 | 0.213 | 1 | 8321 | FZD1 |
| 0.184057948 | 0.007563102 | 0.19 | 1 | 9607 | CARTPT |
| 0.184057948 | 0.007563102 | 0.218 | 1 | 11331 | PHB2 |
| 0.184051469 | 0.007565248 | 0.228 | 1 | 85417 | CCNB3 |
| 0.184019074 | 0.00757599 | 0.18 | 1 | 1007 | CDH9 |
| 0.1839802 | 0.007588899 | 0.197 | 1 | 28952 | CCDC22 |
| 0.183927073 | 0.007606572 | 0.203 | 1 | 79603 | LASS4 |
| 0.183880425 | 0.00762212 | 0.205 | 1 | 51103 | NDUFAF1 |
| 0.183873946 | 0.007624281 | 0.191 | 1 | 6821 | SUOX |
| 0.183807861 | 0.007646362 | 0.205 | 1 | 55831 | EMC3 |
| 0.183805269 | 0.007647229 | 0.168 | 1 | 5933 | RBL1 |
| 0.18377417 | 0.00765764 | 0.161 | 1 | 22807 | IKZF2 |
| 0.183648479 | 0.007699849 | 0.196 | 1 | 374860 | C21orf110 |
| 0.183601831 | 0.007715567 | 0.222 | 1 | 11245 | GPR176 |
| 0.183566845 | 0.007727374 | 0.221 | 1 | 2794 | GNL1 |
| 0.183566845 | 0.007727374 | 0.181 | 1 | 85452 | C1orf222 |
| 0.183438562 | 0.007770805 | 0.201 | 1 | 54869 | EPS8L1 |
| 0.18343597 | 0.007771684 | 0.207 | 1 | 26279 | PLA2G2D |
| 0.183421717 | 0.007776524 | 0.21 | 1 | 54985 | HCFC1R1 |
| 0.183356927 | 0.007798556 | 0.206 | 1 | 9152 | SLC6A5 |
| 0.183336195 | 0.007805617 | 0.185 | 1 | 8519 | IFITM1 |
| 0.18327918 | 0.007825067 | 0.202 | 1 | 6536 | SLC6A9 |
| 0.183261039 | 0.007831265 | 0.208 | 1 | 27151 | CPAMD8 |
| 0.183188475 | 0.007856098 | 0.202 | 1 | 2865 | AC002511.1 |
| 0.183158672 | 0.007866318 | 0.208 | 1 | 54916 | C14orf101 |
| 0.183157376 | 0.007866763 | 0.22 | 1 | 3725 | JUN |
| 0.183042051 | 0.007906423 | 0.16 | 1 | 4669 | NAGLU |
| 0.18303946 | 0.007907317 | 0.203 | 1 | 1234 | CCR5 |
| 0.18298115 | 0.007927439 | 0.185 | 1 | 6480 | ST6GAL1 |
| 0.1829656 | 0.007932813 | 0.18 | 1 | 80152 | CENPT |
| 0.182963009 | 0.007933709 | 0.193 | 1 | 113540 | CMTM1 |
| 0.182899515 | 0.007955688 | 0.164 | 1 | 10371 | SEMA3A |
| 0.182749204 | 0.008007935 | 0.207 | 1 | 4849 | CNOT3 |
| 0.182707739 | 0.008022402 | 0.204 | 1 | 121053 | C12orf45 |
| 0.182637766 | 0.008046868 | 0.193 | 1 | 83690 | CRISPLD1 |
| 0.182633879 | 0.008048229 | 0.156 | 1 | 100192379 | AC079341.1 |
| 0.182610555 | 0.0080564 | 0.214 | 1 | 1062 | CENPE |
| 0.182567794 | 0.0080714 | 0.182 | 1 | 10534 | SSSCA1 |
| 0.182510779 | 0.008091438 | 0.202 | 1 | 11157 | LSM6 |
| 0.182447286 | 0.008113805 | 0.202 | 1 | 80162 | ATHL1 |
| 0.182430441 | 0.008119749 | 0.21 | 1 | 57600 | FNIP2 |
| 0.182395454 | 0.008132105 | 0.216 | 1 | 399473 | SPRED3 |
| 0.182377313 | 0.008138519 | 0.194 | 1 | 400073 | C12orf76 |
| 0.18221534 | 0.008195983 | 0.244 | 1 | 4665 | NAB2 |
| 0.182188129 | 0.008205672 | 0.179 | 1 | 26511 | CHIC2 |
| 0.182177762 | 0.008209366 | 0.177 | 1 | 121268 | RHEBL1 |
| 0.182172579 | 0.008211214 | 0.199 | 1 | 953 | ENTPD1 |
| 0.182164805 | 0.008213985 | 0.188 | 1 | 9745 | ZNF536 |
| 0.182128523 | 0.008226932 | 0.208 | 1 | 4150 | MAZ |
| 0.182020972 | 0.008265416 | 0.227 | 1 | 55224 | ETNK2 |
| 0.182014493 | 0.00826774 | 0.227 | 1 | 8021 | NUP214 |
| 0.182010606 | 0.008269134 | 0.213 | 1 | 5754 | PTK7 |
| 0.181949704 | 0.008291006 | 0.202 | 1 | 27071 | DAPP1 |
| 0.181936746 | 0.008295666 | 0.21 | 1 | 166614 | DCLK2 |
| 0.181887506 | 0.008313397 | 0.198 | 1 | 64897 | C12orf43 |
| 0.181860295 | 0.008323209 | 0.213 | 1 | 3769 | KCNJ13 |
| 0.181826604 | 0.008335373 | 0.194 | 1 | 5745 | PTH1R |
| 0.181804576 | 0.008343334 | 0.222 | 1 | 117854 | TRIM6 |
| 0.18174497 | 0.008364911 | 0.199 | 1 | 114112 | TXNRD3 |
| 0.181721646 | 0.008373368 | 0.221 | 1 | 285659 | OR2V2 |
| 0.181715167 | 0.008375718 | 0.204 | 1 | 7100 | TLR5 |
| 0.181687955 | 0.008385597 | 0.216 | 1 | 112724 | RDH13 |
| 0.181475446 | 0.008463097 | 0.198 | 1 | 166929 | SGMS2 |
| 0.181461193 | 0.008468318 | 0.233 | 1 | 221322 | C6orf170 |
| 0.181326431 | 0.008517822 | 0.231 | 1 | 81532 | MOB2 |

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| 0.07791522 | 4.3456E-163 | 5598 | MAPK7 |
| 0.077885869 | 5.7508E-163 | 5340 | PLG |
| 0.077871386 | 6.6032E-163 | 2913 | GRM3 |
| 0.07784549 | 8.4538E-163 | 6307 | SC4MOL |
| 0.077836571 | 9.2045E-163 | 51199 | NIN |
| 0.077828367 | 9.9536E-163 | 401498 | TMEM215 |
| 0.077822569 | 1.0519E-162 | 374387 | AC044839.2 |
| 0.077800682 | 1.2961E-162 | 8216 | LZTR1 |
| 0.077768829 | 1.7558E-162 | 10082 | GPC6 |
| 0.07775699 | 1.9655E-162 | 196383 | RILPL2 |
| 0.077752415 | 2.0531E-162 | 90226 | UCN2 |
| 0.077690795 | 3.6921E-162 | 9545 | RAB3D |
| 0.077664217 | 4.7548E-162 | 8021 | NUP214 |
| 0.077662614 | 4.8279E-162 | 221060 | C10orf111 |
| 0.077606808 | 8.2095E-162 | 23193 | GANAB |
| 0.0775978 | 8.9437E-162 | 9723 | SEMA3E |
| 0.077523949 | 1.8044E-161 | 7038 | TG |
| 0.077487877 | 2.5416E-161 | 10599 | SLCO1B1 |
| 0.077487613 | 2.548E-161 | 55075 | UACA |
| 0.077485748 | 2.5935E-161 | 643036 | SLED1 |
| 0.077472648 | 2.937E-161 | 11025 | LILRB3 |
| 0.077459589 | 3.3246E-161 | 5792 | PTPRF |
| 0.077437133 | 4.1142E-161 | 114991 | ZNF618 |
| 0.077433089 | 4.2751E-161 | 54497 | HEATR5B |
| 0.077426442 | 4.5534E-161 | 3150 | HMGN1 |
| 0.077420555 | 4.8149E-161 | 282969 | C10orf125 |
| 0.077405334 | 5.5628E-161 | 4753 | NELL2 |
| 0.077370119 | 7.7681E-161 | 100129478 | LOC100129478 |
| 0.077369053 | 7.8469E-161 | 333 | APLP1 |
| 0.077366886 | 8.0098E-161 | 160857 | CCDC122 |
| 0.077361217 | 8.452E-161 | 220074 | AP000812.2 |
| 0.077348942 | 9.4949E-161 | 147429 | CHST9-AS1 |
| 0.077299109 | 1.5224E-160 | 58475 | MS4A7 |
| 0.0772785 | 1.8506E-160 | 57661 | PHRF1 |
| 0.077253555 | 2.3435E-160 | 2650 | GCNT1 |
| 0.077252976 | 2.3564E-160 | 647309 | RP11-332P22.1 |
| 0.077247801 | 2.4747E-160 | 4135 | MAP6 |
| 0.07719707 | 3.9993E-160 | 838 | CASP5 |
| 0.077191417 | 4.219E-160 | 3033 | HADH |
| 0.077168072 | 5.2611E-160 | 1557 | CYP2C19 |
| 0.077162434 | 5.5492E-160 | 4292 | MLH1 |
| 0.077151271 | 6.1668E-160 | 8352 | HIST1H3C |
| 0.077104873 | 9.5607E-160 | 283521 | LINC00282 |
| 0.077089645 | 1.104E-159 | 5689 | PSMB1 |
| 0.077088513 | 1.1159E-159 | 54874 | FNBP1L |
| 0.077039302 | 1.7759E-159 | 23318 | ZCCHC11 |
| 0.0770291 | 1.9554E-159 | 123624 | AGBL1 |
| 0.076992431 | 2.7637E-159 | 29034 | CPS1-IT1 |
| 0.076982482 | 3.0356E-159 | 375307 | C2orf62 |
| 0.076963487 | 3.6312E-159 | 817 | CAMK2D |
| 0.076946741 | 4.2523E-159 | 5621 | PRNP |
| 0.076943311 | 4.392E-159 | 57642 | COL20A1 |
| 0.076933025 | 4.8392E-159 | 6844 | VAMP2 |
| 0.076909569 | 6.0365E-159 | 255758 | TCTEX1D2 |
| 0.076881964 | 7.8296E-159 | 22990 | PCNX |
| 0.07686758 | 8.9655E-159 | 3049 | HBQ1 |
| 0.0768247 | 1.3425E-158 | 23529 | CLCF1 |
| 0.076806086 | 1.5995E-158 | 57665 | RDH14 |
| 0.076796262 | 1.7545E-158 | 4001 | LMNB1 |
| 0.076794762 | 1.7794E-158 | 90993 | CREB3L1 |
| 0.076793474 | 1.8011E-158 | 140606 | SELM |
| 0.07679049 | 1.8524E-158 | 90113 | VWA5B2 |
| 0.076756683 | 2.5459E-158 | 57176 | VARS2 |
| 0.07672893 | 3.305E-158 | 3320 | HSP90AA2 |
| 0.076718726 | 3.6377E-158 | 23309 | SIN3B |
| 0.076681742 | 5.1495E-158 | 22807 | IKZF2 |
| 0.076680339 | 5.2178E-158 | 9615 | GDA |
| 0.076659273 | 6.3596E-158 | 26508 | HEYL |
| 0.076606979 | 1.0391E-157 | 286042 | AC068020.3 |
| 0.07660168 | 1.0921E-157 | 23215 | BAT2D1 |
| 0.076600384 | 1.1055E-157 | 7103 | TSPAN8 |
| 0.076597111 | 1.1399E-157 | 81691 | AC004381.2 |
| 0.076594503 | 1.1682E-157 | 1417 | CRYBB3 |
| 0.076557969 | 1.6458E-157 | 343 | AQP8 |
| 0.076556436 | 1.6696E-157 | 255252 | LRRC57 |
| 0.07653559 | 2.0301E-157 | 8392 | OR3A3 |
| 0.076531598 | 2.1076E-157 | 30000 | TNPO2 |
| 0.076526569 | 2.2093E-157 | 317781 | DDX51 |
| 0.076489637 | 3.1232E-157 | 3866 | KRT15 |
| 0.076489092 | 3.1392E-157 | 112 | ADCY6 |
| 0.076478719 | 3.4597E-157 | 64600 | PLA2G2F |
| 0.07646863 | 3.8027E-157 | 2098 | ESD |

| | | | | | |
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| 0.181247388 | 0.008546977 | 0.194 | 1 | 160 | AP2A1 |
| 0.181238318 | 0.008550328 | 0.208 | 1 | 100009676 | LOC100009676 |
| 0.181231839 | 0.008552723 | 0.184 | 1 | 27087 | B3GAT1 |
| 0.181156683 | 0.008580543 | 0.211 | 1 | 39 | ACAT2 |
| 0.1811515 | 0.008582465 | 0.192 | 1 | 56963 | RGMA |
| 0.181084119 | 0.00860748 | 0.198 | 1 | 23017 | FAIM2 |
| 0.181075049 | 0.008610853 | 0.195 | 1 | 10590 | SCGN |
| 0.181042654 | 0.008622907 | 0.203 | 1 | 645431 | LOC645431 |
| 0.181040062 | 0.008623872 | 0.202 | 1 | 30815 | ST6GALNAC6 |
| 0.181030992 | 0.00862725 | 0.226 | 1 | 115362 | GBP5 |
| 0.180874202 | 0.00868583 | 0.227 | 1 | 55591 | VEZT |
| 0.180869019 | 0.008687772 | 0.191 | 1 | 643037 | LOC643037 |
| 0.180834033 | 0.008700894 | 0.179 | 1 | 400710 | AC010624.2 |
| 0.180795159 | 0.008715495 | 0.215 | 1 | 4953 | ODC1 |
| 0.18078868 | 0.008717931 | 0.201 | 1 | 197407 | ZNF48 |
| 0.180787384 | 0.008718418 | 0.192 | 1 | 1717 | DHCR7 |
| 0.180740736 | 0.008735973 | 0.215 | 1 | 84888 | AC012100.1 |
| 0.180712229 | 0.008746717 | 0.181 | 1 | 3992 | FADS1 |
| 0.18055803 | 0.008805034 | 0.198 | 1 | 6425 | SFRP5 |
| 0.180478987 | 0.008835061 | 0.215 | 1 | 84549 | MAK16 |
| 0.18043493 | 0.008851837 | 0.216 | 1 | 7780 | SLC30A2 |
| 0.180431043 | 0.008853318 | 0.193 | 1 | 23268 | DNMBP |
| 0.180350704 | 0.008883987 | 0.206 | 1 | 100133211 | LOC100133211 |
| 0.180304056 | 0.008901838 | 0.22 | 1 | 53917 | RAB24 |
| 0.180249633 | 0.008922704 | 0.215 | 1 | 7753 | ZNF202 |
| 0.180178365 | 0.008950095 | 0.191 | 1 | 256472 | TMEM151A |
| 0.180156337 | 0.008958577 | 0.223 | 1 | 10686 | CLDN16 |
| 0.180135604 | 0.008966565 | 0.179 | 1 | 3267 | AGFG1 |
| 0.180091547 | 0.008983563 | 0.229 | 1 | 902 | CCNH |
| 0.180066927 | 0.008993074 | 0.172 | 1 | 50944 | SHANK1 |
| 0.180042307 | 0.009002594 | 0.202 | 1 | 5935 | RBM3 |
| 0.179993068 | 0.009021661 | 0.203 | 1 | 3654 | IRAK1 |
| 0.179952898 | 0.009037242 | 0.211 | 1 | 2891 | GRIA2 |
| 0.179937349 | 0.00904328 | 0.179 | 1 | 5365 | PLXNB3 |
| 0.179811658 | 0.009092217 | 0.185 | 1 | 3123 | HLA-DRB1 |
| 0.179745572 | 0.009118041 | 0.201 | 1 | 10178 | ODZ1 |
| 0.179663938 | 0.009150031 | 0.198 | 1 | 51314 | TXNDC3 |
| 0.179658755 | 0.009152066 | 0.184 | 1 | 4493 | MT1E |
| 0.17964191 | 0.00915868 | 0.206 | 1 | 23683 | PRKD3 |
| 0.179623769 | 0.009165809 | 0.202 | 1 | 7832 | BTG2 |
| 0.17956805 | 0.009187734 | 0.207 | 1 | 10982 | MAPRE2 |
| 0.179533064 | 0.009201525 | 0.213 | 1 | 51281 | ANKMY1 |
| 0.179492894 | 0.009217381 | 0.22 | 1 | 79269 | WDR32 |
| 0.179442359 | 0.009237364 | 0.219 | 1 | 23321 | TRIM2 |
| 0.17943588 | 0.009239929 | 0.195 | 1 | 1808 | DPYSL2 |
| 0.179387936 | 0.009258927 | 0.18 | 1 | 161394 | SAMD15 |
| 0.179354245 | 0.009272298 | 0.207 | 1 | 1657 | DMXL1 |
| 0.17931278 | 0.009288779 | 0.242 | 1 | 387267 | KRTAP5-4 |
| 0.179299822 | 0.009293934 | 0.205 | 1 | 64130 | LIN7B |
| 0.179277794 | 0.009302704 | 0.205 | 1 | 64374 | SIL1 |
| 0.179275202 | 0.009303736 | 0.191 | 1 | 9261 | MAPKAPK2 |
| 0.179247991 | 0.009314581 | 0.2 | 1 | 84639 | IL1F10 |
| 0.179013453 | 0.009408517 | 0.182 | 1 | 221184 | CPNE2 |
| 0.179006975 | 0.009411124 | 0.194 | 1 | 3696 | ITGB8 |
| 0.178975876 | 0.009423646 | 0.237 | 1 | 9238 | TBRG4 |
| 0.178951256 | 0.009433569 | 0.227 | 1 | 10797 | MTHFD2 |
| 0.178940889 | 0.00943775 | 0.232 | 1 | 78996 | C7orf49 |
| 0.17880224 | 0.00949383 | 0.237 | 1 | 79657 | RPAP3 |
| 0.178776325 | 0.009504345 | 0.196 | 1 | 2195 | FAT1 |
| 0.178651929 | 0.009554961 | 0.21 | 1 | 23787 | MTCH1 |
| 0.178642859 | 0.009558661 | 0.206 | 1 | 10160 | FARP1 |
| 0.178641563 | 0.009559189 | 0.191 | 1 | 9413 | C9orf61 |
| 0.178629901 | 0.009563949 | 0.203 | 1 | 25987 | TSKU |
| 0.178613056 | 0.009570827 | 0.208 | 1 | 80215 | RUNX1-IT1 |
| 0.178601394 | 0.009575591 | 0.238 | 1 | 55611 | OTUB1 |
| 0.178581957 | 0.009583537 | 0.229 | 1 | 2323 | FLT3LG |
| 0.178543083 | 0.009599445 | 0.216 | 1 | 54360 | CYTL1 |
| 0.178519759 | 0.009609001 | 0.228 | 1 | 83442 | SH3BGRL3 |
| 0.178487364 | 0.009622288 | 0.194 | 1 | 54554 | WDR5B |
| 0.178483477 | 0.009623883 | 0.212 | 1 | 5913 | RAPSN |
| 0.178471815 | 0.009628671 | 0.186 | 1 | 8527 | DGKD |
| 0.178469223 | 0.009629736 | 0.186 | 1 | 10487 | CAP1 |
| 0.178434237 | 0.009644113 | 0.213 | 1 | 339501 | MPN2 |
| 0.178429054 | 0.009646245 | 0.215 | 1 | 83593 | RASSF5 |
| 0.178423871 | 0.009648377 | 0.213 | 1 | 3142 | HLX |
| 0.178399251 | 0.00965851 | 0.228 | 1 | 1353 | COX11 |
| 0.17837204 | 0.009669721 | 0.224 | 1 | 399821 | RP11-383C5.4 |
| 0.178303363 | 0.009698065 | 0.227 | 1 | 138802 | OR13C8 |
| 0.178260602 | 0.009715751 | 0.211 | 1 | 3301 | DNAJA1 |
| 0.178250236 | 0.009720043 | 0.188 | 1 | 7571 | ZNF23 |
| 0.178217841 | 0.009733465 | 0.199 | 1 | 619208 | C6orf225 |
| 0.178140094 | 0.009765747 | 0.2 | 1 | 7857 | SCG2 |

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| 0.076462383 | 1.6405E-156 | 463 | ATBF1 |
| 0.076452118 | 4.4388E-157 | 146547 | PRSS36 |
| 0.076451584 | 4.461E-157 | 1515 | CTSL2 |
| 0.076444693 | 4.7585E-157 | 51009 | DERL2 |
| 0.076444556 | 4.7646E-157 | 202374 | STK32A |
| 0.076427047 | 5.6135E-157 | 55830 | GLT8D1 |
| 0.076397468 | 7.4045E-157 | 10772 | FUSIP1 |
| 0.076368358 | 9.723E-157 | 390261 | OR6M1 |
| 0.076355203 | 1.0996E-156 | 60626 | RIC8A |
| 0.076342117 | 1.2428E-156 | 6288 | SAA1 |
| 0.076328102 | 1.4169E-156 | 10021 | HCN4 |
| 0.076318292 | 1.553E-156 | 83698 | CALN1 |
| 0.076311546 | 1.6541E-156 | 374378 | GALNTL4 |
| 0.076301575 | 1.8157E-156 | 9577 | BRE |
| 0.076266131 | 2.5288E-156 | 92906 | HNRPLL |
| 0.076246862 | 3.0276E-156 | 23761 | PISD |
| 0.076182706 | 5.5113E-156 | 9705 | ST18 |
| 0.076148998 | 7.5484E-156 | 9874 | TLK1 |
| 0.076133249 | 8.7429E-156 | 27315 | PGAP2 |
| 0.076108772 | 1.0985E-155 | 2870 | GRK6 |
| 0.076104768 | 1.1403E-155 | 401494 | PTPLAD2 |
| 0.076094774 | 1.2516E-155 | 152118 | RP11-292E2.1 |
| 0.076085386 | 1.3661E-155 | 4927 | NUP88 |
| 0.076054422 | 1.8231E-155 | 7221 | TRPC2 |
| 0.07605028 | 1.8948E-155 | 55690 | PACS1 |
| 0.076046325 | 1.9659E-155 | 8140 | SLC7A5 |
| 0.076039191 | 2.101E-155 | 2887 | GRB10 |
| 0.075981545 | 3.5938E-155 | 9015 | TAF1A |
| 0.075980147 | 3.6409E-155 | 147906 | DACT3 |
| 0.075922938 | 6.2E-155 | 89 | ACTN3 |
| 0.075916616 | 6.5755E-155 | 80790 | AC099524.1 |
| 0.075889758 | 8.441E-155 | 116179 | TGM7 |
| 0.075886363 | 8.7117E-155 | 349114 | LINC00265 |
| 0.075874501 | 9.7273E-155 | 364 | AQP7 |
| 0.075824636 | 1.5461E-154 | 9046 | DOK2 |
| 0.075795107 | 2.0339E-154 | 5865 | RAB3B |
| 0.075767762 | 2.6217E-154 | 116349 | C5orf55 |
| 0.075752533 | 3.0197E-154 | 6612 | SUMO3 |
| 0.075719878 | 4.0883E-154 | 54784 | ALKBH4 |
| 0.07568052 | 5.8893E-154 | 1464 | CSPG4 |
| 0.075680315 | 5.9005E-154 | 100289060 | LOC100289060 |
| 0.075667157 | 6.6659E-154 | 51108 | METTL9 |
| 0.075636314 | 8.8716E-154 | 5239 | PGM5 |
| 0.075633977 | 9.0659E-154 | 8345 | HIST1H2BH |
| 0.075632885 | 9.158E-154 | 643783 | USP46-AS1 |
| 0.075632654 | 9.1777E-154 | 84765 | ZNF577 |
| 0.075630935 | 9.3249E-154 | 8728 | ADAM19 |
| 0.075630729 | 9.3428E-154 | 128434 | VSTM2L |
| 0.075608502 | 1.1479E-153 | 151295 | SLC23A3 |
| 0.075588305 | 1.384E-153 | 6629 | SNRPB2 |
| 0.075586615 | 1.4058E-153 | 10637 | LEFTY1 |
| 0.075581618 | 1.4724E-153 | 2011 | MARK2 |
| 0.075577092 | 1.5354E-153 | 2897 | GRIK1 |
| 0.075555825 | 1.8695E-153 | 4718 | NDUFC2 |
| 0.075526668 | 2.4485E-153 | 53840 | TRIM34 |
| 0.075522669 | 2.5408E-153 | 50801 | KCNK4 |
| 0.075518914 | 2.6306E-153 | 401242 | XXBAC-BPG308K3.6 |
| 0.075518274 | 2.6463E-153 | 347689 | SOX2-OT |
| 0.075507082 | 2.9349E-153 | 653635 | WASH5P |
| 0.07549088 | 3.4094E-153 | 440087 | C12orf69 |
| 0.075487995 | 3.5016E-153 | 286257 | C9orf142 |
| 0.075474212 | 3.9775E-153 | 10298 | PAK4 |
| 0.075470882 | 4.1019E-153 | 92737 | DNER |
| 0.075418117 | 6.68E-153 | 164781 | WDR69 |
| 0.075395194 | 8.2553E-153 | 4043 | LRPAP1 |
| 0.075380476 | 9.4572E-153 | 9098 | USP6 |
| 0.07532863 | 1.5262E-152 | 8310 | ACOX3 |
| 0.075327454 | 1.5429E-152 | 4925 | NUCB2 |
| 0.075327357 | 1.5442E-152 | 2158 | F9 |
| 0.075316908 | 1.7005E-152 | 201134 | CCDC46 |
| 0.075311808 | 1.7825E-152 | 10994 | ILVBL |
| 0.075291192 | 2.1558E-152 | 2175 | FANCA |
| 0.075268539 | 2.6567E-152 | 285834 | HCG22 |
| 0.075253392 | 3.0548E-152 | 79415 | C17orf62 |
| 0.075242462 | 3.3786E-152 | 221756 | MGC39372 |
| 0.075211101 | 4.5108E-152 | 23302 | WSCD1 |
| 0.075208119 | 4.6364E-152 | 159013 | CXorf38 |
| 0.075200486 | 4.9742E-152 | 441416 | GPR116P2 |
| 0.075200435 | 3.4515E-151 | 57110 | HRASLS |
| 0.075140294 | 8.6584E-152 | 132671 | SPATA18 |
| 0.075131801 | 9.3624E-152 | 119678 | OR52E2 |
| 0.075107044 | 1.1758E-151 | 129450 | C2orf60 |

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| 0.178083079 | 0.00978948 | 0.198 | 1 | 5819 | PVRL2 |
| 0.17800922 | 0.009820301 | 0.208 | 1 | 4152 | MBD1 |
| 0.17800922 | 0.009820301 | 0.204 | 1 | 5866 | RAB3IL1 |
| 0.177917219 | 0.009858813 | 0.204 | 1 | 55662 | HIF1AN |
| 0.177897782 | 0.009866966 | 0.198 | 1 | 89832 | CHRFAM7A |
| 0.17788612 | 0.009871861 | 0.225 | 1 | 2899 | GRIK3 |
| 0.177839472 | 0.009891462 | 0.21 | 1 | 10928 | RALBP1 |
| 0.177817443 | 0.00990073 | 0.227 | 1 | 114625 | ERMAP |
| 0.177696935 | 0.009951568 | 0.199 | 1 | 79056 | PRRG4 |
| 0.177634737 | 0.009977897 | 0.222 | 1 | 1416 | CRYBB2P1 |
| 0.177541441 | 0.010017507 | 0.213 | 1 | 202500 | TCTE1 |
| 0.177511638 | 0.010030189 | 0.231 | 1 | 6631 | SNRPC |
| 0.177450736 | 0.01005615 | 0.214 | 1 | 124857 | WFIKKN2 |
| 0.17744944 | 0.010056703 | 0.191 | 1 | 4751 | NEK2 |
| 0.177385947 | 0.010083833 | 0.215 | 1 | 54862 | CC2D1A |
| 0.177274509 | 0.010131605 | 0.215 | 1 | 43 | ACHE |
| 0.177200649 | 0.010163378 | 0.212 | 1 | 6911 | TBX6 |
| 0.177192874 | 0.010166728 | 0.233 | 1 | 55959 | SULF2 |
| 0.177032197 | 0.010236174 | 0.211 | 1 | 9508 | ADAMTS3 |
| 0.176966112 | 0.010264858 | 0.237 | 1 | 643155 | C5orf43 |
| 0.176868928 | 0.01030717 | 0.248 | 1 | 374986 | FAM73A |
| 0.176848195 | 0.010316216 | 0.208 | 1 | 860 | RUNX2 |
| 0.176708251 | 0.010377464 | 0.217 | 1 | 127550 | A3GALT2P |
| 0.17669918 | 0.010381445 | 0.221 | 1 | 79781 | IQCA1 |
| 0.176652532 | 0.010401939 | 0.212 | 1 | 100287114 | LINC00421 |
| 0.176613658 | 0.010419045 | 0.229 | 1 | 5798 | PTPRN |
| 0.176473713 | 0.010480833 | 0.203 | 1 | 84645 | C22orf23 |
| 0.176424474 | 0.01050265 | 0.195 | 1 | 11309 | SLCO2B1 |
| 0.176345431 | 0.010537756 | 0.233 | 1 | 51232 | CRIM1 |
| 0.176298782 | 0.010558523 | 0.233 | 1 | 271 | AMPD2 |
| 0.17627805 | 0.010567764 | 0.224 | 1 | 23582 | CCNDBP1 |
| 0.176243063 | 0.010583375 | 0.221 | 1 | 8131 | C16orf35 |
| 0.176073316 | 0.010659407 | 0.225 | 1 | 29948 | OSGIN1 |
| 0.176043512 | 0.010672806 | 0.211 | 1 | 79363 | C1orf89 |
| 0.17600723 | 0.010689138 | 0.19 | 1 | 259230 | SGMS1 |
| 0.175995568 | 0.010694392 | 0.232 | 1 | 1191 | CLU |
| 0.175921709 | 0.010727722 | 0.223 | 1 | 127396 | ZNF684 |
| 0.175832299 | 0.010768192 | 0.22 | 1 | 10401 | PIAS3 |
| 0.175794722 | 0.010785241 | 0.222 | 1 | 9122 | SLC16A4 |
| 0.175781764 | 0.010791125 | 0.176 | 1 | 85416 | ZIC5 |
| 0.175766214 | 0.010798191 | 0.218 | 1 | 27238 | GPKOW |
| 0.175647002 | 0.010852493 | 0.204 | 1 | 63901 | FAM111A |
| 0.175516128 | 0.010912386 | 0.206 | 1 | 4778 | NFE2 |
| 0.175437085 | 0.0109487 | 0.226 | 1 | 255189 | PLA2G4F |
| 0.175240125 | 0.011039652 | 0.22 | 1 | 57469 | PNMAL2 |
| 0.175129984 | 0.011090804 | 0.236 | 1 | 5026 | P2RX5 |
| 0.175096293 | 0.011106492 | 0.198 | 1 | 8481 | OFD1 |
| 0.175043166 | 0.011131271 | 0.219 | 1 | 134288 | TMEM174 |
| 0.175030208 | 0.011137322 | 0.191 | 1 | 79762 | C1orf115 |
| 0.175023729 | 0.011140349 | 0.238 | 1 | 29080 | CCDC59 |
| 0.174975785 | 0.011162768 | 0.212 | 1 | 29966 | STRN3 |
| 0.174931728 | 0.011183405 | 0.223 | 1 | 5652 | PRSS8 |
| 0.17485139 | 0.011221124 | 0.22 | 1 | 642696 | AC007601.1 |
| 0.174831953 | 0.011230267 | 0.212 | 1 | 374403 | TBC1D10C |
| 0.174813812 | 0.011238805 | 0.211 | 1 | 27164 | SALL3 |
| 0.174710149 | 0.011287709 | 0.22 | 1 | 60676 | PAPPA2 |
| 0.174659613 | 0.011311617 | 0.237 | 1 | 26229 | B3GAT3 |
| 0.174647951 | 0.011317141 | 0.22 | 1 | 5524 | PPP2R4 |
| 0.17462981 | 0.011325738 | 0.23 | 1 | 100268168 | AC008429.1 |
| 0.174588345 | 0.01134541 | 0.242 | 1 | 56915 | EXOSC5 |
| 0.174491161 | 0.011391635 | 0.238 | 1 | 537 | ATP6AP1 |
| 0.174460062 | 0.011406462 | 0.2 | 1 | 23564 | DDAH2 |
| 0.174445809 | 0.011413263 | 0.248 | 1 | 54512 | EXOSC4 |
| 0.174428963 | 0.011421306 | 0.219 | 1 | 7916 | BAT2 |
| 0.174421189 | 0.01142502 | 0.263 | 1 | 328 | APEX1 |
| 0.174412118 | 0.011429354 | 0.237 | 1 | 4175 | MCM6 |
| 0.174356399 | 0.011456009 | 0.207 | 1 | 56985 | C17orf48 |
| 0.174344737 | 0.011461594 | 0.222 | 1 | 10066 | SCAMP2 |
| 0.174338258 | 0.011464699 | 0.231 | 1 | 23102 | TBC1D2B |
| 0.17429161 | 0.011487072 | 0.232 | 1 | 65990 | FAM173A |
| 0.174254032 | 0.011505122 | 0.244 | 1 | 100132644 | LOC100132644 |
| 0.174197018 | 0.011532557 | 0.189 | 1 | 79839 | CCDC102B |
| 0.174154257 | 0.011553171 | 0.242 | 1 | 56978 | PRDM8 |
| 0.174136116 | 0.011561926 | 0.217 | 1 | 27101 | CACYBP |
| 0.174132228 | 0.011563803 | 0.205 | 1 | 2134 | EXTL1 |
| 0.17410113 | 0.011578828 | 0.225 | 1 | 4126 | MANBA |
| 0.174035045 | 0.011610812 | 0.257 | 1 | 6388 | SDF2 |
| 0.173997467 | 0.011629034 | 0.208 | 1 | 11178 | LZTS1 |
| 0.173926199 | 0.011663663 | 0.201 | 1 | 64168 | NECAB1 |
| 0.173914536 | 0.011669338 | 0.222 | 1 | 4358 | MPV17 |
| 0.173883438 | 0.011684484 | 0.231 | 1 | 79693 | YRDC |
| 0.173871776 | 0.011690168 | 0.221 | 1 | 9310 | ZNF235 |

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| 0.075107037 | 1.1758E-151 | 11243 | PMF1 |
| 0.075098595 | 1.2708E-151 | 121441 | NEDD1 |
| 0.075095623 | 1.306E-151 | 1510 | CTSE |
| 0.075089739 | 1.3787E-151 | 3183 | HNRNPC |
| 0.075052543 | 1.9409E-151 | 56651 | LINC00470 |
| 0.075049367 | 1.9985E-151 | 150159 | NHEDC1 |
| 0.075048112 | 2.0216E-151 | 26696 | OR2T1 |
| 0.075047567 | 2.0318E-151 | 6643 | SNX2 |
| 0.075044204 | 2.0956E-151 | 23108 | GARNL4 |
| 0.075037956 | 2.2195E-151 | 440603 | BCL2L15 |
| 0.075032439 | 2.3349E-151 | 5890 | RAD51L1 |
| 0.075020112 | 2.615E-151 | 170960 | ZNF721 |
| 0.074998234 | 3.1973E-151 | 64403 | CDH24 |
| 0.074971722 | 4.0788E-151 | 27345 | KCNMB4 |
| 0.074907901 | 5.0064E-150 | 2823 | GPM6A |
| 0.07490741 | 7.3609E-151 | 7424 | VEGFC |
| 0.074874482 | 9.9569E-151 | 5106 | PCK2 |
| 0.074872661 | 1.0125E-150 | 1326 | MAP3K8 |
| 0.074857443 | 1.1641E-150 | 64792 | RABL5 |
| 0.074845921 | 1.2938E-150 | 2890 | GRIA1 |
| 0.074826908 | 1.5401E-150 | 8000 | PSCA |
| 0.074821783 | 1.6142E-150 | 51061 | TXNDC11 |
| 0.074799692 | 1.9764E-150 | 146310 | RNF151 |
| 0.07479231 | 2.1147E-150 | 7832 | BTG2 |
| 0.074783459 | 2.2933E-150 | 15 | AANAT |
| 0.074672238 | 6.3476E-150 | 147138 | TMC8 |
| 0.074652036 | 7.6357E-150 | 93611 | FBXO44 |
| 0.074648493 | 7.8871E-150 | 171558 | PTCRA |
| 0.074598555 | 1.245E-149 | 114926 | C8orf40 |
| 0.074579401 | 1.4831E-149 | 400765 | MIR2682 |
| 0.074574523 | 1.5506E-149 | 30820 | KCNIP1 |
| 0.074559599 | 1.7771E-149 | 57628 | DPP10 |
| 0.07454651 | 2.0027E-149 | 51538 | ZCCHC17 |
| 0.074543698 | 2.0548E-149 | 9256 | BZRAP1 |
| 0.074542035 | 2.0863E-149 | 23359 | FAM189A1 |
| 0.074511892 | 2.7471E-149 | 5917 | RARS |
| 0.074488243 | 3.4088E-149 | 10322 | SMYD5 |
| 0.074486691 | 3.4574E-149 | 118881 | COMTD1 |
| 0.074467948 | 4.1021E-149 | 55150 | C19orf73 |
| 0.074454661 | 4.6306E-149 | 260293 | CYP4X1 |
| 0.074448545 | 4.8962E-149 | 8715 | NOL4 |
| 0.074411678 | 6.8522E-149 | 808 | CALM3 |
| 0.074404265 | 7.3312E-149 | 386677 | KRTAP10-1 |
| 0.074379596 | 9.179E-149 | 158763 | RP13-102H20.1 |
| 0.074367309 | 1.1004E-148 | 4199 | ME1 |
| 0.074365471 | 1.0439E-148 | 142 | PARP1 |
| 0.074356625 | 1.1315E-148 | 7936 | RDBP |
| 0.074339182 | 1.3263E-148 | 23286 | WWC1 |
| 0.074311231 | 1.7107E-148 | 10522 | DEAF1 |
| 0.074306252 | 1.79E-148 | 10746 | MAP3K2 |
| 0.074304558 | 1.8178E-148 | 23705 | CADM1 |
| 0.07429969 | 1.9001E-148 | 999 | CDH1 |
| 0.074274572 | 2.3881E-148 | 26074 | C20orf26 |
| 0.074273355 | 2.4146E-148 | 247 | ALOX15B |
| 0.074272134 | 2.4416E-148 | 126014 | OSCAR |
| 0.07427156 | 2.4544E-148 | 728039 | SSR4P1 |
| 0.074217528 | 4.0118E-148 | 150921 | TCF23 |
| 0.074208555 | 4.3528E-148 | 10534 | SSSCA1 |
| 0.074188618 | 5.2175E-148 | 114825 | PWWP2A |
| 0.074187156 | 5.2872E-148 | 111 | ADCY5 |
| 0.074165017 | 6.4652E-148 | 23189 | KANK1 |
| 0.074161893 | 6.6513E-148 | 5787 | PTPRB |
| 0.074146671 | 7.6375E-148 | 118425 | RP11-610O8.1 |
| 0.074146247 | 7.667E-148 | 977 | CD151 |
| 0.074126668 | 9.1588E-148 | 283149 | BCL9L |
| 0.074121775 | 9.5748E-148 | 116085 | SLC22A12 |
| 0.074110502 | 1.0607E-147 | 57048 | PLSCR3 |
| 0.074065618 | 1.5939E-147 | 79807 | GSTCD |
| 0.074056478 | 1.7317E-147 | 221823 | PRPS1L1 |
| 0.074052955 | 1.7879E-147 | 653499 | LGALS7B |
| 0.074043108 | 1.955E-147 | 7223 | TRPC4 |
| 0.074028453 | 2.2328E-147 | 9626 | GUCA1C |
| 0.074022986 | 2.3463E-147 | 392309 | OR13J1 |
| 0.074016197 | 2.4952E-147 | 389741 | MGC21881 |
| 0.074007082 | 2.7102E-147 | 10893 | MMP24 |
| 0.074006433 | 2.7261E-147 | 337975 | KRTAP20-1 |
| 0.073992702 | 3.0874E-147 | 653857 | RP5-820A21.1 |
| 0.07397098 | 3.7591E-147 | 28983 | TMPRSS11E2 |
| 0.073914842 | 6.2501E-147 | 64857 | PLEKHG2 |
| 0.073883587 | 8.2937E-147 | 56241 | SUSD2 |
| 0.073846065 | 1.1646E-146 | 83888 | FGFBP2 |
| 0.073806259 | 1.6692E-146 | 84674 | CARD6 |

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| 0.173862705 | 0.01169459 | 0.23 | 1 | 5144 | PDE4D |
| 0.173797916 | 0.011726223 | 0.204 | 1 | 286207 | C9orf117 |
| 0.173791437 | 0.011729391 | 0.271 | 1 | 57182 | ANKRD50 |
| 0.173778479 | 0.011735728 | 0.216 | 1 | 5540 | PPYR1 |
| 0.173740901 | 0.011754123 | 0.236 | 1 | 136 | ADORA2B |
| 0.173700732 | 0.011773814 | 0.224 | 1 | 349667 | RTN4RL2 |
| 0.173616506 | 0.011815198 | 0.242 | 1 | 11148 | HHLA2 |
| 0.173546533 | 0.011849675 | 0.252 | 1 | 646576 | RP11-291L15.2 |
| 0.173451941 | 0.011896425 | 0.206 | 1 | 554226 | NCRNA00164 |
| 0.173427321 | 0.011908619 | 0.247 | 1 | 650 | BMP2 |
| 0.173402701 | 0.011920824 | 0.243 | 1 | 55056 | FLJ10038 |
| 0.173387152 | 0.011928539 | 0.214 | 1 | 65992 | DDRGK1 |
| 0.173354757 | 0.011944624 | 0.221 | 1 | 2907 | GRINA |
| 0.173291263 | 0.011976208 | 0.23 | 1 | 81502 | HM13 |
| 0.173089121 | 0.012077249 | 0.235 | 1 | 83636 | C19orf12 |
| 0.173085234 | 0.0120792 | 0.22 | 1 | 79600 | TCTN1 |
| 0.173076163 | 0.012083752 | 0.237 | 1 | 821 | CANX |
| 0.173074867 | 0.012084402 | 0.241 | 1 | 23508 | TTC9 |
| 0.173073571 | 0.012085053 | 0.234 | 1 | 26084 | RP11-23D24.1 |
| 0.173048952 | 0.012097418 | 0.235 | 1 | 285958 | C7orf40 |
| 0.172892161 | 0.012176422 | 0.241 | 1 | 113763 | C7orf29 |
| 0.172734076 | 0.01225654 | 0.22 | 1 | 54969 | C4orf27 |
| 0.17270816 | 0.012269719 | 0.222 | 1 | 23210 | JMJD6 |
| 0.172696498 | 0.012275653 | 0.199 | 1 | 5740 | PTGIS |
| 0.172653737 | 0.012297434 | 0.201 | 1 | 114991 | ZNF618 |
| 0.172623934 | 0.012312634 | 0.219 | 1 | 11238 | CA5B |
| 0.172588948 | 0.0123305 | 0.219 | 1 | 255349 | TMEM211 |
| 0.17256044 | 0.012345073 | 0.239 | 1 | 2281 | FKBP1B |
| 0.172544891 | 0.012353029 | 0.219 | 1 | 57482 | KIAA1211 |
| 0.172538412 | 0.012356345 | 0.173 | 1 | 91304 | C19orf6 |
| 0.17240365 | 0.012425501 | 0.235 | 1 | 10044 | SH2D3C |
| 0.172385509 | 0.012434836 | 0.238 | 1 | 27156 | RTDR1 |
| 0.172359594 | 0.012448183 | 0.246 | 1 | 4978 | AP000843.1 |
| 0.172336269 | 0.012460206 | 0.201 | 1 | 644242 | LOC644242 |
| 0.172325903 | 0.012465553 | 0.228 | 1 | 2078 | ERG |
| 0.172299987 | 0.012478929 | 0.231 | 1 | 124790 | HEXIM2 |
| 0.172233902 | 0.012513095 | 0.255 | 1 | 440712 | C1orf186 |
| 0.172113394 | 0.01257561 | 0.227 | 1 | 7295 | TXN |
| 0.172101732 | 0.012581675 | 0.213 | 1 | 3822 | KLRC2 |
| 0.172061563 | 0.012602583 | 0.228 | 1 | 8406 | SRPX |
| 0.171976041 | 0.012647199 | 0.241 | 1 | 3773 | KCNJ16 |
| 0.171915139 | 0.012679056 | 0.236 | 1 | 317781 | DDX51 |
| 0.171911252 | 0.012681092 | 0.24 | 1 | 8402 | SLC25A11 |
| 0.17181018 | 0.012734124 | 0.251 | 1 | 55084 | SOBP |
| 0.17176094 | 0.012760031 | 0.191 | 1 | 90139 | TSPAN18 |
| 0.171706517 | 0.012788719 | 0.208 | 1 | 3801 | KIFC3 |
| 0.171706517 | 0.012788719 | 0.208 | 1 | 11237 | RNF24 |
| 0.171685785 | 0.012799662 | 0.221 | 1 | 51063 | CALHM2 |
| 0.171606742 | 0.01284146 | 0.203 | 1 | 23046 | KIF21B |
| 0.171547136 | 0.01287306 | 0.254 | 1 | 645212 | LOC645212 |
| 0.171510854 | 0.012892328 | 0.205 | 1 | 254956 | MORN5 |
| 0.171499192 | 0.012898526 | 0.247 | 1 | 60673 | C12orf44 |
| 0.171499192 | 0.012898526 | 0.242 | 1 | 84560 | MT4 |
| 0.171495304 | 0.012900593 | 0.201 | 1 | 7105 | TSPAN6 |
| 0.171494009 | 0.012901282 | 0.232 | 1 | 83693 | HSDL1 |
| 0.171477163 | 0.012910242 | 0.217 | 1 | 2922 | GRP |
| 0.171421445 | 0.012939917 | 0.211 | 1 | 1326 | MAP3K8 |
| 0.171329444 | 0.012989048 | 0.237 | 1 | 152573 | SHISA3 |
| 0.171328148 | 0.012989741 | 0.246 | 1 | 115703 | SNX26 |
| 0.171242626 | 0.013035561 | 0.227 | 1 | 7923 | HSD17B8 |
| 0.171236147 | 0.013039038 | 0.247 | 1 | 4868 | NPHS1 |
| 0.171224485 | 0.013045298 | 0.23 | 1 | 81309 | OR4C15 |
| 0.171197274 | 0.013059917 | 0.21 | 1 | 84514 | GHDC |
| 0.171154513 | 0.013082918 | 0.234 | 1 | 93973 | ACTR8 |
| 0.171076766 | 0.013124829 | 0.219 | 1 | 54433 | GAR1 |
| 0.171065104 | 0.013131126 | 0.247 | 1 | 653635 | WASH5P |
| 0.17105992 | 0.013133925 | 0.233 | 1 | 151903 | CCDC12 |
| 0.171043075 | 0.013143027 | 0.218 | 1 | 7421 | VDR |
| 0.171013272 | 0.013159144 | 0.233 | 1 | 127343 | DMBX1 |
| 0.170980877 | 0.013176682 | 0.2 | 1 | 51310 | SLC22A17 |
| 0.170919976 | 0.013209709 | 0.204 | 1 | 7678 | ZNF124 |
| 0.170881102 | 0.013230828 | 0.25 | 1 | 11279 | KLF8 |
| 0.170791693 | 0.013279515 | 0.227 | 1 | 83877 | TM2D2 |
| 0.170776143 | 0.013287998 | 0.23 | 1 | 26996 | GPR160 |
| 0.170772256 | 0.01329012 | 0.211 | 1 | 56994 | CHPT1 |
| 0.17076189 | 0.013295779 | 0.213 | 1 | 57514 | CDGAP |
| 0.170741157 | 0.013307103 | 0.228 | 1 | 57088 | PLSCR4 |
| 0.170682847 | 0.013338998 | 0.219 | 1 | 11033 | ADAP1 |
| 0.170637494 | 0.013363852 | 0.236 | 1 | 149041 | RC3H1 |
| 0.170551972 | 0.01341083 | 0.251 | 1 | 10269 | ZMPSTE24 |
| 0.170498845 | 0.013440086 | 0.258 | 1 | 79659 | DYNC2H1 |
| 0.170440535 | 0.013472261 | 0.246 | 1 | 4171 | MCM2 |

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| 0.07379966 | 1.7717E-146 | 170685 | NUDT10 |
| 0.073791453 | 1.9082E-146 | 343450 | KCNT2 |
| 0.073771007 | 2.2954E-146 | 9358 | ITGBL1 |
| 0.073768392 | 2.3503E-146 | 126859 | C1orf125 |
| 0.073765387 | 2.415E-146 | 25896 | INTS7 |
| 0.07375727 | 2.5987E-146 | 26063 | DECR2 |
| 0.073738831 | 3.0697E-146 | 284800 | C20orf91 |
| 0.073736297 | 3.1407E-146 | 56913 | C1GALT1 |
| 0.073734225 | 3.2E-146 | 3852 | KRT5 |
| 0.073729033 | 3.3537E-146 | 100131187 | RP11-544M22.1 |
| 0.073704789 | 4.1743E-146 | 51130 | ASB3 |
| 0.073697881 | 4.4429E-146 | 8743 | TNFSF10 |
| 0.073695963 | 4.5205E-146 | 169166 | SNX31 |
| 0.073695073 | 4.5569E-146 | 27348 | TOR1B |
| 0.073686122 | 4.9404E-146 | 1890 | TYMP |
| 0.073648651 | 6.9277E-146 | 80153 | EDC3 |
| 0.07361478 | 9.4026E-146 | 10459 | MAD2L2 |
| 0.073598097 | 1.0929E-145 | 152789 | JAKMIP1 |
| 0.073594499 | 1.1289E-145 | 146227 | AC132186.2 |
| 0.073572954 | 1.3708E-145 | 79841 | AGBL2 |
| 0.073566036 | 1.459E-145 | 4676 | NAP1L4 |
| 0.073526093 | 2.0908E-145 | 43849 | KLK12 |
| 0.073517974 | 2.2493E-145 | 653604 | HIST2H3D |
| 0.073505367 | 2.5197E-145 | 3221 | HOXC4 |
| 0.073498782 | 2.6736E-145 | 6286 | S100P |
| 0.073464508 | 3.6396E-145 | 2302 | FOXJ1 |
| 0.073447978 | 4.2232E-145 | 2251 | FGF6 |
| 0.073438585 | 4.5955E-145 | 283687 | AC015871.2 |
| 0.073431629 | 4.8922E-145 | 54936 | ADPRHL2 |
| 0.073414623 | 5.7006E-145 | 6664 | SOX11 |
| 0.073394447 | 6.8344E-145 | 6675 | UAP1 |
| 0.073375939 | 8.0712E-145 | 339483 | MTMR9LP |
| 0.07334193 | 1.0956E-144 | 400830 | DEFB132 |
| 0.073329096 | 1.2294E-144 | 5649 | RELN |
| 0.073321067 | 1.3214E-144 | 3595 | IL12RB2 |
| 0.073319736 | 1.3372E-144 | 2203 | FBP1 |
| 0.073315027 | 1.395E-144 | 729956 | AC135592.2 |
| 0.073272892 | 2.0363E-144 | 387763 | C11orf96 |
| 0.073265885 | 2.1684E-144 | 2022 | ENG |
| 0.07322777 | 3.0524E-144 | 90678 | LRSAM1 |
| 0.073226092 | 3.0987E-144 | 641455 | AL589182.2 |
| 0.073211409 | 3.5347E-144 | 100272228 | RP13-507I23.1 |
| 0.073201814 | 1.8342E-143 | 283576 | ZDHHC22 |
| 0.073192266 | 4.1965E-144 | 9745 | ZNF536 |
| 0.073188428 | 4.3434E-144 | 79078 | C1orf50 |
| 0.073174895 | 4.9035E-144 | 55885 | LMO3 |
| 0.073168143 | 5.2094E-144 | 51706 | CYB5R1 |
| 0.073093024 | 1.0209E-143 | 353143 | LCE3B |
| 0.073082667 | 1.12E-143 | 9306 | SOCS6 |
| 0.073082332 | 1.1234E-143 | 146845 | WDR16 |
| 0.073081071 | 1.1362E-143 | 121512 | FGD4 |
| 0.073073181 | 1.2193E-143 | 345222 | MSANTD1 |
| 0.073065728 | 1.3034E-143 | 85477 | SCIN |
| 0.073031647 | 1.768E-143 | 283651 | HMGN2P46 |
| 0.072998464 | 2.3788E-143 | 100137047 | JMJD7 |
| 0.072996993 | 2.4103E-143 | 9862 | MED24 |
| 0.07298745 | 2.6249E-143 | 6541 | SLC7A1 |
| 0.072952514 | 3.5868E-143 | 6868 | ADAM17 |
| 0.072931812 | 4.3154E-143 | 29915 | HCFC2 |
| 0.072929539 | 4.4039E-143 | 23598 | PATZ1 |
| 0.072913022 | 5.1039E-143 | 1604 | CD55 |
| 0.07285648 | 8.4545E-143 | 4924 | NUCB1 |
| 0.072855371 | 8.5386E-143 | 81793 | TLR10 |
| 0.072848618 | 9.0688E-143 | 283212 | KLHL35 |
| 0.072834174 | 1.0316E-142 | 1662 | DDX10 |
| 0.072816106 | 1.212E-142 | 10927 | SPIN1 |
| 0.072799194 | 1.4092E-142 | 221044 | UCMA |
| 0.072789778 | 1.5327E-142 | 8632 | DNAH17 |
| 0.072773114 | 1.7781E-142 | 2091 | AC005393.1 |
| 0.072754168 | 2.1051E-142 | 100290481 | CYAT1 |
| 0.072733194 | 2.5376E-142 | 400242 | DICER1-AS |
| 0.072730019 | 2.6104E-142 | 58525 | WIZ |
| 0.072681662 | 4.0151E-142 | 56955 | MEPE |
| 0.072662519 | 4.7609E-142 | 644596 | LINC00087 |
| 0.072651809 | 5.2369E-142 | 55230 | USP40 |
| 0.072640711 | 5.7803E-142 | 5549 | PRELP |
| 0.0726405 | 5.7912E-142 | 1089 | CEACAM4 |
| 0.07263983 | 5.8258E-142 | 84306 | PDCD2L |
| 0.072635577 | 6.0504E-142 | 5252 | PHF1 |
| 0.072630447 | 6.3329E-142 | 116093 | DIRC1 |
| 0.072621889 | 6.8338E-142 | 84920 | ALG10 |
| 0.072617916 | 7.0795E-142 | 83879 | CDCA7 |

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| 0.170388703 | 0.013500918 | 0.23 | 1 | 375057 | C1orf95 |
| 0.170387408 | 0.013501635 | 0.249 | 1 | 114327 | EFHC1 |
| 0.170215068 | 0.013597309 | 0.229 | 1 | 84219 | WDR24 |
| 0.170213772 | 0.013598031 | 0.211 | 1 | 9840 | KIAA0748 |
| 0.170182673 | 0.013615359 | 0.232 | 1 | 728532 | LOC728532 |
| 0.170161941 | 0.013626922 | 0.222 | 1 | 3084 | NRG1 |
| 0.170113997 | 0.013653695 | 0.214 | 1 | 203068 | TUBB |
| 0.170112701 | 0.01365442 | 0.253 | 1 | 4490 | MT1B |
| 0.169983122 | 0.013727013 | 0.221 | 1 | 10022 | INSL5 |
| 0.169892417 | 0.01377803 | 0.228 | 1 | 100132911 | DPH3P1 |
| 0.169880755 | 0.013784602 | 0.251 | 1 | 116138 | KLHDC3 |
| 0.169876868 | 0.013786793 | 0.226 | 1 | 58489 | FAM108C1 |
| 0.169865206 | 0.013793368 | 0.25 | 1 | 10807 | SDCCAG3 |
| 0.169865206 | 0.013793368 | 0.207 | 1 | 25886 | WDR51A |
| 0.169832811 | 0.013811647 | 0.246 | 1 | 56005 | C19orf10 |
| 0.169806896 | 0.013826285 | 0.254 | 1 | 26091 | HERC4 |
| 0.169800417 | 0.013829946 | 0.216 | 1 | 1949 | EFNB3 |
| 0.169751177 | 0.013857803 | 0.232 | 1 | 6302 | TSPAN31 |
| 0.169747289 | 0.013860004 | 0.252 | 1 | 55282 | LRRC36 |
| 0.169692866 | 0.013890855 | 0.208 | 1 | 4185 | ADAM11 |
| 0.169688979 | 0.013893061 | 0.235 | 1 | 29102 | RNASEN |
| 0.169600866 | 0.013943144 | 0.23 | 1 | 3228 | HOXC12 |
| 0.169590499 | 0.013949046 | 0.257 | 1 | 22950 | SLC4A1AP |
| 0.1695594 | 0.013966767 | 0.214 | 1 | 80206 | FHOD3 |
| 0.169454442 | 0.01402672 | 0.239 | 1 | 8638 | OASL |
| 0.16945185 | 0.014028204 | 0.254 | 1 | 732253 | RP11-535K1.1 |
| 0.169435005 | 0.014037848 | 0.231 | 1 | 3586 | IL10 |
| 0.169343004 | 0.014090622 | 0.222 | 1 | 6764 | ST5 |
| 0.169328751 | 0.014098814 | 0.245 | 1 | 810 | CALML3 |
| 0.169273032 | 0.014130877 | 0.226 | 1 | 1312 | COMT |
| 0.169240637 | 0.014149547 | 0.234 | 1 | 26071 | FAM127B |
| 0.169227679 | 0.014157021 | 0.22 | 1 | 26502 | NARF |
| 0.169168073 | 0.014191448 | 0.239 | 1 | 54622 | ARL15 |
| 0.169147341 | 0.014203439 | 0.238 | 1 | 5156 | PDGFRA |
| 0.169083847 | 0.014240219 | 0.234 | 1 | 25813 | SAMM50 |
| 0.168994438 | 0.014292152 | 0.251 | 1 | 25822 | DNAJB5 |
| 0.168962043 | 0.01431101 | 0.254 | 1 | 727851 | RGPD8 |
| 0.168853197 | 0.01437453 | 0.241 | 1 | 221468 | TMEM217 |
| 0.168815619 | 0.014396517 | 0.238 | 1 | 55072 | RNF31 |
| 0.168803957 | 0.014403347 | 0.262 | 1 | 49855 | SCAPER |
| 0.168759901 | 0.014429173 | 0.241 | 1 | 1454 | CSNK1E |
| 0.16871714 | 0.014454279 | 0.249 | 1 | 7226 | TRPM2 |
| 0.168695111 | 0.014467227 | 0.234 | 1 | 284293 | HMSD |
| 0.168691224 | 0.014469513 | 0.196 | 1 | 84960 | KIAA1984 |
| 0.168635505 | 0.014502314 | 0.233 | 1 | 8357 | HIST1H3H |
| 0.168538321 | 0.014559681 | 0.231 | 1 | 11021 | RAB35 |
| 0.168525363 | 0.014567345 | 0.251 | 1 | 11186 | RASSF1 |
| 0.168496856 | 0.014584218 | 0.211 | 1 | 91050 | CCDC149 |
| 0.16848649 | 0.014590358 | 0.24 | 1 | 440132 | LINC00545 |
| 0.168345249 | 0.014674241 | 0.269 | 1 | 10170 | DHRS9 |
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| 0.168229924 | 0.014743046 | 0.235 | 1 | 84631 | SLITRK2 |
| 0.168183276 | 0.014770957 | 0.222 | 1 | 79639 | TMEM53 |
| 0.168174205 | 0.01477639 | 0.247 | 1 | 150372 | NFAM1 |
| 0.168158656 | 0.014785707 | 0.275 | 1 | 23742 | C15orf2 |
| 0.168110712 | 0.014814467 | 0.225 | 1 | 9423 | NTN1 |
| 0.16809905 | 0.01482147 | 0.237 | 1 | 23118 | MAP3K7IP2 |
| 0.167933189 | 0.014921384 | 0.221 | 1 | 124930 | ANKRD13B |
| 0.167929302 | 0.014923733 | 0.222 | 1 | 28951 | TRIB2 |
| 0.167895611 | 0.014944103 | 0.264 | 1 | 23040 | MYT1L |
| 0.167874879 | 0.01495665 | 0.268 | 1 | 376132 | LRRC10 |
| 0.167860625 | 0.014965282 | 0.233 | 1 | 642852 | LOC642852 |
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| 0.167808794 | 0.014996707 | 0.247 | 1 | 7917 | BAT3 |
| 0.167808794 | 0.014996707 | 0.23 | 1 | 374650 | GOLGA6L5 |
| 0.167771216 | 0.015019526 | 0.241 | 1 | 1463 | NCAN |
| 0.167771216 | 0.015019526 | 0.241 | 1 | 9862 | MED24 |
| 0.16776992 | 0.015020313 | 0.239 | 1 | 10561 | IFI44 |
| 0.167744005 | 0.015036069 | 0.25 | 1 | 2571 | GAD1 |
| 0.167712906 | 0.015054995 | 0.246 | 1 | 644762 | LOC644762 |
| 0.167699948 | 0.015062887 | 0.254 | 1 | 83401 | ELOVL3 |
| 0.167644229 | 0.015096864 | 0.249 | 1 | 10755 | GIPC1 |
| 0.167607947 | 0.015119024 | 0.24 | 1 | 51024 | FIS1 |
| 0.167598877 | 0.015124569 | 0.24 | 1 | 53826 | FXYD6 |
| 0.167545749 | 0.01515708 | 0.232 | 1 | 282996 | RBM20 |
| 0.167453749 | 0.015213524 | 0.252 | 1 | 22846 | VASH1 |
| 0.167394142 | 0.015250192 | 0.252 | 1 | 80759 | KHDC1 |
| 0.167359156 | 0.015271751 | 0.208 | 1 | 254013 | C12orf72 |
| 0.167341015 | 0.01528294 | 0.224 | 1 | 5167 | ENPP1 |
| 0.16732417 | 0.015293336 | 0.242 | 1 | 4067 | LYN |
| 0.167273634 | 0.015324561 | 0.229 | 1 | 720 | C4A |
| 0.167211437 | 0.01536307 | 0.23 | 1 | 26519 | TIMM10 |

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| 0.072603762 | 8.0291E-142 | 60489 | APOBEC3G |
| 0.072603382 | 8.0563E-142 | 84167 | C19orf44 |
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| 0.072579336 | 9.9763E-142 | 100288165 | HMGN2P15 |
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| 0.07252765 | 1.5791E-141 | 3227 | HOXC11 |
| 0.072517956 | 1.7211E-141 | 92714 | ARRDC1 |
| 0.07244171 | 3.3863E-141 | 4808 | NHLH2 |
| 0.072441521 | 3.392E-141 | 23349 | KIAA1045 |
| 0.072423438 | 3.9821E-141 | 6347 | CCL2 |
| 0.072415406 | 4.2761E-141 | 414918 | FAM116B |
| 0.072411623 | 4.422E-141 | 100287822 | SETP10 |
| 0.072401055 | 4.8564E-141 | 112817 | NPL2 |
| 0.072398762 | 4.9562E-141 | 147710 | AC138472.2 |
| 0.072398591 | 4.9637E-141 | 414318 | C9orf106 |
| 0.072376881 | 6.0171E-141 | 55544 | RBM38 |
| 0.072343985 | 8.0535E-141 | 57685 | CACHD1 |
| 0.072314123 | 1.0492E-140 | 720 | C4A |
| 0.072312542 | 1.064E-140 | 27285 | TEKT2 |
| 0.072310028 | 1.0879E-140 | 115825 | WDFY2 |
| 0.072298688 | 1.2029E-140 | 117156 | SCGB3A2 |
| 0.072297863 | 1.2117E-140 | 389827 | TMEM8C |
| 0.072293813 | 1.2559E-140 | 285659 | OR2V2 |
| 0.07229218 | 1.2742E-140 | 2994 | GYPB |
| 0.072234672 | 2.1196E-140 | 85359 | DGCR6L |
| 0.072208977 | 2.6604E-140 | 22871 | NLGN1 |
| 0.07219068 | 3.1276E-140 | 338328 | GPIHBP1 |
| 0.072182156 | 3.3723E-140 | 137835 | TMEM71 |
| 0.072181771 | 3.3838E-140 | 340533 | KIAA2022 |
| 0.072174914 | 3.5952E-140 | 26226 | FBXW4P1 |
| 0.07214213 | 4.8033E-140 | 643198 | RBPJP6 |
| 0.072124688 | 5.6034E-140 | 50804 | MYEF2 |
| 0.072104437 | 6.7008E-140 | 441094 | AC106818.2 |
| 0.07209963 | 6.9912E-140 | 89781 | HPS4 |
| 0.072059392 | 9.9725E-140 | 9184 | BUB3 |
| 0.072043771 | 1.1446E-139 | 9215 | LARGE |
| 0.072032545 | 1.2638E-139 | 10129 | FRY |
| 0.072026286 | 1.3355E-139 | 83943 | IMMP2L |
| 0.071973114 | 2.1343E-139 | 6856 | SYPL1 |
| 0.071961135 | 2.3719E-139 | 441818 | WBP11P1 |
| 0.071949192 | 2.6351E-139 | 5518 | PPP2R1A |
| 0.071929388 | 3.1374E-139 | 26149 | ZNF658 |
| 0.071840764 | 3.0373E-138 | 6326 | SCN2A |
| 0.071835775 | 7.1522E-139 | 5158 | PDE6B |
| 0.071834702 | 7.2199E-139 | 78998 | C8ORF51 |
| 0.071834634 | 7.2243E-139 | 221895 | JAZF1 |
| 0.071814967 | 8.5885E-139 | 401082 | FLJ25363 |
| 0.071804805 | 9.3914E-139 | 124930 | ANKRD13B |
| 0.071803312 | 9.5154E-139 | 3013 | HIST1H2AD |
| 0.071800918 | 9.7179E-139 | 4052 | LTBP1 |
| 0.071790803 | 1.0622E-138 | 84894 | LINGO1 |
| 0.071784985 | 1.1179E-138 | 149647 | FAM71A |
| 0.071783591 | 1.1317E-138 | 63977 | PRDM15 |
| 0.071779012 | 1.1782E-138 | 9725 | TMEM63A |
| 0.071777073 | 1.1984E-138 | 3275 | PRMT2 |
| 0.071767993 | 1.298E-138 | 9379 | NRXN2 |
| 0.071755783 | 1.445E-138 | 23252 | OTUD3 |
| 0.071755294 | 6.2851E-138 | 8900 | CCNA1 |
| 0.071751452 | 1.501E-138 | 3118 | HLA-DQA2 |
| 0.071739832 | 1.6624E-138 | 254887 | ZDHHC23 |
| 0.071708363 | 2.1973E-138 | 2731 | GLDC |
| 0.071707676 | 2.2048E-138 | 1491 | CTH |
| 0.071699954 | 2.3595E-138 | 1293 | COL6A3 |
| 0.071691903 | 2.5323E-138 | 51535 | PPHLN1 |
| 0.071654653 | 3.5116E-138 | 653145 | ANXA8 |
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| 0.071621766 | 4.6859E-138 | 7273 | TTN |
| 0.071613233 | 5.0501E-138 | 116840 | CNTROB |
| 0.071589915 | 6.1956E-138 | 6524 | SLC5A2 |
| 0.071586181 | 6.4018E-138 | 7626 | ZNF75D |
| 0.071578183 | 6.8667E-138 | 400456 | CTD-2536I1.1 |
| 0.071557511 | 8.2305E-138 | 100288797 | RP5-860F19.1 |
| 0.071491565 | 1.4664E-137 | 7916 | BAT2 |
| 0.07149107 | 1.4728E-137 | 90139 | TSPAN18 |
| 0.071484951 | 1.5538E-137 | 341405 | ANKRD33 |
| 0.071456813 | 1.9877E-137 | 440836 | ODF3B |
| 0.071453082 | 2.0537E-137 | 1839 | HBEGF |
| 0.071444837 | 2.2073E-137 | 92104 | TTC30A |
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| 0.167208845 | 0.015364676 | 0.24 | 1 | 4085 | MAD2L1 |
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| 0.167102591 | 0.015430663 | 0.209 | 1 | 3026 | HABP2 |
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| 0.166897856 | 0.015558508 | 0.215 | 1 | 29100 | TMEM208 |
| 0.166881011 | 0.015569068 | 0.212 | 1 | 9111 | NMI |
| 0.166754024 | 0.015648877 | 0.215 | 1 | 10286 | BCAS2 |
| 0.166698305 | 0.015684008 | 0.238 | 1 | 1537 | CYC1 |
| 0.166691827 | 0.015688097 | 0.256 | 1 | 11083 | DIDO1 |
| 0.166689235 | 0.015689733 | 0.238 | 1 | 23214 | XPO6 |
| 0.166654249 | 0.015711835 | 0.264 | 1 | 51101 | ZC2HC1A |
| 0.166654249 | 0.015711835 | 0.229 | 1 | 138428 | PTRH1 |
| 0.166602417 | 0.015744627 | 0.236 | 1 | 117154 | DACH2 |
| 0.166593347 | 0.015750372 | 0.223 | 1 | 26260 | FBXO25 |
| 0.166519487 | 0.01579722 | 0.246 | 1 | 728 | C5AR1 |
| 0.166505233 | 0.015806275 | 0.275 | 1 | 84779 | NAA11 |
| 0.166503938 | 0.015807098 | 0.267 | 1 | 54623 | PAF1 |
| 0.166502642 | 0.015807922 | 0.264 | 1 | 170679 | PSORS1C1 |
| 0.166474134 | 0.015826047 | 0.233 | 1 | 9757 | AD000671.1 |
| 0.166400275 | 0.015873091 | 0.228 | 1 | 157 | ADRBK2 |
| 0.16636788 | 0.015893763 | 0.242 | 1 | 55781 | RIOK2 |
| 0.166317344 | 0.015926059 | 0.27 | 1 | 55164 | SHQ1 |
| 0.166306978 | 0.015932691 | 0.239 | 1 | 5075 | PAX1 |
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| 0.166246076 | 0.015971702 | 0.244 | 1 | 51533 | PHF7 |
| 0.16621109 | 0.01599415 | 0.263 | 1 | 9576 | SPAG6 |
| 0.166167033 | 0.016022457 | 0.258 | 1 | 2593 | GAMT |
| 0.166135934 | 0.016042465 | 0.235 | 1 | 10548 | TM9SF1 |
| 0.166115202 | 0.016055816 | 0.266 | 1 | 7158 | TP53BP1 |
| 0.16603875 | 0.016105131 | 0.272 | 1 | 83546 | RTBDN |
| 0.165981736 | 0.016141994 | 0.238 | 1 | 60626 | RIC8A |
| 0.165966186 | 0.016152061 | 0.23 | 1 | 116931 | MED12L |
| 0.165949341 | 0.016162972 | 0.219 | 1 | 4284 | MIP |
| 0.165945454 | 0.016165491 | 0.247 | 1 | 7905 | REEP5 |
| 0.16592213 | 0.016180612 | 0.26 | 1 | 3577 | IL8RA |
| 0.16579903 | 0.016260622 | 0.252 | 1 | 26024 | PTCD1 |
| 0.165751086 | 0.016291878 | 0.255 | 1 | 5525 | PPP2R5A |
| 0.165701846 | 0.016324032 | 0.23 | 1 | 51166 | AADAT |
| 0.165699255 | 0.016325726 | 0.251 | 1 | 340533 | KIAA2022 |
| 0.165681114 | 0.016337588 | 0.256 | 1 | 6495 | SIX1 |
| 0.165576155 | 0.016406363 | 0.257 | 1 | 1908 | EDN3 |
| 0.16553469 | 0.016433603 | 0.234 | 1 | 120114 | FAT3 |
| 0.165507478 | 0.0164515 | 0.218 | 1 | 1621 | DBH |
| 0.165464717 | 0.01647966 | 0.237 | 1 | 1947 | EFNB1 |
| 0.165442689 | 0.016494183 | 0.241 | 1 | 83592 | AKR1CL2 |
| 0.165358463 | 0.016549814 | 0.269 | 1 | 641455 | AL589182.2 |
| 0.165318294 | 0.016576404 | 0.268 | 1 | 5729 | PTGDR |
| 0.165161504 | 0.016680546 | 0.259 | 1 | 6261 | RYR1 |
| 0.165138179 | 0.016696087 | 0.226 | 1 | 23646 | PLD3 |
| 0.165009897 | 0.016781789 | 0.259 | 1 | 57089 | ENTPD7 |
| 0.164934741 | 0.016832176 | 0.247 | 1 | 84695 | LOXL3 |
| 0.164895867 | 0.01685829 | 0.226 | 1 | 115950 | ZNF653 |
| 0.164820712 | 0.016908877 | 0.253 | 1 | 643834 | PGA3 |
| 0.164698908 | 0.016991146 | 0.231 | 1 | 348378 | FAM159A |
| 0.16468595 | 0.016999918 | 0.26 | 1 | 84733 | CBX2 |
| 0.164684654 | 0.017000796 | 0.282 | 1 | 8703 | B4GALT3 |
| 0.164672992 | 0.017008695 | 0.27 | 1 | 57415 | C3orf14 |
| 0.164669105 | 0.017011328 | 0.254 | 1 | 79778 | MICALL2 |
| 0.164615978 | 0.017047358 | 0.238 | 1 | 51751 | HIGD1B |
| 0.164604316 | 0.017055276 | 0.233 | 1 | 22875 | ENPP4 |
| 0.16460302 | 0.017056155 | 0.283 | 1 | 91694 | LONRF1 |
| 0.164503244 | 0.017124031 | 0.256 | 1 | 1003 | CDH5 |
| 0.164442342 | 0.017165577 | 0.279 | 1 | 79183 | TTPAL |
| 0.164438455 | 0.017168232 | 0.225 | 1 | 153572 | IRX2 |
| 0.164415131 | 0.017184169 | 0.216 | 1 | 5138 | PDE2A |
| 0.164376257 | 0.017210759 | 0.249 | 1 | 25934 | NIPSNAP3A |
| 0.16437237 | 0.01721342 | 0.24 | 1 | 5731 | PTGER1 |
| 0.164327017 | 0.017244491 | 0.248 | 1 | 90102 | PHLDB2 |
| 0.164263524 | 0.017288073 | 0.242 | 1 | 3045 | HBD |
| 0.164216876 | 0.017320154 | 0.232 | 1 | 84303 | CHCHD6 |
| 0.164202622 | 0.017329966 | 0.239 | 1 | 6904 | TBCD |
| 0.164086001 | 0.017410435 | 0.257 | 1 | 375775 | PNPLA7 |
| 0.163990113 | 0.017476841 | 0.249 | 1 | 219738 | C10orf35 |
| 0.163971972 | 0.017489429 | 0.266 | 1 | 10307 | APBB3 |
| 0.163955127 | 0.017501126 | 0.27 | 1 | 56063 | C1orf91 |
| 0.163949944 | 0.017504726 | 0.249 | 1 | 54555 | DDX49 |
| 0.163868309 | 0.017561514 | 0.244 | 1 | 10446 | LRRN2 |
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| 0.163793154 | 0.017613937 | 0.232 | 1 | 11119 | BTN3A1 |
| 0.163721885 | 0.017663774 | 0.215 | 1 | 145773 | FAM81A |
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| 0.071330754 | 5.9835E-137 | 2149 | F2R |
| 0.071321189 | 6.5049E-137 | 1043 | CD52 |
| 0.071308909 | 7.2412E-137 | 55317 | C20orf29 |
| 0.071292948 | 8.3239E-137 | 2593 | GAMT |
| 0.071273586 | 9.8566E-137 | 51307 | FAM53C |
| 0.071273272 | 9.8836E-137 | 3889 | KRT83 |
| 0.071250919 | 1.2012E-136 | 94032 | CAMK2N2 |
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| 0.071223725 | 1.5228E-136 | 55851 | PSENEN |
| 0.071200969 | 1.857E-136 | 29937 | NENF |
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| 0.07109953 | 4.4939E-136 | 2348 | FOLR1 |
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| 0.071062785 | 6.1875E-136 | 1392 | CRH |
| 0.071057365 | 6.4863E-136 | 3117 | HLA-DQA1 |
| 0.07105466 | 6.6408E-136 | 56134 | PCDHAC2 |
| 0.071049636 | 6.9375E-136 | 79915 | ATAD5 |
| 0.071045245 | 7.2076E-136 | 152404 | IGSF11 |
| 0.071040833 | 7.4897E-136 | 164633 | CABP7 |
| 0.071025512 | 8.5572E-136 | 145173 | B3GALTL |
| 0.071025299 | 8.5731E-136 | 781 | CACNA2D1 |
| 0.07100619 | 1.0123E-135 | 80304 | C2orf44 |
| 0.071005216 | 1.0209E-135 | 51478 | HSD17B7 |
| 0.070999183 | 1.0759E-135 | 100288198 | LOC100288198 |
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| 0.070874703 | 3.1719E-135 | 26275 | HIBCH |
| 0.070860364 | 3.5922E-135 | 3216 | HOXB6 |
| 0.070828659 | 4.7293E-135 | 56287 | GKN1 |
| 0.07081947 | 5.1216E-135 | 2161 | F12 |
| 0.070810694 | 5.5265E-135 | 127281 | C1orf93 |
| 0.070800302 | 6.0476E-135 | 23031 | MAST3 |
| 0.070742396 | 9.9885E-135 | 705 | BYSL |
| 0.070741183 | 1.0094E-134 | 670 | BPHL |
| 0.070712486 | 1.2942E-134 | 55063 | ZCWPW1 |
| 0.07070616 | 1.367E-134 | 63914 | C6orf164 |
| 0.070696658 | 1.4842E-134 | 7681 | MKRN3 |
| 0.070691716 | 1.5491E-134 | 409 | ARRB2 |
| 0.070682411 | 1.679E-134 | 255928 | SYT14 |
| 0.070680824 | 1.7022E-134 | 4588 | MUC6 |
| 0.070671963 | 1.8379E-134 | 4897 | NRCAM |
| 0.070659935 | 2.0395E-134 | 119032 | C10orf32 |
| 0.070657553 | 2.082E-134 | 283303 | C11ORF36 |
| 0.07063778 | 2.4703E-134 | 9871 | SEC24D |
| 0.070613011 | 3.0604E-134 | 187 | APLNR |
| 0.070612287 | 3.0796E-134 | 8971 | H1FX |
| 0.070585676 | 3.8761E-134 | 202459 | OSTCP1 |
| 0.070531055 | 6.2134E-134 | 93377 | OPALIN |
| 0.070518306 | 6.9364E-134 | 285093 | CXXC11 |
| 0.070514934 | 7.1414E-134 | 23327 | NEDD4L |
| 0.070498532 | 8.2276E-134 | 8312 | AXIN1 |
| 0.070479108 | 9.7293E-134 | 57101 | ANO2 |
| 0.070470483 | 1.0481E-133 | 8935 | SKAP2 |
| 0.070466981 | 1.0803E-133 | 64072 | CDH23 |
| 0.070375397 | 2.3794E-133 | 9070 | ASH2L |
| 0.07036372 | 2.6312E-133 | 9501 | RPH3AL |
| 0.070338443 | 3.2713E-133 | 9212 | AURKB |
| 0.070330562 | 3.501E-133 | 157769 | FAM91A1 |
| 0.070329635 | 3.5291E-133 | 342931 | RFPL4A |
| 0.070328837 | 3.5534E-133 | 4094 | MAF |
| 0.070320612 | 3.8142E-133 | 5926 | ARID4A |
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| 0.16305326 | 0.018137358 | 0.254 | 1 | 2542 | SLC37A4 |
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| 0.162974217 | 0.018194068 | 0.256 | 1 | 55011 | PIH1D1 |
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| 0.069535449 | 3.1681E-130 | 353141 | LCE2D |
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| 0.068516728 | 1.7356E-126 | 196549 | EEF1DP3 |
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| 0.06694555 | 7.8842E-121 | 8988 | HSPB3 |
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| 0.149241479 | 0.030707117 | 0.293 | 1 | 8859 | STK19 |
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| 0.148680404 | 0.031345865 | 0.282 | 1 | 474344 | GIMAP6 |
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| 0.061329741 | 1.0957E-101 | 131831 | C3orf44 |
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| 0.060051182 | 4.97441E-97 | 143903 | LAYN |
| 0.060024081 | 1.77552E-97 | 54847 | SIDT1 |
| 0.060019063 | 1.84216E-97 | 158046 | NXNL2 |
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| 0.059991945 | 2.24798E-97 | 25894 | PLEKHG4 |
| 0.059929429 | 3.55602E-97 | 374920 | C19orf68 |
| 0.059928483 | 3.58079E-97 | 284340 | CXCL17 |
| 0.05992566 | 3.65567E-97 | 389384 | C6orf222 |
| 0.059921979 | 3.75566E-97 | 2512 | FTL |
| 0.059903524 | 4.29971E-97 | 25 | ABL1 |
| 0.059858462 | 5.98153E-97 | 6239 | RREB1 |
| 0.059856896 | 6.05052E-97 | 6002 | RGS12 |
| 0.05983341 | 7.18582E-97 | 51564 | HDAC7 |
| 0.059779574 | 1.0655E-96 | 8434 | RECK |
| 0.05976384 | 1.19543E-96 | 3351 | HTR1B |
| 0.059729056 | 1.54151E-96 | 131873 | AC128683.1 |
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| 0.059685973 | 2.11167E-96 | 3659 | IRF1 |
| 0.059679855 | 2.20815E-96 | 219869 | OR10G8 |
| 0.05966306 | 2.49619E-96 | 100128511 | RP11-565H13.2 |
| 0.059650457 | 2.73671E-96 | 100127983 | RP11-122A3.2 |
| 0.059590776 | 4.2295E-96 | 54957 | TXNL4B |
| 0.059569928 | 4.92366E-96 | 1781 | DYNC1I2 |
| 0.059569358 | 1.56838E-95 | 94 | ACVRL1 |
| 0.059558549 | 5.34935E-96 | 147011 | PROCA1 |
| 0.059554211 | 5.52116E-96 | 790955 | C11orf83 |
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| 0.059535283 | 6.33745E-96 | 84460 | ZMAT1 |
| 0.059527252 | 6.71921E-96 | 51058 | ZNF691 |
| 0.059495484 | 8.46778E-96 | 6252 | RTN1 |
| 0.059484628 | 9.16396E-96 | 8943 | AP3D1 |
| 0.059480229 | 9.46209E-96 | 285193 | DUSP28 |
| 0.059473906 | 9.90759E-96 | 94121 | SYTL4 |
| 0.059472552 | 1.00057E-95 | 828 | CAPS |
| 0.059471953 | 1.00494E-95 | 4795 | NFKBIL1 |
| 0.059461884 | 1.08132E-95 | 9854 | C2CD2L |
| 0.059457326 | 1.11778E-95 | 63951 | DMRTA1 |
| 0.059452128 | 1.16085E-95 | 80758 | PRR7 |
| 0.059450216 | 1.1771E-95 | 11100 | HNRNPUL1 |
| 0.059442754 | 1.24275E-95 | 221749 | C6orf145 |
| 0.059432964 | 1.33445E-95 | 84948 | TIGD5 |
| 0.059400341 | 1.69158E-95 | 389383 | C6orf126 |

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| 0.139418127 | 0.043642239 | 0.34 | 1 | 55150 | C19orf73 |
| 0.139411648 | 0.043652087 | 0.35 | 1 | 57175 | CORO1B |
| 0.139354634 | 0.043738832 | 0.321 | 1 | 27241 | BBS9 |
| 0.139305394 | 0.043813866 | 0.322 | 1 | 4946 | OAZ1 |
| 0.139239309 | 0.043914738 | 0.328 | 1 | 440400 | RNASEK |
| 0.13907604 | 0.044164788 | 0.337 | 1 | 5357 | PLS1 |
| 0.139039758 | 0.044220517 | 0.334 | 1 | 554206 | LOC554206 |
| 0.138994405 | 0.04429026 | 0.326 | 1 | 2821 | GPI |
| 0.138987927 | 0.044300231 | 0.331 | 1 | 283431 | GAS2L3 |
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| 0.138934799 | 0.044382064 | 0.313 | 1 | 6651 | SON |
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| 0.138819474 | 0.044560138 | 0.368 | 1 | 30008 | EFEMP2 |
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| 0.138789671 | 0.044606254 | 0.32 | 1 | 55633 | TBC1D22B |
| 0.138752094 | 0.044664458 | 0.34 | 1 | 11313 | LYPLA2 |
| 0.13872229 | 0.044710665 | 0.34 | 1 | 619279 | ZNF704 |
| 0.138720995 | 0.044712675 | 0.309 | 1 | 969 | CD69 |
| 0.138660093 | 0.044807226 | 0.331 | 1 | 84063 | KIRREL2 |
| 0.138631585 | 0.044851541 | 0.348 | 1 | 730098 | RP11-195F19.5 |
| 0.138627698 | 0.044857587 | 0.354 | 1 | 284069 | FAM171A2 |
| 0.138622515 | 0.044865649 | 0.317 | 1 | 10105 | PPIF |
| 0.138601782 | 0.044897911 | 0.32 | 1 | 1400 | CRMP1 |
| 0.138578458 | 0.044934228 | 0.333 | 1 | 2987 | GUK1 |
| 0.138560317 | 0.044962491 | 0.34 | 1 | 55086 | CXorf57 |
| 0.1384735 | 0.045097959 | 0.333 | 1 | 84557 | MAP1LC3A |
| 0.138468316 | 0.045106057 | 0.328 | 1 | 85460 | ZNF518B |
| 0.138439809 | 0.045150621 | 0.327 | 1 | 558 | AXL |
| 0.138429443 | 0.045166835 | 0.328 | 1 | 79143 | LENG4 |
| 0.138426851 | 0.045170889 | 0.335 | 1 | 147807 | ZNF524 |
| 0.13839964 | 0.045213477 | 0.344 | 1 | 254863 | C17orf61 |
| 0.13837502 | 0.045252038 | 0.315 | 1 | 375133 | PI1KAP2 |
| 0.138356879 | 0.045280469 | 0.383 | 1 | 51760 | SYT17 |
| 0.138310231 | 0.045353646 | 0.34 | 1 | 23135 | KDM6B |
| 0.138280427 | 0.04540045 | 0.337 | 1 | 57223 | SMEK2 |
| 0.138235075 | 0.045471752 | 0.354 | 1 | 128439 | SNHG11 |
| 0.138226004 | 0.045486023 | 0.309 | 1 | 23541 | SEC14L2 |
| 0.138210455 | 0.045510497 | 0.351 | 1 | 8504 | PEX3 |
| 0.13820268 | 0.045522738 | 0.328 | 1 | 6237 | RRAS |
| 0.138135299 | 0.045628945 | 0.323 | 1 | 2328 | FMO3 |
| 0.138102905 | 0.045680079 | 0.329 | 1 | 5191 | PEX7 |
| 0.13808606 | 0.045706688 | 0.345 | 1 | 1576 | CYP3A4 |
| 0.138039411 | 0.045780442 | 0.325 | 1 | 79366 | NSBP1 |
| 0.137991467 | 0.045856348 | 0.346 | 1 | 51506 | UFC1 |
| 0.137915016 | 0.045977607 | 0.333 | 1 | 79077 | DCTPP1 |
| 0.137908537 | 0.045987895 | 0.322 | 1 | 57826 | RAP2C |
| 0.13790465 | 0.045994069 | 0.363 | 1 | 91107 | TRIM47 |
| 0.137873551 | 0.046043486 | 0.326 | 1 | 54553 | DKFZP434I0714 |
| 0.137798395 | 0.046163094 | 0.334 | 1 | 284106 | CISD3 |
| 0.137776367 | 0.046198201 | 0.317 | 1 | 374395 | TMEM179B |
| 0.137766001 | 0.04621473 | 0.345 | 1 | 22913 | RALY |
| 0.137758226 | 0.046227129 | 0.324 | 1 | 390213 | DOC2GP |
| 0.13774786 | 0.046243667 | 0.338 | 1 | 2959 | GTF2B |
| 0.137737493 | 0.046260209 | 0.33 | 1 | 137814 | NKX2-6 |
| 0.137728423 | 0.046274687 | 0.308 | 1 | 112840 | WDR89 |
| 0.137714169 | 0.046297447 | 0.375 | 1 | 64359 | NXN |
| 0.137681774 | 0.046349208 | 0.33 | 1 | 27065 | AC110814.1 |
| 0.137661042 | 0.046382361 | 0.328 | 1 | 80279 | CDK5RAP3 |
| 0.137579407 | 0.046513092 | 0.337 | 1 | 100131187 | RP11-544M22.1 |
| 0.137553492 | 0.046554659 | 0.341 | 1 | 54760 | PCSK4 |
| 0.137543125 | 0.046571294 | 0.336 | 1 | 340596 | LHFPL1 |
| 0.137539238 | 0.046577533 | 0.344 | 1 | 3767 | KCNJ11 |
| 0.137527576 | 0.046596256 | 0.36 | 1 | 22881 | ANKRD6 |
| 0.137448533 | 0.046723321 | 0.351 | 1 | 5689 | PSMB1 |
| 0.137387631 | 0.046821421 | 0.372 | 1 | 5718 | PSMD12 |
| 0.137379856 | 0.046833957 | 0.322 | 1 | 11070 | TMEM115 |
| 0.137242503 | 0.047055886 | 0.313 | 1 | 256364 | EML3 |
| 0.137232137 | 0.047072671 | 0.362 | 1 | 23786 | BCL2L13 |
| 0.137228249 | 0.047078967 | 0.318 | 1 | 1378 | CR1 |
| 0.137177714 | 0.047160875 | 0.316 | 1 | 1612 | DAPK1 |
| 0.137160869 | 0.047188204 | 0.304 | 1 | 1016 | CDH18 |
| 0.137156981 | 0.047194512 | 0.346 | 1 | 4638 | MYLK |
| 0.137088305 | 0.047306081 | 0.36 | 1 | 10139 | ARFRP1 |
| 0.137066276 | 0.047341913 | 0.315 | 1 | 162417 | NAGS |
| 0.136975571 | 0.047489699 | 0.375 | 1 | 10919 | EHMT2 |
| 0.136958726 | 0.047517187 | 0.361 | 1 | 30000 | TNPO2 |
| 0.136931514 | 0.04756162 | 0.301 | 1 | 552900 | BOLA2 |
| 0.136893937 | 0.047623036 | 0.345 | 1 | 10800 | CYSLTR1 |
| 0.136882275 | 0.04764211 | 0.377 | 1 | 84376 | HOOK3 |
| 0.136865429 | 0.047669672 | 0.322 | 1 | 55777 | MBD5 |
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| 0.059371579 | 2.08472E-95 | 9050 | PSTPIP2 |
| 0.059368444 | 2.13274E-95 | 255189 | PLA2G4F |
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| 0.059310002 | 3.25985E-95 | 6242 | RTKN |
| 0.059307891 | 3.31016E-95 | 401491 | RP11-125B21.2 |
| 0.059304987 | 3.38067E-95 | 6305 | SBF1 |
| 0.059265477 | 4.50253E-95 | 27121 | DKK4 |
| 0.059235248 | 1.84091E-94 | 2172 | FABP6 |
| 0.05922694 | 1.92038E-94 | 3429 | IFI27 |
| 0.059222348 | 6.15486E-95 | 10686 | CLDN16 |
| 0.059213449 | 6.56474E-95 | 84250 | ANKRD32 |
| 0.05919669 | 7.41207E-95 | 84657 | GHRLOS2 |
| 0.059168296 | 1.79103E-94 | 8458 | TTF2 |
| 0.059153194 | 1.01553E-94 | 79090 | TRAPPC6A |
| 0.059153007 | 1.01691E-94 | 83786 | FRMD8 |
| 0.05913501 | 1.15834E-94 | 4820 | NKTR |
| 0.059121875 | 1.27381E-94 | 100134713 | RP4-726N20.2 |
| 0.059114209 | 1.34642E-94 | 55365 | TMEM176A |
| 0.059095068 | 1.5463E-94 | 6672 | SP100 |
| 0.059084991 | 1.66315E-94 | 27123 | DKK2 |
| 0.059076273 | 1.77133E-94 | 57711 | ZNF529 |
| 0.059049612 | 2.14766E-94 | 56260 | C8orf44 |
| 0.05904904 | 2.15655E-94 | 3073 | HEXA |
| 0.059043984 | 2.23677E-94 | 10842 | C7orf16 |
| 0.059020901 | 2.64253E-94 | 5880 | RAC2 |
| 0.058999294 | 3.08864E-94 | 23328 | SASH1 |
| 0.058997717 | 3.124E-94 | 255809 | C19orf38 |
| 0.058996755 | 3.14576E-94 | 388021 | TMEM179 |
| 0.058994885 | 3.1885E-94 | 200172 | SLFNL1 |
| 0.058982115 | 3.49632E-94 | 84287 | ZDHHC16 |
| 0.058959013 | 4.13044E-94 | 645752 | LOC645752 |
| 0.058955319 | 4.24196E-94 | 8800 | PEX11A |
| 0.058946867 | 4.50859E-94 | 6366 | CCL21 |
| 0.058934267 | 4.93743E-94 | 645181 | LOC645181 |
| 0.058906493 | 6.0318E-94 | 163 | AP2B1 |
| 0.058900401 | 6.30253E-94 | 8148 | TAF15 |
| 0.058893792 | 6.60989E-94 | 1489 | CTF1 |
| 0.05882507 | 1.0842E-93 | 8738 | CRADD |
| 0.058800208 | 1.29659E-93 | 404550 | C16orf74 |
| 0.058795274 | 1.34343E-93 | 725 | C4BPB |
| 0.058782022 | 1.47778E-93 | 5862 | RAB2A |
| 0.058776294 | 1.53992E-93 | 57393 | TMEM27 |
| 0.058752129 | 1.83209E-93 | 85441 | RP4-697K14.1 |
| 0.05874005 | 1.99825E-93 | 407975 | MIR17HG |
| 0.058736062 | 2.05634E-93 | 83539 | CHST9 |
| 0.058712222 | 2.4405E-93 | 4291 | MLF1 |
| 0.058711345 | 2.45593E-93 | 10866 | HCP5 |
| 0.058687379 | 2.91716E-93 | 56171 | DNAH7 |
| 0.058673297 | 3.22749E-93 | 9253 | NUMBL |
| 0.058637863 | 4.16191E-93 | 27133 | KCNH5 |
| 0.058623667 | 1.38308E-92 | 114908 | TMEM123 |
| 0.0586068 | 5.20051E-93 | 59269 | HIVEP3 |
| 0.058583294 | 6.15495E-93 | 343171 | OR2W3 |
| 0.058560843 | 7.22923E-93 | 6693 | SPN |
| 0.05856009 | 7.26834E-93 | 259197 | NCR3 |
| 0.0585575 | 7.40448E-93 | 9976 | CLEC2B |
| 0.058552907 | 7.65218E-93 | 10521 | DDX17 |
| 0.058552341 | 7.68324E-93 | 728 | C5AR1 |
| 0.05854244 | 8.24787E-93 | 22905 | EPN2 |
| 0.058527701 | 9.16607E-93 | 114800 | CCDC85A |
| 0.058502243 | 1.09984E-92 | 10446 | LRRN2 |
| 0.058501105 | 1.10884E-92 | 1009 | CDH11 |
| 0.058498746 | 1.12772E-92 | 23024 | PDZRN3 |
| 0.058487903 | 1.2187E-92 | 135924 | OR9A2 |
| 0.05848628 | 1.23294E-92 | 27433 | TOR2A |
| 0.058442408 | 1.68741E-92 | 144448 | TSPAN19 |
| 0.058436418 | 1.76125E-92 | 80072 | HEXA-AS1 |
| 0.058434924 | 1.78015E-92 | 283310 | C12orf64 |
| 0.058402457 | 2.24508E-92 | 162515 | SLC16A11 |
| 0.058399546 | 2.29226E-92 | 84944 | MAEL |
| 0.058372596 | 2.77885E-92 | 58529 | MYOZ1 |
| 0.058360283 | 3.03423E-92 | 84902 | CCDC123 |
| 0.058355408 | 3.1417E-92 | 965 | CD58 |
| 0.058339722 | 3.51393E-92 | 23151 | GRAMD4 |
| 0.058328331 | 3.81152E-92 | 122830 | NAA30 |
| 0.058321241 | 4.00928E-92 | 157378 | TMEM65 |
| 0.05829212 | 4.93494E-92 | 205327 | C2orf69 |
| 0.058287479 | 5.101E-92 | 51259 | TMEM216 |
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| 0.136721597 | 0.047905553 | 0.335 | 1 | 57414 | RHBDD2 |
| 0.136627005 | 0.048061213 | 0.329 | 1 | 1600 | DAB1 |
| 0.136614047 | 0.048082569 | 0.33 | 1 | 30849 | PIK3R4 |
| 0.136572582 | 0.048150962 | 0.36 | 1 | 27243 | CHMP2A |
| 0.136568694 | 0.048157378 | 0.353 | 1 | 25797 | QPCT |
| 0.136502609 | 0.04826656 | 0.34 | 1 | 163590 | TOR1AIP2 |
| 0.136457257 | 0.048341608 | 0.319 | 1 | 388581 | FAM132A |
| 0.136405425 | 0.048427497 | 0.359 | 1 | 94233 | OPN4 |
| 0.136374327 | 0.048479091 | 0.316 | 1 | 252983 | STXBP4 |
| 0.136319904 | 0.048569492 | 0.336 | 1 | 81562 | LMAN2L |
| 0.136316016 | 0.048575954 | 0.348 | 1 | 9711 | KIAA0226 |
| 0.136292692 | 0.048614745 | 0.337 | 1 | 9474 | ATG5 |
| 0.136290101 | 0.048619056 | 0.313 | 1 | 80723 | TMEM22 |
| 0.136151451 | 0.048850196 | 0.315 | 1 | 5355 | PLP2 |
| 0.136098324 | 0.048939006 | 0.362 | 1 | 822 | CAPG |
| 0.136036127 | 0.04904315 | 0.378 | 1 | 126789 | PUSL1 |
| 0.136021873 | 0.049067042 | 0.336 | 1 | 220004 | C11orf66 |
| 0.136019281 | 0.049071387 | 0.328 | 1 | 91368 | CDKN2AIPNL |
| 0.136011507 | 0.049084425 | 0.349 | 1 | 84316 | LSMD1 |
| 0.136006323 | 0.049093118 | 0.366 | 1 | 55379 | LRRC59 |
| 0.135955788 | 0.049177943 | 0.341 | 1 | 57462 | KIAA1161 |
| 0.135915618 | 0.049245455 | 0.368 | 1 | 65989 | DLK2 |
| 0.135910435 | 0.049254172 | 0.339 | 1 | 1476 | CSTB |
| 0.13588452 | 0.049297776 | 0.371 | 1 | 1282 | COL4A1 |
| 0.135853421 | 0.049350143 | 0.36 | 1 | 387856 | C12orf68 |
| 0.135818434 | 0.049409112 | 0.377 | 1 | 10898 | CPSF4 |
| 0.135789927 | 0.049457204 | 0.338 | 1 | 54932 | EXD3 |
| 0.135753645 | 0.049518468 | 0.364 | 1 | 144717 | FAM109A |
| 0.135633137 | 0.049722407 | 0.333 | 1 | 79671 | NLRX1 |
| 0.135631841 | 0.049724604 | 0.326 | 1 | 10056 | FARSB |
| 0.135609813 | 0.04976196 | 0.304 | 1 | 57409 | MIF4GD |
| 0.13560463 | 0.049770754 | 0.344 | 1 | 11326 | VSIG4 |
| 0.135538545 | 0.049882979 | 0.332 | 1 | 127700 | C1orf102 |
| 0.1355217 | 0.04991162 | 0.354 | 1 | 10816 | SPINT3 |
| 0.135396008 | 0.050125754 | 0.364 | 1 | 91949 | COG7 |
| 0.135357135 | 0.050192135 | 0.332 | 1 | 10322 | SMYD5 |
| 0.135298824 | 0.050291845 | 0.341 | 1 | 1948 | EFNB2 |
| 0.135274204 | 0.050333995 | 0.33 | 1 | 200162 | SPAG17 |
| 0.135227556 | 0.050413938 | 0.357 | 1 | 2897 | GRIK1 |
| 0.135218486 | 0.050429494 | 0.339 | 1 | 55588 | MED29 |
| 0.135213303 | 0.050438386 | 0.33 | 1 | 10231 | RCAN2 |
| 0.135206824 | 0.050449502 | 0.317 | 1 | 9652 | TTC37 |
| 0.135186091 | 0.050485087 | 0.345 | 1 | 1649 | DDIT3 |
| 0.135145922 | 0.050554092 | 0.351 | 1 | 123803 | NTAN1 |
| 0.135136851 | 0.050569685 | 0.356 | 1 | 998 | CDC42 |
| 0.135112231 | 0.050612028 | 0.352 | 1 | 643854 | RP5-988G15.1 |
| 0.135103161 | 0.050627635 | 0.345 | 1 | 57484 | RNF150 |
| 0.134943779 | 0.050902538 | 0.357 | 1 | 57410 | SCYL1 |
| 0.134886765 | 0.051001179 | 0.356 | 1 | 260429 | PRSS33 |
| 0.134873807 | 0.05102362 | 0.348 | 1 | 8434 | RECK |
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| 0.134810313 | 0.051133697 | 0.32 | 1 | 27143 | KIAA1274 |
| 0.134784397 | 0.051178684 | 0.327 | 1 | 81553 | FAM49A |
| 0.1347222 | 0.051286785 | 0.354 | 1 | 6633 | SNRPD2 |
| 0.134678143 | 0.051363472 | 0.357 | 1 | 25855 | BRMS1 |
| 0.134618537 | 0.051467377 | 0.332 | 1 | 10974 | C10orf116 |
| 0.134605579 | 0.051489988 | 0.296 | 1 | 54480 | CSGLCA-T |
| 0.134582255 | 0.051530709 | 0.336 | 1 | 90488 | C12orf23 |
| 0.134575776 | 0.051542026 | 0.363 | 1 | 50838 | TAS2R13 |
| 0.134569297 | 0.051553344 | 0.342 | 1 | 8666 | EIF3G |
| 0.13454079 | 0.051603168 | 0.337 | 1 | 83933 | HDAC10 |
| 0.134508395 | 0.051659836 | 0.357 | 1 | 10533 | ATG7 |
| 0.13446693 | 0.051732446 | 0.325 | 1 | 401491 | RP11-125B21.2 |
| 0.134416394 | 0.051821054 | 0.326 | 1 | 728392 | LOC728392 |
| 0.134403436 | 0.051843795 | 0.353 | 1 | 29034 | CPS1-IT1 |
| 0.134386591 | 0.05187337 | 0.358 | 1 | 79137 | FAM134A |
| 0.134382704 | 0.051880197 | 0.359 | 1 | 6742 | SSBP1 |
| 0.13428552 | 0.052051114 | 0.351 | 1 | 6257 | RXRB |
| 0.134212956 | 0.052179038 | 0.351 | 1 | 148137 | C19orf55 |
| 0.134189632 | 0.052220212 | 0.344 | 1 | 54494 | C11orf71 |
| 0.134185744 | 0.052227077 | 0.341 | 1 | 9289 | GPR56 |
| 0.134132617 | 0.052320973 | 0.35 | 1 | 5481 | PPID |
| 0.134080786 | 0.052412714 | 0.345 | 1 | 53842 | CLDN22 |
| 0.134023771 | 0.052513783 | 0.341 | 1 | 205 | AK3L1 |
| 0.134006926 | 0.052543676 | 0.323 | 1 | 3157 | HMGCS1 |
| 0.134000447 | 0.052555176 | 0.332 | 1 | 57146 | TMEM159 |
| 0.133951207 | 0.052642651 | 0.366 | 1 | 8099 | CDK2AP1 |
| 0.133917517 | 0.052702572 | 0.318 | 1 | 199745 | THAP8 |
| 0.133913629 | 0.05270949 | 0.332 | 1 | 56829 | ZC3HAV1 |
| 0.133894193 | 0.052744089 | 0.358 | 1 | 2968 | GTF2H4 |
| 0.133869573 | 0.052787942 | 0.335 | 1 | 396 | ARHGDIA |
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| 0.058009406 | 3.68767E-91 | 143686 | SESN3 |
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| 0.133605232 | 0.053260697 | 0.331 | 1 | 92597 | MOBKL1A |
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| 0.133277399 | 0.053851886 | 0.335 | 1 | 30844 | EHD4 |
| 0.133260553 | 0.05388241 | 0.365 | 1 | 222537 | HS3ST5 |
| 0.133235933 | 0.053927047 | 0.363 | 1 | 79643 | CHMP6 |
| 0.133234638 | 0.053929398 | 0.349 | 1 | 90313 | TP53I13 |
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| 0.133184102 | 0.054021122 | 0.349 | 1 | 269 | AMHR2 |
| 0.133132271 | 0.054115332 | 0.353 | 1 | 51705 | EMCN |
| 0.133125792 | 0.054127118 | 0.36 | 1 | 3679 | ITGA7 |
| 0.133106355 | 0.054162489 | 0.383 | 1 | 390616 | ANKRD34C |
| 0.133103763 | 0.054167206 | 0.374 | 1 | 23067 | SETD1B |
| 0.133054523 | 0.054256904 | 0.346 | 1 | 55967 | NDUFA12 |
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| 0.13301565 | 0.054327804 | 0.347 | 1 | 23059 | CLUAP1 |
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| 0.132678746 | 0.054945504 | 0.358 | 1 | 23417 | MLYCD |
| 0.132660605 | 0.05497893 | 0.368 | 1 | 89941 | RHOT2 |
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| 0.13192719 | 0.056344453 | 0.348 | 1 | 64222 | TOR3A |
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| 0.131397213 | 0.057348579 | 0.331 | 1 | 26015 | RPAP1 |
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| 0.131370002 | 0.057400532 | 0.359 | 1 | 56606 | SLC2A9 |
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| 0.056805832 | 1.72861E-87 | 119016 | AGAP4 |
| 0.056805298 | 1.73504E-87 | 653641 | GOLGA6C |
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| 0.131046055 | 0.058022022 | 0.333 | 1 | 89796 | NAV1 |
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| 0.130951463 | 0.058204542 | 0.365 | 1 | 516 | ATP5G1 |
| 0.130937209 | 0.058232086 | 0.307 | 1 | 4351 | MPI |
| 0.130935914 | 0.058234591 | 0.385 | 1 | 1840 | DTX1 |
| 0.130932026 | 0.058242105 | 0.361 | 1 | 255104 | TMCO4 |
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| 0.13073118 | 0.058631428 | 0.369 | 1 | 7982 | ST7 |
| 0.130658616 | 0.058772615 | 0.361 | 1 | 10006 | ABI1 |
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| 0.130587347 | 0.058911553 | 0.345 | 1 | 1020 | CDK5 |
| 0.130557544 | 0.058969735 | 0.333 | 1 | 6861 | SYT5 |
| 0.130536812 | 0.059010237 | 0.357 | 1 | 8706 | B3GALNT1 |
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| 0.130403346 | 0.05927152 | 0.357 | 1 | 8407 | TAGLN2 |
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| 0.130286725 | 0.059500607 | 0.374 | 1 | 171484 | FAM9C |
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| 0.130190837 | 0.059689515 | 0.361 | 1 | 140701 | C20orf135 |
| 0.130144189 | 0.059781594 | 0.359 | 1 | 79974 | C7orf58 |
| 0.130142893 | 0.059784154 | 0.369 | 1 | 145553 | MDP1 |
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| 0.130102723 | 0.059863541 | 0.363 | 1 | 83856 | FSD1L |
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| 0.130000356 | 0.060066244 | 0.353 | 1 | 256076 | COL29A1 |
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| 0.129761932 | 0.060540557 | 0.374 | 1 | 10043 | TOM1 |
| 0.129745087 | 0.060574185 | 0.34 | 1 | 1903 | S1PR3 |
| 0.1297101 | 0.060644077 | 0.353 | 1 | 11343 | MGLL |
| 0.129675114 | 0.060714034 | 0.375 | 1 | 4489 | MT1A |
| 0.129663452 | 0.060737368 | 0.378 | 1 | 115727 | RASGRP4 |
| 0.129634945 | 0.060794438 | 0.346 | 1 | 26009 | ZZZ3 |
| 0.12962717 | 0.06081001 | 0.382 | 1 | 130940 | CCDC148 |
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| 0.129208631 | 0.061653176 | 0.367 | 1 | 318 | NUDT2 |
| 0.129200857 | 0.061668929 | 0.381 | 1 | 5298 | PI4KB |
| 0.129159391 | 0.061753001 | 0.357 | 1 | 9871 | SEC24D |
| 0.129147729 | 0.061776664 | 0.35 | 1 | 11151 | CORO1A |
| 0.129133476 | 0.061805594 | 0.369 | 1 | 59344 | ALOXE3 |
| 0.129092011 | 0.06188982 | 0.362 | 1 | 527 | ATP6V0C |
| 0.129089419 | 0.061895088 | 0.382 | 1 | 1044 | CDX1 |
| 0.129071278 | 0.061931969 | 0.354 | 1 | 100505929 | C21orf37 |
| 0.129044066 | 0.061987324 | 0.373 | 1 | 7673 | ZNF222 |
| 0.129027221 | 0.062021612 | 0.38 | 1 | 65220 | NADK |
| 0.129023334 | 0.062029527 | 0.35 | 1 | 8878 | SQSTM1 |
| 0.128905417 | 0.062270006 | 0.368 | 1 | 79660 | PPP1R3B |
| 0.128883389 | 0.062315016 | 0.36 | 1 | 11248 | NXPH3 |
| 0.128819895 | 0.062444899 | 0.357 | 1 | 2706 | GJB2 |
| 0.128783613 | 0.062519218 | 0.399 | 1 | 23299 | BICD2 |
| 0.128764177 | 0.062559062 | 0.375 | 1 | 7076 | TIMP1 |
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| 0.128650148 | 0.062793232 | 0.351 | 1 | 29995 | LMCD1 |
| 0.128615161 | 0.062865224 | 0.338 | 1 | 729967 | MORN2 |
| 0.128609978 | 0.062875896 | 0.367 | 1 | 10611 | PDLIM5 |
| 0.128608682 | 0.062878564 | 0.308 | 1 | 29070 | CCDC113 |
| 0.128602203 | 0.062891905 | 0.384 | 1 | 387082 | SUMO4 |
| 0.128541302 | 0.06301743 | 0.357 | 1 | 51690 | LSM7 |
| 0.128529639 | 0.063041491 | 0.397 | 1 | 10394 | PRG3 |
| 0.128475216 | 0.063153872 | 0.374 | 1 | 541565 | C8orf58 |
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| 0.056012641 | 4.11932E-85 | 399512 | SLC25A35 |
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| 0.055967707 | 5.60385E-85 | 140803 | TRPM6 |
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| 0.055918472 | 7.84907E-85 | 25924 | MYRIP |
| 0.055917669 | 7.89234E-85 | 55018 | LINC00483 |
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| 0.05580183 | 1.74172E-84 | 894 | CCND2 |
| 0.055794603 | 1.8298E-84 | 219285 | SAMD9L |
| 0.055792502 | 1.85622E-84 | 26747 | NUFIP1 |
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| 0.055568098 | 8.55949E-84 | 54545 | MTMR12 |
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| 0.055528872 | 1.1174E-83 | 8747 | ADAM21 |
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| 0.055426838 | 2.23327E-83 | 6019 | RLN2 |
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| 0.055349194 | 3.77936E-83 | 10495 | ENOX2 |
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| 0.055105902 | 1.95549E-82 | 1687 | DFNA5 |
| 0.055097812 | 2.06508E-82 | 255101 | CCDC108 |
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| 0.055081353 | 2.30732E-82 | 56271 | BEX4 |
| 0.055073973 | 2.42495E-82 | 81309 | OR4C15 |
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| 0.055064429 | 2.58597E-82 | 51253 | MRPL37 |
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| 0.055043313 | 2.98115E-82 | 146395 | GSG1L |
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| 0.128353413 | 0.063405987 | 0.395 | 1 | 63906 | GPATCH3 |
| 0.128336567 | 0.063440919 | 0.373 | 1 | 634 | CEACAM1 |
| 0.128322314 | 0.06347049 | 0.395 | 1 | 9750 | FAM65B |
| 0.128295102 | 0.063526973 | 0.381 | 1 | 342945 | ZSCAN22 |
| 0.128293806 | 0.063529664 | 0.395 | 1 | 9569 | GTF2IRD1 |
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| 0.128063157 | 0.064010108 | 0.334 | 1 | 91947 | ARRDC4 |
| 0.12805279 | 0.064031771 | 0.371 | 1 | 94160 | ABCC12 |
| 0.128026875 | 0.064085955 | 0.414 | 1 | 245939 | DEFB128 |
| 0.127988001 | 0.064167301 | 0.366 | 1 | 115948 | CCDC151 |
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| 0.127894704 | 0.064362877 | 0.368 | 1 | 388692 | LOC388692 |
| 0.127863606 | 0.064428178 | 0.384 | 1 | 55033 | FKBP14 |
| 0.12786231 | 0.0644309 | 0.389 | 1 | 90134 | KCNH7 |
| 0.127859718 | 0.064436344 | 0.417 | 1 | 8766 | RAB11A |
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| 0.127744393 | 0.064679001 | 0.346 | 1 | 4000 | LMNA |
| 0.127704224 | 0.064763698 | 0.424 | 1 | 27095 | TRAPPC3 |
| 0.127686083 | 0.064801978 | 0.354 | 1 | 3423 | IDS |
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| 0.127491715 | 0.065213287 | 0.35 | 1 | 57647 | DHX37 |
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| 0.127404897 | 0.065397695 | 0.392 | 1 | 55715 | DOK4 |
| 0.127371207 | 0.065469372 | 0.374 | 1 | 2302 | FOXJ1 |
| 0.127319376 | 0.065579769 | 0.355 | 1 | 5523 | PPP2R3A |
| 0.127258474 | 0.065709681 | 0.344 | 1 | 54808 | DYM |
| 0.127165177 | 0.065909104 | 0.377 | 1 | 220963 | SLC16A9 |
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| 0.127083543 | 0.066084006 | 0.37 | 1 | 85014 | TMEM141 |
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| 0.127005795 | 0.066250933 | 0.382 | 1 | 153642 | ARSK |
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| 0.126049505 | 0.06833253 | 0.353 | 1 | 55554 | KLK15 |
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| 0.05465602 | 4.0082E-81 | 54857 | GDPD2 |
| 0.054653358 | 4.08019E-81 | 57178 | ZMIZ1 |
| 0.0546477 | 4.23747E-81 | 6927 | HNF1A |
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| 0.054102923 | 1.58795E-79 | 5898 | RALA |
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| 0.125987308 | 0.06846975 | 0.337 | 1 | 10409 | BASP1 |
| 0.125890124 | 0.068684607 | 0.386 | 1 | 1132 | CHRM4 |
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| 0.125033609 | 0.070602137 | 0.344 | 1 | 79864 | C11orf63 |
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| 0.125011581 | 0.070652024 | 0.371 | 1 | 7752 | ZNF200 |
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| 0.051112953 | 3.6093E-71 | 783 | CACNB2 |
| 0.051098421 | 3.95256E-71 | 80776 | B9D2 |
| 0.051086026 | 4.27095E-71 | 6048 | RNF5 |
| 0.051084052 | 4.32396E-71 | 390940 | AC026369.2 |
| 0.051080263 | 4.42756E-71 | 729739 | LOC729739 |
| 0.051073556 | 4.61703E-71 | 400406 | LOC400406 |
| 0.051059356 | 5.04531E-71 | 1778 | DYNC1H1 |
| 0.051050843 | 5.32084E-71 | 5450 | POU2AF1 |
| 0.051049216 | 5.37518E-71 | 4983 | OPHN1 |
| 0.051048005 | 9.74719E-71 | 11322 | TMC6 |
| 0.051046648 | 5.46204E-71 | 94235 | GNG8 |
| 0.051002975 | 7.17375E-71 | 63925 | ZNF335 |
| 0.050990368 | 1.84938E-70 | 54739 | XAF1 |
| 0.050985342 | 8.00785E-71 | 162989 | DEDD2 |
| 0.050947844 | 1.0117E-70 | 952 | CD38 |
| 0.050936764 | 1.08402E-70 | 22955 | SCMH1 |
| 0.050868021 | 1.66318E-70 | 340595 | ZCCHC16 |
| 0.050858543 | 1.76422E-70 | 445 | ASS1 |
| 0.050841104 | 1.96637E-70 | 2800 | GOLGA1 |
| 0.050833742 | 2.05849E-70 | 57205 | ATP10D |
| 0.050826621 | 2.15169E-70 | 5747 | PTK2 |
| 0.050825977 | 2.16032E-70 | 5699 | PSMB10 |
| 0.050819379 | 2.25077E-70 | 4152 | MBD1 |
| 0.050816501 | 2.29141E-70 | 641 | BLM |
| 0.050811057 | 2.37028E-70 | 9143 | SYNGR3 |
| 0.050798798 | 2.55792E-70 | 6528 | SLC5A5 |
| 0.050784148 | 2.80169E-70 | 2212 | FCGR2A |
| 0.050782448 | 2.83144E-70 | 10803 | CCR9 |
| 0.050761561 | 3.22364E-70 | 644037 | HNRNPA1P12 |
| 0.050754133 | 3.37582E-70 | 255180 | FLJ38723 |
| 0.05074202 | 3.63945E-70 | 80725 | AC115090.1 |
| 0.050720684 | 4.15473E-70 | 151534 | LBX2-AS1 |
| 0.050711571 | 4.3964E-70 | 400578 | KRT16P2 |
| 0.050651972 | 6.3617E-70 | 57630 | SH3RF1 |
| 0.050649344 | 6.46614E-70 | 54596 | L1TD1 |
| 0.050632315 | 7.18554E-70 | 11326 | VSIG4 |
| 0.050609083 | 8.29736E-70 | 9766 | KIAA0247 |
| 0.050603537 | 8.58719E-70 | 27340 | UTP20 |
| 0.050596923 | 8.94606E-70 | 126003 | TRAPPC5 |
| 0.050594542 | 9.07888E-70 | 149986 | LSM14B |
| 0.050580959 | 9.87498E-70 | 128153 | SPATA17 |
| 0.050571975 | 1.04394E-69 | 201501 | ZBTB7C |
| 0.050550523 | 1.19207E-69 | 362 | AQP5 |
| 0.050547752 | 1.21267E-69 | 285533 | RNF175 |
| 0.050540917 | 1.26502E-69 | 10537 | UBD |
| 0.050530481 | 1.34932E-69 | 10066 | SCAMP2 |
| 0.050523482 | 1.40898E-69 | 1810 | DR1 |
| 0.050505962 | 1.57009E-69 | 286464 | CXorf59 |
| 0.050502867 | 1.6004E-69 | 2047 | EPHB1 |
| 0.050497243 | 1.65698E-69 | 84865 | CCDC142 |
| 0.050452041 | 2.19044E-69 | 138255 | C9orf135 |
| 0.050438846 | 2.37626E-69 | 57496 | MKL2 |
| 0.050429153 | 2.52271E-69 | 84366 | PRAC |
| 0.050426283 | 2.56778E-69 | 55504 | TNFRSF19 |
| 0.050422934 | 2.62137E-69 | 387836 | CLEC2A |
| 0.050415461 | 2.74502E-69 | 55884 | WSB2 |
| 0.050414072 | 2.76864E-69 | 23505 | TMEM131 |
| 0.050413198 | 2.78361E-69 | 257364 | SNX33 |
| 0.050403637 | 2.95266E-69 | 339479 | FAM5C |
| 0.050383812 | 3.3365E-69 | 84334 | APOPT1 |
| 0.050359342 | 9.24791E-69 | 163782 | KANK4 |
| 0.050351224 | 4.07843E-69 | 23334 | KIAA0467 |
| 0.05034329 | 4.28268E-69 | 55752 | SEPTIN11 |
| 0.050340501 | 4.35687E-69 | 754 | PTTG1IP |
| 0.050327851 | 4.70981E-69 | 58155 | PTBP2 |
| 0.050319305 | 4.96424E-69 | 1727 | CYB5R3 |
| 0.050307177 | 5.34899E-69 | 389458 | LOC389458 |
| 0.050290921 | 5.91168E-69 | 152 | ADRA2C |
| 0.050284 | 6.16881E-69 | 301 | ANXA1 |
| 0.050279112 | 6.35711E-69 | 55096 | EBLN2 |
| 0.050249362 | 7.63317E-69 | 575 | BAI1 |
| 0.050245613 | 7.81116E-69 | 8859 | STK19 |
| 0.050224513 | 8.89259E-69 | 124274 | GPR139 |
| 0.050196142 | 1.05855E-68 | 51474 | LIMA1 |
| 0.050188141 | 1.11185E-68 | 25839 | COG4 |
| 0.050186125 | 1.1257E-68 | 389362 | PSMG4 |
| 0.05018574 | 1.12836E-68 | 7465 | WEE1 |
| 0.050182221 | 1.153E-68 | 26025 | PCDHGA12 |
| 0.050166104 | 1.27289E-68 | 51255 | RNF181 |
| 0.050156072 | 1.35372E-68 | 6499 | SKIV2L |

| | | | | | |
|---|---|---|---|---|---|
| 0.116258548 | 0.092869004 | 0.386 | 1 | 2188 | FANCF |
| 0.116252069 | 0.092887307 | 0.411 | 1 | 2628 | GATM |
| 0.116228745 | 0.092953221 | 0.432 | 1 | 4599 | MX1 |
| 0.116215787 | 0.092989856 | 0.406 | 1 | 120796 | OR56A1 |
| 0.116183393 | 0.093081494 | 0.432 | 1 | 55814 | BDP1 |
| 0.116082321 | 0.093367868 | 0.435 | 1 | 374462 | PTPRQ |
| 0.116040856 | 0.093485558 | 0.416 | 1 | 51154 | MRTO4 |
| 0.116035673 | 0.093500278 | 0.411 | 1 | 4282 | MIF |
| 0.116034377 | 0.093503958 | 0.375 | 1 | 84315 | MON1A |
| 0.115978658 | 0.093662315 | 0.402 | 1 | 6382 | SDC1 |
| 0.115969588 | 0.093688115 | 0.398 | 1 | 100134934 | C17ORF106 |
| 0.115941081 | 0.093769235 | 0.425 | 1 | 727837 | SSX2B |
| 0.115840009 | 0.094057296 | 0.466 | 1 | 5995 | RGR |
| 0.115794657 | 0.094186783 | 0.396 | 1 | 9388 | LIPG |
| 0.115790769 | 0.094197888 | 0.369 | 1 | 148170 | CDC42EP5 |
| 0.115768741 | 0.094260839 | 0.407 | 1 | 25891 | PAMR1 |
| 0.115720797 | 0.094397966 | 0.396 | 1 | 23516 | SLC39A14 |
| 0.115666374 | 0.094553816 | 0.435 | 1 | 6777 | STAT5B |
| 0.115665078 | 0.094557529 | 0.417 | 1 | 8833 | GMPS |
| 0.115658599 | 0.094576097 | 0.387 | 1 | 222699 | TOB2P1 |
| 0.115589923 | 0.094773094 | 0.408 | 1 | 440955 | TMEM89 |
| 0.115516063 | 0.094985324 | 0.429 | 1 | 7508 | XPC |
| 0.115414992 | 0.095276357 | 0.434 | 1 | 474343 | SPIN2B |
| 0.115402034 | 0.095313721 | 0.43 | 1 | 8491 | MAP4K3 |
| 0.115303554 | 0.095598063 | 0.417 | 1 | 10123 | ARL4C |
| 0.115294484 | 0.095624287 | 0.418 | 1 | 22845 | DOLK |
| 0.115291892 | 0.09563178 | 0.429 | 1 | 6834 | SURF1 |
| 0.115158426 | 0.096018325 | 0.393 | 1 | 10507 | SEMA4D |
| 0.115149356 | 0.09604464 | 0.433 | 1 | 79786 | KLHL36 |
| 0.115084566 | 0.096232772 | 0.395 | 1 | 30833 | NT5C |
| 0.115067721 | 0.096281734 | 0.401 | 1 | 8912 | CACNA1H |
| 0.11501589 | 0.096432512 | 0.387 | 1 | 79036 | C19orf50 |
| 0.114986087 | 0.096519294 | 0.42 | 1 | 161502 | C15orf26 |
| 0.114979608 | 0.096538168 | 0.428 | 1 | 10876 | FAM12A |
| 0.114944621 | 0.096640138 | 0.398 | 1 | 7525 | YES1 |
| 0.114944621 | 0.096640138 | 0.41 | 1 | 57343 | ZNF304 |
| 0.114939438 | 0.096655252 | 0.46 | 1 | 8894 | EIF2S2 |
| 0.114873353 | 0.096848119 | 0.424 | 1 | 10166 | SLC25A15 |
| 0.114860395 | 0.096885972 | 0.376 | 1 | 55672 | NBPF1 |
| 0.114850029 | 0.096916263 | 0.416 | 1 | 100093630 | SNHG8 |
| 0.114830592 | 0.096973079 | 0.462 | 1 | 80183 | C13orf18 |
| 0.11480986 | 0.097033712 | 0.414 | 1 | 93487 | MAPK1IP1L |
| 0.114800789 | 0.097060248 | 0.412 | 1 | 90637 | ZFAND2A |
| 0.114776169 | 0.097132304 | 0.442 | 1 | 10049 | DNAJB6 |
| 0.114754141 | 0.097196811 | 0.373 | 1 | 64714 | PDIA2 |
| 0.114725634 | 0.097280342 | 0.427 | 1 | 29128 | UHRF1 |
| 0.114682873 | 0.097405744 | 0.446 | 1 | 100289137 | LOC100289137 |
| 0.114655661 | 0.097485613 | 0.401 | 1 | 387597 | ILDR2 |
| 0.114641407 | 0.09752747 | 0.428 | 1 | 2788 | AC005512.1 |
| 0.114616788 | 0.097599802 | 0.442 | 1 | 5937 | RBMS1 |
| 0.114583097 | 0.097698851 | 0.409 | 1 | 10008 | KCNE3 |
| 0.114576618 | 0.097717908 | 0.427 | 1 | 9737 | GPRASP1 |
| 0.114570139 | 0.097736968 | 0.435 | 1 | 340385 | ZNF517 |
| 0.114545519 | 0.097809423 | 0.395 | 1 | 147744 | TMEM190 |
| 0.114536449 | 0.097836128 | 0.406 | 1 | 389161 | C3orf16 |
| 0.114509237 | 0.097916277 | 0.461 | 1 | 6396 | SEC13 |
| 0.114450927 | 0.0980882 | 0.46 | 1 | 2736 | GLI2 |
| 0.114430194 | 0.098149386 | 0.409 | 1 | 339324 | ZNF260 |
| 0.114370588 | 0.098325465 | 0.453 | 1 | 10229 | COQ7 |
| 0.114358926 | 0.098359945 | 0.419 | 1 | 85440 | DOCK7 |
| 0.114334306 | 0.098432767 | 0.443 | 1 | 26246 | OR2L2 |
| 0.114310982 | 0.098501795 | 0.417 | 1 | 79109 | MAPKAP1 |
| 0.114286362 | 0.0985747 | 0.435 | 1 | 4016 | LOXL1 |
| 0.114257855 | 0.09865917 | 0.412 | 1 | 2170 | FABP3 |
| 0.114257855 | 0.09865917 | 0.435 | 1 | 11200 | CHEK2 |
| 0.114247489 | 0.098689901 | 0.44 | 1 | 23196 | FAM120A |
| 0.114104952 | 0.099113218 | 0.436 | 1 | 124045 | C16orf55 |
| 0.11409329 | 0.099147916 | 0.429 | 1 | 8345 | HIST1H2BH |
| 0.114072558 | 0.099209627 | 0.398 | 1 | 26696 | OR2T1 |
| 0.114071262 | 0.099213485 | 0.415 | 1 | 23016 | EXOSC7 |
| 0.114071262 | 0.099213485 | 0.363 | 1 | 112616 | CMTM7 |
| 0.114055712 | 0.099259789 | 0.453 | 1 | 5987 | TRIM27 |
| 0.113966303 | 0.099526371 | 0.455 | 1 | 55225 | RAVER2 |
| 0.113910584 | 0.099692789 | 0.434 | 1 | 7517 | XRCC3 |
| 0.11390281 | 0.099716028 | 0.416 | 1 | 22856 | CHSY1 |
| 0.113867823 | 0.099820655 | 0.407 | 1 | 6622 | SNCA |
| 0.11385357 | 0.099863305 | 0.4 | 1 | 253558 | LCLAT1 |
| 0.113850978 | 0.099871062 | 0.404 | 1 | 196383 | RILPL2 |
| 0.113835429 | 0.099917609 | 0.42 | 1 | 6256 | RXRA |
| 0.113832837 | 0.099925369 | 0.388 | 1 | 1128 | CHRM1 |
| 0.113796555 | 0.100034053 | 0.416 | 1 | 4713 | NDUFB7 |
| 0.113791372 | 0.100049587 | 0.404 | 1 | 820 | CAMP |

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|---|---|---|---|
| 0.050146172 | 1.43848E-68 | 6854 | SYN2 |
| 0.050141488 | 1.48042E-68 | 51504 | TRMT112 |
| 0.050130684 | 1.58184E-68 | 3687 | ITGAX |
| 0.050061856 | 2.41185E-68 | 81572 | PDRG1 |
| 0.050061751 | 2.4134E-68 | 4125 | MAN2B1 |
| 0.050060032 | 2.43895E-68 | 537 | ATP6AP1 |
| 0.050058614 | 2.46021E-68 | 716 | C1S |
| 0.050055545 | 2.50689E-68 | 51114 | ZDHHC9 |
| 0.050049845 | 2.59594E-68 | 100128569 | C19orf71 |
| 0.050041306 | 2.73525E-68 | 150709 | ANKAR |
| 0.050028642 | 2.95572E-68 | 220070 | SHANK2-AS3 |
| 0.05002329 | 3.05413E-68 | 150483 | TEKT4 |
| 0.050017839 | 3.1577E-68 | 830 | CAPZA2 |
| 0.049993864 | 3.65652E-68 | 252969 | NEIL2 |
| 0.049986064 | 5.50489E-68 | 220963 | SLC16A9 |
| 0.049980473 | 3.96853E-68 | 116143 | WDR92 |
| 0.049978811 | 4.00908E-68 | 10436 | EMG1 |
| 0.049975023 | 4.10302E-68 | 100129250 | C9ORF133 |
| 0.049965281 | 4.35479E-68 | 90231 | KIAA2013 |
| 0.049964124 | 4.38568E-68 | 4867 | NPHP1 |
| 0.049937239 | 5.16876E-68 | 100129842 | ZNF737 |
| 0.049934809 | 5.24605E-68 | 6978 | TRGV5 |
| 0.049909336 | 6.12906E-68 | 129138 | ANKRD54 |
| 0.049890325 | 6.88328E-68 | 2669 | GEM |
| 0.049889369 | 6.92355E-68 | 993 | CDC25A |
| 0.049856497 | 8.46115E-68 | 23179 | RGL1 |
| 0.049852269 | 8.68216E-68 | 126731 | C1orf96 |
| 0.049808111 | 1.13641E-67 | 6998 | TDGF1P3 |
| 0.049803457 | 1.16909E-67 | 400793 | C1orf226 |
| 0.049773336 | 1.4045E-67 | 84190 | C12orf26 |
| 0.049727605 | 1.85524E-67 | 374395 | TMEM179B |
| 0.049718404 | 1.96204E-67 | 55034 | MOCOS |
| 0.049717933 | 1.96767E-67 | 79762 | C1orf115 |
| 0.049717813 | 1.9691E-67 | 30008 | EFEMP2 |
| 0.049708294 | 2.08646E-67 | 138009 | DCAF4L2 |
| 0.049701531 | 2.17404E-67 | 26261 | FBXO24 |
| 0.049658826 | 2.81829E-67 | 283152 | CCDC153 |
| 0.0496362 | 4.11592E-67 | 10874 | NMU |
| 0.049583103 | 4.46292E-67 | 55937 | APOM |
| 0.049534742 | 5.98349E-67 | 5164 | PDK2 |
| 0.049532654 | 6.05969E-67 | 515 | ATP5F1 |
| 0.049483914 | 8.14054E-67 | 51690 | LSM7 |
| 0.049460172 | 9.39847E-67 | 2770 | GNAI1 |
| 0.049427607 | 1.14447E-66 | 689 | BTF3 |
| 0.049416526 | 1.22376E-66 | 8507 | ENC1 |
| 0.049414174 | 1.24129E-66 | 158293 | FAM120AOS |
| 0.049403367 | 1.32508E-66 | 144132 | DNHD1 |
| 0.049397094 | 1.37628E-66 | 11079 | RER1 |
| 0.049379924 | 1.52673E-66 | 1717 | DHCR7 |
| 0.049366599 | 1.65468E-66 | 84892 | C3orf39 |
| 0.04935719 | 1.75143E-66 | 26012 | NELF |
| 0.049344433 | 1.89165E-66 | 3069 | HDLBP |
| 0.049342468 | 1.91422E-66 | 5671 | PSG3 |
| 0.04933894 | 1.95541E-66 | 84062 | DTNBP1 |
| 0.049324298 | 2.13607E-66 | 10626 | TRIM16 |
| 0.049313035 | 2.28628E-66 | 64285 | RHBDF1 |
| 0.049279216 | 2.80353E-66 | 11171 | STRAP |
| 0.049262758 | 3.09589E-66 | 114814 | GNRHR2 |
| 0.049259917 | 3.14936E-66 | 54511 | HMGCLL1 |
| 0.049247133 | 3.40155E-66 | 4646 | MYO6 |
| 0.049234629 | 3.66765E-66 | 54843 | SYTL2 |
| 0.049225684 | 3.87066E-66 | 57144 | PAK7 |
| 0.049201166 | 4.48635E-66 | 1521 | CTSW |
| 0.049163093 | 1.29114E-65 | 10125 | RASGRP1 |
| 0.049147835 | 6.18341E-66 | 84433 | CARD11 |
| 0.049139291 | 6.50934E-66 | 85437 | ZCRB1 |
| 0.049138831 | 6.52736E-66 | 4967 | OGDH |
| 0.04912596 | 7.05238E-66 | 221937 | FOXK1 |
| 0.049119046 | 7.35159E-66 | 5265 | SERPINA1 |
| 0.049101652 | 8.1614E-66 | 3115 | HLA-DPB1 |
| 0.049050998 | 2.52233E-65 | 23677 | SH3BP4 |
| 0.049046299 | 1.16147E-65 | 123920 | CMTM3 |
| 0.049025001 | 1.29293E-65 | 375704 | ENHO |
| 0.049004244 | 1.4643E-65 | 27258 | LSM3 |
| 0.048995642 | 1.54179E-65 | 374882 | TMEM205 |
| 0.048966313 | 1.83802E-65 | 6617 | SNAPC1 |
| 0.048953231 | 1.98784E-65 | 728470 | LOC728470 |
| 0.048934773 | 2.22013E-65 | 644096 | SDHAF1 |
| 0.048934232 | 2.22733E-65 | 202051 | AC135457.3 |
| 0.048933518 | 2.23687E-65 | 51430 | C1orf9 |
| 0.048929115 | 2.29661E-65 | 54886 | PPAPR3 |
| 0.048909913 | 2.57631E-65 | 284434 | NWD1 |

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|---|---|---|---|---|---|
| 0.113765456 | 0.100127286 | 0.426 | 1 | 391257 | SUMO1P1 |
| 0.113762865 | 0.100135059 | 0.392 | 1 | 1593 | CYP27A1 |
| 0.113735653 | 0.100216699 | 0.421 | 1 | 59349 | KLHL12 |
| 0.113692892 | 0.100345097 | 0.439 | 1 | 134111 | UBE2QL1 |
| 0.113651427 | 0.100469729 | 0.43 | 1 | 4637 | MYL6 |
| 0.113629399 | 0.100535989 | 0.464 | 1 | 158135 | TTLL11 |
| 0.113437622 | 0.101114311 | 0.386 | 1 | 1536 | CYBB |
| 0.113410411 | 0.101196583 | 0.404 | 1 | 1362 | CPD |
| 0.113410411 | 0.101196583 | 0.436 | 1 | 2870 | GRK6 |
| 0.113389678 | 0.101259302 | 0.46 | 1 | 2010 | EMD |
| 0.113368946 | 0.101322052 | 0.408 | 1 | 3817 | KLK2 |
| 0.113365058 | 0.101333821 | 0.434 | 1 | 63891 | RNF123 |
| 0.113336551 | 0.101420161 | 0.438 | 1 | 81603 | TRIM8 |
| 0.11324455 | 0.101699199 | 0.424 | 1 | 26960 | NBEA |
| 0.113221226 | 0.101770038 | 0.451 | 1 | 54663 | WDR74 |
| 0.113183648 | 0.101884249 | 0.426 | 1 | 84769 | MPV17L2 |
| 0.113164212 | 0.101943363 | 0.418 | 1 | 219333 | USP12 |
| 0.113156437 | 0.101967017 | 0.439 | 1 | 203 | AK1 |
| 0.113126634 | 0.102057728 | 0.405 | 1 | 27077 | B9D1 |
| 0.113033337 | 0.102342108 | 0.447 | 1 | 103910 | MYL12B |
| 0.112975027 | 0.102520164 | 0.414 | 1 | 646870 | LOC646870 |
| 0.112925787 | 0.102670713 | 0.444 | 1 | 220832 | FABP5P3 |
| 0.112860998 | 0.102869069 | 0.424 | 1 | 9896 | FIG4 |
| 0.112832491 | 0.102956443 | 0.398 | 1 | 26230 | TIAM2 |
| 0.112787138 | 0.103095566 | 0.415 | 1 | 23029 | RBM34 |
| 0.11276511 | 0.103163194 | 0.446 | 1 | 84298 | LLPH |
| 0.112730123 | 0.103270675 | 0.411 | 1 | 22802 | CLCA4 |
| 0.112723645 | 0.103290589 | 0.389 | 1 | 55659 | ZNF416 |
| 0.112657559 | 0.103493881 | 0.42 | 1 | 60489 | APOBEC3G |
| 0.112609615 | 0.103641565 | 0.425 | 1 | 60496 | AASDHPPT |
| 0.112595362 | 0.103685504 | 0.429 | 1 | 135228 | CD109 |
| 0.112594066 | 0.103689499 | 0.424 | 1 | 8767 | RIPK2 |
| 0.112526685 | 0.103897413 | 0.414 | 1 | 66002 | CYP4F12 |
| 0.112442459 | 0.104157768 | 0.418 | 1 | 23411 | SIRT1 |
| 0.112338796 | 0.104478913 | 0.468 | 1 | 57718 | PPP4R4 |
| 0.112331021 | 0.104503031 | 0.435 | 1 | 84920 | ALG10 |
| 0.11232843 | 0.104511071 | 0.415 | 1 | 129138 | ANKRD54 |
| 0.112292148 | 0.104623683 | 0.43 | 1 | 389033 | AC079776.2 |
| 0.112268824 | 0.104696128 | 0.414 | 1 | 23440 | OTP |
| 0.112267528 | 0.104700154 | 0.386 | 1 | 54937 | SOHLH2 |
| 0.112179414 | 0.104974199 | 0.464 | 1 | 7464 | CORO2A |
| 0.112179414 | 0.104974199 | 0.42 | 1 | 148870 | CCDC27 |
| 0.112154795 | 0.105050871 | 0.439 | 1 | 5270 | SERPINE2 |
| 0.112132766 | 0.10511951 | 0.432 | 1 | 400 | ARL1 |
| 0.112117217 | 0.105167983 | 0.407 | 1 | 83468 | GLT8D2 |
| 0.112113329 | 0.105180104 | 0.407 | 1 | 404217 | CTXN1 |
| 0.112104259 | 0.10520839 | 0.438 | 1 | 83549 | UCK1 |
| 0.112091301 | 0.105248809 | 0.464 | 1 | 116064 | LRRC58 |
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| 0.112069273 | 0.105317551 | 0.431 | 1 | 2209 | FCGR1A |
| 0.112026512 | 0.105451091 | 0.402 | 1 | 79703 | C11orf80 |
| 0.112020033 | 0.105471335 | 0.454 | 1 | 84319 | C3orf26 |
| 0.111929328 | 0.105755087 | 0.446 | 1 | 642909 | LOC642909 |
| 0.11188268 | 0.105901251 | 0.378 | 1 | 1992 | SERPINB1 |
| 0.111846398 | 0.106015044 | 0.437 | 1 | 4916 | NTRK3 |
| 0.111811411 | 0.106124865 | 0.413 | 1 | 8635 | RNASET2 |
| 0.111789383 | 0.106194057 | 0.437 | 1 | 2990 | GUSB |
| 0.111788087 | 0.106198128 | 0.429 | 1 | 5210 | PFKFB4 |
| 0.111737552 | 0.106357002 | 0.444 | 1 | 165215 | FAM171B |
| 0.111715523 | 0.106426314 | 0.452 | 1 | 339541 | C1orf228 |
| 0.11170127 | 0.106471181 | 0.428 | 1 | 9493 | KIF23 |
| 0.111649438 | 0.106634462 | 0.418 | 1 | 84239 | ATP13A4 |
| 0.111637776 | 0.106671227 | 0.431 | 1 | 387836 | CLEC2A |
| 0.111626114 | 0.106708002 | 0.439 | 1 | 3676 | ITGA4 |
| 0.111560029 | 0.106916584 | 0.461 | 1 | 55627 | SMPD4 |
| 0.111452479 | 0.107256728 | 0.468 | 1 | 134526 | ACOT12 |
| 0.111400647 | 0.107420957 | 0.436 | 1 | 2979 | GUCA1B |
| 0.11138121 | 0.107482594 | 0.444 | 1 | 57494 | AC092490.2 |
| 0.111339745 | 0.107614179 | 0.462 | 1 | 55808 | ST6GALNAC1 |
| 0.111286618 | 0.107782958 | 0.461 | 1 | 2844 | GPR21 |
| 0.111184251 | 0.108108753 | 0.454 | 1 | 23358 | USP24 |
| 0.111180364 | 0.108121141 | 0.447 | 1 | 645843 | TMEM14E |
| 0.111096138 | 0.108389805 | 0.434 | 1 | 84669 | USP32 |
| 0.111036531 | 0.108580255 | 0.455 | 1 | 5693 | PSMB5 |
| 0.11097563 | 0.108775116 | 0.442 | 1 | 5886 | RAD23A |
| 0.110966559 | 0.108804161 | 0.41 | 1 | 37 | ACADVL |
| 0.110938052 | 0.108895487 | 0.479 | 1 | 4086 | SMAD1 |
| 0.11088622 | 0.109061687 | 0.433 | 1 | 27128 | CYTH4 |
| 0.110834389 | 0.109228087 | 0.426 | 1 | 348303 | AC011500.2 |
| 0.110818839 | 0.109278046 | 0.43 | 1 | 9363 | RAB33A |
| 0.11077867 | 0.10940719 | 0.464 | 1 | 51061 | TXNDC11 |
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| 0.048890666 | 2.8907E-65 | 79363 | C1orf89 |
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| 0.048835873 | 4.011E-65 | 84440 | RAB11FIP4 |
| 0.048819678 | 4.41842E-65 | 148709 | RP11-480I12.7 |
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| 0.048797282 | 5.05061E-65 | 219537 | SMTNL1 |
| 0.04878918 | 5.30089E-65 | 84706 | GPT2 |
| 0.048781811 | 5.53922E-65 | 2941 | GSTA4 |
| 0.048756361 | 6.44754E-65 | 489 | ATP2A3 |
| 0.048755061 | 6.49773E-65 | 144245 | ALG10B |
| 0.04873256 | 7.43081E-65 | 3903 | LAIR1 |
| 0.048732264 | 7.44394E-65 | 25909 | AHCTF1 |
| 0.048731566 | 7.47498E-65 | 65117 | RSRC2 |
| 0.048728652 | 7.60596E-65 | 283431 | GAS2L3 |
| 0.048724169 | 7.81195E-65 | 10721 | POLQ |
| 0.048700016 | 9.02133E-65 | 4146 | MATN1 |
| 0.048698512 | 9.1025E-65 | 9744 | ACAP1 |
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| 0.048647752 | 1.23149E-64 | 54868 | TMEM104 |
| 0.04863296 | 1.3448E-64 | 93190 | C1orf158 |
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| 0.048585812 | 1.78002E-64 | 2178 | FANCE |
| 0.048580665 | 1.83532E-64 | 10505 | SEMA4F |
| 0.048562975 | 2.03875E-64 | 51363 | CHST15 |
| 0.048542491 | 2.30253E-64 | 10257 | ABCC4 |
| 0.048519236 | 2.64344E-64 | 8412 | BCAR3 |
| 0.0485157 | 2.6995E-64 | 26121 | PRPF31 |
| 0.048496068 | 3.03306E-64 | 4170 | MCL1 |
| 0.04848216 | 3.29391E-64 | 645453 | RLIMP3 |
| 0.04845979 | 3.76115E-64 | 219956 | OR9Q1 |
| 0.048439623 | 4.23874E-64 | 196374 | KRT78 |
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| 0.048421497 | 4.71932E-64 | 81027 | TUBB1 |
| 0.048416159 | 4.87091E-64 | 55907 | CMAS |
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| 0.04840985 | 5.05636E-64 | 7322 | UBE2D2 |
| 0.048400864 | 5.33274E-64 | 4916 | NTRK3 |
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| 0.048311577 | 9.0438E-64 | 6916 | TBXAS1 |
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| 0.048246138 | 1.3311E-63 | 9915 | ARNT2 |
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| 0.048193015 | 1.82102E-63 | 3817 | KLK2 |
| 0.048168966 | 2.09835E-63 | 2834 | PRLHR |
| 0.048150136 | 2.34456E-63 | 29070 | CCDC113 |
| 0.048145829 | 2.4048E-63 | 1004 | CDH6 |
| 0.048125267 | 2.71436E-63 | 57515 | SERINC1 |
| 0.048103498 | 3.08546E-63 | 10418 | SPON1 |
| 0.048097366 | 3.19883E-63 | 23048 | FNBP1 |
| 0.04808306 | 3.47974E-63 | 255275 | MYADML2 |
| 0.048076658 | 3.61326E-63 | 79595 | SAP130 |
| 0.048067288 | 3.81797E-63 | 25801 | GCA |
| 0.04805552 | 4.09152E-63 | 11230 | PRAF2 |
| 0.048054807 | 4.1087E-63 | 57633 | LRRN1 |
| 0.048051798 | 4.18204E-63 | 23295 | MGRN1 |
| 0.048050603 | 4.21152E-63 | 84268 | RPAIN |
| 0.048020514 | 5.02611E-63 | 3067 | HDC |
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| 0.110634838 | 0.109870592 | 0.429 | 1 | 1118 | CHIT1 |
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| 0.110566161 | 0.110092399 | 0.466 | 1 | 11001 | SLC27A2 |
| 0.110564865 | 0.110096588 | 0.44 | 1 | 56731 | SLC2A4RG |
| 0.11056357 | 0.110100776 | 0.443 | 1 | 119358 | SNRPD2P1 |
| 0.11049878 | 0.110310363 | 0.476 | 1 | 57050 | UTP3 |
| 0.110485822 | 0.110352318 | 0.393 | 1 | 5238 | PGM3 |
| 0.110475456 | 0.110385891 | 0.424 | 1 | 26579 | MYEOV |
| 0.110470273 | 0.110402681 | 0.428 | 1 | 148545 | NBPF4 |
| 0.110463794 | 0.110423671 | 0.416 | 1 | 23505 | TMEM131 |
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| 0.110419737 | 0.110566484 | 0.432 | 1 | 29929 | ALG6 |
| 0.11031737 | 0.110898875 | 0.423 | 1 | 900 | CCNG1 |
| 0.110305708 | 0.110936792 | 0.461 | 1 | 3320 | HSP90AA2 |
| 0.110248694 | 0.111122311 | 0.443 | 1 | 285759 | RP11-544L8__B.4 |
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| 0.110147622 | 0.111451784 | 0.443 | 1 | 84320 | ACBD6 |
| 0.110130777 | 0.111506771 | 0.399 | 1 | 6376 | CX3CL1 |
| 0.110117819 | 0.111549082 | 0.459 | 1 | 83873 | GPR61 |
| 0.110098383 | 0.111612574 | 0.433 | 1 | 7827 | NPHS2 |
| 0.110076354 | 0.111684565 | 0.418 | 1 | 1175 | AP2S1 |
| 0.110075058 | 0.111688801 | 0.422 | 1 | 729993 | AC092324.1 |
| 0.110037481 | 0.111811697 | 0.458 | 1 | 255877 | BCL6B |
| 0.110018044 | 0.111875306 | 0.449 | 1 | 2550 | GABBR1 |
| 0.109993424 | 0.111955918 | 0.439 | 1 | 7534 | YWHAZ |
| 0.109942888 | 0.112121527 | 0.448 | 1 | 3049 | HBQ1 |
| 0.109939001 | 0.112134274 | 0.425 | 1 | 50859 | SPOCK3 |
| 0.109879395 | 0.112329872 | 0.474 | 1 | 25904 | CNOT10 |
| 0.109856071 | 0.112406483 | 0.426 | 1 | 11162 | NUDT6 |
| 0.109808127 | 0.11256409 | 0.438 | 1 | 347365 | ITIH5L |
| 0.109725196 | 0.112837117 | 0.433 | 1 | 79856 | SNX22 |
| 0.10969021 | 0.112952455 | 0.425 | 1 | 5912 | RAP2B |
| 0.109668182 | 0.113025123 | 0.432 | 1 | 8862 | APLN |
| 0.109625421 | 0.11316629 | 0.456 | 1 | 5655 | KLK10 |
| 0.109613759 | 0.113204813 | 0.414 | 1 | 57532 | NUFIP2 |
| 0.10960728 | 0.11322622 | 0.457 | 1 | 6597 | SMARCA4 |
| 0.109594322 | 0.113269043 | 0.392 | 1 | 317762 | CCDC85C |
| 0.109587843 | 0.113290459 | 0.418 | 1 | 219970 | GLYATL2 |
| 0.10958266 | 0.113307594 | 0.458 | 1 | 10960 | LMAN2 |
| 0.109538603 | 0.113453324 | 0.448 | 1 | 84310 | C7orf50 |
| 0.10947511 | 0.113663606 | 0.401 | 1 | 114793 | FMNL2 |
| 0.109460856 | 0.113710854 | 0.474 | 1 | 55759 | WDR12 |
| 0.109409025 | 0.113882795 | 0.438 | 1 | 7042 | TGFB2 |
| 0.109393475 | 0.113934417 | 0.455 | 1 | 121981 | PPIAP26 |
| 0.109357193 | 0.11405494 | 0.432 | 1 | 375307 | C2orf62 |
| 0.109265192 | 0.114360997 | 0.476 | 1 | 140576 | S100A16 |
| 0.109241868 | 0.114438692 | 0.476 | 1 | 401466 | C8orf59 |
| 0.109205586 | 0.114559631 | 0.426 | 1 | 3782 | KCNN3 |
| 0.109142093 | 0.114771517 | 0.424 | 1 | 84792 | C7orf70 |
| 0.109074712 | 0.11499671 | 0.437 | 1 | 3161 | HMMR |
| 0.109060458 | 0.115044391 | 0.441 | 1 | 6565 | SLC15A2 |
| 0.109037134 | 0.115122448 | 0.439 | 1 | 1861 | TOR1A |
| 0.109006035 | 0.115226589 | 0.453 | 1 | 441052 | LOC441052 |
| 0.1088324 | 0.115809396 | 0.447 | 1 | 163050 | ZNF564 |
| 0.108820738 | 0.115848622 | 0.391 | 1 | 283663 | AC016525.1 |
| 0.10879223 | 0.115944552 | 0.42 | 1 | 121793 | C13orf16 |
| 0.108761132 | 0.116049274 | 0.446 | 1 | 10221 | TRIB1 |
| 0.108755948 | 0.116066735 | 0.411 | 1 | 780529 | LOC780529 |
| 0.108715779 | 0.116202126 | 0.381 | 1 | 79725 | THAP9 |
| 0.108702821 | 0.116245827 | 0.451 | 1 | 1374 | CPT1A |
| 0.108687272 | 0.116298285 | 0.469 | 1 | 401548 | SNX30 |
| 0.10863544 | 0.116473278 | 0.444 | 1 | 389058 | SP5 |
| 0.108616004 | 0.116538953 | 0.456 | 1 | 5265 | SERPINA1 |
| 0.108566764 | 0.116705461 | 0.41 | 1 | 84689 | MS4A14 |
| 0.108548623 | 0.116766852 | 0.419 | 1 | 64098 | PARVG |
| 0.108451439 | 0.117096166 | 0.431 | 1 | 79258 | MMEL1 |
| 0.108426819 | 0.117179707 | 0.44 | 1 | 128954 | GAB4 |
| 0.108408678 | 0.117241293 | 0.456 | 1 | 11023 | VAX1 |
| 0.108350368 | 0.11743942 | 0.451 | 1 | 90246 | LOC90246 |
| 0.108324452 | 0.117527561 | 0.465 | 1 | 79632 | FAM184A |
| 0.108303719 | 0.11759811 | 0.448 | 1 | 116349 | C5orf55 |
| 0.108290761 | 0.117642221 | 0.415 | 1 | 11122 | PTPRT |
| 0.108284282 | 0.11766428 | 0.468 | 1 | 54097 | FAM3B |
| 0.108260958 | 0.117743723 | 0.412 | 1 | 90231 | KIAA2013 |
| 0.108237634 | 0.117823207 | 0.479 | 1 | 6527 | SLC5A4 |
| 0.108227268 | 0.117858547 | 0.484 | 1 | 286530 | P2RY8 |
| 0.108224676 | 0.117867384 | 0.452 | 1 | 5336 | PLCG2 |
| 0.108210423 | 0.117915992 | 0.487 | 1 | 80731 | THSD7B |
| 0.108206535 | 0.117929252 | 0.477 | 1 | 11188 | NISCH |
| 0.108196169 | 0.117964616 | 0.44 | 1 | 170850 | KCNG3 |
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| 0.047623413 | 5.13147E-62 | 401190 | RGS7BP |
| 0.047586647 | 6.35682E-62 | 134285 | TMEM171 |
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| 0.047514962 | 9.64619E-62 | 9595 | CYTIP |
| 0.047479287 | 1.18684E-61 | 147381 | CBLN2 |
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| 0.047472742 | 1.23283E-61 | 10282 | BET1 |
| 0.047468383 | 1.26443E-61 | 6449 | SGTA |
| 0.047466545 | 1.278E-61 | 92 | ACVR2A |
| 0.047462312 | 1.30981E-61 | 6702 | SPRR2C |
| 0.047437555 | 1.51225E-61 | 10892 | MALT1 |
| 0.047431942 | 1.56233E-61 | 254778 | C8orf46 |
| 0.047428964 | 1.58956E-61 | 57179 | KIAA1191 |
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| 0.047421528 | 1.65965E-61 | 10351 | ABCA8 |
| 0.047389643 | 1.99678E-61 | 154807 | VKORC1L1 |
| 0.047368824 | 2.2529E-61 | 100190939 | XXyac-R12DG2.1 |
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| 0.047299618 | 3.36357E-61 | 26538 | OR10H2 |
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| 0.047244431 | 4.62827E-61 | 6118 | RPA2 |
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| 0.047194298 | 6.18307E-61 | 5026 | P2RX5 |
| 0.047181875 | 6.64282E-61 | 283358 | B4GALNT3 |
| 0.047179134 | 6.74873E-61 | 332 | BIRC5 |
| 0.047157602 | 7.64167E-61 | 140612 | ZFP28 |
| 0.04715123 | 7.92785E-61 | 79701 | C17orf101 |
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| 0.04704557 | 1.4574E-60 | 51309 | ARMCX1 |
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| 0.047000814 | 1.88541E-60 | 5626 | PROP1 |
| 0.046999497 | 1.89975E-60 | 23135 | KDM6B |
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| 0.046993227 | 1.96949E-60 | 26118 | WSB1 |
| 0.046985691 | 2.0567E-60 | 226 | ALDOA |
| 0.04698313 | 2.08719E-60 | 730101 | RP1-152L7.5 |
| 0.046982092 | 2.09968E-60 | 9320 | TRIP12 |
| 0.046976876 | 2.16359E-60 | 2055 | CLN8 |
| 0.046965121 | 2.31479E-60 | 9659 | PDE4DIP |
| 0.046962848 | 2.34523E-60 | 55691 | FRMD4A |
| 0.046958953 | 2.39831E-60 | 128240 | APOA1BP |
| 0.046942789 | 2.63167E-60 | 84464 | BTBD12 |
| 0.046938599 | 2.69576E-60 | 223082 | ZNRF2 |
| 0.046936306 | 2.73149E-60 | 84705 | GTPBP3 |
| 0.046926088 | 2.89656E-60 | 26505 | CNNM3 |

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| 0.10813138 | 0.118185833 | 0.428 | 1 | 496 | ATP4B |
| 0.108048449 | 0.118469462 | 0.477 | 1 | 57149 | LYRM1 |
| 0.108040675 | 0.11849608 | 0.472 | 1 | 54838 | C10orf26 |
| 0.108035492 | 0.118513827 | 0.465 | 1 | 27343 | POLL |
| 0.107987547 | 0.118678091 | 0.47 | 1 | 337968 | KRTAP6-3 |
| 0.107986252 | 0.118682533 | 0.45 | 1 | 648771 | LOC648771 |
| 0.107877406 | 0.119056124 | 0.421 | 1 | 6490 | SILV |
| 0.107825574 | 0.119234347 | 0.429 | 1 | 8611 | PPAP2A |
| 0.107821687 | 0.119247722 | 0.453 | 1 | 6693 | SPN |
| 0.1078178 | 0.119261098 | 0.417 | 1 | 116085 | SLC22A12 |
| 0.107800954 | 0.119319075 | 0.455 | 1 | 10827 | FAM114A2 |
| 0.107794475 | 0.11934138 | 0.437 | 1 | 400027 | LOC400027 |
| 0.107699883 | 0.1196674 | 0.451 | 1 | 29997 | GLTSCR2 |
| 0.107695996 | 0.119680813 | 0.44 | 1 | 23215 | BAT2D1 |
| 0.107671376 | 0.119765789 | 0.412 | 1 | 23031 | MAST3 |
| 0.107653235 | 0.119828432 | 0.486 | 1 | 51006 | SLC35C2 |
| 0.107644164 | 0.119859764 | 0.45 | 1 | 54900 | LAX1 |
| 0.107628615 | 0.11991349 | 0.455 | 1 | 5635 | PRPSAP1 |
| 0.107628615 | 0.11991349 | 0.38 | 1 | 339768 | ESPNL |
| 0.107592333 | 0.120038923 | 0.443 | 1 | 100133036 | FAM95B1 |
| 0.107581967 | 0.12007478 | 0.483 | 1 | 4640 | MYO1A |
| 0.107519769 | 0.120290096 | 0.42 | 1 | 2902 | GRIN1 |
| 0.107484783 | 0.120411343 | 0.427 | 1 | 4296 | MAP3K11 |
| 0.107362979 | 0.120834206 | 0.449 | 1 | 2023 | ENO1 |
| 0.107362979 | 0.120834206 | 0.47 | 1 | 54778 | RNF111 |
| 0.107299485 | 0.121055092 | 0.467 | 1 | 222161 | DKFZP586I1420 |
| 0.107267091 | 0.12116791 | 0.453 | 1 | 1586 | CYP17A1 |
| 0.107235992 | 0.121276293 | 0.434 | 1 | 164714 | TTLL8 |
| 0.10720878 | 0.121371189 | 0.45 | 1 | 645879 | FAM90A12P |
| 0.107204893 | 0.12138475 | 0.473 | 1 | 84070 | FAM186B |
| 0.107188048 | 0.12144353 | 0.434 | 1 | 57511 | COG6 |
| 0.107146583 | 0.121588312 | 0.45 | 1 | 84795 | PYROXD2 |
| 0.107142695 | 0.121601892 | 0.443 | 1 | 1843 | DUSP1 |
| 0.107106413 | 0.121728697 | 0.433 | 1 | 2030 | SLC29A1 |
| 0.107106413 | 0.121728697 | 0.44 | 1 | 5329 | PLAUR |
| 0.107079202 | 0.121823869 | 0.454 | 1 | 23608 | MKRN1 |
| 0.107064948 | 0.121873744 | 0.443 | 1 | 9987 | HNRPDL |
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| 0.106941848 | 0.122305142 | 0.442 | 1 | 100169750 | PRINS |
| 0.106912045 | 0.122409764 | 0.462 | 1 | 7568 | ZNF20 |
| 0.106909454 | 0.122418864 | 0.481 | 1 | 51548 | SIRT6 |
| 0.106899087 | 0.122455273 | 0.469 | 1 | 83538 | TTC25 |
| 0.106891313 | 0.122482585 | 0.48 | 1 | 10902 | BRD8 |
| 0.106884834 | 0.122505349 | 0.464 | 1 | 285855 | RPL7L1 |
| 0.106860214 | 0.122591881 | 0.43 | 1 | 3361 | HTR5A |
| 0.106830411 | 0.122696693 | 0.481 | 1 | 79622 | SNRNP25 |
| 0.106786354 | 0.122851761 | 0.434 | 1 | 22936 | ELL2 |
| 0.106769509 | 0.122911092 | 0.461 | 1 | 342527 | SMTNL2 |
| 0.10676303 | 0.122933917 | 0.455 | 1 | 7486 | WRN |
| 0.106760438 | 0.122943048 | 0.445 | 1 | 4644 | MYO5A |
| 0.106752664 | 0.122970445 | 0.461 | 1 | 57704 | GBA2 |
| 0.106741002 | 0.123011548 | 0.456 | 1 | 148281 | SYT6 |
| 0.106735818 | 0.12302982 | 0.449 | 1 | 10435 | CDC42EP2 |
| 0.106726748 | 0.123061801 | 0.449 | 1 | 390205 | AP003108.2 |
| 0.106712494 | 0.123112069 | 0.456 | 1 | 1892 | ECHS1 |
| 0.106637339 | 0.123377383 | 0.47 | 1 | 55074 | OXR1 |
| 0.106619198 | 0.123441491 | 0.468 | 1 | 23168 | RTF1 |
| 0.106598465 | 0.123514789 | 0.45 | 1 | 5149 | PDE6H |
| 0.106588099 | 0.12355145 | 0.437 | 1 | 90864 | SPSB3 |
| 0.106546634 | 0.123698181 | 0.463 | 1 | 401494 | PTPLAD2 |
| 0.106415759 | 0.124162187 | 0.455 | 1 | 113000 | RPUSD1 |
| 0.106396323 | 0.124231214 | 0.437 | 1 | 51693 | TRAPPC2L |
| 0.106357449 | 0.124369357 | 0.488 | 1 | 57465 | TBC1D24 |
| 0.106349674 | 0.124397 | 0.447 | 1 | 91653 | BOC |
| 0.106328942 | 0.124470737 | 0.446 | 1 | 54935 | DUSP23 |
| 0.106328942 | 0.124470737 | 0.443 | 1 | 57571 | ATPGD1 |
| 0.106328942 | 0.124470737 | 0.425 | 1 | 81566 | CSRNP2 |
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| 0.106280998 | 0.124641386 | 0.434 | 1 | 132851 | SPATA4 |
| 0.106257673 | 0.124724469 | 0.439 | 1 | 353149 | TBC1D26 |
| 0.106137165 | 0.125154419 | 0.462 | 1 | 51255 | RNF181 |
| 0.106050348 | 0.12546488 | 0.448 | 1 | 729338 | CETN4P |
| 0.105960939 | 0.125785231 | 0.445 | 1 | 115265 | DDIT4L |
| 0.105945389 | 0.125841009 | 0.44 | 1 | 32 | ACACB |
| 0.105884487 | 0.126059657 | 0.478 | 1 | 10591 | C6orf108 |
| 0.105824881 | 0.126273938 | 0.456 | 1 | 127733 | UBXN10 |
| 0.105819698 | 0.126292584 | 0.455 | 1 | 139818 | DOCK11 |
| 0.105718627 | 0.126656616 | 0.464 | 1 | 84034 | EMILIN2 |
| 0.10568364 | 0.126782816 | 0.449 | 1 | 11275 | KLHL2 |
| 0.105564428 | 0.127213562 | 0.472 | 1 | 51233 | C22orf43 |
| 0.105543696 | 0.12728859 | 0.439 | 1 | 9066 | SYT7 |
| 0.105539808 | 0.127302661 | 0.472 | 1 | 1501 | CTNND2 |

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| 0.046890934 | 3.54409E-60 | 80263 | TRIM45 |
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| 0.046854209 | 4.37495E-60 | 55148 | UBR7 |
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| 0.046838609 | 4.78414E-60 | 80863 | PRRT1 |
| 0.046834863 | 4.88796E-60 | 7353 | UFD1L |
| 0.046826344 | 5.13247E-60 | 345456 | PFN3 |
| 0.046820824 | 5.29737E-60 | 51715 | RAB23 |
| 0.04681396 | 5.5098E-60 | 9823 | ARMCX2 |
| 0.046813748 | 5.51649E-60 | 123722 | FSD2 |
| 0.046805265 | 5.79113E-60 | 3099 | HK2 |
| 0.046804188 | 5.82694E-60 | 84876 | ORAI1 |
| 0.046789375 | 6.34271E-60 | 57622 | LRFN1 |
| 0.046759017 | 7.5462E-60 | 116511 | MAS1L |
| 0.046755585 | 7.69583E-60 | 5127 | PCTK1 |
| 0.046721508 | 9.35159E-60 | 23040 | MYT1L |
| 0.046718763 | 9.49949E-60 | 259295 | TAS2R20 |
| 0.046715622 | 9.6716E-60 | 5980 | REV3L |
| 0.046699933 | 1.05788E-59 | 3992 | FADS1 |
| 0.046697565 | 1.07229E-59 | 170591 | S100Z |
| 0.046690762 | 1.11478E-59 | 3460 | IFNGR2 |
| 0.046680369 | 1.18297E-59 | 90070 | LACRT |
| 0.046676673 | 1.2082E-59 | 130940 | CCDC148 |
| 0.046676245 | 1.21116E-59 | 54553 | DKFZP434I0714 |
| 0.046661348 | 1.3187E-59 | 50807 | ASAP1 |
| 0.046645587 | 1.44284E-59 | 9260 | PDLIM7 |
| 0.046643993 | 1.45602E-59 | 27185 | DISC1 |
| 0.046638148 | 1.50541E-59 | 10907 | TXNL4A |
| 0.046632104 | 1.55823E-59 | 55741 | EDEM2 |
| 0.046622212 | 1.6487E-59 | 124995 | MRPL10 |
| 0.046617078 | 1.69769E-59 | 57678 | GPAM |
| 0.046615579 | 1.71227E-59 | 908 | CCT6A |
| 0.046612761 | 1.74001E-59 | 158801 | NKAPP1 |
| 0.046600651 | 1.86441E-59 | 389432 | SAMD5 |
| 0.046598136 | 1.89134E-59 | 8999 | CDKL2 |
| 0.046585239 | 2.03563E-59 | 3267 | AGFG1 |
| 0.04658338 | 2.05732E-59 | 55773 | TBC1D23 |
| 0.046582315 | 2.06984E-59 | 9342 | SNAP29 |
| 0.04658 | 2.09734E-59 | 64598 | MOSPD3 |
| 0.046559192 | 2.36134E-59 | 375790 | AGRN |
| 0.046551317 | 2.46968E-59 | 54585 | LZTFL1 |
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| 0.046518873 | 2.97075E-59 | 11148 | HHLA2 |
| 0.046516613 | 3.00921E-59 | 55384 | MEG3 |
| 0.046453992 | 4.29668E-59 | 8729 | GBF1 |
| 0.046435068 | 4.7845E-59 | 57535 | KIAA1324 |
| 0.046416019 | 5.33125E-59 | 118856 | MMP21 |
| 0.046411588 | 5.4671E-59 | 152006 | RNF38 |
| 0.046405927 | 5.6457E-59 | 146849 | CCDC42 |
| 0.046400483 | 5.82293E-59 | 64800 | EFCAB6 |
| 0.046397024 | 5.93842E-59 | 5730 | PTGDS |
| 0.046385663 | 6.33398E-59 | 527 | ATP6V0C |
| 0.046374724 | 6.73962E-59 | 8625 | RFXANK |
| 0.046361513 | 7.26419E-59 | 5537 | PPP6C |
| 0.046355558 | 7.51375E-59 | 5179 | PENK |
| 0.046351864 | 7.67281E-59 | 3423 | IDS |
| 0.046348597 | 7.81629E-59 | 1608 | DGKG |
| 0.046348103 | 7.83822E-59 | 6500 | SKP1 |
| 0.04634219 | 8.10552E-59 | 5920 | RARRES3 |
| 0.046328582 | 8.75561E-59 | 3373 | HYAL1 |
| 0.046316367 | 9.38322E-59 | 346329 | LOC346329 |
| 0.046304631 | 1.00285E-58 | 51050 | PI15 |
| 0.04628147 | 1.14342E-58 | 55915 | LANCL2 |
| 0.046263869 | 1.26324E-58 | 79931 | TNIP3 |
| 0.046237791 | 1.46413E-58 | 10219 | KLRG1 |
| 0.046230738 | 1.52372E-58 | 10653 | AC011479.2 |
| 0.046210087 | 1.71249E-58 | 4174 | MCM5 |
| 0.0462092 | 1.72109E-58 | 26504 | CNNM4 |
| 0.04620298 | 1.78269E-58 | 10613 | ERLIN1 |
| 0.046198513 | 1.82828E-58 | 1459 | CSNK2A2 |
| 0.046185425 | 1.96864E-58 | 269 | AMHR2 |
| 0.04618377 | 1.98715E-58 | 340260 | UNCX |
| 0.046135242 | 2.61374E-58 | 59348 | ZNF350 |
| 0.046122552 | 2.80782E-58 | 84616 | KRTAP4-4 |
| 0.04611599 | 2.91373E-58 | 64848 | YTHDC2 |
| 0.046096481 | 3.25273E-58 | 80816 | ASXL3 |
| 0.046085464 | 3.46124E-58 | 25793 | FBXO7 |
| 0.046077479 | 3.62063E-58 | 7549 | ZNF2 |
| 0.046077417 | 3.62191E-58 | 285987 | DLX6-AS1 |
| 0.046067992 | 3.81954E-58 | 10008 | KCNE3 |
| 0.046051644 | 4.18816E-58 | 341 | APOC1 |

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| 0.105503526 | 0.127434054 | 0.446 | 1 | 5394 | EXOSC10 |
| 0.105499639 | 0.127448138 | 0.455 | 1 | 401647 | GOLGA7B |
| 0.105494456 | 0.127466918 | 0.456 | 1 | 54462 | KIAA1128 |
| 0.105478906 | 0.127523273 | 0.457 | 1 | 59348 | ZNF350 |
| 0.105401159 | 0.127805334 | 0.483 | 1 | 6468 | FBXW4 |
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| 0.105284538 | 0.128229329 | 0.469 | 1 | 90226 | UCN2 |
| 0.105254735 | 0.128337858 | 0.47 | 1 | 9489 | PGS1 |
| 0.105239186 | 0.12839451 | 0.49 | 1 | 64979 | MRPL36 |
| 0.105217157 | 0.1284748 | 0.455 | 1 | 202151 | RANBP3L |
| 0.105176988 | 0.128621311 | 0.473 | 1 | 440163 | RNASE13 |
| 0.105174397 | 0.128630768 | 0.452 | 1 | 3624 | INHBA |
| 0.105135523 | 0.128772683 | 0.475 | 1 | 1757 | SARDH |
| 0.105135523 | 0.128772683 | 0.465 | 1 | 200035 | NUDT17 |
| 0.105125157 | 0.128810548 | 0.491 | 1 | 644096 | SDHAF1 |
| 0.105116086 | 0.128843687 | 0.484 | 1 | 65996 | AC016629.3 |
| 0.105092762 | 0.128928931 | 0.47 | 1 | 7044 | LEFTY2 |
| 0.105078508 | 0.128981045 | 0.456 | 1 | 26092 | TOR1AIP1 |
| 0.105068142 | 0.129018957 | 0.46 | 1 | 4830 | NME1 |
| 0.105029269 | 0.129161204 | 0.468 | 1 | 729920 | ISPD |
| 0.104976141 | 0.129355803 | 0.438 | 1 | 25758 | C11orf41 |
| 0.10497355 | 0.129365302 | 0.431 | 1 | 4192 | MDK |
| 0.10497355 | 0.129365302 | 0.488 | 1 | 6159 | RPL29 |
| 0.104954113 | 0.129436557 | 0.474 | 1 | 51289 | RXFP3 |
| 0.10494893 | 0.129455564 | 0.471 | 1 | 25960 | GPR124 |
| 0.104942451 | 0.129479325 | 0.496 | 1 | 26043 | UBXN7 |
| 0.104916535 | 0.129574404 | 0.49 | 1 | 8484 | GALR3 |
| 0.104902282 | 0.12962672 | 0.465 | 1 | 149992 | ANKRD30BP2 |
| 0.104803802 | 0.129988624 | 0.436 | 1 | 23060 | ZNF609 |
| 0.104713097 | 0.130322646 | 0.438 | 1 | 57497 | LRFN2 |
| 0.104700139 | 0.130370418 | 0.423 | 1 | 10616 | RBCK1 |
| 0.104665153 | 0.130499468 | 0.466 | 1 | 27102 | EIF2AK1 |
| 0.104643124 | 0.130580773 | 0.464 | 1 | 2171 | FABP5 |
| 0.104602955 | 0.130729134 | 0.453 | 1 | 143187 | VTI1A |
| 0.104522616 | 0.131026248 | 0.452 | 1 | 80237 | ELL3 |
| 0.104514842 | 0.131055029 | 0.443 | 1 | 386677 | KRTAP10-1 |
| 0.10450318 | 0.131098209 | 0.488 | 1 | 7574 | ZNF26 |
| 0.104479855 | 0.131184601 | 0.45 | 1 | 84913 | ATOH8 |
| 0.104474672 | 0.131203806 | 0.497 | 1 | 3429 | IFI27 |
| 0.104378784 | 0.131559478 | 0.484 | 1 | 91156 | IGFN1 |
| 0.104333432 | 0.13172796 | 0.444 | 1 | 79159 | NOL12 |
| 0.10433084 | 0.131737592 | 0.439 | 1 | 5781 | PTPN11 |
| 0.104313995 | 0.131800217 | 0.458 | 1 | 2867 | FFAR2 |
| 0.104275121 | 0.131944824 | 0.476 | 1 | 55800 | SCN3B |
| 0.104219402 | 0.132152306 | 0.462 | 1 | 84312 | BRMS1L |
| 0.104201261 | 0.132219913 | 0.468 | 1 | 221687 | RNF182 |
| 0.104168867 | 0.132340705 | 0.465 | 1 | 347454 | ANKRD58 |
| 0.104146838 | 0.132422893 | 0.492 | 1 | 84225 | ZMYND15 |
| 0.104128697 | 0.132490606 | 0.461 | 1 | 6450 | SH3BGR |
| 0.104040584 | 0.132819878 | 0.474 | 1 | 79412 | KREMEN2 |
| 0.103986161 | 0.133023567 | 0.444 | 1 | 63895 | FAM38B |
| 0.103942104 | 0.133188634 | 0.485 | 1 | 8340 | HIST1H2BL |
| 0.103917484 | 0.133280946 | 0.452 | 1 | 2562 | GABRB3 |
| 0.10390971 | 0.133310107 | 0.455 | 1 | 10399 | GNB2L1 |
| 0.103890273 | 0.133383032 | 0.485 | 1 | 3155 | HMGCL |
| 0.103865653 | 0.133475448 | 0.471 | 1 | 117145 | THEM4 |
| 0.103842329 | 0.133563045 | 0.485 | 1 | 7221 | TRPC2 |
| 0.103802159 | 0.13371401 | 0.438 | 1 | 11017 | SNRNP27 |
| 0.103776244 | 0.133811477 | 0.467 | 1 | 414899 | BLID |
| 0.103669989 | 0.134211662 | 0.404 | 1 | 3748 | KCNC3 |
| 0.103640186 | 0.134324074 | 0.493 | 1 | 100131482 | LOC100131482 |
| 0.103611679 | 0.134431666 | 0.493 | 1 | 10907 | TXNL4A |
| 0.103523565 | 0.134764643 | 0.47 | 1 | 7071 | KLF10 |
| 0.103517087 | 0.134789152 | 0.487 | 1 | 25970 | SH2B1 |
| 0.103479509 | 0.134931369 | 0.48 | 1 | 50856 | CLEC4A |
| 0.103465255 | 0.134985344 | 0.46 | 1 | 50810 | AC024270.1 |
| 0.103436748 | 0.135093343 | 0.479 | 1 | 5450 | POU2AF1 |
| 0.103314944 | 0.135555542 | 0.468 | 1 | 51450 | PRRX2 |
| 0.103263113 | 0.135752591 | 0.468 | 1 | 23591 | FAM215A |
| 0.103234605 | 0.135861061 | 0.496 | 1 | 6620 | SNCB |
| 0.103232014 | 0.135870926 | 0.478 | 1 | 2539 | G6PD |
| 0.103228126 | 0.135885723 | 0.482 | 1 | 2921 | CXCL3 |
| 0.103215168 | 0.135935057 | 0.444 | 1 | 25801 | GCA |
| 0.103187957 | 0.136038702 | 0.49 | 1 | 338675 | OR5AP2 |
| 0.103137421 | 0.136231347 | 0.487 | 1 | 11180 | WDR6 |
| 0.103121872 | 0.136290665 | 0.449 | 1 | 9046 | DOK2 |
| 0.10307004 | 0.136488533 | 0.466 | 1 | 5330 | PLCB2 |
| 0.103051899 | 0.136557839 | 0.465 | 1 | 51067 | YARS2 |
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| 0.102922321 | 0.137053668 | 0.461 | 1 | 222865 | TMEM130 |
| 0.102915842 | 0.137078496 | 0.463 | 1 | 389857 | CENPVL1 |
| 0.102865306 | 0.13727227 | 0.482 | 1 | 136227 | EMID2 |

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| 0.045939974 | 7.85174E-58 | 207107 | SFTA1P |
| 0.045930989 | 8.25848E-58 | 11069 | RAPGEF4 |
| 0.045912382 | 9.16862E-58 | 6736 | SRY |
| 0.045907208 | 9.43904E-58 | 91050 | CCDC149 |
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| 0.045695661 | 3.08895E-57 | 7846 | TUBA1A |
| 0.045683942 | 3.2981E-57 | 130814 | PQLC3 |
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| 0.045648751 | 4.01481E-57 | 2673 | GFPT1 |
| 0.045637455 | 4.27625E-57 | 145165 | ST13P4 |
| 0.045623261 | 4.62894E-57 | 8635 | RNASET2 |
| 0.045593477 | 5.46598E-57 | 9293 | GPR52 |
| 0.045578512 | 5.94181E-57 | 8882 | ZNF259 |
| 0.045567003 | 6.33565E-57 | 154743 | C7orf60 |
| 0.045558688 | 6.63628E-57 | 646424 | SPINK8 |
| 0.045558445 | 6.64529E-57 | 83449 | PMFBP1 |
| 0.045556905 | 6.70258E-57 | 643997 | LOC643997 |
| 0.045554424 | 6.79592E-57 | 1001 | CDH3 |
| 0.045553977 | 6.81288E-57 | 6758 | SSX5 |
| 0.045539724 | 7.37612E-57 | 303 | ANXA2P1 |
| 0.045523918 | 8.05515E-57 | 284207 | METRNL |
| 0.045504148 | 8.99271E-57 | 79674 | VEPH1 |
| 0.045489137 | 9.77647E-57 | 4026 | LPP |
| 0.045486071 | 9.94473E-57 | 63901 | FAM111A |
| 0.045467962 | 1.09992E-56 | 90407 | TMEM41A |
| 0.04544126 | 1.27602E-56 | 10980 | COPS6 |
| 0.045399702 | 1.60756E-56 | 7637 | ZNF84 |
| 0.045391854 | 1.67919E-56 | 51759 | C9orf78 |
| 0.045387981 | 1.7157E-56 | 286151 | FBXO43 |
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| 0.045371923 | 1.87572E-56 | 2764 | GMFB |
| 0.045339769 | 2.24217E-56 | 7143 | TNR |
| 0.0453391 | 2.2505E-56 | 2938 | GSTA1 |
| 0.045328793 | 2.38292E-56 | 26000 | TBC1D10B |
| 0.045303032 | 2.74883E-56 | 84131 | CEP78 |
| 0.04530198 | 2.76491E-56 | 116362 | RBP7 |
| 0.045271711 | 3.26985E-56 | 3839 | KPNA3 |
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| 0.045112048 | 7.90639E-56 | 5355 | PLP2 |
| 0.045100233 | 8.43917E-56 | 81669 | CCNL2 |
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| 0.045092257 | 8.81887E-56 | 2831 | NPBWR1 |
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| 0.102563388 | 0.138434325 | 0.436 | 1 | 4318 | MMP9 |
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| 0.102054144 | 0.140411417 | 0.445 | 1 | 340719 | NANOS1 |
| 0.102019158 | 0.140548037 | 0.479 | 1 | 90024 | AP001816.1 |
| 0.10198158 | 0.14069489 | 0.5 | 1 | 5939 | RBMS2 |
| 0.101975101 | 0.140720221 | 0.46 | 1 | 3437 | IFIT3 |
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| 0.101944003 | 0.14084186 | 0.485 | 1 | 3172 | HNF4A |
| 0.101907721 | 0.140983873 | 0.461 | 1 | 9592 | IER2 |
| 0.101884396 | 0.141075225 | 0.497 | 1 | 56848 | SPHK2 |
| 0.101757409 | 0.141573381 | 0.495 | 1 | 79034 | C7orf26 |
| 0.101753522 | 0.141588652 | 0.449 | 1 | 1508 | CTSB |
| 0.101719832 | 0.141721052 | 0.462 | 1 | 377 | ARF3 |
| 0.101704282 | 0.141782192 | 0.471 | 1 | 330 | BIRC3 |
| 0.101702986 | 0.141787287 | 0.475 | 1 | 9725 | TMEM63A |
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| 0.101629127 | 0.142077984 | 0.504 | 1 | 9070 | ASH2L |
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| 0.101582478 | 0.142261816 | 0.454 | 1 | 64343 | AZI2 |
| 0.101559154 | 0.1423538 | 0.451 | 1 | 131616 | TMEM42 |
| 0.101557858 | 0.142358912 | 0.469 | 1 | 23641 | LDOC1 |
| 0.101509914 | 0.142548138 | 0.499 | 1 | 645323 | LINC00461 |
| 0.10147752 | 0.142676102 | 0.483 | 1 | 66005 | CHID1 |
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| 0.10146197 | 0.142737556 | 0.505 | 1 | 5782 | PTPN12 |
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| 0.101397181 | 0.142993832 | 0.496 | 1 | 92749 | C2orf39 |
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| 0.101292222 | 0.143409744 | 0.5 | 1 | 5926 | ARID4A |
| 0.101288335 | 0.143425166 | 0.505 | 1 | 5701 | PSMC2 |
| 0.101285743 | 0.143435447 | 0.501 | 1 | 9895 | TECPR2 |
| 0.101276673 | 0.143471439 | 0.453 | 1 | 23406 | COTL1 |
| 0.101253349 | 0.143564019 | 0.478 | 1 | 5936 | RBM4 |
| 0.101152278 | 0.143965728 | 0.44 | 1 | 3681 | ITGAD |
| 0.101105629 | 0.14415142 | 0.483 | 1 | 11264 | PXMP4 |
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| 0.101027882 | 0.144461314 | 0.462 | 1 | 10985 | GCN1L1 |
| 0.101014924 | 0.144513012 | 0.479 | 1 | 5251 | PHEX |
| 0.101005854 | 0.144549209 | 0.471 | 1 | 25937 | WWTR1 |
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| 0.100913853 | 0.144916743 | 0.486 | 1 | 3625 | INHBB |
| 0.100897008 | 0.144984114 | 0.451 | 1 | 51134 | CCDC41 |
| 0.100894416 | 0.144994482 | 0.471 | 1 | 1193 | CLIC2 |
| 0.100889233 | 0.145015217 | 0.481 | 1 | 11034 | DSTN |
| 0.100878867 | 0.145056695 | 0.483 | 1 | 84680 | ACCS |
| 0.100858134 | 0.145139679 | 0.488 | 1 | 56729 | RETN |
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| 0.100841289 | 0.14520713 | 0.431 | 1 | 5920 | RARRES3 |
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| 0.100655992 | 0.145950666 | 0.485 | 1 | 8576 | STK16 |
| 0.100640442 | 0.146013192 | 0.485 | 1 | 9989 | PPP4R1 |
| 0.100624893 | 0.146075738 | 0.473 | 1 | 119032 | C10orf32 |
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| 0.044718143 | 6.88996E-55 | 399665 | FAM102A |
| 0.044704727 | 7.41472E-55 | 6526 | SLC5A3 |
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| 0.04452622 | 1.96497E-54 | 2314 | FLII |
| 0.044510613 | 2.13934E-54 | 148327 | CREB3L4 |
| 0.044510046 | 2.14596E-54 | 5143 | PDE4C |
| 0.044498028 | 2.29111E-54 | 5297 | PI4KA |
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| 0.044481931 | 2.50096E-54 | 50618 | ITSN2 |
| 0.044478602 | 2.5467E-54 | 26279 | PLA2G2D |
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| 0.044442433 | 3.10057E-54 | 23214 | XPO6 |
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| 0.044432169 | 3.27854E-54 | 642943 | LOC642943 |
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| 0.044175063 | 1.32149E-53 | 83552 | MFRP |
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| 0.044080792 | 2.19866E-53 | 112939 | NACC1 |
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| 0.044025966 | 2.95478E-53 | 51602 | NOP58 |
| 0.044024924 | 2.97142E-53 | 55816 | DOK5 |
| 0.044011721 | 3.19046E-53 | 5524 | PPP2R4 |
| 0.044007222 | 3.26872E-53 | 124975 | GGT6 |
| 0.043985317 | 3.67788E-53 | 2300 | FOXL1 |
| 0.043975699 | 3.8733E-53 | 1642 | DDB1 |
| 0.043969845 | 3.99726E-53 | 50814 | NSDHL |
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| 0.043954741 | 4.33565E-53 | 57130 | ATP13A1 |
| 0.043925497 | 5.07397E-53 | 79971 | GPR177 |
| 0.043880149 | 6.47386E-53 | 9107 | MTMR6 |
| 0.04387535 | 6.64286E-53 | 57495 | KIAA1239 |
| 0.043856459 | 7.35186E-53 | 84549 | MAK16 |
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| 0.043844029 | 7.859E-53 | 4991 | OR1D2 |
| 0.043817495 | 9.06108E-53 | 387486 | LINC00320 |
| 0.043817244 | 9.07333E-53 | 11274 | USP18 |
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| 0.100407201 | 0.146953532 | 0.468 | 1 | 56681 | SAR1A |
| 0.100405905 | 0.146958769 | 0.494 | 1 | 56990 | CDC42SE2 |
| 0.100382581 | 0.147053059 | 0.461 | 1 | 26534 | OR10G2 |
| 0.10036444 | 0.147126427 | 0.437 | 1 | 340554 | ZC3H12B |
| 0.100351482 | 0.147178849 | 0.486 | 1 | 3614 | IMPDH1 |
| 0.10034889 | 0.147189336 | 0.477 | 1 | 206358 | SLC36A1 |
| 0.10033982 | 0.147226042 | 0.476 | 1 | 54947 | LPCAT2 |
| 0.100312608 | 0.147336203 | 0.486 | 1 | 27335 | EIF3K |
| 0.100312608 | 0.147336203 | 0.464 | 1 | 55341 | LSG1 |
| 0.100306129 | 0.147362441 | 0.466 | 1 | 4610 | MYCL1 |
| 0.100260777 | 0.147546206 | 0.478 | 1 | 55239 | OGFOD1 |
| 0.100176551 | 0.147887947 | 0.484 | 1 | 83850 | ESYT3 |
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| 0.100163593 | 0.147940576 | 0.512 | 1 | 9684 | LRRC14 |
| 0.10010917 | 0.148161773 | 0.494 | 1 | 100128288 | AC135178.1 |
| 0.100106578 | 0.148172312 | 0.503 | 1 | 132001 | C3orf31 |
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| 0.100045676 | 0.148420153 | 0.465 | 1 | 386653 | IL31 |
| 0.099984775 | 0.148668308 | 0.504 | 1 | 3735 | KARS |
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| 0.099922577 | 0.148922069 | 0.525 | 1 | 221785 | ZNF498 |
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| 0.099815027 | 0.149361638 | 0.48 | 1 | 493 | ATP2B4 |
| 0.09980466 | 0.149404059 | 0.478 | 1 | 91289 | LMF2 |
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| 0.09977097 | 0.149541987 | 0.496 | 1 | 10444 | ZER1 |
| 0.099761899 | 0.149579138 | 0.535 | 1 | 93233 | CCDC114 |
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| 0.099634912 | 0.15009999 | 0.464 | 1 | 55190 | NUDT11 |
| 0.099631025 | 0.150115956 | 0.465 | 1 | 123096 | SLC25A29 |
| 0.09959863 | 0.150249057 | 0.472 | 1 | 9570 | GOSR2 |
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| 0.099489784 | 0.150696932 | 0.475 | 1 | 51081 | MRPS7 |
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| 0.0993926 | 0.151097675 | 0.493 | 1 | 5532 | PPP3CB |
| 0.099362797 | 0.151220731 | 0.498 | 1 | 11170 | FAM107A |
| 0.099259134 | 0.151649344 | 0.47 | 1 | 8673 | VAMP8 |
| 0.099071246 | 0.152428549 | 0.449 | 1 | 64106 | NPFFR1 |
| 0.099044034 | 0.15254165 | 0.496 | 1 | 831 | CAST |
| 0.098867807 | 0.153275653 | 0.483 | 1 | 6139 | RPL17P20 |
| 0.098858737 | 0.153313504 | 0.517 | 1 | 10544 | PROCR |
| 0.098845779 | 0.153367591 | 0.494 | 1 | 100188893 | TOMM6 |
| 0.098813384 | 0.153502869 | 0.494 | 1 | 22861 | AC055839.1 |
| 0.098784877 | 0.153621989 | 0.484 | 1 | 51035 | UBXN1 |
| 0.098783581 | 0.153627405 | 0.453 | 1 | 770 | CA11 |
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| 0.09878099 | 0.153638238 | 0.457 | 1 | 64388 | GREM2 |
| 0.098760257 | 0.153724921 | 0.481 | 1 | 1836 | SLC26A2 |
| 0.098727862 | 0.153860438 | 0.472 | 1 | 440119 | RP11-143E21.7 |
| 0.098714904 | 0.15391467 | 0.49 | 1 | 7163 | TPD52 |
| 0.098704538 | 0.153958066 | 0.497 | 1 | 79891 | ZNF671 |
| 0.098626791 | 0.15428383 | 0.489 | 1 | 60482 | SLC5A7 |
| 0.09858403 | 0.154463223 | 0.504 | 1 | 60370 | AVPI1 |
| 0.098529607 | 0.154691768 | 0.455 | 1 | 10640 | EXOC5 |
| 0.098515353 | 0.154751668 | 0.465 | 1 | 26256 | CABYR |
| 0.09847648 | 0.154915119 | 0.498 | 1 | 57567 | ZNF319 |
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| 0.098209548 | 0.156041005 | 0.485 | 1 | 55751 | TMEM184C |
| 0.098124026 | 0.156403029 | 0.497 | 1 | 118429 | ANTXR2 |
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| 0.043655692 | 2.15431E-52 | 1975 | EIF4B |
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| 0.043611837 | 2.72279E-52 | 112752 | C14orf179 |
| 0.043603853 | 2.84133E-52 | 158405 | KIAA1958 |
| 0.043593939 | 2.99567E-52 | 57475 | PLEKHH1 |
| 0.043570912 | 3.38715E-52 | 120364 | LOC120364 |
| 0.043558371 | 3.62137E-52 | 1786 | DNMT1 |
| 0.043546117 | 3.86581E-52 | 645996 | NAP1L6 |
| 0.043533088 | 4.14373E-52 | 55589 | BMP2K |
| 0.043531165 | 4.18639E-52 | 79677 | SMC6 |
| 0.043520108 | 4.44038E-52 | 202299 | C5ORF27 |
| 0.043517193 | 4.50987E-52 | 138307 | LCN8 |
| 0.043512429 | 4.62575E-52 | 112574 | SNX18 |
| 0.043472806 | 5.71185E-52 | 57458 | TMCC3 |
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| 0.04346803 | 5.85884E-52 | 8073 | PTP4A2 |
| 0.043466704 | 5.90034E-52 | 7088 | TLE1 |
| 0.043456013 | 6.24559E-52 | 11156 | PTP4A3 |
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| 0.043394048 | 8.68154E-52 | 5196 | PF4 |
| 0.043357807 | 1.05233E-51 | 284018 | C17orf58 |
| 0.043357275 | 1.0553E-51 | 146771 | TCAM1 |
| 0.043347772 | 1.10988E-51 | 57597 | BAHCC1 |
| 0.04332334 | 1.26343E-51 | 5260 | PHKG1 |
| 0.04331447 | 1.32426E-51 | 90956 | ADCK2 |
| 0.043256231 | 1.80288E-51 | 23098 | SARM1 |
| 0.04323084 | 2.06218E-51 | 79613 | TMCO7 |
| 0.043222287 | 2.15763E-51 | 25911 | RP11-529I10.1 |
| 0.043209186 | 2.31245E-51 | 26246 | OR2L2 |
| 0.043208763 | 2.31763E-51 | 120237 | DBX1 |
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| 0.043197191 | 2.46387E-51 | 57600 | FNIP2 |
| 0.043175307 | 2.766E-51 | 83604 | TMEM47 |
| 0.043171039 | 2.82909E-51 | 5360 | PLTP |
| 0.043170532 | 2.83668E-51 | 80856 | KIAA1715 |
| 0.043156029 | 3.06254E-51 | 9646 | CTR9 |
| 0.043145377 | 3.23978E-51 | 10073 | SNUPN |
| 0.04312509 | 3.60602E-51 | 29086 | C19orf62 |
| 0.043122377 | 3.65803E-51 | 11076 | TPPP |
| 0.043081705 | 4.53344E-51 | 169522 | KCNV2 |
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| 0.042936599 | 9.73103E-51 | 4047 | LSS |
| 0.042923274 | 1.04368E-50 | 2535 | FZD2 |
| 0.042921665 | 1.05253E-50 | 1796 | DOK1 |
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| 0.04289129 | 1.23456E-50 | 2861 | GPR37 |
| 0.042887714 | 1.25795E-50 | 3164 | NR4A1 |
| 0.042881986 | 1.29635E-50 | 11095 | ADAMTS8 |
| 0.042876612 | 1.33343E-50 | 140564 | APOBEC3D |
| 0.042871249 | 1.37149E-50 | 79092 | CARD14 |
| 0.042871136 | 1.3723E-50 | 2968 | GTF2H4 |
| 0.042863719 | 1.42676E-50 | 846 | CASR |
| 0.042847345 | 1.55472E-50 | 25902 | MTHFD1L |
| 0.042838047 | 1.63239E-50 | 8804 | CREG1 |
| 0.042802429 | 1.96741E-50 | 8241 | RBM10 |
| 0.042791145 | 2.08722E-50 | 125988 | C19orf70 |
| 0.042787972 | 2.12219E-50 | 54734 | RAB39 |
| 0.042786522 | 2.13836E-50 | 8795 | TNFRSF10B |
| 0.042767596 | 2.36111E-50 | 83596 | BCL2L12 |
| 0.04276737 | 2.36391E-50 | 55778 | ZNF839 |
| 0.042756759 | 2.4989E-50 | 835 | CASP2 |
| 0.042754616 | 2.52708E-50 | 165186 | FAM179A |
| 0.042698604 | 3.38713E-50 | 23034 | SAMD4A |
| 0.042692888 | 3.48984E-50 | 11145 | PLA2G16 |
| 0.042688054 | 3.57912E-50 | 138046 | RALYL |
| 0.04268775 | 3.58481E-50 | 94120 | SYTL3 |
| 0.042687337 | 3.59255E-50 | 79857 | AC024940.3 |

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| 0.097881714 | 0.157432204 | 0.477 | 1 | 2705 | GJB1 |
| 0.097854503 | 0.157548097 | 0.497 | 1 | 22818 | COPZ1 |
| 0.097805263 | 0.157757973 | 0.468 | 1 | 83787 | ARMC10 |
| 0.097787122 | 0.157835349 | 0.493 | 1 | 55349 | CHDH |
| 0.097783234 | 0.157851933 | 0.504 | 1 | 3359 | HTR3A |
| 0.097762502 | 0.157940405 | 0.496 | 1 | 84616 | KRTAP4-4 |
| 0.097754727 | 0.157973591 | 0.49 | 1 | 50650 | ARHGEF3 |
| 0.097724924 | 0.158100854 | 0.512 | 1 | 6541 | SLC7A1 |
| 0.097692529 | 0.158239272 | 0.475 | 1 | 23189 | KANK1 |
| 0.097682163 | 0.158283584 | 0.507 | 1 | 116372 | LYPD1 |
| 0.097657543 | 0.158388865 | 0.506 | 1 | 201134 | CCDC46 |
| 0.097635515 | 0.158483108 | 0.463 | 1 | 116135 | LRRC3B |
| 0.097621261 | 0.158544111 | 0.487 | 1 | 11176 | BAZ2A |
| 0.097617374 | 0.158560751 | 0.499 | 1 | 10238 | DCAF7 |
| 0.097565542 | 0.158782747 | 0.489 | 1 | 4869 | NPM1 |
| 0.097551289 | 0.158843837 | 0.521 | 1 | 4240 | MFGE8 |
| 0.097543514 | 0.158877167 | 0.507 | 1 | 3790 | KCNS3 |
| 0.097535739 | 0.158910501 | 0.497 | 1 | 643311 | CT47B1 |
| 0.097503345 | 0.159049452 | 0.479 | 1 | 115584 | SLC5A11 |
| 0.097277878 | 0.160019081 | 0.503 | 1 | 6653 | SORL1 |
| 0.097262329 | 0.160086116 | 0.488 | 1 | 9630 | GNA14 |
| 0.097251962 | 0.160130817 | 0.477 | 1 | 23504 | RIMBP2 |
| 0.097237709 | 0.160192297 | 0.492 | 1 | 10389 | SCML2 |
| 0.097228638 | 0.160231429 | 0.47 | 1 | 51555 | PEX5L |
| 0.097193652 | 0.160382437 | 0.482 | 1 | 80301 | PLEKHO2 |
| 0.097163849 | 0.160511158 | 0.484 | 1 | 3177 | SLC29A2 |
| 0.097158666 | 0.160533552 | 0.486 | 1 | 79676 | OGFOD2 |
| 0.097156074 | 0.16054475 | 0.519 | 1 | 26166 | RGS22 |
| 0.097136637 | 0.160628753 | 0.484 | 1 | 79057 | PRRG3 |
| 0.097075735 | 0.160892177 | 0.449 | 1 | 688 | KLF5 |
| 0.097051116 | 0.16099876 | 0.528 | 1 | 122830 | NAA30 |
| 0.097027791 | 0.161099781 | 0.519 | 1 | 731789 | RP13-16H11.1 |
| 0.0970252 | 0.161111009 | 0.479 | 1 | 25796 | PGLS |
| 0.09700058 | 0.161217701 | 0.492 | 1 | 56478 | EIF4ENIF1 |
| 0.096978552 | 0.161313206 | 0.515 | 1 | 56133 | PCDHB2 |
| 0.096885255 | 0.161718173 | 0.517 | 1 | 3434 | IFIT1 |
| 0.096878776 | 0.161746324 | 0.482 | 1 | 134145 | FAM173B |
| 0.096855452 | 0.161847698 | 0.515 | 1 | 54849 | DEF8 |
| 0.096836015 | 0.161932213 | 0.504 | 1 | 9214 | FAIM3 |
| 0.096781592 | 0.16216903 | 0.508 | 1 | 80149 | ZC3H12A |
| 0.096764747 | 0.162242383 | 0.516 | 1 | 5205 | ATP8B1 |
| 0.096734944 | 0.162372223 | 0.526 | 1 | 114770 | PGLYRP2 |
| 0.096701253 | 0.162519093 | 0.497 | 1 | 97 | ACYP1 |
| 0.096687 | 0.16258126 | 0.493 | 1 | 392390 | OR1L6 |
| 0.096676633 | 0.162626484 | 0.511 | 1 | 6747 | SSR3 |
| 0.09663776 | 0.162796156 | 0.486 | 1 | 54951 | COMMD8 |
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| 0.09661314 | 0.162903684 | 0.497 | 1 | 2657 | GDF1 |
| 0.096541872 | 0.16321525 | 0.489 | 1 | 6781 | STC1 |
| 0.096536689 | 0.163237927 | 0.489 | 1 | 79031 | PDCL3 |
| 0.096525026 | 0.163288958 | 0.514 | 1 | 4245 | MGAT1 |
| 0.096486153 | 0.163459149 | 0.48 | 1 | 26027 | ACOT11 |
| 0.096483561 | 0.163470499 | 0.49 | 1 | 4947 | OAZ2 |
| 0.096399335 | 0.163839721 | 0.486 | 1 | 9121 | SLC16A5 |
| 0.096374715 | 0.163947766 | 0.527 | 1 | 6594 | SMARCA1 |
| 0.096328067 | 0.164152628 | 0.479 | 1 | 445 | ASS1 |
| 0.096307334 | 0.164243739 | 0.468 | 1 | 8601 | RGS20 |
| 0.096306039 | 0.164249435 | 0.496 | 1 | 168455 | C7ORF74 |
| 0.09628401 | 0.164346285 | 0.497 | 1 | 468 | ATF4 |
| 0.09627494 | 0.164386176 | 0.51 | 1 | 283726 | FAM154B |
| 0.096249024 | 0.164500193 | 0.494 | 1 | 728978 | RP11-790G19.2 |
| 0.096238658 | 0.164545816 | 0.484 | 1 | 3035 | HARS |
| 0.096223108 | 0.164614268 | 0.503 | 1 | 64285 | RHBDF1 |
| 0.096195897 | 0.164734112 | 0.498 | 1 | 84928 | TMEM209 |
| 0.096172573 | 0.164836886 | 0.502 | 1 | 26020 | LRP10 |
| 0.096171277 | 0.164842598 | 0.44 | 1 | 729830 | FAM160A1 |
| 0.096150544 | 0.164933995 | 0.488 | 1 | 57018 | CCNL1 |
| 0.096138882 | 0.164985424 | 0.503 | 1 | 23008 | KLHDC10 |
| 0.096080572 | 0.165242744 | 0.502 | 1 | 57348 | TTYH1 |
| 0.096027445 | 0.165477453 | 0.456 | 1 | 23051 | ZHX3 |
| 0.096009304 | 0.165557654 | 0.521 | 1 | 23559 | WBP1 |
| 0.096004121 | 0.165580574 | 0.487 | 1 | 3125 | HLA-DRB3 |
| 0.095980796 | 0.165683744 | 0.451 | 1 | 26227 | PHGDH |
| 0.095973022 | 0.165718145 | 0.509 | 1 | 10738 | RFPL3 |
| 0.095956177 | 0.165792698 | 0.54 | 1 | 54205 | CYCS |
| 0.095943219 | 0.165850063 | 0.5 | 1 | 51763 | INPP5K |
| 0.095909528 | 0.165999283 | 0.504 | 1 | 64834 | ELOVL1 |
| 0.095884908 | 0.166108392 | 0.509 | 1 | 128602 | C20orf85 |
| 0.095811049 | 0.16643604 | 0.516 | 1 | 780776 | FAM18A |
| 0.095772175 | 0.16660868 | 0.525 | 1 | 1901 | S1PR1 |
| 0.095766992 | 0.166631709 | 0.5 | 1 | 9712 | USP6NL |
| 0.09575533 | 0.166683533 | 0.491 | 1 | 10981 | RAB32 |

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| 0.042686855 | 3.60161E-50 | 64757 | MOSC1 |
| 0.042674454 | 3.84265E-50 | 84629 | TNRC18B |
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| 0.042656683 | 4.21632E-50 | 7227 | TRPS1 |
| 0.042647425 | 4.42511E-50 | 5329 | PLAUR |
| 0.042646915 | 4.43692E-50 | 10427 | SEC24B |
| 0.042626502 | 4.93566E-50 | 8780 | RIOK3 |
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| 0.04258727 | 6.0562E-50 | 100131785 | LOC100131785 |
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| 0.042563359 | 6.85985E-50 | 5879 | RAC1 |
| 0.042562459 | 6.89208E-50 | 57096 | RPGRIP1 |
| 0.042561048 | 6.94293E-50 | 79647 | AKIRIN1 |
| 0.042537355 | 7.85475E-50 | 4129 | MAOB |
| 0.042534719 | 7.96329E-50 | 90050 | FAM181A |
| 0.042520279 | 8.58492E-50 | 22981 | NINL |
| 0.04251548 | 8.80201E-50 | 596 | BCL2 |
| 0.042514081 | 8.86635E-50 | 57107 | PDSS2 |
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| 0.042489364 | 1.00829E-49 | 442319 | ZNF727 |
| 0.042482753 | 1.04356E-49 | 8895 | CPNE3 |
| 0.04247561 | 1.08305E-49 | 27434 | POLM |
| 0.04246289 | 1.15708E-49 | 9491 | PSMF1 |
| 0.042435321 | 1.33529E-49 | 8601 | RGS20 |
| 0.04242766 | 1.38948E-49 | 4836 | NMT1 |
| 0.042416243 | 1.47435E-49 | 118442 | GPR62 |
| 0.042398371 | 1.61766E-49 | 6157 | RPL27A |
| 0.042388213 | 1.70522E-49 | 203 | AK1 |
| 0.042376535 | 1.81171E-49 | 83986 | ITFG3 |
| 0.042365109 | 1.92231E-49 | 6128 | RPL6P10 |
| 0.042314587 | 2.49767E-49 | 54108 | CHRAC1 |
| 0.042290586 | 5.17507E-49 | 64856 | VWA1 |
| 0.042287904 | 5.13042E-49 | 2524 | FUT2 |
| 0.042284323 | 2.92139E-49 | 5777 | PTPN6 |
| 0.042272136 | 3.11156E-49 | 219595 | FOLH1B |
| 0.042268817 | 3.16546E-49 | 6695 | SPOCK1 |
| 0.04224696 | 3.54434E-49 | 11183 | MAP4K5 |
| 0.042217188 | 4.13403E-49 | 83855 | KLF16 |
| 0.042215321 | 4.17412E-49 | 65220 | NADK |
| 0.04220433 | 4.41802E-49 | 2815 | GP9 |
| 0.042195089 | 4.63401E-49 | 83884 | SLC25A2 |
| 0.042180285 | 5.00217E-49 | 10096 | ACTR3 |
| 0.042166796 | 5.3629E-49 | 7547 | ZIC3 |
| 0.042155428 | 5.68692E-49 | 54932 | EXD3 |
| 0.042145151 | 5.99663E-49 | 23007 | PLCH1 |
| 0.042135795 | 6.29312E-49 | 26281 | FGF20 |
| 0.042133505 | 6.36787E-49 | 388561 | ZNF761 |
| 0.042130832 | 6.45627E-49 | 29959 | NRBP1 |
| 0.042121104 | 6.78838E-49 | 84259 | DCUN1D5 |
| 0.04211833 | 6.88616E-49 | 11057 | ABHD2 |
| 0.042098706 | 7.61912E-49 | 3782 | KCNN3 |
| 0.04209733 | 7.67336E-49 | 389541 | C7orf59 |
| 0.042077247 | 8.50976E-49 | 79005 | SCNM1 |
| 0.042073593 | 8.67146E-49 | 85313 | PPIL4 |
| 0.042072639 | 8.71417E-49 | 4089 | SMAD4 |
| 0.04205868 | 9.36357E-49 | 1182 | CLCN3 |
| 0.042051543 | 1.78122E-48 | 375611 | SLC26A5 |
| 0.042051009 | 9.74073E-49 | 79966 | SCD5 |
| 0.042037348 | 1.04502E-48 | 6274 | S100A3 |
| 0.042036242 | 1.05098E-48 | 25771 | TBC1D22A |
| 0.042034846 | 1.05856E-48 | 2519 | FUCA2 |
| 0.042034222 | 1.06196E-48 | 55793 | FAM63A |
| 0.042020522 | 1.13951E-48 | 2124 | EVI2B |
| 0.042006278 | 1.22611E-48 | 23333 | DPY19L1 |
| 0.042004733 | 1.2359E-48 | 8897 | MTMR3 |
| 0.04199901 | 1.2728E-48 | 8342 | HIST1H2BM |
| 0.04199386 | 1.30695E-48 | 800 | CALD1 |
| 0.041980395 | 1.4006E-48 | 55833 | UBAP2 |
| 0.041976213 | 1.43102E-48 | 10249 | GLYAT |
| 0.041951958 | 1.6209E-48 | 1069 | CETN2 |
| 0.041949221 | 1.64384E-48 | 11309 | SLCO2B1 |
| 0.04192562 | 1.85557E-48 | 326625 | MMAB |
| 0.04189677 | 2.15157E-48 | 386684 | KRTAP12-4 |
| 0.041891273 | 2.21309E-48 | 113 | ADCY7 |
| 0.041872659 | 2.43469E-48 | 9246 | UBE2L6 |
| 0.041859567 | 2.60365E-48 | 23520 | ANP32C |
| 0.041859237 | 2.60806E-48 | 896 | CCND3 |
| 0.041857645 | 2.62942E-48 | 401546 | C9orf152 |
| 0.041856259 | 2.64816E-48 | 4947 | OAZ2 |
| 0.041855377 | 2.66014E-48 | 79085 | SLC25A23 |

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| 0.095721639 | 0.166833313 | 0.538 | 1 | 29781 | NCAPH2 |
| 0.095720344 | 0.166839076 | 0.481 | 1 | 64761 | PARP12 |
| 0.095707386 | 0.166896712 | 0.472 | 1 | 126075 | AC024575.3 |
| 0.095669808 | 0.16706394 | 0.497 | 1 | 84944 | MAEL |
| 0.095640005 | 0.167196659 | 0.497 | 1 | 119559 | SFXN4 |
| 0.095628343 | 0.167248614 | 0.494 | 1 | 3990 | LIPC |
| 0.095605019 | 0.16735256 | 0.481 | 1 | 254295 | PHYHD1 |
| 0.095468961 | 0.167959872 | 0.542 | 1 | 80232 | WDR26 |
| 0.095409355 | 0.168226451 | 0.512 | 1 | 79893 | GGNBP2 |
| 0.095397693 | 0.168278645 | 0.534 | 1 | 83729 | INHBE |
| 0.095209804 | 0.169121209 | 0.488 | 1 | 204851 | HIPK1 |
| 0.095196846 | 0.169179433 | 0.532 | 1 | 8892 | EIF2B2 |
| 0.095174818 | 0.169278448 | 0.518 | 1 | 6923 | TCEB2 |
| 0.095111324 | 0.169564085 | 0.509 | 1 | 6702 | SPRR2C |
| 0.095071155 | 0.169744979 | 0.5 | 1 | 55500 | ETNK1 |
| 0.095067267 | 0.169762493 | 0.493 | 1 | 94240 | EPSTI1 |
| 0.095043943 | 0.169867602 | 0.493 | 1 | 23394 | ADNP |
| 0.095032281 | 0.169920176 | 0.476 | 1 | 863 | CBFA2T3 |
| 0.095023211 | 0.169961074 | 0.513 | 1 | 85403 | EAF1 |
| 0.09495583 | 0.170265121 | 0.43 | 1 | 1131 | CHRM3 |
| 0.094935097 | 0.170358756 | 0.528 | 1 | 2286 | FKBP2 |
| 0.094929914 | 0.17038217 | 0.51 | 1 | 7553 | ZNF7 |
| 0.09488197 | 0.170598869 | 0.512 | 1 | 146556 | C16orf89 |
| 0.094834026 | 0.170815774 | 0.501 | 1 | 100130958 | AC009139.1 |
| 0.09479904 | 0.170974185 | 0.486 | 1 | 147658 | ZNF534 |
| 0.094786082 | 0.171032883 | 0.519 | 1 | 23161 | SNX13 |
| 0.094780899 | 0.171056367 | 0.535 | 1 | 84895 | FAM73B |
| 0.094769237 | 0.171109214 | 0.51 | 1 | 9681 | DEPDC5 |
| 0.094722588 | 0.171320723 | 0.494 | 1 | 23201 | FAM168A |
| 0.094703152 | 0.171408909 | 0.518 | 1 | 23367 | LARP1 |
| 0.094694081 | 0.171450074 | 0.479 | 1 | 389558 | FAM180A |
| 0.094646137 | 0.171667784 | 0.499 | 1 | 283450 | C12orf51 |
| 0.094635771 | 0.171714883 | 0.508 | 1 | 5165 | PDK3 |
| 0.094624109 | 0.171767882 | 0.518 | 1 | 3105 | HLA-A |
| 0.094603376 | 0.171862131 | 0.523 | 1 | 54886 | PPAPR3 |
| 0.094376614 | 0.172895496 | 0.467 | 1 | 10570 | DPYSL4 |
| 0.094253514 | 0.173458397 | 0.512 | 1 | 63826 | SRR |
| 0.094252218 | 0.173464329 | 0.503 | 1 | 84268 | RPAIN |
| 0.094219824 | 0.173612691 | 0.47 | 1 | 4735 | SEPTIN2 |
| 0.094196499 | 0.17371957 | 0.543 | 1 | 171389 | NLRP6 |
| 0.094085062 | 0.174230888 | 0.508 | 1 | 115286 | SLC25A26 |
| 0.094079879 | 0.174254697 | 0.52 | 1 | 57828 | C19orf15 |
| 0.094077287 | 0.174266603 | 0.51 | 1 | 7274 | TTPA |
| 0.094068217 | 0.174308277 | 0.495 | 1 | 388284 | C16orf86 |
| 0.093990469 | 0.17466579 | 0.49 | 1 | 84153 | RNASEH2C |
| 0.093986582 | 0.17468368 | 0.492 | 1 | 162514 | TRPV3 |
| 0.093912722 | 0.175023847 | 0.516 | 1 | 2665 | GDI2 |
| 0.093906243 | 0.175053709 | 0.529 | 1 | 6927 | HNF1A |
| 0.093890694 | 0.175125395 | 0.5 | 1 | 80312 | TET1 |
| 0.093864778 | 0.17524492 | 0.528 | 1 | 11230 | PRAF2 |
| 0.093844046 | 0.175340583 | 0.497 | 1 | 4258 | MGST2 |
| 0.093828496 | 0.175412356 | 0.487 | 1 | 63877 | FAM204A |
| 0.093736495 | 0.175837458 | 0.544 | 1 | 10885 | WDR3 |
| 0.093723538 | 0.175897393 | 0.515 | 1 | 138724 | C9orf131 |
| 0.093639312 | 0.17628734 | 0.493 | 1 | 201595 | STT3B |
| 0.093606917 | 0.17643749 | 0.512 | 1 | 54511 | HMGCLL1 |
| 0.093527874 | 0.176804253 | 0.487 | 1 | 5965 | RECQL |
| 0.093527874 | 0.176804253 | 0.499 | 1 | 151194 | FAM119A |
| 0.093520099 | 0.176840359 | 0.499 | 1 | 11118 | BTN3A2 |
| 0.093517508 | 0.176852395 | 0.51 | 1 | 79654 | HECTD3 |
| 0.093499367 | 0.176936667 | 0.521 | 1 | 7294 | TXK |
| 0.093367197 | 0.177551546 | 0.525 | 1 | 113220 | KIF12 |
| 0.09334776 | 0.177642103 | 0.488 | 1 | 51411 | BIN2 |
| 0.093253167 | 0.178083301 | 0.508 | 1 | 645317 | CHCHD2P6 |
| 0.093245393 | 0.1781196 | 0.54 | 1 | 57713 | SFMBT2 |
| 0.093238914 | 0.178149853 | 0.51 | 1 | 212 | ALAS2 |
| 0.093178012 | 0.178434419 | 0.527 | 1 | 84277 | DNAJC30 |
| 0.093128772 | 0.17866474 | 0.506 | 1 | 222484 | LNX2 |
| 0.093122293 | 0.178695062 | 0.516 | 1 | 26287 | ANKRD2 |
| 0.093087307 | 0.178858865 | 0.543 | 1 | 8174 | MADCAM1 |
| 0.093087307 | 0.178858865 | 0.527 | 1 | 51230 | PHF20 |
| 0.093087307 | 0.178858865 | 0.478 | 1 | 123624 | AGBL1 |
| 0.093062687 | 0.1789742 | 0.527 | 1 | 200172 | SLFNL1 |
| 0.093047137 | 0.179047072 | 0.533 | 1 | 57045 | TWSG1 |
| 0.093038067 | 0.179089591 | 0.508 | 1 | 374887 | YJEFN3 |
| 0.093019926 | 0.17917465 | 0.49 | 1 | 2138 | EYA1 |
| 0.09301863 | 0.179180727 | 0.5 | 1 | 5195 | PEX14 |
| 0.092953841 | 0.179484763 | 0.533 | 1 | 55972 | SLC25A40 |
| 0.092943475 | 0.179533445 | 0.491 | 1 | 51222 | ZNF219 |
| 0.092909784 | 0.179691726 | 0.515 | 1 | 79828 | METTL8 |
| 0.092881277 | 0.179825737 | 0.535 | 1 | 441161 | OOEP |
| 0.092878685 | 0.179837923 | 0.521 | 1 | 9140 | ATG12 |

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| 0.041840981 | 2.86374E-48 | 4211 | MEIS1 |
| 0.041833578 | 2.97439E-48 | 9889 | ZBED4 |
| 0.04181239 | 3.31518E-48 | 587 | BCAT2 |
| 0.041773776 | 4.03926E-48 | 1945 | EFNA4 |
| 0.041755705 | 4.43022E-48 | 53947 | A4GALT |
| 0.041748313 | 4.6008E-48 | 23240 | KIAA0922 |
| 0.041736442 | 4.88852E-48 | 30817 | EMR2 |
| 0.041733524 | 4.96194E-48 | 83878 | USHBP1 |
| 0.041726996 | 5.13018E-48 | 125981 | ACER1 |
| 0.041716426 | 5.41473E-48 | 7182 | NR2C2 |
| 0.041716273 | 5.41898E-48 | 2838 | GPR15 |
| 0.041680169 | 6.51557E-48 | 6924 | TCEB3 |
| 0.041674948 | 6.69145E-48 | 55663 | ZNF446 |
| 0.041655293 | 7.39702E-48 | 85416 | ZIC5 |
| 0.041641761 | 7.92538E-48 | 1543 | CYP1A1 |
| 0.041635758 | 8.17164E-48 | 119369 | NUDT9P1 |
| 0.0416185 | 8.92281E-48 | 124454 | EARS2 |
| 0.041595028 | 1.00559E-47 | 158747 | MOSPD2 |
| 0.041588347 | 1.04039E-47 | 1497 | CTNS |
| 0.04158042 | 1.08323E-47 | 127428 | C1orf83 |
| 0.041578596 | 1.09333E-47 | 125704 | C18orf51 |
| 0.041545657 | 1.2928E-47 | 1439 | CSF2RB |
| 0.041533117 | 1.37793E-47 | 84466 | MEGF10 |
| 0.041528261 | 1.41237E-47 | 3400 | ID4 |
| 0.041502026 | 1.61381E-47 | 9770 | RASSF2 |
| 0.041490978 | 1.70697E-47 | 10127 | ZNF263 |
| 0.04147338 | 1.86654E-47 | 284440 | LOC284440 |
| 0.041469517 | 1.9035E-47 | 29895 | MYLPF |
| 0.041468518 | 1.91318E-47 | 57491 | AHRR |
| 0.041468254 | 1.91575E-47 | 57585 | CRAMP1L |
| 0.041465643 | 1.94131E-47 | 163033 | ZNF579 |
| 0.04146007 | 1.99701E-47 | 654502 | IQCJ |
| 0.041459013 | 2.00775E-47 | 117583 | PARD3B |
| 0.041456087 | 2.03779E-47 | 3695 | ITGB7 |
| 0.041455479 | 2.04408E-47 | 11068 | CYB561D2 |
| 0.041453978 | 2.05972E-47 | 60492 | CCDC90B |
| 0.041452953 | 2.07046E-47 | 5653 | KLK6 |
| 0.041450829 | 2.09289E-47 | 390197 | OR4D10 |
| 0.041450167 | 2.09993E-47 | 1466 | CSRP2 |
| 0.041447894 | 2.12429E-47 | 23411 | SIRT1 |
| 0.041404312 | 2.64972E-47 | 54866 | PPP1R14D |
| 0.041394696 | 2.78205E-47 | 11024 | LILRA1 |
| 0.041393803 | 2.79467E-47 | 23164 | MPRIP |
| 0.041389114 | 2.86187E-47 | 784 | CACNB3 |
| 0.041366682 | 3.20624E-47 | 3957 | LGALS2 |
| 0.041363106 | 3.26484E-47 | 79149 | ZSCAN5A |
| 0.04132694 | 3.92067E-47 | 2967 | GTF2H3 |
| 0.041325773 | 3.94387E-47 | 283933 | ZNF843 |
| 0.041289948 | 4.72717E-47 | 114904 | C1QTNF6 |
| 0.041289654 | 4.73419E-47 | 6494 | SIPA1 |
| 0.04127718 | 5.04226E-47 | 8387 | OR1E1 |
| 0.041266337 | 5.32621E-47 | 8704 | B4GALT2 |
| 0.041264518 | 5.37537E-47 | 4642 | MYO1D |
| 0.041253469 | 5.6839E-47 | 7114 | TMSB4X |
| 0.041210995 | 7.04299E-47 | 23503 | ZFYVE26 |
| 0.041174713 | 8.45704E-47 | 83887 | TTLL2 |
| 0.041159618 | 9.12551E-47 | 5740 | PTGIS |
| 0.04115747 | 9.22481E-47 | 139760 | GPR119 |
| 0.041146519 | 9.74806E-47 | 51458 | RHCG |
| 0.041143073 | 9.91875E-47 | 3234 | HOXD8 |
| 0.041142466 | 9.94912E-47 | 80742 | PRR3 |
| 0.041129018 | 1.06462E-46 | 64927 | TTC23 |
| 0.04112141 | 1.10619E-46 | 645879 | FAM90A12P |
| 0.041118136 | 1.12457E-46 | 55079 | FEZF2 |
| 0.041096727 | 1.25251E-46 | 55333 | SYNJ2BP |
| 0.041093802 | 1.27107E-46 | 60686 | C14orf93 |
| 0.041086225 | 1.32046E-46 | 92565 | FANK1 |
| 0.041084371 | 1.33283E-46 | 148423 | C1orf52 |
| 0.041074032 | 1.40396E-46 | 220107 | DLEU7 |
| 0.041067609 | 1.45004E-46 | 728327 | LOC728327 |
| 0.041067381 | 1.45171E-46 | 55558 | PLXNA3 |
| 0.041051949 | 1.5688E-46 | 93594 | WDR67 |
| 0.041051004 | 1.57627E-46 | 57549 | IGSF9 |
| 0.041049953 | 1.58461E-46 | 51596 | CUTA |
| 0.041041531 | 1.65312E-46 | 170575 | GIMAP1 |
| 0.04103627 | 1.90456E-46 | 9369 | NRXN3 |
| 0.041023792 | 1.80719E-46 | 64121 | RRAGC |
| 0.041021467 | 1.82842E-46 | 127550 | A3GALT2P |
| 0.041018873 | 1.85239E-46 | 6278 | S100A7 |
| 0.041016797 | 1.8718E-46 | 8664 | EIF3D |
| 0.041015367 | 1.88529E-46 | 2571 | GAD1 |
| 0.04101435 | 1.89494E-46 | 51138 | COPS4 |

| | | | | | |
|---|---|---|---|---|---|
| 0.092865727 | 0.179898865 | 0.542 | 1 | 441481 | GPX1P1 |
| 0.092864432 | 0.179904959 | 0.5 | 1 | 2567 | GABRG3 |
| 0.09286184 | 0.17991715 | 0.532 | 1 | 90379 | DCAF15 |
| 0.092804826 | 0.180185494 | 0.49 | 1 | 58525 | WIZ |
| 0.092800938 | 0.180203801 | 0.537 | 1 | 339231 | ARL16 |
| 0.092749107 | 0.180448025 | 0.52 | 1 | 6515 | SLC2A3 |
| 0.092683022 | 0.180759765 | 0.513 | 1 | 9843 | HEPH |
| 0.092644148 | 0.180943327 | 0.534 | 1 | 25843 | MOBKL3 |
| 0.092632486 | 0.180998422 | 0.462 | 1 | 3761 | KCNJ4 |
| 0.092627303 | 0.181022913 | 0.527 | 1 | 729583 | C6orf100 |
| 0.09262212 | 0.181047406 | 0.492 | 1 | 29760 | BLNK |
| 0.092559922 | 0.181341517 | 0.477 | 1 | 283219 | KCTD21 |
| 0.092543077 | 0.181421232 | 0.523 | 1 | 6263 | RYR3 |
| 0.09249902 | 0.181629842 | 0.505 | 1 | 10092 | ARPC5 |
| 0.092493837 | 0.181654395 | 0.494 | 1 | 84516 | DCTN5 |
| 0.092476992 | 0.181734212 | 0.519 | 1 | 80067 | C2orf37 |
| 0.092476992 | 0.181734212 | 0.517 | 1 | 199223 | TTC21A |
| 0.092470513 | 0.181764918 | 0.488 | 1 | 6217 | RPS16P1 |
| 0.092466625 | 0.181783344 | 0.529 | 1 | 126328 | NDUFA11 |
| 0.092436822 | 0.18192465 | 0.482 | 1 | 23129 | PLXND1 |
| 0.092431639 | 0.181949233 | 0.502 | 1 | 92815 | HIST3H2A |
| 0.092394061 | 0.182127535 | 0.522 | 1 | 7386 | UQCRFS1 |
| 0.09234223 | 0.182373681 | 0.52 | 1 | 80169 | CTC1 |
| 0.092311131 | 0.182521486 | 0.541 | 1 | 259236 | TMIE |
| 0.092304652 | 0.182552289 | 0.526 | 1 | 9099 | USP2 |
| 0.092199694 | 0.183051845 | 0.548 | 1 | 5441 | POLR2L |
| 0.092199694 | 0.183051845 | 0.521 | 1 | 64960 | MRPS15 |
| 0.092164707 | 0.183218588 | 0.545 | 1 | 58510 | PRODH2 |
| 0.092143975 | 0.183317451 | 0.513 | 1 | 25989 | ULK3 |
| 0.092090848 | 0.183570967 | 0.478 | 1 | 132332 | TMEM155 |
| 0.091927579 | 0.184351681 | 0.543 | 1 | 1857 | DVL3 |
| 0.091915916 | 0.18440754 | 0.534 | 1 | 23379 | KIAA0947 |
| 0.091865381 | 0.184649738 | 0.512 | 1 | 653145 | ANXA8 |
| 0.091803183 | 0.18494815 | 0.529 | 1 | 56180 | MOSPD1 |
| 0.091731915 | 0.185290516 | 0.503 | 1 | 79145 | CHCHD7 |
| 0.091717661 | 0.185359045 | 0.515 | 1 | 7114 | TMSB4X |
| 0.091686562 | 0.185508628 | 0.508 | 1 | 80305 | TRABD |
| 0.091638618 | 0.185739409 | 0.507 | 1 | 54958 | TMEM160 |
| 0.091624365 | 0.18580806 | 0.509 | 1 | 2210 | FCGR1B |
| 0.091595857 | 0.185945418 | 0.515 | 1 | 283229 | EFCAB4A |
| 0.091580308 | 0.186020373 | 0.518 | 1 | 51361 | HOOK1 |
| 0.091563463 | 0.186101598 | 0.536 | 1 | 4733 | DRG1 |
| 0.091547913 | 0.186176599 | 0.506 | 1 | 5550 | PREP |
| 0.091499969 | 0.18640799 | 0.513 | 1 | 122622 | ADSSL1 |
| 0.091433884 | 0.186727281 | 0.529 | 1 | 92370 | ACPL2 |
| 0.09140149 | 0.186883943 | 0.529 | 1 | 2644 | GCHFR |
| 0.091375574 | 0.187009342 | 0.508 | 1 | 6132 | RPL8 |
| 0.091365208 | 0.187059519 | 0.53 | 1 | 1149 | CIDEA |
| 0.091350954 | 0.187128528 | 0.496 | 1 | 80055 | PGAP1 |
| 0.091343179 | 0.187166177 | 0.514 | 1 | 84627 | ZNF469 |
| 0.091319855 | 0.187279159 | 0.53 | 1 | 84881 | RPUSD4 |
| 0.091291348 | 0.187417315 | 0.499 | 1 | 84062 | DTNBP1 |
| 0.091275798 | 0.187492705 | 0.519 | 1 | 3921 | RPSA |
| 0.091270615 | 0.18751784 | 0.537 | 1 | 975 | CD81 |
| 0.09122915 | 0.187719007 | 0.549 | 1 | 9112 | MTA1 |
| 0.091221375 | 0.187756744 | 0.532 | 1 | 116093 | DIRC1 |
| 0.091142332 | 0.188140715 | 0.518 | 1 | 219972 | MPEG1 |
| 0.091115121 | 0.188273035 | 0.5 | 1 | 161823 | ADAL |
| 0.091067177 | 0.188506337 | 0.553 | 1 | 57190 | SEPN1 |
| 0.091063289 | 0.188525262 | 0.526 | 1 | 9804 | TOMM20 |
| 0.091046444 | 0.188607289 | 0.528 | 1 | 26492 | OR8G2 |
| 0.091025712 | 0.188708282 | 0.525 | 1 | 374739 | TEPP |
| 0.091016641 | 0.188752478 | 0.547 | 1 | 79148 | MMP28 |
| 0.091002387 | 0.188821945 | 0.544 | 1 | 64748 | AC024575.2 |
| 0.090999796 | 0.188834578 | 0.534 | 1 | 284067 | C17orf105 |
| 0.090993317 | 0.188866162 | 0.515 | 1 | 5588 | PRKCQ |
| 0.09097388 | 0.188960936 | 0.54 | 1 | 51109 | RDH11 |
| 0.090710836 | 0.190246982 | 0.504 | 1 | 90506 | LRRC46 |
| 0.090644751 | 0.190571082 | 0.511 | 1 | 10602 | CDC42EP3 |
| 0.090629201 | 0.1906474 | 0.547 | 1 | 9343 | EFTUD2 |
| 0.090594215 | 0.190819196 | 0.527 | 1 | 1355 | COX15 |
| 0.09056182 | 0.190978368 | 0.538 | 1 | 23731 | C9orf5 |
| 0.090548862 | 0.191042064 | 0.528 | 1 | 5727 | PTCH1 |
| 0.090530721 | 0.191131265 | 0.532 | 1 | 79019 | CENPM |
| 0.090472411 | 0.191418187 | 0.544 | 1 | 23399 | DULLARD |
| 0.090437425 | 0.191590492 | 0.509 | 1 | 221421 | RSPH9 |
| 0.090399847 | 0.191775686 | 0.549 | 1 | 4676 | NAP1L4 |
| 0.090353199 | 0.192005764 | 0.527 | 1 | 197131 | UBR1 |
| 0.090332466 | 0.192108086 | 0.533 | 1 | 81539 | SLC38A1 |
| 0.090300072 | 0.192268044 | 0.508 | 1 | 249 | ALPL |
| 0.09029748 | 0.192280844 | 0.532 | 1 | 257194 | NEGR1 |
| 0.090291001 | 0.192312849 | 0.535 | 1 | 23466 | CBX6 |

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| 0.041012423 | 1.91336E-46 | 8284 | KDM5D |
| 0.040994116 | 2.09754E-46 | 10444 | ZER1 |
| 0.040991775 | 2.12233E-46 | 131578 | LRRC15 |
| 0.040963616 | 2.44434E-46 | 340562 | SATL1 |
| 0.040957647 | 2.51862E-46 | 1506 | CTRL |
| 0.040951877 | 2.59255E-46 | 1135 | CHRNA2 |
| 0.040931586 | 2.87009E-46 | 29765 | TMOD4 |
| 0.04093017 | 2.89053E-46 | 135114 | HINT3 |
| 0.04091343 | 3.1434E-46 | 5481 | PPID |
| 0.040888461 | 3.56204E-46 | 116285 | ACSM1 |
| 0.040870814 | 3.89096E-46 | 55449 | AL136419.1 |
| 0.040852202 | 4.27063E-46 | 1404 | HAPLN1 |
| 0.040849233 | 4.33452E-46 | 129530 | LYG1 |
| 0.040835865 | 4.63416E-46 | 10071 | MUC12 |
| 0.040800334 | 5.53457E-46 | 57540 | PTCHD2 |
| 0.04075059 | 7.09465E-46 | 51314 | TXNDC3 |
| 0.040736738 | 7.60221E-46 | 442582 | STAG3L2 |
| 0.040731788 | 7.7922E-46 | 84619 | ZGPAT |
| 0.040718067 | 8.34393E-46 | 349667 | RTN4RL2 |
| 0.040714982 | 8.47324E-46 | 9187 | SLC24A1 |
| 0.040703777 | 8.95991E-46 | 414328 | IDNK |
| 0.040679753 | 1.00991E-45 | 353189 | SLCO4C1 |
| 0.040665936 | 1.08184E-45 | 5496 | PPM1G |
| 0.04065037 | 1.169E-45 | 10552 | ARPC1A |
| 0.040645634 | 1.19688E-45 | 151 | ADRA2B |
| 0.04063896 | 1.2373E-45 | 147798 | TMC4 |
| 0.040637851 | 1.24414E-45 | 128061 | C1orf131 |
| 0.040630015 | 1.2936E-45 | 10168 | ZNF197 |
| 0.040621074 | 1.35243E-45 | 10234 | LRRC17 |
| 0.040600437 | 1.49857E-45 | 1997 | ELF1 |
| 0.040589007 | 1.58616E-45 | 25886 | WDR51A |
| 0.040558564 | 1.86662E-45 | 6909 | TBX2 |
| 0.040546473 | 1.95928E-45 | 26100 | WIPI2 |
| 0.040545997 | 1.96392E-45 | 57171 | DOLPP1 |
| 0.040541142 | 2.01182E-45 | 57402 | S100A14 |
| 0.040535646 | 2.06745E-45 | 302 | ANXA2 |
| 0.040534988 | 2.07422E-45 | 7025 | NR2F1 |
| 0.040529432 | 2.1322E-45 | 7391 | USF1 |
| 0.040512405 | 2.32014E-45 | 222 | ALDH3B2 |
| 0.040503728 | 2.42216E-45 | 3315 | HSPB1 |
| 0.040482314 | 2.69346E-45 | 9955 | HS3ST3A1 |
| 0.040478834 | 2.74032E-45 | 5436 | POLR2G |
| 0.04047705 | 2.76466E-45 | 54726 | OTUD4 |
| 0.040466093 | 2.91891E-45 | 8701 | DNAH11 |
| 0.040442966 | 3.27318E-45 | 30061 | SLC40A1 |
| 0.040433716 | 3.42656E-45 | 387787 | AP001372.1 |
| 0.040419194 | 3.68193E-45 | 404672 | GTF2H5 |
| 0.040404186 | 3.96575E-45 | 7762 | ZNF215 |
| 0.040402725 | 3.99451E-45 | 284948 | SH2D6 |
| 0.040386053 | 4.33784E-45 | 10237 | SLC35B1 |
| 0.04038563 | 4.34692E-45 | 923 | CD6 |
| 0.040362321 | 4.87778E-45 | 10223 | GPA33 |
| 0.040354498 | 5.07004E-45 | 8356 | HIST1H3J |
| 0.040348681 | 5.21787E-45 | 10266 | RAMP2 |
| 0.040326896 | 5.81059E-45 | 54902 | TTC19 |
| 0.040312963 | 6.22431E-45 | 81300 | OR4P4 |
| 0.040307027 | 6.40937E-45 | 64921 | CASD1 |
| 0.040260005 | 8.08237E-45 | 79080 | CCDC86 |
| 0.040226271 | 9.54392E-45 | 4041 | LRP5 |
| 0.040209421 | 1.03696E-44 | 128 | ADH5 |
| 0.040198793 | 1.09266E-44 | 9552 | SPAG7 |
| 0.040196703 | 1.10396E-44 | 115704 | EVI5L |
| 0.040191247 | 1.134E-44 | 4261 | CIITA |
| 0.040189086 | 1.14612E-44 | 391358 | TRMT112P6 |
| 0.040162638 | 1.30537E-44 | 2915 | GRM5 |
| 0.040146582 | 1.41259E-44 | 170850 | KCNG3 |
| 0.040142324 | 1.44247E-44 | 83444 | INO80B |
| 0.040137564 | 1.47661E-44 | 2553 | GABPB1 |
| 0.040117907 | 1.62634E-44 | 2705 | GJB1 |
| 0.040105198 | 1.73108E-44 | 131540 | ZDHHC19 |
| 0.040078086 | 1.97751E-44 | 83858 | ATAD3B |
| 0.040070704 | 2.05046E-44 | 1407 | CRY1 |
| 0.040064549 | 2.11332E-44 | 4879 | NPPB |
| 0.040048437 | 2.28709E-44 | 9904 | RBM19 |
| 0.04004313 | 2.3474E-44 | 285800 | PRR18 |
| 0.040034913 | 2.44389E-44 | 2837 | UTS2R |
| 0.040034443 | 2.44952E-44 | 219870 | OR10G9 |
| 0.04001336 | 2.71615E-44 | 9495 | AKAP5 |
| 0.040012976 | 2.72127E-44 | 2319 | FLOT2 |
| 0.040012814 | 2.72342E-44 | 7852 | CXCR4 |
| 0.040011384 | 2.74257E-44 | 2864 | FFAR1 |
| 0.04000965 | 2.76597E-44 | 646019 | CBY3 |

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| 0.090291001 | 0.192312849 | 0.523 | 1 | 112752 | C14orf179 |
| 0.09027286 | 0.192402483 | 0.501 | 1 | 3113 | HLA-DPA1 |
| 0.090208071 | 0.192722854 | 0.492 | 1 | 767811 | H2BFXP |
| 0.090206775 | 0.192729266 | 0.519 | 1 | 7067 | THRA |
| 0.090125141 | 0.193133498 | 0.49 | 1 | 8448 | DOC2A |
| 0.090096633 | 0.193274804 | 0.535 | 1 | 125931 | CEACAM20 |
| 0.090072013 | 0.193396902 | 0.531 | 1 | 22832 | KIAA1009 |
| 0.090044802 | 0.193531918 | 0.528 | 1 | 63917 | GALNT11 |
| 0.09003314 | 0.193589803 | 0.534 | 1 | 55171 | TBCCD1 |
| 0.090022773 | 0.193641267 | 0.54 | 1 | 5433 | POLR2D |
| 0.089996858 | 0.193769971 | 0.531 | 1 | 1965 | EIF2S1 |
| 0.089982604 | 0.193840785 | 0.559 | 1 | 341350 | OVCH1 |
| 0.089976125 | 0.193872979 | 0.522 | 1 | 83604 | TMEM47 |
| 0.089970942 | 0.193898737 | 0.531 | 1 | 25996 | REXO2 |
| 0.089943731 | 0.194034009 | 0.538 | 1 | 91404 | SESTD1 |
| 0.089937252 | 0.194066227 | 0.542 | 1 | 149478 | RP11-269F19.1 |
| 0.089933364 | 0.194085559 | 0.533 | 1 | 81557 | MAGED4B |
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| 0.089574432 | 0.195876655 | 0.548 | 1 | 84501 | SPIRE2 |
| 0.089404684 | 0.196727892 | 0.531 | 1 | 11164 | NUDT5 |
| 0.089404684 | 0.196727892 | 0.526 | 1 | 144486 | LOC144486 |
| 0.089372289 | 0.196890647 | 0.532 | 1 | 55705 | IPO9 |
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| 0.08917533 | 0.19788231 | 0.54 | 1 | 63905 | MANBAL |
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| 0.08912609 | 0.198130793 | 0.52 | 1 | 257313 | UTS2D |
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| 0.088466535 | 0.201481058 | 0.533 | 1 | 6303 | SAT1 |
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| 0.088412112 | 0.201759329 | 0.503 | 1 | 146330 | FBXL16 |
| 0.088408224 | 0.201779216 | 0.531 | 1 | 9056 | SLC7A7 |
| 0.088383604 | 0.201905201 | 0.509 | 1 | 11334 | TUSC2 |
| 0.088304561 | 0.202310063 | 0.535 | 1 | 1769 | DNAH8 |
| 0.088272167 | 0.20247616 | 0.546 | 1 | 114049 | WBSCR22 |
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| 0.088215152 | 0.202768731 | 0.53 | 1 | 5734 | PTGER4 |
| 0.088160729 | 0.203048289 | 0.549 | 1 | 5155 | PDGFB |
| 0.088155546 | 0.203074928 | 0.555 | 1 | 302 | ANXA2 |
| 0.088142588 | 0.203141537 | 0.554 | 1 | 6273 | S100A2 |
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| 0.039952501 | 3.65889E-44 | 28989 | NTMT1 |
| 0.039923137 | 4.2239E-44 | 138652 | PRSS47 |
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| 0.039895221 | 4.84127E-44 | 26038 | CHD5 |
| 0.039890998 | 4.94217E-44 | 51481 | VCX3A |
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| 0.039849978 | 6.03796E-44 | 23036 | ZNF292 |
| 0.03983165 | 6.60272E-44 | 400752 | LOC400752 |
| 0.039803958 | 7.55716E-44 | 285855 | RPL7L1 |
| 0.039797451 | 7.80065E-44 | 170680 | PSORS1C2 |
| 0.039795642 | 7.8697E-44 | 55151 | TMEM38B |
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| 0.039774823 | 8.70979E-44 | 2027 | ENO3 |
| 0.039717604 | 1.15067E-43 | 4990 | SIX6 |
| 0.039705505 | 1.2204E-43 | 79890 | RIN3 |
| 0.039693947 | 1.29093E-43 | 25913 | POT1 |
| 0.039693915 | 1.29113E-43 | 25870 | SUMF2 |
| 0.039693018 | 1.29677E-43 | 254863 | C17orf61 |
| 0.039684082 | 1.35433E-43 | 440895 | AC013271.3 |
| 0.039680762 | 1.64482E-43 | 3149 | HMGB3 |
| 0.039679124 | 1.38735E-43 | 51315 | KRCC1 |
| 0.039672604 | 1.432E-43 | 5228 | PGF |
| 0.039672373 | 1.43361E-43 | 54946 | SLC41A3 |
| 0.039669673 | 1.45254E-43 | 7639 | ZNF85 |
| 0.03965677 | 1.54647E-43 | 85508 | SCRT2 |
| 0.039635536 | 1.71441E-43 | 85301 | COL27A1 |
| 0.03963477 | 1.72079E-43 | 654346 | LGALS9C |
| 0.039616555 | 1.8798E-43 | 283377 | SPRYD4 |
| 0.039580958 | 2.23396E-43 | 149281 | METTL11B |
| 0.039576738 | 2.28013E-43 | 286333 | LINC00256A |
| 0.039542102 | 2.69666E-43 | 27243 | CHMP2A |
| 0.039531488 | 2.83886E-43 | 55696 | RBM22 |
| 0.039508759 | 3.16894E-43 | 442361 | OR2A2 |
| 0.039505697 | 3.21622E-43 | 8556 | CDC14A |
| 0.039488488 | 3.49538E-43 | 55509 | BATF3 |
| 0.039487831 | 3.5065E-43 | 154754 | PRSS23P2 |
| 0.039475917 | 3.71443E-43 | 60592 | SCOC |
| 0.039433751 | 4.55373E-43 | 7015 | TERT |
| 0.039396093 | 5.46142E-43 | 23197 | FAF2 |
| 0.039396039 | 5.46283E-43 | 6556 | SLC11A1 |
| 0.039390733 | 5.60448E-43 | 9353 | SLIT2 |
| 0.039389785 | 5.63017E-43 | 27087 | B3GAT1 |
| 0.039375815 | 6.02254E-43 | 6782 | HSPA13 |
| 0.039372117 | 6.13091E-43 | 7173 | TPO |
| 0.039367282 | 6.2755E-43 | 100147773 | RP11-466F5.8 |
| 0.0393654 | 6.33268E-43 | 90204 | ZSWIM1 |
| 0.039359948 | 6.50133E-43 | 401565 | FAM166A |
| 0.039356569 | 6.60808E-43 | 3352 | HTR1D |
| 0.039350711 | 6.79726E-43 | 6901 | TAZ |
| 0.039347718 | 6.89601E-43 | 3586 | IL10 |
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| 0.039304346 | 8.49789E-43 | 5623 | PSPN |
| 0.039301483 | 8.6158E-43 | 10588 | MTHFS |
| 0.039294425 | 8.91347E-43 | 7135 | TNNI1 |
| 0.039285994 | 9.28248E-43 | 10421 | CD2BP2 |
| 0.039270558 | 9.99792E-43 | 6923 | TCEB2 |
| 0.039256326 | 1.0706E-42 | 63917 | GALNT11 |
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| 0.039225834 | 1.23955E-42 | 6515 | SLC2A3 |
| 0.039221034 | 1.26847E-42 | 51451 | LCMT1 |
| 0.03921329 | 1.31653E-42 | 157506 | RDH10 |
| 0.039210075 | 1.33701E-42 | 5321 | PLA2G4A |
| 0.039203958 | 1.37686E-42 | 54463 | FAM134B |
| 0.039198129 | 1.41593E-42 | 10574 | CCT7 |
| 0.039193378 | 1.4486E-42 | 59286 | UBL5 |
| 0.039193082 | 1.45065E-42 | 283807 | FBXL22 |
| 0.039177003 | 1.56701E-42 | 4494 | MT1F |
| 0.039169392 | 1.62529E-42 | 5692 | PSMB4 |
| 0.039139767 | 2.61742E-42 | 5795 | PTPRJ |
| 0.039126317 | 1.99809E-42 | 5253 | PHF2 |
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| 0.087875656 | 0.204517202 | 0.546 | 1 | 135295 | RP11-63L7.1 |
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| 0.087773289 | 0.205046546 | 0.531 | 1 | 30812 | SOX8 |
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| 0.087705908 | 0.205395516 | 0.51 | 1 | 252884 | ZNF396 |
| 0.087656669 | 0.205650803 | 0.527 | 1 | 1295 | COL8A1 |
| 0.087622978 | 0.205825606 | 0.521 | 1 | 404672 | GTF2H5 |
| 0.087523203 | 0.206343919 | 0.516 | 1 | 714 | C1QC |
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| 0.087467484 | 0.206633777 | 0.526 | 1 | 51765 | STK3 |
| 0.087459709 | 0.206674246 | 0.541 | 1 | 181 | AGRP |
| 0.08742861 | 0.206836178 | 0.55 | 1 | 8291 | DYSF |
| 0.08734568 | 0.207268444 | 0.525 | 1 | 11031 | RAB31 |
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| 0.087309398 | 0.207457765 | 0.519 | 1 | 51663 | ZFR |
| 0.087308102 | 0.207464528 | 0.547 | 1 | 7422 | VEGFA |
| 0.087254975 | 0.20774198 | 0.542 | 1 | 158158 | RASEF |
| 0.087251088 | 0.207762292 | 0.518 | 1 | 57688 | ZSWIM6 |
| 0.087195369 | 0.208053586 | 0.521 | 1 | 56654 | NPDC1 |
| 0.08718889 | 0.208087477 | 0.536 | 1 | 8969 | HIST1H2AG |
| 0.087152608 | 0.208277337 | 0.564 | 1 | 84336 | TMEM101 |
| 0.087140946 | 0.20833839 | 0.545 | 1 | 8323 | FZD6 |
| 0.087120213 | 0.208446961 | 0.546 | 1 | 50512 | PODXL2 |
| 0.087089114 | 0.208609893 | 0.558 | 1 | 442720 | EIF3IP1 |
| 0.087047649 | 0.208827279 | 0.552 | 1 | 89765 | RSPH1 |
| 0.087002297 | 0.209065232 | 0.531 | 1 | 6626 | SNRPA |
| 0.086962127 | 0.209276153 | 0.529 | 1 | 729085 | C3orf41 |
| 0.086956944 | 0.20930338 | 0.527 | 1 | 84332 | DYDC2 |
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| 0.086925845 | 0.209466795 | 0.516 | 1 | 80344 | WDR23 |
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| 0.086864943 | 0.209787081 | 0.55 | 1 | 400765 | MIR2682 |
| 0.086851986 | 0.209855272 | 0.534 | 1 | 126003 | TRAPPC5 |
| 0.086813112 | 0.210059942 | 0.523 | 1 | 55200 | PLEKHG6 |
| 0.086774238 | 0.210264756 | 0.525 | 1 | 283638 | KIAA0284 |
| 0.086749619 | 0.210394546 | 0.55 | 1 | 3554 | IL1R1 |
| 0.086704266 | 0.210633783 | 0.515 | 1 | 55686 | MREG |
| 0.086679646 | 0.210763737 | 0.543 | 1 | 283902 | HTA |
| 0.086635589 | 0.210996429 | 0.529 | 1 | 51191 | HERC5 |
| 0.086635589 | 0.210996429 | 0.548 | 1 | 644844 | AC013356.1 |
| 0.086577279 | 0.211304688 | 0.548 | 1 | 5106 | PCK2 |
| 0.086551363 | 0.211441796 | 0.551 | 1 | 170463 | SSBP4 |
| 0.08649694 | 0.211729932 | 0.5 | 1 | 285987 | DLX6-AS1 |
| 0.08647232 | 0.211860371 | 0.567 | 1 | 635 | BHMT |
| 0.086448996 | 0.211983999 | 0.517 | 1 | 4200 | ME2 |
| 0.086445109 | 0.212004608 | 0.537 | 1 | 2178 | FANCE |
| 0.086439926 | 0.21203209 | 0.512 | 1 | 54495 | TMX3 |
| 0.086436038 | 0.212052703 | 0.552 | 1 | 3838 | KPNA2 |
| 0.086433447 | 0.212066446 | 0.528 | 1 | 7403 | KDM6A |
| 0.086423081 | 0.212121423 | 0.559 | 1 | 2091 | AC005393.1 |
| 0.086393277 | 0.212279541 | 0.565 | 1 | 387522 | TMEM189-UBE2V1 |
| 0.08636477 | 0.212430863 | 0.549 | 1 | 29086 | C19orf62 |
| 0.086333671 | 0.21259603 | 0.567 | 1 | 513 | ATP5D |
| 0.086310347 | 0.212719966 | 0.524 | 1 | 10135 | PBEF1 |
| 0.086302572 | 0.212761289 | 0.532 | 1 | 7128 | TNFAIP3 |
| 0.086287023 | 0.212843953 | 0.571 | 1 | 154288 | C6orf221 |
| 0.08628184 | 0.212871513 | 0.529 | 1 | 401331 | RASA4CP |
| 0.086258516 | 0.212995564 | 0.555 | 1 | 8555 | CDC14B |
| 0.086240375 | 0.213092084 | 0.556 | 1 | 10557 | RPP38 |
| 0.086224825 | 0.213174841 | 0.566 | 1 | 5884 | RAD17 |
| 0.08620798 | 0.213264519 | 0.538 | 1 | 1186 | CLCN7 |
| 0.086182064 | 0.21340254 | 0.584 | 1 | 9647 | PPM1F |
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| 0.086092655 | 0.213879202 | 0.53 | 1 | 84866 | TMEM25 |
| 0.086079697 | 0.213948347 | 0.531 | 1 | 10516 | FBLN5 |
| 0.086078402 | 0.213955262 | 0.537 | 1 | 8618 | CADPS |
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| 0.086065444 | 0.214024425 | 0.544 | 1 | 55147 | RBM23 |
| 0.086060261 | 0.214052094 | 0.511 | 1 | 5999 | RGS4 |
| 0.086053782 | 0.214086685 | 0.553 | 1 | 133015 | PACRGL |
| 0.08602657 | 0.214232008 | 0.578 | 1 | 750 | C16orf3 |
| 0.086023979 | 0.214245852 | 0.57 | 1 | 9486 | CHST10 |
| 0.086020091 | 0.21426662 | 0.535 | 1 | 148022 | TICAM1 |
| 0.085925499 | 0.214772401 | 0.565 | 1 | 1981 | EIF4G1 |
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| 0.03903483 | 3.09582E-42 | 124602 | KIF19 |
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| 0.038941573 | 4.83236E-42 | 91754 | NEK9 |
| 0.038927628 | 5.1646E-42 | 56245 | C21orf62 |
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| 0.038840092 | 7.83563E-42 | 5197 | PF4V1 |
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| 0.038790302 | 9.92812E-42 | 91351 | DDX60L |
| 0.038785532 | 1.01556E-41 | 79086 | C19orf42 |
| 0.038785159 | 1.01736E-41 | 10870 | HCST |
| 0.038782489 | 1.03035E-41 | 55030 | FBXO34 |
| 0.038768699 | 1.10009E-41 | 3753 | KCNE1 |
| 0.038764529 | 1.12208E-41 | 220323 | OAF |
| 0.038761173 | 1.1401E-41 | 9080 | CLDN9 |
| 0.038751745 | 1.19228E-41 | 60680 | BRUNOL5 |
| 0.038726152 | 1.34621E-41 | 55341 | LSG1 |
| 0.038725945 | 1.34753E-41 | 10281 | DSCR4 |
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| 0.038654139 | 1.8937E-41 | 80223 | RAB11FIP1 |
| 0.038648126 | 1.94837E-41 | 388588 | RP1-286D6.2 |
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| 0.038611309 | 2.31911E-41 | 85455 | DISP2 |
| 0.038608545 | 2.34962E-41 | 221074 | SLC39A12 |
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| 0.078562844 | 0.256799428 | 0.605 | 1 | 439949 | LOC439949 |
| 0.078558957 | 0.256823021 | 0.593 | 1 | 3248 | HPGD |
| 0.078538224 | 0.256948876 | 0.549 | 1 | 163589 | TDRD5 |
| 0.078520083 | 0.257059035 | 0.584 | 1 | 246213 | SLC17A8 |
| 0.078459181 | 0.257429091 | 0.57 | 1 | 430 | ASCL2 |
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| 0.078450111 | 0.257484237 | 0.599 | 1 | 9389 | SLC22A14 |
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| 0.078395688 | 0.257815285 | 0.563 | 1 | 22999 | RIMS1 |
| 0.078394392 | 0.257823171 | 0.573 | 1 | 100132062 | LOC100132062 |
| 0.078359406 | 0.258036147 | 0.588 | 1 | 56311 | ANKRD7 |
| 0.078332194 | 0.258201879 | 0.587 | 1 | 148423 | C1orf52 |
| 0.078277771 | 0.258533563 | 0.614 | 1 | 100128203 | ENSAP3 |
| 0.07822594 | 0.258849726 | 0.584 | 1 | 25824 | PRDX5 |
| 0.078212982 | 0.258928808 | 0.556 | 1 | 7786 | MAP3K12 |
| 0.078205207 | 0.258976266 | 0.609 | 1 | 153364 | MBLAC2 |
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| 0.078146897 | 0.259332387 | 0.574 | 1 | 255180 | FLJ38723 |
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| 0.035212035 | 1.10122E-34 | 117579 | RLN3 |
| 0.035210829 | 1.10697E-34 | 26276 | VPS33B |
| 0.035202863 | 1.14569E-34 | 2925 | GRPR |
| 0.035202712 | 1.14643E-34 | 2074 | ERCC6 |
| 0.035194632 | 1.18711E-34 | 23033 | DOPEY1 |
| 0.035171039 | 1.31425E-34 | 4637 | MYL6 |
| 0.035169182 | 1.32481E-34 | 4137 | MAPT |
| 0.035165602 | 1.34541E-34 | 140738 | TMEM37 |
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| 0.035152684 | 1.42245E-34 | 8572 | PDLIM4 |
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| 0.035036873 | 2.34104E-34 | 9278 | ZBTB22 |
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| 0.035012889 | 2.59496E-34 | 23317 | DNAJC13 |
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| 0.034928623 | 3.72408E-34 | 150147 | C21orf128 |
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| 0.034786873 | 6.82474E-34 | 503834 | DPRXP4 |
| 0.034782928 | 6.94051E-34 | 197358 | NLRC3 |
| 0.034766752 | 7.43601E-34 | 9733 | SART3 |
| 0.034761372 | 7.6085E-34 | 27013 | C2orf24 |
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| 0.034640911 | 1.27017E-33 | 401431 | RP4-751H13.1 |
| 0.034607572 | 1.46327E-33 | 196968 | C15orf51 |
| 0.034591145 | 1.56887E-33 | 5973 | RENBP |
| 0.034556688 | 1.8156E-33 | 84310 | C7orf50 |
| 0.034529179 | 2.03993E-33 | 123591 | C15orf27 |
| 0.034515215 | 2.16413E-33 | 6810 | STX4 |
| 0.034514913 | 2.1669E-33 | 23524 | SRRM2 |
| 0.034496795 | 2.33952E-33 | 152065 | C3orf22 |
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| 0.034480071 | 2.51096E-33 | 127579 | DCST2 |

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| 0.078131347 | 0.259427409 | 0.589 | 1 | 51643 | TMBIM4 |
| 0.078130052 | 0.259435329 | 0.58 | 1 | 125875 | CLDND2 |
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| 0.078047121 | 0.259942532 | 0.577 | 1 | 1138 | CHRNA5 |
| 0.077982332 | 0.260339259 | 0.578 | 1 | 51171 | HSD17B14 |
| 0.077975853 | 0.260378954 | 0.615 | 1 | 79666 | PLEKHF2 |
| 0.077834612 | 0.261245354 | 0.558 | 1 | 7101 | NR2E1 |
| 0.077777598 | 0.261595654 | 0.578 | 1 | 10863 | ADAM28 |
| 0.077762048 | 0.261691246 | 0.592 | 1 | 114898 | C1QTNF2 |
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| 0.077698555 | 0.262081831 | 0.588 | 1 | 29803 | REPIN1 |
| 0.077688189 | 0.262145638 | 0.576 | 1 | 136319 | MTPN |
| 0.077620808 | 0.262560643 | 0.571 | 1 | 57730 | ANKRD36B |
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| 0.077552131 | 0.262984094 | 0.571 | 1 | 9669 | EIF5B |
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| 0.077474384 | 0.263464037 | 0.598 | 1 | 387103 | C6orf173 |
| 0.077441989 | 0.263664191 | 0.55 | 1 | 55231 | CCDC87 |
| 0.077412186 | 0.263848424 | 0.577 | 1 | 57636 | ARHGAP23 |
| 0.077378496 | 0.264056795 | 0.586 | 1 | 8632 | DNAH17 |
| 0.07735258 | 0.264217156 | 0.587 | 1 | 84279 | C2orf7 |
| 0.077344805 | 0.264265278 | 0.604 | 1 | 114897 | C1QTNF1 |
| 0.077339622 | 0.264297362 | 0.585 | 1 | 5413 | SEPTIN5 |
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| 0.077320185 | 0.264417702 | 0.594 | 1 | 55650 | PIGV |
| 0.07729427 | 0.264578214 | 0.61 | 1 | 55246 | CCDC25 |
| 0.077215227 | 0.265068188 | 0.573 | 1 | 27012 | KCNV1 |
| 0.077141367 | 0.265526594 | 0.564 | 1 | 116412 | ZNF837 |
| 0.077129705 | 0.265599023 | 0.493 | 1 | 4356 | MPP3 |
| 0.07712193 | 0.265647317 | 0.568 | 1 | 5788 | PTPRC |
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| 0.077040296 | 0.266154765 | 0.574 | 1 | 5409 | PNMT |
| 0.07696514 | 0.266622526 | 0.582 | 1 | 83987 | CCDC8 |
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| 0.07694052 | 0.26677588 | 0.59 | 1 | 6715 | SRD5A1 |
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| 0.076904238 | 0.267001986 | 0.596 | 1 | 56898 | BDH2 |
| 0.07688221 | 0.267139329 | 0.559 | 1 | 5744 | PTHLH |
| 0.076853703 | 0.267317138 | 0.588 | 1 | 8239 | USP9X |
| 0.076848519 | 0.267349475 | 0.602 | 1 | 692312 | PPAN-P2RY11 |
| 0.076810942 | 0.267584003 | 0.621 | 1 | 164592 | CCDC116 |
| 0.076803167 | 0.267632543 | 0.592 | 1 | 1407 | CRY1 |
| 0.076764293 | 0.267875336 | 0.613 | 1 | 129807 | NEU4 |
| 0.076720237 | 0.268150683 | 0.593 | 1 | 4237 | MFAP2 |
| 0.076695617 | 0.268304638 | 0.596 | 1 | 7376 | NR1H2 |
| 0.076680067 | 0.268401903 | 0.584 | 1 | 57419 | SLC24A3 |
| 0.076624348 | 0.268750636 | 0.577 | 1 | 83986 | ITFG3 |
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| 0.076506432 | 0.269489672 | 0.583 | 1 | 8128 | ST8SIA2 |
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| 0.076450713 | 0.269839369 | 0.58 | 1 | 896 | CCND3 |
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| 0.076414431 | 0.270067245 | 0.592 | 1 | 3655 | ITGA6 |
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| 0.076290036 | 0.27084953 | 0.597 | 1 | 79958 | DENND1C |
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| 0.07619026 | 0.271478103 | 0.592 | 1 | 152189 | CMTM8 |
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| 0.076103443 | 0.272025851 | 0.569 | 1 | 100130933 | C17ORF110 |
| 0.076059386 | 0.2723041 | 0.586 | 1 | 8682 | PEA15 |
| 0.07604902 | 0.272369599 | 0.592 | 1 | 29081 | METTL5 |
| 0.076039949 | 0.272426919 | 0.559 | 1 | 4702 | NDUFA8 |
| 0.076001076 | 0.272672669 | 0.61 | 1 | 79595 | SAP130 |
| 0.075995892 | 0.272705447 | 0.604 | 1 | 29062 | WDR91 |
| 0.075993301 | 0.272721837 | 0.598 | 1 | 10424 | PGRMC2 |
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| 0.034285606 | 5.69997E-33 | 27147 | DENND2A |
| 0.034283608 | 5.74805E-33 | 6132 | RPL8 |
| 0.034265912 | 6.19184E-33 | 3776 | KCNK2 |
| 0.034249555 | 6.63221E-33 | 388564 | TMEM238 |
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| 0.034158724 | 9.70736E-33 | 128218 | TMEM125 |
| 0.034135923 | 1.06798E-32 | 58191 | CXCL16 |
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| 0.034116916 | 1.15639E-32 | 5393 | EXOSC9 |
| 0.034078964 | 1.35525E-32 | 26234 | FBXL5 |
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| 0.034001631 | 1.87159E-32 | 4710 | NDUFB4 |
| 0.033984138 | 2.01315E-32 | 90313 | TP53I13 |
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| 0.033975659 | 2.08555E-32 | 92305 | TMEM129 |
| 0.033968354 | 2.14999E-32 | 9201 | DCLK1 |
| 0.033952577 | 2.296E-32 | 240 | ALOX5 |
| 0.03393425 | 2.478E-32 | 29766 | TMOD3 |
| 0.033924301 | 2.58272E-32 | 169834 | ZNF883 |
| 0.033913038 | 2.7066E-32 | 8302 | KLRC4 |
| 0.03391003 | 2.74066E-32 | 90353 | ATPBD3 |
| 0.033881925 | 3.08028E-32 | 9534 | ZNF254 |
| 0.033822736 | 3.93825E-32 | 158248 | TTC16 |
| 0.033821584 | 3.95711E-32 | 26015 | RPAP1 |
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| 0.033785091 | 4.60339E-32 | 26034 | IPCEF1 |
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| 0.033702495 | 6.47916E-32 | 25834 | MGAT4C |
| 0.033691793 | 6.77216E-32 | 7334 | UBE2N |
| 0.033688018 | 6.87861E-32 | 50486 | G0S2 |
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| 0.033678559 | 7.1527E-32 | 84937 | ZNRF1 |
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| 0.033669937 | 7.41198E-32 | 84307 | ZNF397 |
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| 0.033557556 | 1.17797E-31 | 10141 | C4orf6 |
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| 0.03352471 | 1.34839E-31 | 440387 | CTRB2 |
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| 0.033490021 | 1.55498E-31 | 7587 | ZNF37A |
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| 0.033488203 | 1.56664E-31 | 10072 | DPP3 |
| 0.033486247 | 1.57928E-31 | 81553 | FAM49A |
| 0.033482485 | 1.60387E-31 | 79081 | C11orf48 |
| 0.0334619 | 1.7453E-31 | 1267 | CNP |
| 0.033451882 | 1.81854E-31 | 389677 | RBM12B |
| 0.033448801 | 1.84167E-31 | 9092 | SART1 |
| 0.033444608 | 1.87362E-31 | 6633 | SNRPD2 |
| 0.033425474 | 2.02655E-31 | 54756 | IL17RD |
| 0.033420747 | 2.06621E-31 | 79963 | ABCA11P |

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| 0.075954427 | 0.272967769 | 0.592 | 1 | 286467 | RP11-453F18__B.1 |
| 0.075911666 | 0.273238467 | 0.607 | 1 | 643997 | LOC643997 |
| 0.07591037 | 0.273246673 | 0.615 | 1 | 25853 | WDR40A |
| 0.075905187 | 0.273279498 | 0.611 | 1 | 84264 | HAGHL |
| 0.075893525 | 0.273353364 | 0.619 | 1 | 57798 | GATAD1 |
| 0.075888342 | 0.273386198 | 0.593 | 1 | 6258 | RXRG |
| 0.075881863 | 0.273427244 | 0.574 | 1 | 6335 | SCN9A |
| 0.075880567 | 0.273435454 | 0.587 | 1 | 284837 | AP001053.11 |
| 0.075831328 | 0.273747546 | 0.624 | 1 | 6748 | SSR4 |
| 0.075805412 | 0.273911902 | 0.61 | 1 | 26286 | ARFGAP3 |
| 0.075801524 | 0.273936562 | 0.59 | 1 | 388611 | CD164L2 |
| 0.075800229 | 0.273944782 | 0.599 | 1 | 6282 | S100A11 |
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| 0.075767834 | 0.274150338 | 0.59 | 1 | 55103 | RALGPS2 |
| 0.075754876 | 0.27423259 | 0.615 | 1 | 7789 | ZXDA |
| 0.075752285 | 0.274249043 | 0.591 | 1 | 5051 | PAFAH2 |
| 0.075723777 | 0.274430063 | 0.597 | 1 | 199857 | ALG14 |
| 0.075722482 | 0.274438294 | 0.575 | 1 | 2175 | FANCA |
| 0.075721186 | 0.274446524 | 0.622 | 1 | 57326 | PBXIP1 |
| 0.075669354 | 0.274775874 | 0.607 | 1 | 56246 | MRAP |
| 0.075625298 | 0.275056032 | 0.623 | 1 | 123263 | MTFMT |
| 0.075556621 | 0.275493136 | 0.606 | 1 | 29889 | GNL2 |
| 0.075529409 | 0.275666459 | 0.623 | 1 | 492303 | GEMIN8P4 |
| 0.075449071 | 0.276178604 | 0.553 | 1 | 25851 | TECPR1 |
| 0.075445183 | 0.276203402 | 0.608 | 1 | 728373 | AC116655.15 |
| 0.075442592 | 0.276219934 | 0.566 | 1 | 80745 | THUMPD2 |
| 0.075403718 | 0.276468004 | 0.559 | 1 | 222696 | ZSCAN23 |
| 0.075384281 | 0.276592095 | 0.613 | 1 | 10549 | PRDX4 |
| 0.075290985 | 0.277188258 | 0.554 | 1 | 284338 | PRR19 |
| 0.075265069 | 0.277354013 | 0.564 | 1 | 832 | CAPZB |
| 0.075262478 | 0.277370592 | 0.562 | 1 | 4113 | MAGEB2 |
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| 0.075236562 | 0.277536422 | 0.612 | 1 | 5616 | PRKY |
| 0.075183435 | 0.277876581 | 0.613 | 1 | 29899 | GPSM2 |
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| 0.075097913 | 0.278424748 | 0.588 | 1 | 138046 | RALYL |
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| 0.075079772 | 0.27854112 | 0.623 | 1 | 64418 | TMEM168 |
| 0.075005912 | 0.279015259 | 0.607 | 1 | 11025 | LILRB3 |
| 0.074985179 | 0.279148449 | 0.583 | 1 | 5894 | RAF1 |
| 0.074973517 | 0.279223387 | 0.561 | 1 | 57526 | PCDH19 |
| 0.074970926 | 0.279240042 | 0.587 | 1 | 753 | C18orf1 |
| 0.074952785 | 0.279356644 | 0.592 | 1 | 80740 | LY6G6C |
| 0.07492039 | 0.279564945 | 0.574 | 1 | 56155 | TEX14 |
| 0.074894474 | 0.27973166 | 0.58 | 1 | 5127 | PCTK1 |
| 0.074854305 | 0.279990202 | 0.607 | 1 | 202374 | STK32A |
| 0.074824502 | 0.280182128 | 0.586 | 1 | 57103 | C12orf5 |
| 0.07481284 | 0.280257254 | 0.592 | 1 | 494118 | SPANXN1 |
| 0.07477915 | 0.28047436 | 0.625 | 1 | 6284 | S100A13 |
| 0.07468974 | 0.281051077 | 0.603 | 1 | 54436 | SH3TC1 |
| 0.074688445 | 0.281059441 | 0.562 | 1 | 4048 | LTA4H |
| 0.074609402 | 0.281569969 | 0.585 | 1 | 133418 | EMB |
| 0.074604218 | 0.281603468 | 0.595 | 1 | 64759 | TNS3 |
| 0.074593852 | 0.281670474 | 0.625 | 1 | 51434 | ANAPC7 |
| 0.074420217 | 0.282794427 | 0.576 | 1 | 127262 | TPRG1L |
| 0.074413738 | 0.282836424 | 0.592 | 1 | 79072 | FASTKD3 |
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| 0.074368385 | 0.283130521 | 0.611 | 1 | 839 | CASP6 |
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| 0.074171426 | 0.28441013 | 0.643 | 1 | 4355 | MPP2 |
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| 0.074106637 | 0.284831903 | 0.589 | 1 | 252839 | TMEM9 |
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| 0.074092383 | 0.28492475 | 0.595 | 1 | 8403 | SOX14 |
| 0.074059988 | 0.285135841 | 0.623 | 1 | 51207 | DUSP13 |
| 0.073936889 | 0.285938944 | 0.584 | 1 | 5874 | RAB27B |
| 0.073922635 | 0.286032033 | 0.585 | 1 | 10609 | AC130686.2 |
| 0.073895424 | 0.286209806 | 0.632 | 1 | 29079 | MED4 |
| 0.073806014 | 0.286794436 | 0.588 | 1 | 283987 | C17orf28 |
| 0.073721788 | 0.287345908 | 0.569 | 1 | 434 | ASIP |
| 0.07364145 | 0.287872591 | 0.587 | 1 | 100130331 | RP11-193H5.1 |
| 0.073589618 | 0.288212729 | 0.588 | 1 | 8941 | CDK5R2 |
| 0.073566294 | 0.288365879 | 0.596 | 1 | 84300 | MNF1 |
| 0.073562407 | 0.28839141 | 0.616 | 1 | 23152 | CIC |
| 0.073550745 | 0.28846801 | 0.639 | 1 | 11018 | TMED1 |
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| 0.033340125 | 2.87425E-31 | 55701 | AL161668.2 |
| 0.03333564 | 2.92745E-31 | 124925 | SEZ6 |
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| 0.033307278 | 3.28724E-31 | 2937 | GSS |
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| 0.033267107 | 3.87312E-31 | 64780 | MICAL1 |
| 0.033264602 | 3.91291E-31 | 64377 | CHST8 |
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| 0.033258333 | 4.01427E-31 | 29107 | NXT1 |
| 0.033254942 | 4.07018E-31 | 730144 | LOC730144 |
| 0.033249595 | 4.15994E-31 | 2671 | GFER |
| 0.033245192 | 4.23529E-31 | 148206 | ZNF714 |
| 0.033234744 | 4.41961E-31 | 390927 | ZNF793 |
| 0.033234111 | 4.43103E-31 | 5586 | PKN2 |
| 0.033231548 | 4.47757E-31 | 114990 | VASN |
| 0.033224274 | 4.61229E-31 | 10250 | SRRM1 |
| 0.033219101 | 4.71056E-31 | 150737 | TTC30B |
| 0.033218374 | 4.72452E-31 | 26517 | TIMM13 |
| 0.033212879 | 4.8315E-31 | 337876 | CHSY3 |
| 0.033211356 | 4.86155E-31 | 85460 | ZNF518B |
| 0.033186622 | 5.37674E-31 | 91526 | ANKRD44 |
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| 0.033154914 | 6.11712E-31 | 4654 | MYOD1 |
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| 0.033125233 | 6.90156E-31 | 79697 | C14orf169 |
| 0.033114374 | 7.21284E-31 | 27076 | LYPD3 |
| 0.033111756 | 7.28994E-31 | 1292 | COL6A2 |
| 0.033108228 | 7.39515E-31 | 4756 | NEO1 |
| 0.03310477 | 7.49974E-31 | 122046 | TEX26 |
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| 0.033092002 | 7.89876E-31 | 140625 | ACTRT2 |
| 0.033082277 | 8.21676E-31 | 10640 | EXOC5 |
| 0.033078033 | 8.35947E-31 | 653361 | NCF1 |
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| 0.033063972 | 8.85019E-31 | 419 | ART3 |
| 0.033043774 | 9.60544E-31 | 1385 | CREB1 |
| 0.033042204 | 9.66677E-31 | 285195 | SLC9A9 |
| 0.033032793 | 1.00426E-30 | 1442 | CSH1 |
| 0.033021371 | 1.05182E-30 | 23647 | ARFIP2 |
| 0.033018217 | 1.06535E-30 | 8904 | CPNE1 |
| 0.032975524 | 1.26631E-30 | 3696 | ITGB8 |
| 0.03297366 | 1.2759E-30 | 1579 | CYP4A11 |
| 0.032971146 | 1.28893E-30 | 387882 | C12ORF75 |
| 0.032955243 | 1.37454E-30 | 4257 | MGST1 |
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| 0.032843409 | 2.15862E-30 | 7423 | VEGFB |
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| 0.032759104 | 3.03537E-30 | 80005 | DOCK5 |
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| 0.032714942 | 3.61855E-30 | 81932 | HDHD3 |
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| 0.032701359 | 3.82125E-30 | 1573 | CYP2J2 |
| 0.032692514 | 3.95926E-30 | 6237 | RRAS |
| 0.03266468 | 4.42667E-30 | 51132 | RLIM |
| 0.032663123 | 4.45437E-30 | 91607 | SLFN11 |
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| 0.073489843 | 0.288868254 | 0.576 | 1 | 23089 | PEG10 |
| 0.073390067 | 0.289524778 | 0.6 | 1 | 55022 | PID1 |
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| 0.073377109 | 0.289610114 | 0.603 | 1 | 54972 | TMEM132A |
| 0.07333694 | 0.289874763 | 0.612 | 1 | 64773 | FAM113A |
| 0.073295475 | 0.290148118 | 0.635 | 1 | 63928 | AC130454.1 |
| 0.073233277 | 0.290558475 | 0.624 | 1 | 3482 | IGF2R |
| 0.073222911 | 0.290626906 | 0.604 | 1 | 910 | CD1B |
| 0.073163305 | 0.291020591 | 0.627 | 1 | 554251 | FBXO48 |
| 0.073160713 | 0.291037716 | 0.617 | 1 | 54870 | QRICH1 |
| 0.073112769 | 0.291354646 | 0.615 | 1 | 84436 | ZNF528 |
| 0.073110177 | 0.291371784 | 0.607 | 1 | 23480 | SEC61G |
| 0.072993557 | 0.292143691 | 0.591 | 1 | 23457 | ABCB9 |
| 0.072981895 | 0.292220956 | 0.61 | 1 | 9482 | STX8 |
| 0.072961162 | 0.292358351 | 0.575 | 1 | 85477 | SCIN |
| 0.072944317 | 0.292470016 | 0.592 | 1 | 201164 | PLD6 |
| 0.072926176 | 0.292590303 | 0.636 | 1 | 8645 | KCNK5 |
| 0.072840654 | 0.293157814 | 0.625 | 1 | 55258 | THNSL2 |
| 0.072791414 | 0.293484895 | 0.62 | 1 | 1996 | ELAVL4 |
| 0.072791414 | 0.293484895 | 0.612 | 1 | 28959 | TMEM176B |
| 0.07266961 | 0.294295037 | 0.606 | 1 | 55128 | TRIM68 |
| 0.072651469 | 0.294415824 | 0.604 | 1 | 7475 | WNT6 |
| 0.072603525 | 0.294735206 | 0.657 | 1 | 27294 | DHDH |
| 0.072581497 | 0.294882026 | 0.629 | 1 | 1875 | E2F5 |
| 0.072543919 | 0.295132597 | 0.59 | 1 | 51406 | NOL7 |
| 0.072541327 | 0.295149883 | 0.617 | 1 | 10904 | BLCAP |
| 0.07251282 | 0.295340073 | 0.606 | 1 | 5446 | PON3 |
| 0.072490792 | 0.295487094 | 0.561 | 1 | 10157 | AASS |
| 0.072459693 | 0.295694736 | 0.634 | 1 | 160518 | DENND5B |
| 0.072422115 | 0.295945766 | 0.61 | 1 | 4037 | LRP3 |
| 0.072392312 | 0.29614496 | 0.609 | 1 | 26589 | MRPL46 |
| 0.072339185 | 0.296500266 | 0.601 | 1 | 54739 | XAF1 |
| 0.072313269 | 0.296673689 | 0.594 | 1 | 55509 | BATF3 |
| 0.072240705 | 0.297159632 | 0.638 | 1 | 644192 | RP11-327J17.3 |
| 0.072221268 | 0.297289885 | 0.641 | 1 | 116461 | TSEN15 |
| 0.072144817 | 0.297802583 | 0.607 | 1 | 55922 | NKRF |
| 0.072138338 | 0.297846059 | 0.614 | 1 | 2889 | RAPGEF1 |
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| 0.072082619 | 0.298220125 | 0.626 | 1 | 116844 | LRG1 |
| 0.072016534 | 0.298664191 | 0.616 | 1 | 60685 | ZFAND3 |
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| 0.071907688 | 0.299396549 | 0.638 | 1 | 8943 | AP3D1 |
| 0.071892139 | 0.299501268 | 0.62 | 1 | 5510 | PPP1R7 |
| 0.071889547 | 0.299518724 | 0.602 | 1 | 55020 | TTC38 |
| 0.071876589 | 0.299606012 | 0.622 | 1 | 79667 | AC021860.1 |
| 0.071850674 | 0.29978064 | 0.62 | 1 | 8409 | UXT |
| 0.071848082 | 0.299798106 | 0.633 | 1 | 347746 | PAR-SN |
| 0.071840307 | 0.29985051 | 0.613 | 1 | 389741 | MGC21881 |
| 0.071745715 | 0.300488571 | 0.603 | 1 | 57403 | RAB22A |
| 0.071723687 | 0.30063729 | 0.597 | 1 | 84842 | HPDL |
| 0.071693884 | 0.300838575 | 0.598 | 1 | 2332 | FMR1 |
| 0.071687405 | 0.300882345 | 0.63 | 1 | 83897 | KRTAP3-2 |
| 0.071682221 | 0.300917363 | 0.63 | 1 | 83874 | TBC1D10A |
| 0.071648531 | 0.30114505 | 0.576 | 1 | 144811 | C13orf31 |
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| 0.071632982 | 0.301250175 | 0.635 | 1 | 9646 | CTR9 |
| 0.071623911 | 0.301311509 | 0.578 | 1 | 84898 | PLXDC2 |
| 0.071551347 | 0.301802479 | 0.626 | 1 | 6835 | SURF2 |
| 0.071476192 | 0.302311541 | 0.592 | 1 | 317772 | HIST2H2AB |
| 0.071442501 | 0.302539926 | 0.622 | 1 | 23362 | PSD3 |
| 0.071355683 | 0.303128981 | 0.6 | 1 | 83857 | TMTC1 |
| 0.07132588 | 0.303331369 | 0.627 | 1 | 9296 | ATP6V1F |
| 0.071261091 | 0.303771651 | 0.599 | 1 | 6672 | SP100 |
| 0.071259795 | 0.303780461 | 0.623 | 1 | 60509 | AGBL5 |
| 0.071226105 | 0.304009578 | 0.601 | 1 | 54510 | PCDH18 |
| 0.071202781 | 0.304168265 | 0.613 | 1 | 5682 | PSMA1 |
| 0.071178161 | 0.304335827 | 0.58 | 1 | 160851 | DGKH |
| 0.071109484 | 0.304803559 | 0.603 | 1 | 10126 | DNAL4 |
| 0.071073202 | 0.305050854 | 0.631 | 1 | 84262 | PSMG3 |
| 0.07106154 | 0.30513037 | 0.603 | 1 | 55651 | NHP2 |
| 0.070985089 | 0.305651979 | 0.621 | 1 | 653657 | AC010606.4 |
| 0.070944919 | 0.30592628 | 0.616 | 1 | 112936 | VPS26B |
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| 0.070903454 | 0.3062096 | 0.615 | 1 | 6978 | TRGV5 |
| 0.070865876 | 0.306466508 | 0.588 | 1 | 153396 | TMEM161B |
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| 0.070854214 | 0.306546267 | 0.621 | 1 | 222658 | KCTD20 |
| 0.070811453 | 0.306838834 | 0.603 | 1 | 51313 | C4orf18 |
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| 0.032409714 | 1.22494E-29 | 11026 | LILRA3 |
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| 0.032392951 | 1.30935E-29 | 389658 | FAM150A |
| 0.03238325 | 1.36081E-29 | 3280 | HES1 |
| 0.032380289 | 1.37691E-29 | 9973 | CCS |
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| 0.032340493 | 1.61262E-29 | 868 | CBLB |
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| 0.032287359 | 1.9908E-29 | 286256 | LCN12 |
| 0.03228141 | 2.03826E-29 | 79781 | IQCA1 |
| 0.032279919 | 2.71714E-29 | 5168 | ENPP2 |
| 0.032260201 | 2.21684E-29 | 3306 | HSPA2 |
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| 0.032242005 | 2.38236E-29 | 8343 | HIST1H2BF |
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| 0.032204174 | 2.76674E-29 | 55012 | PPP2R3C |
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| 0.031999914 | 6.18615E-29 | 653390 | AC009093.1 |
| 0.031979993 | 6.68935E-29 | 83639 | TEX101 |
| 0.03194124 | 7.78744E-29 | 348094 | ANKDD1A |
| 0.031928713 | 8.17931E-29 | 4330 | MN1 |
| 0.031927309 | 8.22443E-29 | 84904 | C9orf100 |
| 0.031905698 | 8.95092E-29 | 158584 | FAAH2 |
| 0.031905036 | 8.97415E-29 | 10004 | NAALADL1 |
| 0.031902666 | 9.05781E-29 | 340351 | AGBL3 |
| 0.031884878 | 9.71093E-29 | 645323 | LINC00461 |
| 0.03187809 | 9.97229E-29 | 91445 | RNF185 |
| 0.031864735 | 1.06261E-28 | 10577 | NPC2 |
| 0.031843688 | 1.14081E-28 | 10342 | TFG |
| 0.031817513 | 1.26363E-28 | 644844 | AC013356.1 |

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|---|---|---|---|---|---|
| 0.07074796 | 0.30727359 | 0.648 | 1 | 7884 | SLBP |
| 0.07069872 | 0.307611027 | 0.641 | 1 | 54714 | CNGB3 |
| 0.070676692 | 0.307762065 | 0.631 | 1 | 141 | ADPRH |
| 0.070659847 | 0.307877597 | 0.615 | 1 | 284307 | ZIK1 |
| 0.070637818 | 0.308028721 | 0.653 | 1 | 7474 | WNT5A |
| 0.070636522 | 0.308037612 | 0.599 | 1 | 3149 | HMGB3 |
| 0.070606719 | 0.308242155 | 0.599 | 1 | 1436 | CSF1R |
| 0.070592466 | 0.308340012 | 0.622 | 1 | 81888 | HYI |
| 0.070562663 | 0.308544687 | 0.643 | 1 | 3298 | HSF2 |
| 0.070549705 | 0.308633704 | 0.621 | 1 | 283 | ANG |
| 0.070547113 | 0.308651509 | 0.581 | 1 | 1122 | CHML |
| 0.070530268 | 0.308767261 | 0.623 | 1 | 58191 | CXCL16 |
| 0.070478437 | 0.3091236 | 0.597 | 1 | 6793 | STK10 |
| 0.070405873 | 0.309622927 | 0.595 | 1 | 23279 | NUP160 |
| 0.070392915 | 0.309712149 | 0.602 | 1 | 7225 | TRPC6 |
| 0.070391619 | 0.309721072 | 0.625 | 1 | 5568 | PRKACG |
| 0.070321646 | 0.310203168 | 0.603 | 1 | 285973 | ATG9B |
| 0.070299618 | 0.310355041 | 0.608 | 1 | 57121 | LPAR5 |
| 0.070269815 | 0.310560594 | 0.626 | 1 | 1387 | CREBBP |
| 0.070256857 | 0.310649993 | 0.651 | 1 | 55437 | STRADB |
| 0.070221871 | 0.310891454 | 0.611 | 1 | 388569 | ZNF324B |
| 0.070217984 | 0.310918291 | 0.619 | 1 | 23376 | KIAA0776 |
| 0.070207617 | 0.310989862 | 0.619 | 1 | 80021 | TMEM62 |
| 0.070166152 | 0.311276257 | 0.61 | 1 | 65244 | SPATS2 |
| 0.070136349 | 0.31148221 | 0.613 | 1 | 64601 | VPS16A |
| 0.070135053 | 0.311491167 | 0.613 | 1 | 390197 | OR4D10 |
| 0.070124687 | 0.311562825 | 0.599 | 1 | 4685 | NCAM2 |
| 0.070115616 | 0.311625535 | 0.617 | 1 | 7311 | RPS27AP11 |
| 0.070106546 | 0.311688253 | 0.603 | 1 | 5706 | PSMC6 |
| 0.070100067 | 0.311733056 | 0.633 | 1 | 5098 | PCDHGC3 |
| 0.070100067 | 0.311733056 | 0.607 | 1 | 353116 | RILPL1 |
| 0.070061193 | 0.312001967 | 0.589 | 1 | 8338 | HIST2H2AC |
| 0.069892741 | 0.313169003 | 0.622 | 1 | 56477 | CCL28 |
| 0.069817586 | 0.313690601 | 0.618 | 1 | 54973 | CPSF3L |
| 0.06981629 | 0.313699599 | 0.628 | 1 | 154197 | PNLDC1 |
| 0.069803332 | 0.313789589 | 0.634 | 1 | 29950 | SERTAD1 |
| 0.069768346 | 0.314032646 | 0.609 | 1 | 100130691 | AC074286.1 |
| 0.069760571 | 0.314086676 | 0.614 | 1 | 9948 | WDR1 |
| 0.069755388 | 0.314122699 | 0.62 | 1 | 833 | CARS |
| 0.069747613 | 0.314176738 | 0.623 | 1 | 1877 | E4F1 |
| 0.069746318 | 0.314185745 | 0.63 | 1 | 8687 | KRT38 |
| 0.06968412 | 0.314618289 | 0.592 | 1 | 28977 | MRPL42 |
| 0.069675049 | 0.3146814 | 0.609 | 1 | 55586 | MIOX |
| 0.069667275 | 0.314735503 | 0.615 | 1 | 84221 | C21orf56 |
| 0.069650429 | 0.314852745 | 0.602 | 1 | 55219 | TMEM57 |
| 0.06964395 | 0.314897846 | 0.602 | 1 | 23426 | GRIP1 |
| 0.069627105 | 0.315015129 | 0.656 | 1 | 730 | C7 |
| 0.069586936 | 0.315294917 | 0.608 | 1 | 4043 | LRPAP1 |
| 0.069542879 | 0.315601967 | 0.621 | 1 | 26330 | GAPDHS |
| 0.069485865 | 0.315999617 | 0.61 | 1 | 80790 | AC099524.1 |
| 0.069456062 | 0.31620761 | 0.612 | 1 | 9873 | FCHSD2 |
| 0.069413301 | 0.31650619 | 0.623 | 1 | 2262 | GPC5 |
| 0.069399047 | 0.316605758 | 0.63 | 1 | 6576 | SLC25A1 |
| 0.069336849 | 0.317040474 | 0.608 | 1 | 202781 | LOC202781 |
| 0.06927206 | 0.317493717 | 0.629 | 1 | 56052 | ALG1 |
| 0.069270764 | 0.317502786 | 0.613 | 1 | 4594 | MUT |
| 0.069265581 | 0.317539064 | 0.631 | 1 | 790 | CAD |
| 0.069225412 | 0.317820313 | 0.601 | 1 | 147179 | WIPF2 |
| 0.069221524 | 0.317847539 | 0.586 | 1 | 8351 | HIST1H3D |
| 0.069160622 | 0.318274282 | 0.657 | 1 | 3134 | HLA-F |
| 0.069138594 | 0.318428728 | 0.622 | 1 | 81890 | QTRT1 |
| 0.069110087 | 0.318628671 | 0.628 | 1 | 64801 | ARV1 |
| 0.069108791 | 0.318637762 | 0.616 | 1 | 55701 | AL161668.2 |
| 0.069098425 | 0.31871049 | 0.6 | 1 | 140 | ADORA3 |
| 0.069067326 | 0.31892874 | 0.649 | 1 | 64386 | MMP25 |
| 0.069037523 | 0.319137987 | 0.638 | 1 | 23057 | NMNAT2 |
| 0.068954592 | 0.319720711 | 0.623 | 1 | 3776 | KCNK2 |
| 0.068929972 | 0.31989384 | 0.636 | 1 | 388531 | RGS9BP |
| 0.068917015 | 0.319984985 | 0.642 | 1 | 23474 | ETHE1 |
| 0.068904057 | 0.320076147 | 0.648 | 1 | 2857 | GPR34 |
| 0.068888507 | 0.320185564 | 0.609 | 1 | 1452 | CSNK1A1 |
| 0.06888462 | 0.320212922 | 0.624 | 1 | 283899 | INO80E |
| 0.068812056 | 0.320723883 | 0.665 | 1 | 63827 | BCAN |
| 0.068790028 | 0.320879101 | 0.632 | 1 | 80227 | PAAF1 |
| 0.068681182 | 0.321646777 | 0.63 | 1 | 408186 | OVOS |
| 0.06866952 | 0.321729098 | 0.632 | 1 | 9760 | TOX |
| 0.068599547 | 0.322223316 | 0.634 | 1 | 100287016 | DSTNP3 |
| 0.068596956 | 0.32224163 | 0.627 | 1 | 440585 | FAM183A |
| 0.068593068 | 0.322269102 | 0.628 | 1 | 55757 | UGCGL2 |
| 0.068591772 | 0.322278259 | 0.632 | 1 | 84861 | KLHL22 |
| 0.068581406 | 0.322351527 | 0.646 | 1 | 6462 | SHBG |
| 0.068574927 | 0.322397324 | 0.669 | 1 | 83902 | KRTAP17-1 |

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| 0.031811586 | 1.29322E-28 | 50615 | IL21R |
| 0.031808514 | 1.30882E-28 | 4684 | NCAM1 |
| 0.031807173 | 1.31569E-28 | 3508 | IGHMBP2 |
| 0.03179344 | 1.38813E-28 | 120224 | TMEM45B |
| 0.031784773 | 1.43587E-28 | 28988 | DBNL |
| 0.031780292 | 1.46119E-28 | 8908 | GYG2 |
| 0.031777079 | 1.47961E-28 | 10573 | MRPL28 |
| 0.031762686 | 2.21077E-28 | 91543 | RSAD2 |
| 0.031754503 | 1.61575E-28 | 10942 | PRSS21 |
| 0.031750105 | 1.64368E-28 | 26133 | TRPC4AP |
| 0.031744805 | 2.29942E-28 | 151011 | SEPTIN10 |
| 0.031737027 | 1.72959E-28 | 11179 | ZNF277 |
| 0.031732708 | 1.75894E-28 | 3936 | LCP1 |
| 0.031732307 | 1.76168E-28 | 79087 | ALG12 |
| 0.031728486 | 1.7881E-28 | 6640 | SNTA1 |
| 0.031715789 | 1.87871E-28 | 140686 | WFDC3 |
| 0.03169408 | 2.0443E-28 | 79038 | ZFYVE21 |
| 0.031686946 | 2.10183E-28 | 164153 | UBL4B |
| 0.031681675 | 2.14535E-28 | 8545 | CGGBP1 |
| 0.031680191 | 2.15777E-28 | 26272 | FBXO4 |
| 0.031672974 | 2.21916E-28 | 5498 | PPOX |
| 0.031669361 | 2.25055E-28 | 54851 | ANKRD49 |
| 0.031659923 | 2.33464E-28 | 2301 | FOXE3 |
| 0.031649975 | 2.42663E-28 | 10607 | TBL3 |
| 0.03164784 | 3.45311E-28 | 27328 | PCDH11X |
| 0.031643497 | 2.48847E-28 | 55274 | PHF10 |
| 0.03163321 | 2.58988E-28 | 441543 | TTTY6B |
| 0.031630418 | 2.61811E-28 | 438 | ASMT |
| 0.031628573 | 2.63693E-28 | 5686 | PSMA5 |
| 0.031602236 | 2.92067E-28 | 56269 | IRGC |
| 0.031595255 | 3.00083E-28 | 6191 | RPS4X |
| 0.031594642 | 3.00797E-28 | 2487 | FRZB |
| 0.031562417 | 3.40814E-28 | 4914 | NTRK1 |
| 0.031539297 | 3.72736E-28 | 92609 | TIMM50 |
| 0.031526666 | 3.91412E-28 | 79166 | LILRP2 |
| 0.031511392 | 4.15236E-28 | 57624 | KIAA1486 |
| 0.031493207 | 4.45486E-28 | 11132 | CAPN10 |
| 0.03147131 | 4.84821E-28 | 9447 | AIM2 |
| 0.031454927 | 5.16487E-28 | 100287049 | RP11-574F21.2 |
| 0.031441221 | 5.4455E-28 | 256536 | TCERG1L |
| 0.031417304 | 5.97185E-28 | 390199 | OR4D9 |
| 0.031407775 | 6.19535E-28 | 8318 | CDC45L |
| 0.031397597 | 6.44324E-28 | 3111 | HLA-DOA |
| 0.031394248 | 6.52695E-28 | 219986 | OR4D11 |
| 0.031358845 | 7.48044E-28 | 19 | ABCA1 |
| 0.031334364 | 8.21935E-28 | 8969 | HIST1H2AG |
| 0.031330076 | 8.35602E-28 | 57089 | ENTPD7 |
| 0.03131827 | 8.7441E-28 | 338323 | NLRP14 |
| 0.031311708 | 8.96747E-28 | 402055 | SRRD |
| 0.031272382 | 1.04298E-27 | 9481 | SLC25A27 |
| 0.031268212 | 1.05981E-27 | 164832 | LONRF2 |
| 0.031239354 | 1.18389E-27 | 126299 | ZNF428 |
| 0.031233775 | 1.20949E-27 | 7039 | TGFA |
| 0.031230644 | 1.22409E-27 | 84631 | SLITRK2 |
| 0.031229011 | 1.23178E-27 | 55634 | ZNF673 |
| 0.03122515 | 1.25015E-27 | 8733 | GPAA1 |
| 0.031223068 | 1.26016E-27 | 2590 | GALNT2 |
| 0.031218764 | 1.28113E-27 | 64714 | PDIA2 |
| 0.031204304 | 1.35411E-27 | 55789 | DEPDC1B |
| 0.031175058 | 1.51456E-27 | 84326 | C16orf13 |
| 0.031161083 | 1.59775E-27 | 9112 | MTA1 |
| 0.031153839 | 1.64263E-27 | 8763 | CD164 |
| 0.031139557 | 1.73483E-27 | 1380 | CR2 |
| 0.03111526 | 1.90362E-27 | 151507 | MSL3P1 |
| 0.031085847 | 2.17923E-27 | 770 | CA11 |
| 0.031081804 | 2.16298E-27 | 10528 | NOP56 |
| 0.031077521 | 2.19862E-27 | 25976 | TIPARP |
| 0.03106786 | 2.28115E-27 | 93343 | FAM125A |
| 0.031063028 | 2.32358E-27 | 57136 | C20orf3 |
| 0.031055928 | 2.38735E-27 | 60468 | BACH2 |
| 0.031029455 | 2.64079E-27 | 56244 | BTNL2 |
| 0.03102337 | 2.70271E-27 | 6360 | CCL16 |
| 0.031022018 | 2.71666E-27 | 3171 | FOXA3 |
| 0.031020325 | 2.73423E-27 | 706 | TSPO |
| 0.030990521 | 3.06272E-27 | 84274 | COQ5 |
| 0.030978531 | 3.20564E-27 | 197 | AHSG |
| 0.030959343 | 3.44826E-27 | 322 | APBB1 |
| 0.030944578 | 3.64726E-27 | 55214 | LEPREL1 |
| 0.030911087 | 4.14188E-27 | 284612 | SYPL2 |
| 0.030908651 | 4.18034E-27 | 5588 | PRKCQ |
| 0.030889029 | 4.5034E-27 | 3340 | NDST1 |
| 0.030883285 | 4.68298E-27 | 6035 | RNASE1 |

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|---|---|---|---|---|---|
| 0.068526983 | 0.322736357 | 0.602 | 1 | 22927 | HABP4 |
| 0.068431095 | 0.323415118 | 0.612 | 1 | 128312 | HIST3H2BB |
| 0.068402588 | 0.323617089 | 0.616 | 1 | 8671 | SLC4A4 |
| 0.068397405 | 0.32365382 | 0.638 | 1 | 10079 | ATP9A |
| 0.068387038 | 0.32372729 | 0.606 | 1 | 3897 | L1CAM |
| 0.068317066 | 0.324223495 | 0.642 | 1 | 80325 | ABTB1 |
| 0.068279488 | 0.324490179 | 0.632 | 1 | 51322 | WAC |
| 0.068263939 | 0.324600572 | 0.595 | 1 | 10360 | NPM3 |
| 0.068260051 | 0.324628175 | 0.645 | 1 | 51309 | ARMCX1 |
| 0.068235431 | 0.324803023 | 0.616 | 1 | 112858 | TP53RK |
| 0.068055317 | 0.326084035 | 0.636 | 1 | 8074 | FGF23 |
| 0.068050134 | 0.326120947 | 0.636 | 1 | 284111 | SLC13A5 |
| 0.068012556 | 0.326388639 | 0.632 | 1 | 401115 | C4orf48 |
| 0.067997007 | 0.32649945 | 0.612 | 1 | 83659 | TEKT1 |
| 0.067934809 | 0.326942936 | 0.623 | 1 | 26985 | AP3M1 |
| 0.067899823 | 0.327192567 | 0.635 | 1 | 10971 | YWHAQ |
| 0.067886865 | 0.327285055 | 0.648 | 1 | 3312 | HSPA8 |
| 0.067847991 | 0.327562618 | 0.632 | 1 | 1629 | DBT |
| 0.06782078 | 0.327757003 | 0.641 | 1 | 55090 | MED9 |
| 0.06782078 | 0.327757003 | 0.62 | 1 | 79680 | C22orf29 |
| 0.067803935 | 0.327877374 | 0.646 | 1 | 7799 | PRDM2 |
| 0.067691201 | 0.328683666 | 0.622 | 1 | 648262 | LOC648262 |
| 0.067675652 | 0.32879498 | 0.62 | 1 | 8970 | HIST1H2BJ |
| 0.067616046 | 0.329221904 | 0.631 | 1 | 10682 | EBP |
| 0.067604384 | 0.329305475 | 0.632 | 1 | 8721 | EDF1 |
| 0.06756551 | 0.329584142 | 0.63 | 1 | 20 | ABCA2 |
| 0.067539594 | 0.329770005 | 0.653 | 1 | 200373 | AC069154.2 |
| 0.06753182 | 0.329825777 | 0.626 | 1 | 487 | ATP2A1 |
| 0.067517566 | 0.329928041 | 0.632 | 1 | 79626 | TNFAIP8L2 |
| 0.067495538 | 0.330086126 | 0.632 | 1 | 23225 | NUP210 |
| 0.067469622 | 0.330272171 | 0.625 | 1 | 256435 | ST6GALNAC3 |
| 0.06744241 | 0.330467591 | 0.597 | 1 | 51115 | FAM82B |
| 0.067435931 | 0.33051413 | 0.621 | 1 | 651430 | FLJ38576 |
| 0.067329677 | 0.331277979 | 0.643 | 1 | 55658 | RNF126 |
| 0.067319311 | 0.331352562 | 0.633 | 1 | 57605 | PITPNM2 |
| 0.067272662 | 0.331688317 | 0.614 | 1 | 1043 | CD52 |
| 0.067232493 | 0.331977615 | 0.65 | 1 | 51734 | SEPX1 |
| 0.067231197 | 0.33198695 | 0.625 | 1 | 64400 | AKTIP |
| 0.067222127 | 0.332052299 | 0.631 | 1 | 9601 | PDIA4 |
| 0.067115872 | 0.33281843 | 0.616 | 1 | 23186 | RCOR1 |
| 0.067097731 | 0.332949346 | 0.637 | 1 | 5378 | PMS1 |
| 0.06707052 | 0.333145783 | 0.664 | 1 | 93210 | PGAP3 |
| 0.067039421 | 0.333370373 | 0.621 | 1 | 79736 | TEFM |
| 0.067026463 | 0.33346398 | 0.643 | 1 | 286023 | AC009365.1 |
| 0.066981111 | 0.33379174 | 0.642 | 1 | 23199 | KIAA0182 |
| 0.066960378 | 0.333941642 | 0.627 | 1 | 55039 | TRMT12 |
| 0.066925392 | 0.3341947 | 0.639 | 1 | 10351 | ABCA8 |
| 0.0669228 | 0.33421345 | 0.677 | 1 | 7013 | TERF1 |
| 0.066832095 | 0.334870121 | 0.666 | 1 | 221443 | C6orf130 |
| 0.066817842 | 0.334973387 | 0.648 | 1 | 63973 | NEUROG2 |
| 0.066785447 | 0.335208159 | 0.609 | 1 | 54863 | C9orf167 |
| 0.066745278 | 0.335499422 | 0.643 | 1 | 7094 | TLN1 |
| 0.066671418 | 0.336035394 | 0.625 | 1 | 723790 | HIST2H2AA4 |
| 0.066663643 | 0.336091844 | 0.612 | 1 | 3603 | IL16 |
| 0.066610516 | 0.336477748 | 0.658 | 1 | 84826 | SFT2D3 |
| 0.06660015 | 0.336553079 | 0.629 | 1 | 567 | B2M |
| 0.066594967 | 0.336590749 | 0.659 | 1 | 199800 | C19orf76 |
| 0.066583304 | 0.336675516 | 0.633 | 1 | 283284 | IGSF22 |
| 0.066465388 | 0.337533369 | 0.669 | 1 | 415117 | STX19 |
| 0.066461501 | 0.337561673 | 0.61 | 1 | 7638 | ZNF221 |
| 0.066456317 | 0.337599415 | 0.646 | 1 | 353142 | LCE3A |
| 0.066432993 | 0.337769287 | 0.66 | 1 | 285367 | RPUSD3 |
| 0.066430402 | 0.337788165 | 0.615 | 1 | 55856 | ACOT13 |
| 0.066381162 | 0.338146975 | 0.669 | 1 | 53838 | C11orf24 |
| 0.066372091 | 0.338213098 | 0.674 | 1 | 83547 | RILP |
| 0.066335809 | 0.338477674 | 0.654 | 1 | 65217 | PCDH15 |
| 0.066334514 | 0.338487125 | 0.641 | 1 | 1141 | CHRNB2 |
| 0.066298232 | 0.338751837 | 0.637 | 1 | 1050 | CEBPA |
| 0.066215301 | 0.339357389 | 0.603 | 1 | 56143 | PCDHA5 |
| 0.066153104 | 0.339812006 | 0.658 | 1 | 79993 | ELOVL7 |
| 0.066142737 | 0.339887814 | 0.669 | 1 | 1740 | DLG2 |
| 0.066116822 | 0.340077379 | 0.634 | 1 | 151050 | C2orf67 |
| 0.066106455 | 0.340153224 | 0.658 | 1 | 85456 | TNKS1BP1 |
| 0.066097385 | 0.340219597 | 0.651 | 1 | 113230 | AC022098.1 |
| 0.06606499 | 0.340456712 | 0.66 | 1 | 115861 | NXNL1 |
| 0.066013159 | 0.340836314 | 0.65 | 1 | 79962 | DNAJC22 |
| 0.065971694 | 0.341140189 | 0.618 | 1 | 284119 | PTRF |
| 0.065931524 | 0.341434734 | 0.62 | 1 | 3914 | LAMB3 |
| 0.065913383 | 0.341567806 | 0.643 | 1 | 389289 | ANXA2R |
| 0.065855073 | 0.341995765 | 0.67 | 1 | 80350 | LPAL2 |
| 0.065843411 | 0.342081397 | 0.682 | 1 | 94107 | TMEM203 |
| 0.065796762 | 0.342424064 | 0.663 | 1 | 84447 | SYVN1 |

| | | | |
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| 0.030862618 | 4.97763E-27 | 59307 | SIGIRR |
| 0.030852531 | 5.17153E-27 | 79748 | LMAN1L |
| 0.030847618 | 5.26868E-27 | 389337 | AC022100.1 |
| 0.030847291 | 5.2752E-27 | 84079 | ANKRD27 |
| 0.030845712 | 5.30686E-27 | 339059 | AC138028.2 |
| 0.030842818 | 5.36533E-27 | 78986 | DUSP26 |
| 0.030824456 | 5.75158E-27 | 51560 | RAB6B |
| 0.030821878 | 5.80796E-27 | 5540 | PPYR1 |
| 0.030816187 | 5.9344E-27 | 5027 | P2RX7 |
| 0.030813975 | 5.98427E-27 | 170394 | PWWP2B |
| 0.030797756 | 6.36288E-27 | 170506 | DHX36 |
| 0.030790202 | 6.54722E-27 | 115584 | SLC5A11 |
| 0.030778989 | 6.8307E-27 | 440050 | KRTAP5-7 |
| 0.030767743 | 7.1272E-27 | 64427 | TTC31 |
| 0.030758845 | 7.37081E-27 | 55338 | FLJ11292 |
| 0.030743752 | 7.80306E-27 | 4799 | NFX1 |
| 0.030714475 | 1.19421E-26 | 153579 | BTNL9 |
| 0.030712583 | 8.77686E-27 | 58986 | TMEM8A |
| 0.03071124 | 8.82144E-27 | 8480 | RAE1 |
| 0.030705767 | 9.00535E-27 | 26610 | ELP4 |
| 0.030678079 | 9.99582E-27 | 6261 | RYR1 |
| 0.030677986 | 9.99932E-27 | 9401 | RECQL4 |
| 0.030639448 | 1.15605E-26 | 2847 | MCHR1 |
| 0.030594127 | 1.41288E-26 | 83700 | JAM3 |
| 0.030586659 | 1.40981E-26 | 391196 | OR2M7 |
| 0.030581059 | 1.43977E-26 | 1460 | CSNK2B |
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| 0.030560681 | 1.55424E-26 | 192111 | PGAM5 |
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| 0.030550008 | 1.61774E-26 | 712 | C1QA |
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| 0.030526396 | 1.76752E-26 | 100132147 | LOC100132147 |
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| 0.030457567 | 2.28714E-26 | 26022 | TMEM98 |
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| 0.030314886 | 3.89519E-26 | 84166 | NLRC5 |
| 0.030311131 | 3.95003E-26 | 7205 | TRIP6 |
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| 0.030206372 | 5.83009E-26 | 653583 | PHLDB3 |
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| 0.030147424 | 7.25372E-26 | 199974 | CYP4Z1 |
| 0.03011392 | 8.21126E-26 | 283420 | CLEC9A |
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| 0.030028096 | 1.1274E-25 | 1504 | CTRB1 |
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| 0.030011457 | 1.19874E-25 | 387820 | LOC387820 |
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| 0.029999023 | 1.25495E-25 | 328 | APEX1 |
| 0.029993381 | 1.28131E-25 | 4087 | SMAD2 |
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| 0.029986789 | 1.31281E-25 | 152816 | C4orf26 |
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| 0.065638677 | 0.343586945 | 0.675 | 1 | 161753 | ODF3L1 |
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| 0.065590733 | 0.343940117 | 0.645 | 1 | 8535 | CBX4 |
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| 0.065296589 | 0.346111919 | 0.621 | 1 | 51606 | ATP6V1H |
| 0.065268082 | 0.346322863 | 0.645 | 1 | 152206 | CCDC13 |
| 0.065152757 | 0.347177058 | 0.677 | 1 | 64755 | C16orf58 |
| 0.065113883 | 0.347465289 | 0.646 | 1 | 5050 | PAFAH1B3 |
| 0.065086672 | 0.34766714 | 0.64 | 1 | 8470 | SORBS2 |
| 0.065064644 | 0.347830598 | 0.656 | 1 | 80267 | EDEM3 |
| 0.065033545 | 0.348061446 | 0.637 | 1 | 9637 | FEZ2 |
| 0.065006333 | 0.348263516 | 0.66 | 1 | 374286 | CDRT1 |
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| 0.064950614 | 0.348677511 | 0.659 | 1 | 23536 | ADAT1 |
| 0.064938952 | 0.348764201 | 0.643 | 1 | 731157 | LOC731157 |
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| 0.06485343 | 0.349400339 | 0.644 | 1 | 100133941 | CD24 |
| 0.064760134 | 0.350095144 | 0.662 | 1 | 5566 | PRKACA |
| 0.064732922 | 0.350297959 | 0.65 | 1 | 51218 | GLRX5 |
| 0.064699232 | 0.350549167 | 0.628 | 1 | 375612 | LHFPL3 |
| 0.06468757 | 0.35063615 | 0.621 | 1 | 375190 | C2orf84 |
| 0.064659063 | 0.350848832 | 0.638 | 1 | 4301 | MLLT4 |
| 0.0646474 | 0.350935862 | 0.671 | 1 | 930 | CD19 |
| 0.064635738 | 0.351022905 | 0.646 | 1 | 25844 | YIPF3 |
| 0.064581315 | 0.351429287 | 0.654 | 1 | 5602 | MAPK10 |
| 0.064576132 | 0.351468006 | 0.648 | 1 | 8633 | UNC5C |
| 0.064519118 | 0.351894087 | 0.641 | 1 | 60314 | C12orf10 |
| 0.06449061 | 0.35210725 | 0.637 | 1 | 2152 | F3 |
| 0.064438779 | 0.352495026 | 0.671 | 1 | 121273 | C12orf54 |
| 0.064433596 | 0.352533819 | 0.632 | 1 | 59307 | SIGIRR |
| 0.06435844 | 0.353096611 | 0.644 | 1 | 54209 | TREM2 |
| 0.064323454 | 0.353358793 | 0.665 | 1 | 80863 | PRRT1 |
| 0.064311792 | 0.353446214 | 0.667 | 1 | 112817 | NPL2 |
| 0.064266439 | 0.353786315 | 0.672 | 1 | 120526 | DNAJC24 |
| 0.064266439 | 0.353786315 | 0.659 | 1 | 153328 | AC011427.1 |
| 0.064212016 | 0.354194707 | 0.672 | 1 | 10645 | CAMKK2 |
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| 0.064195171 | 0.354321174 | 0.662 | 1 | 126259 | TMIGD2 |
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| 0.064170551 | 0.354506062 | 0.63 | 1 | 25906 | C11orf51 |
| 0.064099283 | 0.355041604 | 0.618 | 1 | 84871 | AGBL4 |
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| 0.064016353 | 0.35566542 | 0.652 | 1 | 285315 | C3orf33 |
| 0.063989141 | 0.355870259 | 0.653 | 1 | 348487 | FAM131C |
| 0.063942493 | 0.356221584 | 0.672 | 1 | 116534 | MRGPRE |
| 0.063936014 | 0.356270396 | 0.644 | 1 | 1535 | CYBA |
| 0.063930831 | 0.356309449 | 0.642 | 1 | 8844 | KSR1 |
| 0.063930831 | 0.356309449 | 0.641 | 1 | 118432 | RPL29P2 |
| 0.06392176 | 0.356377798 | 0.664 | 1 | 25976 | TIPARP |
| 0.063920465 | 0.356387563 | 0.646 | 1 | 196394 | AMN1 |
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| 0.063916577 | 0.356416858 | 0.63 | 1 | 80233 | C17orf70 |
| 0.063902324 | 0.356524288 | 0.637 | 1 | 728294 | D2HGDH |
| 0.063882887 | 0.356670816 | 0.665 | 1 | 55367 | LRDD |
| 0.063867337 | 0.356788065 | 0.649 | 1 | 2109 | ETFB |
| 0.063828464 | 0.357081294 | 0.638 | 1 | 9019 | MPZL1 |
| 0.063812914 | 0.357198627 | 0.647 | 1 | 64963 | MRPS11 |
| 0.063807731 | 0.357237744 | 0.666 | 1 | 24140 | FTSJ1 |
| 0.063786999 | 0.357394237 | 0.646 | 1 | 9329 | GTF3C4 |
| 0.063783111 | 0.357423584 | 0.652 | 1 | 10445 | MCRS1 |
| 0.063679449 | 0.358206735 | 0.643 | 1 | 50613 | UBQLN3 |
| 0.063669082 | 0.358285109 | 0.656 | 1 | 10477 | UBE2E3 |
| 0.063652237 | 0.35841249 | 0.663 | 1 | 440145 | C13orf37 |
| 0.063626321 | 0.358608515 | 0.64 | 1 | 754 | PTTG1IP |
| 0.063586152 | 0.358912487 | 0.645 | 1 | 51524 | TMEM138 |
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| 0.063510996 | 0.359481642 | 0.671 | 1 | 10473 | HMGN4 |
| 0.063439728 | 0.360021878 | 0.667 | 1 | 124602 | KIF19 |
| 0.063418996 | 0.360179133 | 0.624 | 1 | 64241 | ABCG8 |
| 0.063407333 | 0.360267608 | 0.642 | 1 | 339366 | ADAMTSL5 |
| 0.063407333 | 0.360267608 | 0.609 | 1 | 100287932 | TIMM23 |

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| 0.029913182 | 1.72109E-25 | 80235 | PIGZ |
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| 0.029894233 | 1.84516E-25 | 3619 | INCENP |
| 0.029887119 | 1.894E-25 | 2987 | GUK1 |
| 0.029883648 | 1.91828E-25 | 375757 | C9orf119 |
| 0.029880432 | 1.94106E-25 | 83891 | SNX25 |
| 0.029872876 | 1.99564E-25 | 51691 | NAA38 |
| 0.029868651 | 2.02682E-25 | 1241 | LTB4R |
| 0.029867788 | 2.03325E-25 | 552889 | ATXN7L3B |
| 0.029863777 | 2.06339E-25 | 494470 | RNF165 |
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| 0.029757578 | 3.04427E-25 | 3297 | HSF1 |
| 0.029753003 | 3.0956E-25 | 6991 | TCTE3 |
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| 0.029723174 | 3.45202E-25 | 27241 | BBS9 |
| 0.029710185 | 3.61965E-25 | 5396 | PRRX1 |
| 0.029704546 | 3.69492E-25 | 56944 | OLFML3 |
| 0.029692992 | 3.854E-25 | 8831 | SYNGAP1 |
| 0.029680027 | 4.04062E-25 | 51366 | UBR5 |
| 0.029670592 | 4.18202E-25 | 9507 | ADAMTS4 |
| 0.029639939 | 4.67614E-25 | 23513 | SCRIB |
| 0.029627708 | 4.88907E-25 | 1145 | CHRNE |
| 0.029607264 | 5.26664E-25 | 9798 | IST1 |
| 0.029601772 | 5.3729E-25 | 23766 | GABARAPL3 |
| 0.029600847 | 5.391E-25 | 2137 | EXTL3 |
| 0.029589096 | 5.62634E-25 | 6881 | TAF10 |
| 0.02958781 | 5.6527E-25 | 120534 | C11orf46 |
| 0.02957865 | 5.84406E-25 | 4357 | MPST |
| 0.029545673 | 6.58766E-25 | 128488 | WFDC12 |
| 0.029534275 | 6.86589E-25 | 51115 | FAM82B |
| 0.029527106 | 7.04682E-25 | 10618 | TGOLN2 |
| 0.02950763 | 7.56255E-25 | 6432 | SFRS7 |
| 0.02950533 | 7.62589E-25 | 127003 | C1orf194 |
| 0.029500287 | 7.76656E-25 | 157773 | C8orf48 |
| 0.029498706 | 7.81119E-25 | 113157 | RPLP0P2 |
| 0.029463046 | 8.88821E-25 | 27319 | BHLHE22 |
| 0.029452675 | 9.22821E-25 | 84316 | LSMD1 |
| 0.02945233 | 9.23973E-25 | 100132594 | PGAM1P5 |
| 0.029450187 | 9.31164E-25 | 9100 | USP10 |
| 0.029445527 | 9.46999E-25 | 84504 | NKX6-2 |
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| 0.029422217 | 1.03029E-24 | 347454 | ANKRD58 |
| 0.029421616 | 1.03254E-24 | 7855 | FZD5 |
| 0.029419925 | 1.03886E-24 | 2687 | GGT5 |
| 0.029417409 | 1.04836E-24 | 643236 | TMEM72 |
| 0.029406393 | 1.09094E-24 | 9859 | CEP170 |
| 0.029400906 | 1.11278E-24 | 8870 | IER3 |
| 0.029399427 | 1.11874E-24 | 130162 | C2orf63 |
| 0.029395712 | 1.13385E-24 | 5349 | FXYD3 |
| 0.029363385 | 1.2742E-24 | 4490 | MT1B |
| 0.029363001 | 1.27597E-24 | 199920 | C1orf168 |
| 0.029350281 | 1.33588E-24 | 22907 | DHX30 |
| 0.029310069 | 1.54421E-24 | 79933 | SYNPO2L |
| 0.029302719 | 1.58563E-24 | 57555 | NLGN2 |
| 0.02928929 | 1.66416E-24 | 182 | JAG1 |
| 0.029288757 | 1.66736E-24 | 131177 | FAM3D |
| 0.029277207 | 1.73812E-24 | 205717 | KIAA2018 |
| 0.029269598 | 1.78635E-24 | 57471 | ERMN |
| 0.029241486 | 1.97632E-24 | 79054 | TRPM8 |
| 0.029234362 | 2.02756E-24 | 1585 | CYP11B2 |
| 0.029233048 | 2.03715E-24 | 5148 | PDE6G |
| 0.029218682 | 2.14501E-24 | 4815 | NINJ2 |
| 0.029210931 | 2.20554E-24 | 80381 | CD276 |
| 0.02919689 | 2.31953E-24 | 6329 | SCN4A |
| 0.029180393 | 2.46092E-24 | 27332 | ZNF638 |
| 0.02917845 | 2.47812E-24 | 79842 | ZBTB3 |
| 0.029169879 | 2.55545E-24 | 129880 | BBS5 |
| 0.029169546 | 2.55851E-24 | 26534 | OR10G2 |
| 0.02915893 | 2.65773E-24 | 728833 | FAM72D |
| 0.029138078 | 2.86385E-24 | 27295 | PDLIM3 |
| 0.029055118 | 3.85284E-24 | 126328 | NDUFA11 |
| 0.029049591 | 3.92963E-24 | 79812 | MMRN2 |
| 0.029048504 | 3.94491E-24 | 23093 | TTLL5 |
| 0.029039617 | 4.07204E-24 | 11194 | ABCB8 |
| 0.029036585 | 4.11635E-24 | 83650 | AMAC1L2 |
| 0.029011833 | 4.49631E-24 | 51019 | CCDC53 |

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| 0.063378826 | 0.360483936 | 0.701 | 1 | 55244 | SLC47A1 |
| 0.063373643 | 0.360523277 | 0.668 | 1 | 23076 | RRP1B |
| 0.063371051 | 0.360542949 | 0.644 | 1 | 25764 | HYPK |
| 0.063365868 | 0.360582294 | 0.678 | 1 | 1854 | DUT |
| 0.063360685 | 0.360621642 | 0.657 | 1 | 654434 | LINC00338 |
| 0.063316628 | 0.360956207 | 0.64 | 1 | 30009 | TBX21 |
| 0.063299783 | 0.36108418 | 0.658 | 1 | 7319 | UBE2A |
| 0.063292009 | 0.361143254 | 0.678 | 1 | 2978 | GUCA1A |
| 0.063257022 | 0.361409162 | 0.651 | 1 | 341567 | H1FNT |
| 0.063244064 | 0.361507677 | 0.665 | 1 | 79844 | ZDHHC11 |
| 0.063227219 | 0.361635772 | 0.65 | 1 | 128229 | C1orf182 |
| 0.063161134 | 0.362138572 | 0.631 | 1 | 4131 | MAP1B |
| 0.063158543 | 0.362158298 | 0.64 | 1 | 64081 | PBLD |
| 0.063154655 | 0.362187889 | 0.661 | 1 | 26054 | SENP6 |
| 0.063120965 | 0.362444408 | 0.648 | 1 | 7461 | CLIP2 |
| 0.063087274 | 0.362701039 | 0.636 | 1 | 389170 | AC117392.3 |
| 0.063069133 | 0.362839272 | 0.653 | 1 | 4094 | MAF |
| 0.063045809 | 0.363017049 | 0.653 | 1 | 51647 | FAM96B |
| 0.063021189 | 0.363204761 | 0.664 | 1 | 117283 | IP6K3 |
| 0.063004344 | 0.36333323 | 0.674 | 1 | 8612 | PPAP2C |
| 0.06298102 | 0.363511157 | 0.643 | 1 | 64805 | P2RY12 |
| 0.062944738 | 0.36378804 | 0.651 | 1 | 2158 | F9 |
| 0.062938259 | 0.363837497 | 0.685 | 1 | 4613 | MYCN |
| 0.062934372 | 0.363867174 | 0.653 | 1 | 9758 | FRMPD4 |
| 0.062900681 | 0.364124432 | 0.661 | 1 | 63935 | PCIF1 |
| 0.062868287 | 0.364371902 | 0.66 | 1 | 139599 | MAGEE2 |
| 0.062821638 | 0.364728442 | 0.678 | 1 | 89876 | C3orf15 |
| 0.062771103 | 0.365114939 | 0.654 | 1 | 51078 | THAP4 |
| 0.062771103 | 0.365114939 | 0.692 | 1 | 339221 | ENPP7 |
| 0.062746483 | 0.365303324 | 0.655 | 1 | 7979 | SHFM1 |
| 0.062737412 | 0.365372745 | 0.684 | 1 | 144455 | E2F7 |
| 0.062736116 | 0.365382663 | 0.666 | 1 | 100130274 | CCDC166 |
| 0.062732229 | 0.365412417 | 0.641 | 1 | 3925 | STMN1 |
| 0.062730933 | 0.365422336 | 0.679 | 1 | 200232 | FAM209A |
| 0.062706313 | 0.36561082 | 0.637 | 1 | 64122 | FN3K |
| 0.062694651 | 0.365700123 | 0.628 | 1 | 90835 | C16orf93 |
| 0.062662257 | 0.365948257 | 0.65 | 1 | 594855 | CPLX3 |
| 0.062646707 | 0.366067399 | 0.668 | 1 | 83938 | C10orf11 |
| 0.062611721 | 0.366335556 | 0.616 | 1 | 10875 | FGL2 |
| 0.062543044 | 0.366862292 | 0.693 | 1 | 7138 | TNNT1 |
| 0.062530087 | 0.366961729 | 0.649 | 1 | 158866 | ZDHHC15 |
| 0.062496396 | 0.367220343 | 0.668 | 1 | 3373 | HYAL1 |
| 0.062483438 | 0.36731984 | 0.682 | 1 | 85465 | AC010896.1 |
| 0.062480847 | 0.367339742 | 0.674 | 1 | 5471 | PPAT |
| 0.062379775 | 0.368116417 | 0.682 | 1 | 326625 | MMAB |
| 0.062369409 | 0.368196134 | 0.692 | 1 | 80349 | WDR61 |
| 0.062333127 | 0.368475226 | 0.651 | 1 | 100130890 | LOC100130890 |
| 0.062286479 | 0.368834251 | 0.68 | 1 | 2677 | GGCX |
| 0.062270929 | 0.368953974 | 0.643 | 1 | 161176 | C14orf49 |
| 0.062225577 | 0.369303303 | 0.649 | 1 | 471 | ATIC |
| 0.062222985 | 0.369323271 | 0.681 | 1 | 49856 | WDR8 |
| 0.062210027 | 0.36942312 | 0.621 | 1 | 143458 | LDLRAD3 |
| 0.062185408 | 0.36961288 | 0.642 | 1 | 3750 | KCND1 |
| 0.062150421 | 0.369882642 | 0.634 | 1 | 3609 | ILF3 |
| 0.06207397 | 0.370472545 | 0.663 | 1 | 84950 | PRPF38A |
| 0.062042871 | 0.370712672 | 0.619 | 1 | 83544 | DNAL1 |
| 0.061978082 | 0.371213245 | 0.664 | 1 | 3683 | ITGAL |
| 0.061904222 | 0.371784406 | 0.663 | 1 | 5664 | PSEN2 |
| 0.061896447 | 0.37184456 | 0.687 | 1 | 389384 | C6orf222 |
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| 0.06187701 | 0.371994971 | 0.667 | 1 | 124583 | CANT1 |
| 0.061808334 | 0.372526723 | 0.673 | 1 | 28231 | SLCO4A1 |
| 0.061795376 | 0.372627106 | 0.693 | 1 | 4312 | MMP1 |
| 0.061772052 | 0.372807837 | 0.676 | 1 | 10114 | HIPK3 |
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| 0.061746136 | 0.373008713 | 0.649 | 1 | 10712 | C1orf2 |
| 0.061742249 | 0.37303885 | 0.64 | 1 | 389072 | PLEKHM3 |
| 0.061707263 | 0.373310152 | 0.667 | 1 | 445815 | PALM2-AKAP2 |
| 0.061699488 | 0.373370458 | 0.675 | 1 | 10920 | COPS8 |
| 0.061534923 | 0.374648337 | 0.683 | 1 | 11046 | SLC35D2 |
| 0.061474021 | 0.375121933 | 0.627 | 1 | 23768 | FLRT2 |
| 0.061467542 | 0.375172338 | 0.672 | 1 | 4191 | MDH2 |
| 0.061401457 | 0.375686699 | 0.663 | 1 | 4615 | MYD88 |
| 0.061384612 | 0.37581788 | 0.646 | 1 | 6770 | STAR |
| 0.061358696 | 0.376019752 | 0.638 | 1 | 3111 | HLA-DOA |
| 0.061327597 | 0.376262086 | 0.634 | 1 | 4779 | NFE2L1 |
| 0.061305569 | 0.376433797 | 0.644 | 1 | 4753 | NELL2 |
| 0.061253738 | 0.376838013 | 0.699 | 1 | 157769 | FAM91A1 |
| 0.061238188 | 0.37695933 | 0.703 | 1 | 51378 | ANGPT4 |
| 0.061222639 | 0.377080671 | 0.618 | 1 | 221937 | FOXK1 |
| 0.06120061 | 0.377252611 | 0.649 | 1 | 546 | ATRX |
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| 0.029000483 | 4.68197E-24 | 94015 | TTYH2 |
| 0.028997436 | 4.73309E-24 | 160335 | TMTC2 |
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| 0.028977608 | 5.07953E-24 | 391475 | DYTN |
| 0.028977543 | 5.0807E-24 | 201283 | AMZ2P1 |
| 0.028966764 | 5.2795E-24 | 56938 | ARNTL2 |
| 0.028959709 | 5.41377E-24 | 10584 | COLEC10 |
| 0.028954398 | 5.51707E-24 | 79077 | DCTPP1 |
| 0.028944451 | 5.71582E-24 | 158055 | C9orf163 |
| 0.028935994 | 5.89037E-24 | 83938 | C10orf11 |
| 0.028914418 | 6.35995E-24 | 79171 | RBM42 |
| 0.0288883 | 6.97825E-24 | 10026 | PIGK |
| 0.028883067 | 7.1091E-24 | 57325 | CSRP2BP |
| 0.028865023 | 7.57924E-24 | 643965 | TMEM88B |
| 0.028840132 | 8.27868E-24 | 7225 | TRPC6 |
| 0.028836413 | 8.38852E-24 | 6940 | ZNF354A |
| 0.02879811 | 9.60743E-24 | 3676 | ITGA4 |
| 0.02878899 | 9.9226E-24 | 4332 | MNDA |
| 0.028788165 | 9.95159E-24 | 7652 | ZNF99 |
| 0.028757341 | 1.10978E-23 | 22933 | SIRT2 |
| 0.028743835 | 1.16404E-23 | 11127 | KIF3A |
| 0.028680861 | 1.45375E-23 | 203238 | C9orf93 |
| 0.028674922 | 1.48451E-23 | 165257 | C1QL2 |
| 0.028674814 | 1.48508E-23 | 5858 | PZP |
| 0.028674206 | 1.48826E-23 | 9026 | HIP1R |
| 0.028661914 | 1.55415E-23 | 100127206 | KIAA1024L |
| 0.028661205 | 1.55803E-23 | 54665 | RSBN1 |
| 0.02866025 | 1.56328E-23 | 10349 | ABCA10 |
| 0.028659598 | 1.56688E-23 | 27301 | APEX2 |
| 0.028640152 | 1.67795E-23 | 84269 | CHCHD5 |
| 0.028631873 | 1.72756E-23 | 3155 | HMGCL |
| 0.028586274 | 2.02806E-23 | 2186 | BPTF |
| 0.028581964 | 2.05901E-23 | 85289 | KRTAP4-5 |
| 0.028568056 | 2.1621E-23 | 161176 | C14orf49 |
| 0.02856792 | 2.16314E-23 | 55505 | NOP10 |
| 0.02856773 | 2.16458E-23 | 345895 | RSHL1 |
| 0.028567665 | 2.16508E-23 | 9987 | HNRPDL |
| 0.028553856 | 3.00968E-23 | 7905 | REEP5 |
| 0.028546964 | 2.32828E-23 | 5593 | PRKG2 |
| 0.028543605 | 2.35588E-23 | 815 | CAMK2A |
| 0.028524608 | 2.51822E-23 | 5241 | PGR |
| 0.028522717 | 2.53498E-23 | 10287 | RGS19 |
| 0.028521637 | 2.54459E-23 | 137797 | LYPD2 |
| 0.028515648 | 2.59859E-23 | 81871 | KRTAP4-6 |
| 0.028490518 | 2.83779E-23 | 51263 | MRPL30 |
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| 0.02847479 | 2.99846E-23 | 5805 | PTS |
| 0.028474149 | 3.0052E-23 | 283165 | PRR10 |
| 0.028470871 | 3.03988E-23 | 25873 | RPL36 |
| 0.02846809 | 4.05835E-23 | 50614 | GALNT9 |
| 0.028460257 | 3.15492E-23 | 2195 | FAT1 |
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| 0.028440515 | 3.38046E-23 | 51806 | CALML5 |
| 0.028427084 | 3.54297E-23 | 149461 | CLDN19 |
| 0.028418039 | 3.65674E-23 | 91010 | FMNL3 |
| 0.028416908 | 3.67121E-23 | 286183 | NKAIN3 |
| 0.028415615 | 3.68783E-23 | 7298 | TYMS |
| 0.028387365 | 4.07016E-23 | 10475 | TRIM38 |
| 0.028384653 | 4.10888E-23 | 90411 | MCFD2 |
| 0.028379113 | 4.18908E-23 | 9554 | SEC22B |
| 0.028367372 | 4.36421E-23 | 57156 | TMEM63C |
| 0.028358955 | 4.4942E-23 | 116988 | AGAP3 |
| 0.028306352 | 5.39802E-23 | 80148 | PQLC1 |
| 0.028296404 | 5.58815E-23 | 3554 | IL1R1 |
| 0.028270362 | 6.11786E-23 | 53919 | SLCO1C1 |
| 0.028269128 | 6.14415E-23 | 54838 | C10orf26 |
| 0.028251893 | 6.52334E-23 | 441461 | RP11-60I3.5 |
| 0.028243248 | 6.72218E-23 | 81855 | SFXN3 |
| 0.028208218 | 7.59119E-23 | 7270 | TTF1 |
| 0.028205853 | 7.65373E-23 | 56904 | SH3GLB2 |
| 0.028189341 | 8.10467E-23 | 533 | ATP6V0B |
| 0.028177382 | 8.44764E-23 | 58495 | OVOL2 |
| 0.028156037 | 9.0958E-23 | 9702 | CEP57 |
| 0.028153561 | 9.17411E-23 | 55357 | TBC1D2 |
| 0.028152107 | 9.2204E-23 | 777 | CACNA1E |
| 0.028146327 | 9.40674E-23 | 130540 | ALS2CR12 |
| 0.028133109 | 9.84697E-23 | 129049 | SGSM1 |
| 0.02812538 | 1.01137E-22 | 114796 | AC093734.11 |
| 0.02811072 | 1.06396E-22 | 57680 | CHD8 |
| 0.028103604 | 1.09045E-22 | 4437 | MSH3 |
| 0.028102449 | 1.09481E-22 | 376267 | RAB15 |
| 0.028092813 | 1.13188E-22 | 142913 | CFL1P1 |

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| 0.061198019 | 0.377272842 | 0.679 | 1 | 27306 | PGDS |
| 0.06119154 | 0.377323424 | 0.665 | 1 | 222611 | GPR111 |
| 0.061131934 | 0.377788968 | 0.68 | 1 | 57152 | SLURP1 |
| 0.061061961 | 0.378335926 | 0.679 | 1 | 11171 | STRAP |
| 0.061008834 | 0.378751533 | 0.694 | 1 | 57019 | CIAPIN1 |
| 0.061003651 | 0.378792095 | 0.671 | 1 | 5890 | RAD51L1 |
| 0.060997172 | 0.378842801 | 0.668 | 1 | 84667 | HES7 |
| 0.060975144 | 0.379015233 | 0.68 | 1 | 84698 | CAPS2 |
| 0.060950524 | 0.379208008 | 0.669 | 1 | 162968 | ZNF497 |
| 0.060931087 | 0.379360241 | 0.663 | 1 | 3988 | LIPA |
| 0.060922016 | 0.379431296 | 0.673 | 1 | 254359 | ZDHHC24 |
| 0.060903875 | 0.37957343 | 0.675 | 1 | 10926 | DBF4 |
| 0.060681 | 0.381322307 | 0.676 | 1 | 165140 | OXER1 |
| 0.060646014 | 0.381597286 | 0.687 | 1 | 23732 | FRRS1L |
| 0.060613619 | 0.381852004 | 0.635 | 1 | 400043 | RP11-834C11.4 |
| 0.06059807 | 0.381974306 | 0.66 | 1 | 8997 | KALRN |
| 0.060579929 | 0.382117021 | 0.678 | 1 | 55711 | FAR2 |
| 0.060574746 | 0.382157803 | 0.644 | 1 | 83440 | ADPGK |
| 0.060541055 | 0.382422949 | 0.64 | 1 | 79827 | AP000926.2 |
| 0.060534576 | 0.382473952 | 0.667 | 1 | 10408 | MYCNOS |
| 0.060517731 | 0.382606578 | 0.68 | 1 | 84719 | LINC00260 |
| 0.060482745 | 0.382882121 | 0.666 | 1 | 256355 | RPS2P32 |
| 0.060443871 | 0.383188422 | 0.687 | 1 | 51806 | CALML5 |
| 0.060437392 | 0.383239487 | 0.688 | 1 | 161829 | EXD1 |
| 0.060432209 | 0.383280342 | 0.67 | 1 | 64395 | GMCL1 |
| 0.060420547 | 0.383372275 | 0.691 | 1 | 84883 | AIFM2 |
| 0.060415364 | 0.383413138 | 0.665 | 1 | 4143 | MAT1A |
| 0.060359645 | 0.383852587 | 0.683 | 1 | 64926 | RASAL3 |
| 0.060325955 | 0.384118449 | 0.644 | 1 | 4810 | NHS |
| 0.060316884 | 0.384190046 | 0.675 | 1 | 10905 | MAN1A2 |
| 0.060250799 | 0.384711929 | 0.706 | 1 | 643905 | PRR21 |
| 0.06023525 | 0.384834787 | 0.675 | 1 | 10598 | AHSA1 |
| 0.060230067 | 0.384875746 | 0.658 | 1 | 9342 | SNAP29 |
| 0.060227475 | 0.384896226 | 0.698 | 1 | 5902 | RANBP1 |
| 0.060202855 | 0.385090819 | 0.662 | 1 | 64600 | PLA2G2F |
| 0.060191193 | 0.385183016 | 0.691 | 1 | 439 | ASNA1 |
| 0.060165277 | 0.385387946 | 0.661 | 1 | 1859 | DYRK1A |
| 0.060132883 | 0.385644202 | 0.676 | 1 | 7940 | LST1 |
| 0.060128995 | 0.385674959 | 0.674 | 1 | 92935 | MARS2 |
| 0.060114742 | 0.38578775 | 0.663 | 1 | 221078 | NSUN6 |
| 0.060100488 | 0.385900561 | 0.678 | 1 | 116840 | CNTROB |
| 0.060073277 | 0.386115983 | 0.668 | 1 | 57002 | C7orf36 |
| 0.059964431 | 0.386978399 | 0.671 | 1 | 8487 | SIP1 |
| 0.059939811 | 0.387173631 | 0.666 | 1 | 84275 | SLC25A33 |
| 0.059910008 | 0.387410045 | 0.658 | 1 | 64766 | S100PBP |
| 0.059893162 | 0.387543709 | 0.673 | 1 | 11261 | AC012652.1 |
| 0.059889275 | 0.387574559 | 0.692 | 1 | 54518 | APBB1IP |
| 0.05981412 | 0.388171274 | 0.674 | 1 | 2697 | GJA1 |
| 0.059758401 | 0.388614026 | 0.665 | 1 | 240 | ALOX5 |
| 0.059746739 | 0.388706734 | 0.65 | 1 | 3827 | KNG1 |
| 0.059705274 | 0.38903647 | 0.681 | 1 | 119764 | OR4X2 |
| 0.059701386 | 0.389067391 | 0.648 | 1 | 57453 | DSCAML1 |
| 0.059656034 | 0.389428251 | 0.64 | 1 | 399694 | SHC4 |
| 0.059649555 | 0.389479819 | 0.691 | 1 | 22895 | RPH3A |
| 0.059627526 | 0.389655181 | 0.674 | 1 | 53829 | P2RY13 |
| 0.059602906 | 0.38985123 | 0.668 | 1 | 3728 | JUP |
| 0.059596428 | 0.389902832 | 0.705 | 1 | 79573 | TTC13 |
| 0.059584765 | 0.389995725 | 0.724 | 1 | 317671 | RFESD |
| 0.059579582 | 0.390037016 | 0.665 | 1 | 3598 | IL13RA2 |
| 0.059552371 | 0.390253833 | 0.702 | 1 | 23026 | MYO16 |
| 0.059527751 | 0.390450065 | 0.674 | 1 | 80975 | TMPRSS5 |
| 0.059501835 | 0.390656688 | 0.69 | 1 | 9149 | DYRK1B |
| 0.059500539 | 0.390667021 | 0.673 | 1 | 91319 | DERL3 |
| 0.059500539 | 0.390667021 | 0.68 | 1 | 146880 | AC132812.1 |
| 0.059497948 | 0.390687687 | 0.683 | 1 | 134 | ADORA1 |
| 0.059488877 | 0.390760025 | 0.662 | 1 | 100130935 | LOC100130935 |
| 0.059487582 | 0.390770359 | 0.671 | 1 | 347730 | LRRTM1 |
| 0.059468145 | 0.390925397 | 0.667 | 1 | 599 | BCL2L2 |
| 0.059430567 | 0.391225243 | 0.702 | 1 | 54466 | SPIN2A |
| 0.059407243 | 0.391411424 | 0.704 | 1 | 291 | SLC25A4 |
| 0.059389102 | 0.391556269 | 0.687 | 1 | 25975 | EGFL6 |
| 0.059383919 | 0.391597659 | 0.702 | 1 | 2752 | GLUL |
| 0.059291918 | 0.392332772 | 0.663 | 1 | 9191 | DEDD |
| 0.059277664 | 0.392446738 | 0.683 | 1 | 26184 | OR1F2P |
| 0.059273777 | 0.392477822 | 0.69 | 1 | 51155 | HN1 |
| 0.059181776 | 0.393213931 | 0.707 | 1 | 21 | ABCA3 |
| 0.059154565 | 0.393431813 | 0.663 | 1 | 84618 | NT5C1A |
| 0.05913124 | 0.393618627 | 0.697 | 1 | 63947 | DMRTC1B |
| 0.059084592 | 0.393992414 | 0.698 | 1 | 1182 | CLCN3 |
| 0.059066451 | 0.394137833 | 0.671 | 1 | 692094 | MSMP |
| 0.059028873 | 0.394439162 | 0.698 | 1 | 645181 | LOC645181 |
| 0.059008141 | 0.394605472 | 0.673 | 1 | 11149 | BVES |

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| 0.028088411 | 1.14922E-22 | 116444 | GRIN3B |
| 0.02808107 | 1.17873E-22 | 222611 | GPR111 |
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| 0.028066868 | 1.23796E-22 | 2892 | GRIA3 |
| 0.028061167 | 1.26256E-22 | 80232 | WDR26 |
| 0.028060055 | 1.26741E-22 | 29890 | RBM15B |
| 0.028045892 | 1.33088E-22 | 80351 | TNKS2 |
| 0.028030327 | 1.40425E-22 | 10807 | SDCCAG3 |
| 0.028013552 | 1.48782E-22 | 344328 | ST13P2 |
| 0.027983436 | 1.65038E-22 | 84545 | MRPL43 |
| 0.02797105 | 1.72223E-22 | 3856 | KRT8P9 |
| 0.027950205 | 1.85021E-22 | 5526 | PPP2R5B |
| 0.027919093 | 2.05892E-22 | 388387 | AC100793.3 |
| 0.027908404 | 2.13587E-22 | 345079 | ANKRD56 |
| 0.027903306 | 2.17357E-22 | 1609 | DGKQ |
| 0.027863015 | 2.49563E-22 | 14 | AAMP |
| 0.027858701 | 2.53279E-22 | 5584 | PRKCI |
| 0.027851691 | 2.59436E-22 | 5992 | RFX4 |
| 0.02785054 | 2.60461E-22 | 339488 | TFAP2E |
| 0.027849945 | 2.60992E-22 | 23385 | NCSTN |
| 0.027846577 | 2.6402E-22 | 91862 | MARVELD3 |
| 0.02784279 | 2.67466E-22 | 100506144 | RP11-244H3.1 |
| 0.027831843 | 2.77681E-22 | 10733 | PLK4 |
| 0.027810271 | 2.98953E-22 | 54788 | DNAJB12 |
| 0.027796492 | 3.13377E-22 | 23366 | KIAA0895 |
| 0.027783462 | 3.27649E-22 | 10713 | USP39 |
| 0.027774597 | 3.37724E-22 | 4595 | MUTYH |
| 0.027755345 | 3.60674E-22 | 6474 | SHOX2 |
| 0.027746162 | 3.72159E-22 | 84836 | ABHD14B |
| 0.027740046 | 3.80007E-22 | 51669 | TMEM66 |
| 0.027738307 | 3.82269E-22 | 259230 | SGMS1 |
| 0.027727484 | 5.02744E-22 | 25825 | BACE2 |
| 0.027719025 | 4.08252E-22 | 285501 | AC021850.1 |
| 0.027711476 | 4.18895E-22 | 2632 | GBE1 |
| 0.027706214 | 4.26475E-22 | 55119 | PRPF38B |
| 0.027687998 | 4.53779E-22 | 8260 | NAA10 |
| 0.027679956 | 4.66378E-22 | 84322 | C18orf12 |
| 0.027655709 | 5.06495E-22 | 6793 | STK10 |
| 0.027640975 | 5.32522E-22 | 116729 | DYSFIP1 |
| 0.0276258 | 5.6071E-22 | 30816 | ERVWE1 |
| 0.027610006 | 5.91617E-22 | 257169 | C9orf43 |
| 0.027606089 | 5.9954E-22 | 114960 | TSGA13 |
| 0.027602052 | 6.07814E-22 | 1421 | CRYGD |
| 0.027601695 | 6.08553E-22 | 375190 | C2orf84 |
| 0.027571826 | 6.7347E-22 | 55630 | AF205589.2 |
| 0.027571567 | 6.74061E-22 | 9040 | UBE2M |
| 0.027553975 | 7.1549E-22 | 6570 | SLC18A1 |
| 0.027543171 | 7.42172E-22 | 152519 | NIPAL1 |
| 0.027537818 | 7.55755E-22 | 23632 | CA14 |
| 0.027490704 | 8.86412E-22 | 9444 | QKI |
| 0.027449879 | 1.01755E-21 | 25929 | GEMIN5 |
| 0.027427762 | 1.26642E-21 | 2335 | FN1 |
| 0.027421821 | 1.11862E-21 | 256356 | GK5 |
| 0.027408646 | 1.16945E-21 | 6525 | SMTN |
| 0.027402345 | 1.19456E-21 | 57532 | NUFIP2 |
| 0.02738867 | 1.2509E-21 | 10776 | ARPP19 |
| 0.027377426 | 1.29919E-21 | 2547 | XRCC6 |
| 0.027368539 | 1.33867E-21 | 2253 | FGF8 |
| 0.027351266 | 1.41881E-21 | 353219 | KAAG1 |
| 0.0273495 | 1.42726E-21 | 23587 | C17orf81 |
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| 0.027338454 | 1.4813E-21 | 11137 | PWP1 |
| 0.027336498 | 1.49108E-21 | 51119 | SBDS |
| 0.027324791 | 1.55095E-21 | 399694 | SHC4 |
| 0.027305064 | 1.65725E-21 | 5042 | PABPC3 |
| 0.027300839 | 1.68094E-21 | 1757 | SARDH |
| 0.027262099 | 1.91437E-21 | 5523 | PPP2R3A |
| 0.027260117 | 1.98073E-21 | 79651 | RHBDF2 |
| 0.027255419 | 1.95775E-21 | 30 | ACAA1 |
| 0.027250895 | 1.98767E-21 | 2688 | GH1 |
| 0.027245441 | 2.02435E-21 | 643155 | C5orf43 |
| 0.02723938 | 2.0659E-21 | 1861 | TOR1A |
| 0.027238484 | 2.07211E-21 | 2983 | GUCY1B3 |
| 0.027224855 | 2.16893E-21 | 123970 | C16orf78 |
| 0.027222391 | 2.1869E-21 | 100128998 | C20orf181 |
| 0.027213082 | 2.25615E-21 | 1734 | DIO2 |
| 0.027207164 | 2.3013E-21 | 401472 | FLJ45248 |
| 0.027176497 | 2.54997E-21 | 11316 | COPE |
| 0.027146716 | 2.81684E-21 | 3044 | HBBP1 |
| 0.027116104 | 3.11994E-21 | 26003 | GORASP2 |
| 0.027089101 | 3.41395E-21 | 814 | CAMK4 |
| 0.02705967 | 3.76566E-21 | 56246 | MRAP |

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| 0.058973155 | 0.394886215 | 0.655 | 1 | 64849 | SLC13A3 |
| 0.058947239 | 0.39509425 | 0.677 | 1 | 29915 | HCFC2 |
| 0.058888928 | 0.395562571 | 0.658 | 1 | 10209 | EIF1 |
| 0.05888245 | 0.395614627 | 0.69 | 1 | 284992 | CCDC150 |
| 0.058815069 | 0.396156255 | 0.682 | 1 | 79768 | C15orf29 |
| 0.058747688 | 0.396698328 | 0.673 | 1 | 5826 | ABCD4 |
| 0.058739913 | 0.396760904 | 0.678 | 1 | 51501 | C11orf73 |
| 0.058730843 | 0.396833916 | 0.664 | 1 | 27258 | LSM3 |
| 0.05871011 | 0.397000832 | 0.655 | 1 | 10979 | PLEKHC1 |
| 0.058703631 | 0.397053001 | 0.678 | 1 | 121512 | FGD4 |
| 0.058653095 | 0.397460066 | 0.685 | 1 | 55503 | TRPV6 |
| 0.058649208 | 0.39749139 | 0.692 | 1 | 55023 | PHIP |
| 0.058641433 | 0.39755404 | 0.659 | 1 | 1678 | TIMM8A |
| 0.058598672 | 0.397898724 | 0.695 | 1 | 284021 | MILR1 |
| 0.058598672 | 0.397898724 | 0.683 | 1 | 375287 | RBM43 |
| 0.058588306 | 0.397982311 | 0.692 | 1 | 230 | ALDOC |
| 0.058533883 | 0.398421314 | 0.701 | 1 | 23788 | MTCH2 |
| 0.058462615 | 0.398996637 | 0.688 | 1 | 7305 | TYROBP |
| 0.058423741 | 0.399310659 | 0.679 | 1 | 22911 | WDR47 |
| 0.058353769 | 0.399876271 | 0.663 | 1 | 286187 | LRRC67 |
| 0.058329149 | 0.400075397 | 0.673 | 1 | 79576 | NKAP |
| 0.058326557 | 0.400096361 | 0.674 | 1 | 5160 | PDHA1 |
| 0.058287684 | 0.4004109 | 0.679 | 1 | 9623 | TCL1B |
| 0.058281205 | 0.400463338 | 0.687 | 1 | 25907 | TMEM158 |
| 0.058278613 | 0.400484314 | 0.687 | 1 | 91039 | DPP9 |
| 0.058253993 | 0.400683621 | 0.682 | 1 | 51076 | CUTC |
| 0.058242331 | 0.40077805 | 0.694 | 1 | 10992 | SF3B2 |
| 0.058241036 | 0.400788543 | 0.681 | 1 | 158747 | MOSPD2 |
| 0.05823974 | 0.400799036 | 0.687 | 1 | 84271 | POLDIP3 |
| 0.058196979 | 0.4011454 | 0.651 | 1 | 752 | FMNL1 |
| 0.058194387 | 0.401166398 | 0.695 | 1 | 7159 | TP53BP2 |
| 0.058173655 | 0.401334401 | 0.709 | 1 | 1448 | CSN3 |
| 0.058154218 | 0.401491943 | 0.695 | 1 | 51071 | DERA |
| 0.058138669 | 0.401618003 | 0.652 | 1 | 10048 | RANBP9 |
| 0.058121823 | 0.401754595 | 0.676 | 1 | 57661 | PHRF1 |
| 0.058111457 | 0.401838665 | 0.684 | 1 | 140612 | ZFP28 |
| 0.058062217 | 0.402238142 | 0.647 | 1 | 55810 | FOXJ2 |
| 0.05805833 | 0.402269689 | 0.68 | 1 | 127665 | ZNF648 |
| 0.058028527 | 0.402511604 | 0.7 | 1 | 6640 | SNTA1 |
| 0.058020752 | 0.402574727 | 0.69 | 1 | 22931 | RAB18 |
| 0.058014273 | 0.402627333 | 0.686 | 1 | 8573 | CASK |
| 0.057971512 | 0.402974639 | 0.66 | 1 | 1802 | DPH2 |
| 0.057958554 | 0.403079919 | 0.654 | 1 | 64776 | C11orf1 |
| 0.057937822 | 0.4032484 | 0.682 | 1 | 284402 | SCGBL |
| 0.057893765 | 0.403606562 | 0.668 | 1 | 9783 | RIMS3 |
| 0.057892469 | 0.403617099 | 0.665 | 1 | 79720 | VPS37B |
| 0.057858779 | 0.40389112 | 0.689 | 1 | 9616 | RNF7 |
| 0.057854891 | 0.403922745 | 0.704 | 1 | 23198 | PSME4 |
| 0.057845821 | 0.403996542 | 0.692 | 1 | 55997 | CFC1 |
| 0.057793989 | 0.404418394 | 0.656 | 1 | 5799 | PTPRN2 |
| 0.057661819 | 0.405495302 | 0.682 | 1 | 51510 | CHMP5 |
| 0.057661819 | 0.405495302 | 0.672 | 1 | 84466 | MEGF10 |
| 0.057654045 | 0.405558703 | 0.706 | 1 | 55187 | VPS13D |
| 0.057647566 | 0.405611541 | 0.669 | 1 | 51473 | DCDC2 |
| 0.05762165 | 0.405822935 | 0.712 | 1 | 10224 | ZNF443 |
| 0.057617763 | 0.40585465 | 0.698 | 1 | 23476 | BRD4 |
| 0.057600917 | 0.405992098 | 0.671 | 1 | 942 | CD86 |
| 0.057541311 | 0.406478673 | 0.718 | 1 | 389458 | LOC389458 |
| 0.057503733 | 0.406785604 | 0.687 | 1 | 51015 | ISOC1 |
| 0.057463564 | 0.407113856 | 0.682 | 1 | 1639 | DCTN1 |
| 0.057436353 | 0.407336309 | 0.681 | 1 | 94122 | SYTL5 |
| 0.057424691 | 0.407431668 | 0.668 | 1 | 51762 | RAB8B |
| 0.057419507 | 0.407474054 | 0.716 | 1 | 402644 | LOC402644 |
| 0.05740655 | 0.407580031 | 0.684 | 1 | 475 | ATOX1 |
| 0.057405254 | 0.407590629 | 0.685 | 1 | 132884 | EVC2 |
| 0.057392296 | 0.407696624 | 0.667 | 1 | 404037 | HAPLN4 |
| 0.057367676 | 0.407898059 | 0.691 | 1 | 56949 | XAB2 |
| 0.057350831 | 0.408035916 | 0.687 | 1 | 10859 | LILRB1 |
| 0.057348239 | 0.408057128 | 0.691 | 1 | 56851 | C15orf24 |
| 0.057343056 | 0.408099552 | 0.711 | 1 | 9778 | KIAA0232 |
| 0.057339169 | 0.408131372 | 0.687 | 1 | 55048 | VPS37C |
| 0.057210886 | 0.409182263 | 0.655 | 1 | 10577 | NPC2 |
| 0.057199224 | 0.409277878 | 0.698 | 1 | 23263 | MCF2L |
| 0.057196632 | 0.409299127 | 0.679 | 1 | 57507 | ZNF608 |
| 0.057174604 | 0.409479775 | 0.694 | 1 | 51530 | ZC3HC1 |
| 0.057120181 | 0.409926282 | 0.665 | 1 | 79152 | FA2H |
| 0.057117589 | 0.409947552 | 0.694 | 1 | 55970 | GNG12 |
| 0.057083899 | 0.410224114 | 0.694 | 1 | 441295 | OR2A9P |
| 0.057076124 | 0.410287952 | 0.689 | 1 | 1910 | EDNRB |
| 0.057033363 | 0.410639164 | 0.692 | 1 | 6175 | RPLP0P3 |
| 0.056997081 | 0.410937301 | 0.684 | 1 | 93587 | RG9MTD2 |
| 0.05696987 | 0.411160988 | 0.73 | 1 | 3608 | ILF2 |

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| 0.027058148 | 3.7848E-21 | 51147 | ING4 |
| 0.027040707 | 4.01103E-21 | 55 | ACPP |
| 0.027022129 | 4.26672E-21 | 945 | CD33 |
| 0.027013687 | 4.38818E-21 | 219681 | ARMC3 |
| 0.027001749 | 4.56579E-21 | 8945 | BTRC |
| 0.026997632 | 4.62868E-21 | 219409 | GSX1 |
| 0.02699344 | 4.69359E-21 | 64430 | C14orf135 |
| 0.026986165 | 4.80838E-21 | 29114 | TAGLN3 |
| 0.026978915 | 4.92555E-21 | 2779 | GNAT1 |
| 0.026974604 | 4.99654E-21 | 83643 | CCDC3 |
| 0.026942595 | 5.55635E-21 | 96626 | LIMS3 |
| 0.026933636 | 5.72385E-21 | 399942 | TUBAP2 |
| 0.026931267 | 5.76897E-21 | 390243 | FOLR4 |
| 0.026899593 | 6.40716E-21 | 23559 | WBP1 |
| 0.026880857 | 6.81701E-21 | 29801 | ZDHHC8 |
| 0.026837122 | 7.87736E-21 | 342945 | ZSCAN22 |
| 0.02682382 | 8.23111E-21 | 4005 | LMO2 |
| 0.026814432 | 8.49017E-21 | 257218 | SHPRH |
| 0.026810107 | 8.61222E-21 | 100506049 | AC005014.1 |
| 0.026807383 | 8.68997E-21 | 574406 | C1orf138 |
| 0.026806333 | 8.72012E-21 | 554226 | NCRNA00164 |
| 0.026804005 | 8.78738E-21 | 4482 | MSRA |
| 0.026802091 | 8.84303E-21 | 50488 | MINK1 |
| 0.026780674 | 9.49012E-21 | 55206 | SBNO1 |
| 0.026776028 | 9.63657E-21 | 56147 | PCDHA1 |
| 0.026761733 | 1.01013E-20 | 3857 | KRT9 |
| 0.026753905 | 1.03651E-20 | 57830 | KRTAP5-8 |
| 0.026750363 | 1.04867E-20 | 4921 | DDR2 |
| 0.026743417 | 1.07293E-20 | 51604 | PIGT |
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| 0.02672109 | 1.15472E-20 | 3597 | IL13RA1 |
| 0.02668282 | 1.30949E-20 | 23569 | PADI4 |
| 0.026672564 | 1.35435E-20 | 3811 | KIR3DL1 |
| 0.026659174 | 1.4152E-20 | 24140 | FTSJ1 |
| 0.026631829 | 1.54799E-20 | 4734 | NEDD4 |
| 0.026615295 | 1.63419E-20 | 3490 | IGFBP7 |
| 0.026612482 | 1.64932E-20 | 55454 | CSGALNACT2 |
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| 0.026571489 | 1.88618E-20 | 387590 | AC005301.1 |
| 0.026555178 | 1.98951E-20 | 727851 | RGPD8 |
| 0.026539643 | 2.09312E-20 | 1871 | E2F3 |
| 0.02652429 | 2.20077E-20 | 7264 | TSTA3 |
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| 0.026468006 | 2.64428E-20 | 57698 | KIAA1598 |
| 0.026451948 | 2.78628E-20 | 685 | BTC |
| 0.02644578 | 2.84281E-20 | 22808 | MRAS |
| 0.026438987 | 2.90637E-20 | 246777 | SPESP1 |
| 0.026433628 | 2.95751E-20 | 100129196 | RP5-1166H10.2 |
| 0.026425397 | 3.03779E-20 | 84666 | RETNLB |
| 0.026423687 | 3.05474E-20 | 6396 | SEC13 |
| 0.026422412 | 3.06744E-20 | 9846 | GAB2 |
| 0.026394393 | 3.36001E-20 | 134187 | POU5F2 |
| 0.02636571 | 3.68806E-20 | 6795 | AURKC |
| 0.026363601 | 3.7134E-20 | 23119 | HIC2 |
| 0.026343476 | 3.96397E-20 | 5154 | PDGFA |
| 0.026340631 | 4.00072E-20 | 65980 | BRD9 |
| 0.026304256 | 4.50129E-20 | 79707 | NOL9 |
| 0.026293761 | 4.6569E-20 | 60560 | MAK10 |
| 0.0262783 | 4.89586E-20 | 23423 | TMED3 |
| 0.026276414 | 4.92583E-20 | 23629 | BRD7P3 |
| 0.02626622 | 5.09098E-20 | 6748 | SSR4 |
| 0.026237963 | 5.57789E-20 | 11149 | BVES |
| 0.026217314 | 5.96254E-20 | 5468 | PPARG |
| 0.02621565 | 5.99466E-20 | 10296 | MAEA |
| 0.026191511 | 6.48024E-20 | 84107 | ZIC4 |
| 0.026190591 | 6.4995E-20 | 257106 | ARHGAP30 |
| 0.026190084 | 6.51013E-20 | 80835 | TAS1R1 |
| 0.026166523 | 7.02384E-20 | 1870 | E2F2 |
| 0.026163409 | 7.09467E-20 | 54433 | GAR1 |
| 0.02613763 | 7.70876E-20 | 947 | CD34 |
| 0.026126047 | 8.00153E-20 | 400236 | RP11-33N16.1 |
| 0.026088269 | 9.03487E-20 | 152641 | C4ORF38 |
| 0.02608198 | 9.21926E-20 | 3172 | HNF4A |
| 0.026035162 | 1.07139E-19 | 3483 | IGFALS |
| 0.026016877 | 1.13606E-19 | 4939 | OAS2 |
| 0.025981701 | 1.2715E-19 | 3833 | KIFC1 |
| 0.025980644 | 1.27581E-19 | 100132977 | LOC100132977 |
| 0.025980581 | 1.27607E-19 | 51148 | CERCAM |
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| 0.025971257 | 1.31471E-19 | 80320 | SP6 |
| 0.025959148 | 1.36661E-19 | 3693 | ITGB5 |
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| 0.056942658 | 0.411384747 | 0.704 | 1 | 23022 | PALLD |
| 0.0569297 | 0.411491324 | 0.671 | 1 | 9706 | ULK2 |
| 0.056894714 | 0.411779164 | 0.665 | 1 | 5589 | PRKCSH |
| 0.056875277 | 0.411939126 | 0.678 | 1 | 973 | CD79A |
| 0.056848066 | 0.412163134 | 0.707 | 1 | 92691 | TMEM169 |
| 0.056826038 | 0.412344527 | 0.669 | 1 | 22868 | FASTKD2 |
| 0.056814375 | 0.412440578 | 0.698 | 1 | 84707 | BEX2 |
| 0.056784572 | 0.4126861 | 0.657 | 1 | 55223 | TRIM62 |
| 0.05677291 | 0.412782198 | 0.677 | 1 | 6921 | TCEB1 |
| 0.056746995 | 0.412995795 | 0.685 | 1 | 80755 | AARSD1 |
| 0.056708121 | 0.413316313 | 0.671 | 1 | 79981 | FRMD1 |
| 0.056705529 | 0.413337686 | 0.685 | 1 | 23139 | MAST2 |
| 0.056704234 | 0.413348373 | 0.692 | 1 | 337971 | KRTAP19-4 |
| 0.056687388 | 0.413487315 | 0.706 | 1 | 10526 | IPO8 |
| 0.056671839 | 0.413615595 | 0.699 | 1 | 26063 | DECR2 |
| 0.05663167 | 0.413947092 | 0.677 | 1 | 51537 | MTP18 |
| 0.056620008 | 0.414043362 | 0.681 | 1 | 11184 | MAP4K1 |
| 0.056604458 | 0.414171743 | 0.697 | 1 | 8548 | BLZF1 |
| 0.056562993 | 0.414514206 | 0.66 | 1 | 6449 | SGTA |
| 0.056544852 | 0.414664086 | 0.658 | 1 | 80022 | MYO15B |
| 0.056502091 | 0.415017501 | 0.686 | 1 | 10489 | LRRC41 |
| 0.056465809 | 0.415317507 | 0.675 | 1 | 4496 | MT1H |
| 0.056456739 | 0.415392528 | 0.699 | 1 | 9049 | AIP |
| 0.056442485 | 0.415510435 | 0.712 | 1 | 3313 | HSPA9 |
| 0.056436006 | 0.415564036 | 0.7 | 1 | 5688 | PSMA7 |
| 0.056384175 | 0.415992986 | 0.677 | 1 | 84188 | FAR1 |
| 0.056368625 | 0.416121722 | 0.661 | 1 | 6645 | SNTB2 |
| 0.056363442 | 0.416164639 | 0.702 | 1 | 57095 | C1orf128 |
| 0.056362146 | 0.416175369 | 0.699 | 1 | 6001 | RGS10 |
| 0.056359555 | 0.416196829 | 0.696 | 1 | 84937 | ZNRF1 |
| 0.056355667 | 0.41622902 | 0.698 | 1 | 90007 | MIDN |
| 0.056324568 | 0.4164866 | 0.659 | 1 | 83591 | THAP2 |
| 0.05630254 | 0.41666911 | 0.715 | 1 | 100127983 | RP11-122A3.2 |
| 0.056272737 | 0.416916109 | 0.704 | 1 | 55334 | SLC39A9 |
| 0.056261075 | 0.417012785 | 0.694 | 1 | 22820 | COPG |
| 0.056255892 | 0.417055756 | 0.684 | 1 | 10335 | MRVI1 |
| 0.0562533 | 0.417077242 | 0.682 | 1 | 440498 | AC090360.1 |
| 0.056227384 | 0.417292143 | 0.681 | 1 | 6045 | RNF2 |
| 0.05621961 | 0.417356626 | 0.685 | 1 | 11107 | PRDM5 |
| 0.056193694 | 0.417571611 | 0.693 | 1 | 220416 | LRRC63 |
| 0.05617944 | 0.41768988 | 0.733 | 1 | 57819 | LSM2 |
| 0.056171666 | 0.417754399 | 0.707 | 1 | 130888 | FBXO36 |
| 0.056141863 | 0.418001775 | 0.693 | 1 | 1958 | EGR1 |
| 0.056104285 | 0.418313807 | 0.694 | 1 | 26610 | ELP4 |
| 0.056042087 | 0.418830572 | 0.693 | 1 | 8343 | HIST1H2BF |
| 0.056036904 | 0.418873653 | 0.668 | 1 | 10567 | RABAC1 |
| 0.055946199 | 0.419627984 | 0.698 | 1 | 11281 | POU6F2 |
| 0.055931945 | 0.419746594 | 0.693 | 1 | 6326 | SCN2A |
| 0.055924171 | 0.419811298 | 0.7 | 1 | 25917 | THUMPD3 |
| 0.055898255 | 0.420027022 | 0.729 | 1 | 10370 | CITED2 |
| 0.055872339 | 0.420242811 | 0.686 | 1 | 157927 | C9orf62 |
| 0.055845128 | 0.420469459 | 0.707 | 1 | 55697 | VAC14 |
| 0.055829578 | 0.420599004 | 0.707 | 1 | 84648 | LCE3D |
| 0.05581662 | 0.420706976 | 0.688 | 1 | 2299 | FOXI1 |
| 0.055797184 | 0.420868964 | 0.664 | 1 | 10628 | TXNIP |
| 0.055792 | 0.420912168 | 0.68 | 1 | 376267 | RAB15 |
| 0.055777747 | 0.421030989 | 0.703 | 1 | 64949 | MRPS26 |
| 0.055714253 | 0.421560524 | 0.695 | 1 | 2218 | FKTN |
| 0.05567538 | 0.421884921 | 0.708 | 1 | 8175 | SF3A2 |
| 0.055666309 | 0.421960634 | 0.675 | 1 | 219527 | LRRC55 |
| 0.055665013 | 0.421971451 | 0.671 | 1 | 64093 | SMOC1 |
| 0.055646872 | 0.422122904 | 0.709 | 1 | 9588 | PRDX6 |
| 0.055641689 | 0.422166182 | 0.687 | 1 | 4729 | NDUFV2 |
| 0.055554872 | 0.422891475 | 0.717 | 1 | 50619 | DEF6 |
| 0.055515998 | 0.423216468 | 0.726 | 1 | 728361 | OVOL3 |
| 0.05549397 | 0.423400695 | 0.681 | 1 | 84105 | PCBD2 |
| 0.055457688 | 0.42370423 | 0.68 | 1 | 6416 | MAP2K4 |
| 0.055426589 | 0.423964504 | 0.703 | 1 | 7692 | ZNF133 |
| 0.055334588 | 0.424735024 | 0.696 | 1 | 9319 | TRIP13 |
| 0.055324222 | 0.424821894 | 0.653 | 1 | 347344 | ZNF81 |
| 0.055259433 | 0.425365066 | 0.691 | 1 | 10765 | KDM5B |
| 0.0552387 | 0.425538966 | 0.698 | 1 | 9578 | AL117209.1 |
| 0.055207601 | 0.425799894 | 0.705 | 1 | 128611 | ZNF831 |
| 0.055181685 | 0.426017405 | 0.67 | 1 | 91614 | DEPDC7 |
| 0.055118192 | 0.426550578 | 0.691 | 1 | 64750 | SMURF2 |
| 0.055027487 | 0.427312926 | 0.68 | 1 | 2527 | FUT5 |
| 0.054986022 | 0.42766169 | 0.652 | 1 | 442113 | LOC442113 |
| 0.054982134 | 0.427694395 | 0.701 | 1 | 55216 | C11orf57 |
| 0.054979543 | 0.4277162 | 0.66 | 1 | 26189 | OR1A2 |
| 0.054953627 | 0.427934277 | 0.693 | 1 | 84292 | AC010422.1 |
| 0.05493419 | 0.428097878 | 0.7 | 1 | 170961 | ANKRD24 |
| 0.054916049 | 0.428250604 | 0.679 | 1 | 7360 | UGP2 |

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| 0.025949553 | 1.40918E-19 | 25799 | ZNF324 |
| 0.025943464 | 1.43687E-19 | 53358 | SHC3 |
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| 0.025927212 | 1.51344E-19 | 23660 | ZKSCAN5 |
| 0.025900229 | 1.64955E-19 | 8398 | PLA2G6 |
| 0.025898255 | 1.65997E-19 | 342926 | ZNF677 |
| 0.025891449 | 1.6964E-19 | 7786 | MAP3K12 |
| 0.025879661 | 1.76137E-19 | 340204 | C6orf127 |
| 0.025874427 | 1.791E-19 | 79183 | TTPAL |
| 0.025865642 | 1.84184E-19 | 440738 | MAP1LC3C |
| 0.02586473 | 1.8472E-19 | 7317 | UBA1 |
| 0.02585571 | 1.90105E-19 | 6050 | RNH1 |
| 0.025825379 | 2.09373E-19 | 1602 | DACH1 |
| 0.025815318 | 2.1618E-19 | 201140 | DHRS7C |
| 0.025813467 | 2.17457E-19 | 375387 | LRRC33 |
| 0.025779481 | 2.42256E-19 | 5571 | PRKAG1 |
| 0.025766513 | 2.52438E-19 | 27292 | DIMT1 |
| 0.025764808 | 2.53807E-19 | 6430 | SFRS5 |
| 0.025763575 | 2.54803E-19 | 114112 | TXNRD3 |
| 0.025762404 | 3.19889E-19 | 79616 | CCNJL |
| 0.025761379 | 3.22654E-19 | 3912 | LAMB1 |
| 0.025757571 | 3.24151E-19 | 64772 | ENGASE |
| 0.025750486 | 2.65607E-19 | 2821 | GPI |
| 0.025730542 | 2.82946E-19 | 23784 | POTEH |
| 0.025713303 | 2.98832E-19 | 51347 | TAOK3 |
| 0.025701478 | 3.10235E-19 | 91748 | C14orf43 |
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| 0.02568158 | 3.30401E-19 | 80228 | ORAI2 |
| 0.025675116 | 3.37226E-19 | 3845 | KRAS |
| 0.02567386 | 3.38568E-19 | 100128496 | C20orf78 |
| 0.025663441 | 3.4991E-19 | 378 | ARF4 |
| 0.025658884 | 3.54987E-19 | 4015 | LOX |
| 0.025651482 | 3.63389E-19 | 26220 | DGCR5 |
| 0.025642026 | 3.7441E-19 | 730755 | KRTAP2-1 |
| 0.025626487 | 3.93242E-19 | 353376 | TICAM2 |
| 0.025625616 | 3.94324E-19 | 2155 | F7 |
| 0.025624468 | 3.95756E-19 | 80335 | WDR82 |
| 0.025612522 | 4.10962E-19 | 392376 | OR13C2 |
| 0.025602094 | 4.24708E-19 | 4736 | RPL10A |
| 0.025593481 | 4.36402E-19 | 84336 | TMEM101 |
| 0.025592406 | 4.37883E-19 | 7456 | WIPF1 |
| 0.025585808 | 4.47087E-19 | 338674 | OR5F1 |
| 0.025582516 | 4.51751E-19 | 56650 | CLDND1 |
| 0.025564043 | 4.78824E-19 | 169044 | COL22A1 |
| 0.025549627 | 5.01059E-19 | 2875 | GPT |
| 0.025545921 | 5.06939E-19 | 81850 | KRTAP1-3 |
| 0.025544635 | 5.08996E-19 | 100130717 | CECR5-AS1 |
| 0.025543148 | 5.11382E-19 | 5243 | ABCB1 |
| 0.02551955 | 5.50787E-19 | 134265 | AFAP1L1 |
| 0.025518214 | 5.53106E-19 | 91461 | SGK493 |
| 0.025518004 | 5.53471E-19 | 131544 | CRYBG3 |
| 0.02551303 | 5.62194E-19 | 79919 | C2orf54 |
| 0.025511667 | 5.64607E-19 | 11108 | PRDM4 |
| 0.025501553 | 5.82843E-19 | 4495 | MT1G |
| 0.025431627 | 7.25843E-19 | 164045 | HFM1 |
| 0.025408587 | 7.80163E-19 | 9530 | BAG4 |
| 0.025405228 | 7.88409E-19 | 11187 | PKP3 |
| 0.025395526 | 8.12717E-19 | 80227 | PAAF1 |
| 0.0253451 | 9.5149E-19 | 91875 | TTC5 |
| 0.025340351 | 9.65707E-19 | 386681 | KRTAP10-8 |
| 0.025335094 | 9.81691E-19 | 5922 | RASA2 |
| 0.025320763 | 1.0266E-18 | 85001 | CTD-2514K5.2 |
| 0.025288492 | 1.13528E-18 | 728411 | AC138951.4 |
| 0.025282699 | 1.15596E-18 | 23303 | KIF13B |
| 0.025276382 | 1.17894E-18 | 7570 | ZNF22 |
| 0.025268765 | 1.20724E-18 | 11325 | DDX42 |
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| 0.025259318 | 1.24328E-18 | 253980 | KCTD13 |
| 0.02525576 | 1.25712E-18 | 2533 | FYB |
| 0.025251791 | 1.27275E-18 | 22918 | CD93 |
| 0.025245306 | 1.29869E-18 | 51668 | HSPB11 |
| 0.025241611 | 1.3137E-18 | 9810 | RNF40 |
| 0.025240421 | 1.31857E-18 | 23399 | DULLARD |
| 0.025220329 | 1.40358E-18 | 10922 | FASTK |
| 0.025219955 | 1.40521E-18 | 634 | CEACAM1 |
| 0.02520261 | 1.48302E-18 | 3875 | KRT18P19 |
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| 0.025186023 | 1.56141E-18 | 861 | RUNX1 |
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| 0.054505285 | 0.431717197 | 0.678 | 1 | 7099 | TLR4 |
| 0.054498806 | 0.431772004 | 0.728 | 1 | 10131 | TRAP1 |
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| 0.05441458 | 0.432484865 | 0.716 | 1 | 79590 | MRPL24 |
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| 0.054349791 | 0.43303368 | 0.656 | 1 | 60481 | ELOVL5 |
| 0.054345904 | 0.433066622 | 0.729 | 1 | 80832 | APOL4 |
| 0.054335537 | 0.433154473 | 0.712 | 1 | 10483 | SEC23B |
| 0.054202071 | 0.434286476 | 0.674 | 1 | 10768 | AHCYL1 |
| 0.054177451 | 0.434495478 | 0.703 | 1 | 152302 | CIDECP |
| 0.054081563 | 0.435310034 | 0.724 | 1 | 5625 | PRODH |
| 0.054053056 | 0.435552369 | 0.689 | 1 | 55256 | ADI1 |
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| 0.053272993 | 0.44221349 | 0.71 | 1 | 729317 | LOC729317 |
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| 0.053105837 | 0.443648378 | 0.69 | 1 | 10660 | LBX1 |
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| 0.05292961 | 0.445163988 | 0.706 | 1 | 9001 | HAP1 |
| 0.052919243 | 0.445253233 | 0.69 | 1 | 388588 | RP1-286D6.2 |
| 0.052906286 | 0.445364803 | 0.71 | 1 | 8344 | HIST1H2BE |
| 0.052886849 | 0.445532188 | 0.716 | 1 | 78999 | LRFN4 |
| 0.052873891 | 0.445643798 | 0.718 | 1 | 6709 | SPTAN1 |
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| 0.052835017 | 0.445978723 | 0.709 | 1 | 55422 | ZNF331 |
| 0.052828538 | 0.446034558 | 0.711 | 1 | 120224 | TMEM45B |
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| 0.052819468 | 0.446112733 | 0.708 | 1 | 339483 | MTMR9LP |
| 0.052803918 | 0.446246766 | 0.709 | 1 | 64763 | ZNF574 |
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| 0.025038033 | 2.46857E-18 | 1371 | CPOX |
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| 0.024988204 | 2.87852E-18 | 1629 | DBT |
| 0.024982861 | 2.92629E-18 | 26224 | FBXL3 |
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| 0.024966795 | 3.07466E-18 | 344 | APOC2 |
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| 0.024920987 | 3.53974E-18 | 553158 | ARHGAP8 |
| 0.024916783 | 3.58575E-18 | 115019 | SLC26A9 |
| 0.024911555 | 3.67716E-18 | 256987 | SERINC5 |
| 0.024906881 | 3.69646E-18 | 5433 | POLR2D |
| 0.024861812 | 4.24455E-18 | 5902 | RANBP1 |
| 0.024857214 | 4.30479E-18 | 8289 | ARID1A |
| 0.024842488 | 4.50345E-18 | 125144 | C17orf45 |
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| 0.024751599 | 5.94597E-18 | 200958 | MUC20 |
| 0.024746149 | 6.04569E-18 | 23547 | LILRA4 |
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| 0.024725554 | 6.43761E-18 | 92002 | FAM58A |
| 0.024702775 | 6.90036E-18 | 100132832 | LOC100132832 |
| 0.024693928 | 7.08879E-18 | 26059 | ERC2 |
| 0.024659065 | 7.8821E-18 | 10900 | RUNDC3A |
| 0.024629871 | 8.61334E-18 | 10022 | INSL5 |
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| 0.024617272 | 8.94923E-18 | 284029 | LINC00324 |
| 0.024616054 | 8.98238E-18 | 440193 | CCDC88C |
| 0.02461254 | 9.0787E-18 | 57091 | CASS4 |
| 0.02459541 | 9.56303E-18 | 84541 | KBTBD8 |
| 0.02459054 | 9.7053E-18 | 84206 | MEX3B |
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| 0.024404291 | 1.70367E-17 | 7752 | ZNF200 |
| 0.024384188 | 1.8099E-17 | 23760 | PITPNB |
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| 0.052448873 | 0.449313377 | 0.683 | 1 | 79630 | C1orf54 |
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| 0.051808755 | 0.454872154 | 0.719 | 1 | 29107 | NXT1 |
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| 0.051677881 | 0.456013391 | 0.748 | 1 | 160728 | SLC5A8 |
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| 0.051394104 | 0.458493445 | 0.708 | 1 | 140456 | ASB11 |
| 0.051377258 | 0.458640899 | 0.712 | 1 | 6231 | RPS26P20 |
| 0.051372075 | 0.458686275 | 0.722 | 1 | 6648 | SOD2 |
| 0.051356526 | 0.458822417 | 0.723 | 1 | 64123 | ELTD1 |
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| 0.051280074 | 0.459492111 | 0.734 | 1 | 11328 | FKBP9 |
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| 0.050759168 | 0.464069574 | 0.736 | 1 | 90459 | ERI1 |
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| 0.050021866 | 0.47059156 | 0.727 | 1 | 60560 | MAK10 |
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| 0.02320529 | 5.77055E-16 | 26271 | FBXO5 |
| 0.023191622 | 6.00101E-16 | 57494 | AC092490.2 |
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| 0.049734202 | 0.473149749 | 0.718 | 1 | 6692 | SPINT1 |
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| 0.049073351 | 0.479055383 | 0.721 | 1 | 126308 | MOBKL2A |
| 0.049034478 | 0.479404016 | 0.7 | 1 | 51574 | LARP7 |
| 0.049017632 | 0.479555132 | 0.719 | 1 | 95 | ACY1 |
| 0.049007266 | 0.47964814 | 0.732 | 1 | 390882 | OR7G2 |
| 0.048995604 | 0.479752786 | 0.722 | 1 | 384 | ARG2 |
| 0.048994308 | 0.479764414 | 0.726 | 1 | 10783 | NEK6 |
| 0.048977463 | 0.479915592 | 0.726 | 1 | 51193 | ZNF639 |
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| 0.048672953 | 0.482652881 | 0.711 | 1 | 84759 | PCGF1 |
| 0.048626305 | 0.483072955 | 0.727 | 1 | 26747 | NUFIP1 |
| 0.04856022 | 0.483668397 | 0.724 | 1 | 55257 | C20orf20 |
| 0.048548558 | 0.483773516 | 0.738 | 1 | 3137 | HLA-J |
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| 0.048205175 | 0.486874206 | 0.717 | 1 | 6598 | SMARCB1 |
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| 0.047625958 | 0.492128533 | 0.728 | 1 | 3083 | HGFAC |
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| 0.022882904 | 1.44464E-15 | 4902 | NRTN |
| 0.022870269 | 1.49716E-15 | 643854 | RP5-988G15.1 |
| 0.022864439 | 1.52203E-15 | 1311 | COMP |
| 0.022862638 | 1.52979E-15 | 9719 | ADAMTSL2 |
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| 0.022838522 | 1.63757E-15 | 55070 | DET1 |
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| 0.022779303 | 1.93501E-15 | 55324 | ABCF3 |
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| 0.022751666 | 2.09144E-15 | 6143 | RPL19P12 |
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| 0.022545153 | 3.72804E-15 | 9538 | EI24 |
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| 0.022543889 | 3.74121E-15 | 7700 | ZNF141 |
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| 0.04747176 | 0.493532418 | 0.733 | 1 | 51778 | MYOZ2 |
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| 0.047387534 | 0.494300145 | 0.723 | 1 | 9246 | UBE2L6 |
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| 0.046860149 | 0.499121705 | 0.714 | 1 | 29785 | CYP2S1 |
| 0.046731866 | 0.500298263 | 0.743 | 1 | 100128108 | RP11-89K11.1 |
| 0.046727979 | 0.500333939 | 0.721 | 1 | 654817 | NCF1C |
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| 0.046660598 | 0.500952538 | 0.752 | 1 | 916 | CD3E |
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| 0.046525836 | 0.502190943 | 0.751 | 1 | 10714 | POLD3 |
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| 0.046519357 | 0.502250523 | 0.761 | 1 | 29085 | PHPT1 |
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| 0.0465064 | 0.502369692 | 0.755 | 1 | 27324 | TOX3 |
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| 0.045893493 | 0.508023368 | 0.73 | 1 | 338879 | RNASE10 |
| 0.045883127 | 0.508119275 | 0.756 | 1 | 440503 | AC011498.2 |
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| 0.045842957 | 0.508491004 | 0.727 | 1 | 10316 | NMUR1 |
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| 0.045664139 | 0.510147518 | 0.778 | 1 | 84265 | POLR3GL |
| 0.045648589 | 0.510291695 | 0.754 | 1 | 55714 | ODZ3 |
| 0.045645998 | 0.510315727 | 0.78 | 1 | 23271 | CAMSAP1L1 |
| 0.045629153 | 0.510471946 | 0.749 | 1 | 6134 | RPL10 |
| 0.045620082 | 0.510556075 | 0.754 | 1 | 8751 | ADAM15 |
| 0.045526786 | 0.511421816 | 0.773 | 1 | 1603 | DAD1 |
| 0.045489208 | 0.511770733 | 0.752 | 1 | 6529 | SLC6A1 |
| 0.045472363 | 0.511927184 | 0.758 | 1 | 89978 | ATPBD4 |
| 0.045408869 | 0.512517107 | 0.744 | 1 | 4993 | OR2C1 |
| 0.045407573 | 0.512529149 | 0.769 | 1 | 84287 | ZDHHC16 |
| 0.045382953 | 0.512757993 | 0.757 | 1 | 643382 | C14orf176 |
| 0.045351854 | 0.513047133 | 0.746 | 1 | 54988 | ACSM5 |
| 0.045345376 | 0.513107382 | 0.75 | 1 | 79922 | MRM1 |

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| 0.022464744 | 4.66257E-15 | 266675 | BEST4 |
| 0.022457094 | 4.76266E-15 | 401577 | CD99P1 |
| 0.02245635 | 4.7725E-15 | 339122 | RAB43 |
| 0.022454202 | 4.80104E-15 | 57558 | USP35 |
| 0.02244149 | 4.97343E-15 | 222389 | BEND7 |
| 0.022422087 | 5.24834E-15 | 83930 | STARD3NL |
| 0.022406384 | 5.48175E-15 | 84300 | MNF1 |
| 0.022402343 | 5.54344E-15 | 653188 | GUSBP3 |
| 0.022393989 | 5.67317E-15 | 11277 | TREX1 |
| 0.022393297 | 5.68406E-15 | 57456 | KIAA1143 |
| 0.022392828 | 5.69143E-15 | 51614 | ERGIC3 |
| 0.022381988 | 5.86477E-15 | 56985 | C17orf48 |
| 0.022380964 | 5.88142E-15 | 55805 | LRP2BP |
| 0.022377516 | 5.93779E-15 | 730112 | FAM166B |
| 0.02237235 | 6.02325E-15 | 55827 | IQWD1 |
| 0.022327514 | 6.81767E-15 | 64746 | ACBD3 |
| 0.022326737 | 6.83231E-15 | 7050 | TGIF1 |
| 0.022312536 | 7.10538E-15 | 5536 | PPP5C |
| 0.022310535 | 7.1447E-15 | 91409 | CCDC74B |
| 0.022295967 | 7.43756E-15 | 8862 | APLN |
| 0.022294534 | 7.467E-15 | 134353 | LSM11 |
| 0.022293955 | 7.54152E-15 | 4124 | MAN2A1 |
| 0.022289385 | 7.57373E-15 | 51160 | VPS28 |
| 0.022289197 | 7.67973E-15 | 9517 | SPTLC2 |
| 0.022278386 | 7.80676E-15 | 1892 | ECHS1 |
| 0.022265637 | 8.08571E-15 | 6361 | CCL17 |
| 0.02225736 | 8.27205E-15 | 8314 | BAP1 |
| 0.022220725 | 9.14881E-15 | 3122 | HLA-DRA |
| 0.02221779 | 9.22288E-15 | 3386 | ICAM4 |
| 0.022199917 | 9.68686E-15 | 151871 | DPPA2 |
| 0.022197439 | 9.75297E-15 | 27293 | SMPDL3B |
| 0.022188997 | 9.98157E-15 | 6367 | CCL22 |
| 0.022183454 | 1.01345E-14 | 83871 | RAB34 |
| 0.022171606 | 1.04693E-14 | 90024 | AP001816.1 |
| 0.022167052 | 1.06008E-14 | 5934 | RBL2 |
| 0.022150992 | 1.10777E-14 | 91120 | ZNF682 |
| 0.022139343 | 1.14368E-14 | 26683 | OR4F3 |
| 0.022134436 | 1.15915E-14 | 54549 | SDK2 |
| 0.022129139 | 1.17608E-14 | 10142 | AKAP9 |
| 0.022111769 | 1.23331E-14 | 94274 | PPP1R14A |
| 0.022109664 | 1.24043E-14 | 648740 | ACTG1P4 |
| 0.022109509 | 1.24096E-14 | 4893 | NRAS |
| 0.022103064 | 1.26302E-14 | 81706 | PPP1R14C |
| 0.022097875 | 1.28106E-14 | 2029 | ENSA |
| 0.022084173 | 1.32992E-14 | 258010 | SVIP |
| 0.022075673 | 1.36115E-14 | 116113 | FOXP4 |
| 0.022074948 | 1.36385E-14 | 57477 | SHROOM4 |
| 0.022062105 | 1.41251E-14 | 6039 | RNASE6 |
| 0.02205991 | 1.68088E-14 | 9514 | GAL3ST1 |
| 0.022047376 | 1.47041E-14 | 54933 | RHBDL2 |
| 0.022045654 | 1.47734E-14 | 133686 | C5orf33 |
| 0.022043537 | 1.48589E-14 | 147015 | DHRS13 |
| 0.022040278 | 1.49915E-14 | 4070 | TACSTD2 |
| 0.022036652 | 1.51404E-14 | 440888 | ACTR3BP2 |
| 0.022021397 | 1.57829E-14 | 22999 | RIMS1 |
| 0.02201169 | 1.62057E-14 | 286451 | YIPF6 |
| 0.022005427 | 1.64844E-14 | 126306 | JSRP1 |
| 0.021997671 | 1.6836E-14 | 8633 | UNC5C |
| 0.021988363 | 1.72678E-14 | 1052 | CEBPD |
| 0.021983481 | 1.74986E-14 | 5134 | PDCD2 |
| 0.0219773 | 1.77951E-14 | 54509 | RHOF |
| 0.021973841 | 1.79632E-14 | 130888 | FBXO36 |
| 0.021973259 | 1.79916E-14 | 440017 | DUX4L15 |
| 0.021962302 | 1.85354E-14 | 128308 | MRPL55 |
| 0.021960362 | 1.86333E-14 | 85377 | MICALL1 |
| 0.0219297 | 2.02506E-14 | 10901 | DHRS4 |
| 0.021922285 | 2.06621E-14 | 9141 | PDCD5 |
| 0.021913148 | 2.11803E-14 | 55559 | HAUS7 |
| 0.021909601 | 2.1385E-14 | 51455 | REV1 |
| 0.021899963 | 2.19508E-14 | 10273 | STUB1 |
| 0.021890646 | 2.25118E-14 | 84456 | L3MBTL3 |
| 0.021889315 | 2.25931E-14 | 57419 | SLC24A3 |
| 0.021864315 | 2.41747E-14 | 84820 | POLR2J4 |
| 0.021850084 | 2.51231E-14 | 55052 | MRPL20 |
| 0.021835014 | 2.61674E-14 | 100170841 | C17orf96 |
| 0.021830761 | 2.64697E-14 | 54828 | BCAS3 |
| 0.021818709 | 2.73452E-14 | 153020 | RASGEF1B |
| 0.021802947 | 2.85334E-14 | 219983 | OR4D6 |
| 0.021801238 | 2.86653E-14 | 65988 | ZNF747 |
| 0.021754204 | 3.25384E-14 | 9031 | BAZ1B |
| 0.02174722 | 3.31558E-14 | 4325 | MMP16 |
| 0.021743351 | 3.35028E-14 | 64087 | MCCC2 |

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| 0.045323347 | 0.513312253 | 0.725 | 1 | 259217 | HSPA12A |
| 0.045289657 | 0.513625668 | 0.711 | 1 | 2555 | GABRA2 |
| 0.045219684 | 0.514276923 | 0.741 | 1 | 10633 | RASL10A |
| 0.045163965 | 0.51479582 | 0.742 | 1 | 4982 | TNFRSF11B |
| 0.045158782 | 0.514844103 | 0.764 | 1 | 3930 | LBR |
| 0.045151008 | 0.514916533 | 0.782 | 1 | 2738 | GLI4 |
| 0.045081035 | 0.515568633 | 0.744 | 1 | 26155 | NOC2L |
| 0.045024021 | 0.516100289 | 0.759 | 1 | 152118 | RP11-292E2.1 |
| 0.045004584 | 0.5162816 | 0.737 | 1 | 22883 | CLSTN1 |
| 0.045003288 | 0.516293688 | 0.705 | 1 | 55556 | ENOSF1 |
| 0.044994218 | 0.516378312 | 0.753 | 1 | 284194 | AC025627.16 |
| 0.044987739 | 0.516438763 | 0.747 | 1 | 768096 | HAR1A |
| 0.044935907 | 0.516922495 | 0.746 | 1 | 729020 | LOC729020 |
| 0.044934611 | 0.516934591 | 0.771 | 1 | 92482 | BBIP1 |
| 0.044919062 | 0.517079758 | 0.748 | 1 | 80205 | CHD9 |
| 0.044867231 | 0.517563799 | 0.741 | 1 | 5537 | PPP6C |
| 0.044854273 | 0.517684846 | 0.741 | 1 | 4217 | MAP3K5 |
| 0.044760976 | 0.518556813 | 0.753 | 1 | 163747 | C1orf177 |
| 0.044714328 | 0.518993079 | 0.743 | 1 | 135114 | HINT3 |
| 0.044665088 | 0.519453787 | 0.744 | 1 | 222950 | C7orf51 |
| 0.044662496 | 0.51947804 | 0.768 | 1 | 390003 | GUCY2GP |
| 0.04464306 | 0.519659961 | 0.756 | 1 | 441461 | RP11-60I3.5 |
| 0.044622327 | 0.519854045 | 0.751 | 1 | 6654 | SOS1 |
| 0.044565312 | 0.520387969 | 0.78 | 1 | 122481 | AK7 |
| 0.044494044 | 0.521055769 | 0.759 | 1 | 9556 | C14orf2 |
| 0.044482382 | 0.521165087 | 0.746 | 1 | 51637 | C14orf166 |
| 0.044433142 | 0.521626782 | 0.754 | 1 | 908 | CCT6A |
| 0.044422776 | 0.521724008 | 0.765 | 1 | 57787 | MARK4 |
| 0.044392973 | 0.522003583 | 0.758 | 1 | 1107 | CHD3 |
| 0.044370945 | 0.522210275 | 0.765 | 1 | 256297 | PTF1A |
| 0.044346325 | 0.522441333 | 0.759 | 1 | 128497 | C20orf165 |
| 0.044333367 | 0.522562963 | 0.739 | 1 | 6339 | SCNN1D |
| 0.044312634 | 0.522757602 | 0.745 | 1 | 3018 | HIST1H2BB |
| 0.044258211 | 0.523268704 | 0.74 | 1 | 4858 | NOVA2 |
| 0.044258211 | 0.523268704 | 0.74 | 1 | 9625 | AATK |
| 0.044212859 | 0.523694818 | 0.776 | 1 | 286103 | C8ORF77 |
| 0.044197309 | 0.523840955 | 0.739 | 1 | 605 | BCL7A |
| 0.044164915 | 0.524145474 | 0.747 | 1 | 51147 | ING4 |
| 0.044131224 | 0.524462269 | 0.758 | 1 | 254272 | TBC1D28 |
| 0.044067731 | 0.525059571 | 0.754 | 1 | 200316 | APOBEC3F |
| 0.044043111 | 0.525291271 | 0.746 | 1 | 8517 | IKBKG |
| 0.044006829 | 0.525632818 | 0.753 | 1 | 2739 | GLO1 |
| 0.044005533 | 0.525645018 | 0.75 | 1 | 241 | ALOX5AP |
| 0.043966659 | 0.526011092 | 0.754 | 1 | 3796 | KIF2A |
| 0.043925194 | 0.526401713 | 0.775 | 1 | 368 | ABCC6 |
| 0.043912236 | 0.526523812 | 0.743 | 1 | 9208 | LRRFIP1 |
| 0.043873363 | 0.526890196 | 0.744 | 1 | 3953 | LEPR |
| 0.043838377 | 0.527220052 | 0.766 | 1 | 120071 | GYLTL1B |
| 0.043830602 | 0.527293368 | 0.741 | 1 | 57210 | SLC45A4 |
| 0.043817644 | 0.527415572 | 0.756 | 1 | 5721 | PSME2 |
| 0.043817644 | 0.527415572 | 0.768 | 1 | 83872 | HMCN1 |
| 0.043783954 | 0.52773337 | 0.76 | 1 | 152404 | IGSF11 |
| 0.043729531 | 0.528246942 | 0.752 | 1 | 57165 | GJC2 |
| 0.043713981 | 0.528393723 | 0.776 | 1 | 284288 | RSL24D1P11 |
| 0.04369584 | 0.528564994 | 0.737 | 1 | 89887 | ZNF628 |
| 0.043685474 | 0.528662875 | 0.762 | 1 | 80011 | C16orf94 |
| 0.043666037 | 0.528846428 | 0.757 | 1 | 57091 | CASS4 |
| 0.043658262 | 0.528919858 | 0.748 | 1 | 391334 | LOC391334 |
| 0.043603839 | 0.529434014 | 0.777 | 1 | 5052 | PRDX1 |
| 0.043583107 | 0.529629949 | 0.741 | 1 | 2232 | FDXR |
| 0.043577924 | 0.529678938 | 0.743 | 1 | 1774 | DNASE1L1 |
| 0.043559783 | 0.52985042 | 0.762 | 1 | 54939 | COMMD4 |
| 0.043484627 | 0.530561142 | 0.754 | 1 | 93349 | SP140L |
| 0.043479444 | 0.530610175 | 0.749 | 1 | 51260 | CXorf26 |
| 0.043475557 | 0.530646951 | 0.755 | 1 | 93621 | MRFAP1 |
| 0.043467782 | 0.530720507 | 0.75 | 1 | 3981 | LIG4 |
| 0.043462599 | 0.530769548 | 0.753 | 1 | 286827 | TRIM59 |
| 0.043393922 | 0.53141955 | 0.75 | 1 | 84925 | DIRC2 |
| 0.043351161 | 0.531824471 | 0.744 | 1 | 11144 | DMC1 |
| 0.043248794 | 0.532794458 | 0.737 | 1 | 5122 | PCSK1 |
| 0.043241019 | 0.532868165 | 0.744 | 1 | 79925 | SPEF2 |
| 0.043217695 | 0.533089314 | 0.757 | 1 | 51185 | CRBN |
| 0.043216399 | 0.533101602 | 0.712 | 1 | 283212 | KLHL35 |
| 0.043209921 | 0.533163041 | 0.742 | 1 | 285489 | DOK7 |
| 0.043178822 | 0.533458 | 0.745 | 1 | 4860 | PNP |
| 0.043168455 | 0.533556337 | 0.735 | 1 | 90701 | SEC11C |
| 0.043114032 | 0.53407276 | 0.752 | 1 | 9651 | PLCH2 |
| 0.043107553 | 0.534134255 | 0.749 | 1 | 4277 | MICB |
| 0.043098483 | 0.534220355 | 0.764 | 1 | 11155 | LDB3 |
| 0.043084229 | 0.534355669 | 0.757 | 1 | 55432 | YOD1 |
| 0.043084229 | 0.534355669 | 0.768 | 1 | 90249 | UNC5A |
| 0.043063497 | 0.534552519 | 0.734 | 1 | 8347 | HIST1H2BC |

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| 0.021737771 | 3.40095E-14 | 5296 | PIK3R2 |
| 0.021729454 | 3.47788E-14 | 221409 | SPATS1 |
| 0.021727344 | 3.49766E-14 | 26137 | ZBTB20 |
| 0.021703559 | 3.7285E-14 | 9066 | SYT7 |
| 0.021699878 | 3.76554E-14 | 1496 | CTNNA2 |
| 0.021688301 | 3.88441E-14 | 84278 | HIATL2 |
| 0.021682554 | 3.94478E-14 | 23350 | SR140 |
| 0.021672627 | 4.05124E-14 | 4191 | MDH2 |
| 0.021671324 | 4.06542E-14 | 59349 | KLHL12 |
| 0.021666918 | 4.11373E-14 | 5901 | RAN |
| 0.021666246 | 4.12115E-14 | 9334 | B4GALT5 |
| 0.02164814 | 4.32606E-14 | 9797 | TATDN2 |
| 0.021642243 | 4.39494E-14 | 55286 | C4orf19 |
| 0.021625569 | 4.59559E-14 | 85363 | TRIM5 |
| 0.02162272 | 4.63076E-14 | 55218 | EXD2 |
| 0.021609359 | 4.79926E-14 | 387071 | FAM136BP |
| 0.021497667 | 6.46513E-14 | 57134 | MAN1C1 |
| 0.021487222 | 6.64729E-14 | 100129583 | FAM47E |
| 0.02146088 | 7.12943E-14 | 338657 | CCDC84 |
| 0.021451858 | 7.30233E-14 | 283897 | C16orf54 |
| 0.021448484 | 7.36803E-14 | 375484 | C5orf25 |
| 0.021448004 | 7.37744E-14 | 6821 | SUOX |
| 0.021443419 | 7.46779E-14 | 11212 | PROSC |
| 0.021439633 | 7.5432E-14 | 84069 | PLEKHN1 |
| 0.021432989 | 7.67738E-14 | 55845 | BRK1 |
| 0.02143178 | 7.70205E-14 | 57687 | VAT1L |
| 0.021419725 | 7.9523E-14 | 130612 | TMEM198 |
| 0.021414296 | 8.06758E-14 | 348938 | NIPAL4 |
| 0.021411738 | 8.12248E-14 | 56099 | PCDHGB7 |
| 0.021402652 | 8.32044E-14 | 30851 | TAX1BP3 |
| 0.021396716 | 8.4523E-14 | 221 | ALDH3B1 |
| 0.021364248 | 9.21083E-14 | 84871 | AGBL4 |
| 0.021355036 | 9.43799E-14 | 7781 | SLC30A3 |
| 0.021354816 | 9.44347E-14 | 474344 | GIMAP6 |
| 0.021349392 | 9.57986E-14 | 5356 | PLRG1 |
| 0.02131982 | 1.03582E-13 | 80012 | PHC3 |
| 0.021309751 | 1.06371E-13 | 342527 | SMTNL2 |
| 0.021294641 | 1.10696E-13 | 7024 | TFCP2 |
| 0.021290369 | 1.1195E-13 | 414152 | C10orf105 |
| 0.021265296 | 1.19594E-13 | 2217 | FCGRT |
| 0.021264154 | 1.19955E-13 | 84883 | AIFM2 |
| 0.021257946 | 1.21931E-13 | 5009 | OTC |
| 0.021252848 | 1.23578E-13 | 201798 | TIGD4 |
| 0.021252144 | 1.23807E-13 | 5147 | PDE6D |
| 0.021238458 | 1.28346E-13 | 57580 | PREX1 |
| 0.021195657 | 1.43622E-13 | 2622 | GAS8 |
| 0.021171637 | 1.52963E-13 | 1612 | DAPK1 |
| 0.02116746 | 1.54648E-13 | 57610 | RANBP10 |
| 0.021167415 | 1.54666E-13 | 10623 | POLR3C |
| 0.021165402 | 1.55484E-13 | 8732 | RNGTT |
| 0.021158635 | 1.58266E-13 | 80757 | TMEM121 |
| 0.02111416 | 1.77808E-13 | 54458 | PRR13 |
| 0.021110315 | 1.79604E-13 | 1236 | CCR7 |
| 0.021106633 | 1.81341E-13 | 92344 | GORAB |
| 0.02109831 | 1.8533E-13 | 64061 | TSPYL2 |
| 0.021093925 | 1.87465E-13 | 55604 | LRRC16A |
| 0.021079616 | 1.94603E-13 | 388722 | C1orf53 |
| 0.021075071 | 1.96926E-13 | 401115 | C4orf48 |
| 0.021058983 | 2.05369E-13 | 503693 | LOH12CR2 |
| 0.0210537 | 2.08218E-13 | 7696 | ZNF137P |
| 0.021045269 | 2.12847E-13 | 727830 | FAM75A3 |
| 0.021028982 | 2.22074E-13 | 7165 | TPD52L2 |
| 0.021019384 | 2.27695E-13 | 277 | AMY1B |
| 0.020972347 | 2.57326E-13 | 7320 | UBE2B |
| 0.020965797 | 2.63211E-13 | 150356 | CHADL |
| 0.020946828 | 2.74954E-13 | 219699 | UNC5B |
| 0.020944626 | 2.7653E-13 | 2939 | GSTA2 |
| 0.020916329 | 2.97583E-13 | 4192 | MDK |
| 0.02090468 | 3.06701E-13 | 79863 | RBFA |
| 0.020901757 | 3.09031E-13 | 374986 | FAM73A |
| 0.020882357 | 3.24945E-13 | 286140 | RNF5P1 |
| 0.020871655 | 3.34586E-13 | 6861 | SYT5 |
| 0.020866412 | 3.38627E-13 | 23581 | CASP14 |
| 0.020864062 | 3.4069E-13 | 9 | NAT1 |
| 0.020858423 | 3.45692E-13 | 64789 | DEM1 |
| 0.020856276 | 3.47615E-13 | 254122 | SNX32 |
| 0.020850692 | 3.52667E-13 | 384 | ARG2 |
| 0.020838328 | 3.6411E-13 | 440072 | LINC00167 |
| 0.020832149 | 3.69965E-13 | 2218 | FKTN |
| 0.020823258 | 3.78553E-13 | 9443 | MED7 |
| 0.020790174 | 4.12259E-13 | 90557 | CCDC74A |
| 0.020789613 | 4.12855E-13 | 205 | AK3L1 |

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| 0.043037581 | 0.534798634 | 0.76 | 1 | 196051 | PPAPDC1A |
| 0.043036285 | 0.534810941 | 0.762 | 1 | 338398 | TAS2R60 |
| 0.043012961 | 0.535032495 | 0.791 | 1 | 25799 | ZNF324 |
| 0.042935214 | 0.535771342 | 0.737 | 1 | 22994 | AZI1 |
| 0.042927439 | 0.535845255 | 0.762 | 1 | 221613 | HIST1H2AA |
| 0.04292096 | 0.535906852 | 0.766 | 1 | 7260 | TSSC1 |
| 0.042913186 | 0.535980774 | 0.778 | 1 | 4283 | CXCL9 |
| 0.042822481 | 0.536843576 | 0.777 | 1 | 1368 | CPM |
| 0.042806931 | 0.536991555 | 0.748 | 1 | 4929 | NR4A2 |
| 0.04280434 | 0.53701622 | 0.754 | 1 | 26025 | PCDHGA12 |
| 0.042801748 | 0.537040885 | 0.752 | 1 | 83744 | ZNF484 |
| 0.042791382 | 0.537139554 | 0.778 | 1 | 117143 | TADA1L |
| 0.042766762 | 0.537373927 | 0.742 | 1 | 25825 | BACE2 |
| 0.042724001 | 0.537781118 | 0.765 | 1 | 122183 | PRR20 |
| 0.04269031 | 0.538102043 | 0.748 | 1 | 22835 | ZFP30 |
| 0.042672169 | 0.538274889 | 0.764 | 1 | 100289274 | DNAJC3-AS1 |
| 0.042661803 | 0.53837367 | 0.765 | 1 | 388021 | TMEM179 |
| 0.042639775 | 0.538583611 | 0.769 | 1 | 55833 | UBAP2 |
| 0.042620338 | 0.538768886 | 0.745 | 1 | 9104 | RGN |
| 0.042602197 | 0.538941839 | 0.738 | 1 | 10052 | GJC1 |
| 0.042563323 | 0.539312544 | 0.773 | 1 | 83449 | PMFBP1 |
| 0.042521858 | 0.539708104 | 0.775 | 1 | 7134 | TNNC1 |
| 0.042422083 | 0.54066051 | 0.749 | 1 | 51301 | GCNT4 |
| 0.042407829 | 0.540796636 | 0.76 | 1 | 55698 | RADIL |
| 0.042397463 | 0.540895648 | 0.772 | 1 | 167838 | TXLNB |
| 0.042332674 | 0.541514674 | 0.769 | 1 | 51547 | SIRT7 |
| 0.042326195 | 0.541576596 | 0.765 | 1 | 54948 | MRPL16 |
| 0.042314533 | 0.541688064 | 0.763 | 1 | 5861 | RAB1A |
| 0.042310645 | 0.541725223 | 0.762 | 1 | 79877 | DCAKD |
| 0.042275659 | 0.542059708 | 0.764 | 1 | 29942 | PURG |
| 0.042248447 | 0.542319934 | 0.787 | 1 | 4210 | MEFV |
| 0.042238081 | 0.542419084 | 0.725 | 1 | 253152 | EPHX4 |
| 0.042177179 | 0.543001771 | 0.766 | 1 | 219 | ALDH1B1 |
| 0.042162926 | 0.543138189 | 0.76 | 1 | 2946 | GSTM2 |
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| 0.042139601 | 0.543361456 | 0.757 | 1 | 85364 | ZCCHC3 |
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| 0.041991882 | 0.544776532 | 0.776 | 1 | 117289 | TAGAP |
| 0.04196467 | 0.545037403 | 0.78 | 1 | 374882 | TMEM205 |
| 0.041884332 | 0.545807951 | 0.756 | 1 | 11283 | CYP4F8 |
| 0.041877853 | 0.545870116 | 0.777 | 1 | 4843 | NOS2 |
| 0.041850641 | 0.546131245 | 0.756 | 1 | 387758 | FIBIN |
| 0.041827317 | 0.546355118 | 0.76 | 1 | 219869 | OR10G8 |
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| 0.041745683 | 0.547139032 | 0.762 | 1 | 30820 | KCNIP1 |
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| 0.041730133 | 0.547288411 | 0.738 | 1 | 196743 | PAOX |
| 0.041710696 | 0.547475164 | 0.764 | 1 | 582 | BBS1 |
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| 0.041695147 | 0.547624589 | 0.759 | 1 | 728045 | PPBPP1 |
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| 0.041574639 | 0.54878331 | 0.79 | 1 | 64110 | MAGEF1 |
| 0.041561681 | 0.548907975 | 0.782 | 1 | 54960 | GEMIN8 |
| 0.041553906 | 0.548982781 | 0.791 | 1 | 11013 | TMSB15A |
| 0.041525399 | 0.549257112 | 0.784 | 1 | 51023 | MRPS18C |
| 0.041516329 | 0.549344413 | 0.778 | 1 | 79801 | SHCBP1 |
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| 0.04143599 | 0.55011795 | 0.777 | 1 | 22809 | ATF5 |
| 0.041371201 | 0.550742158 | 0.779 | 1 | 9552 | SPAG7 |
| 0.041341397 | 0.55102941 | 0.773 | 1 | 5683 | PSMA2 |
| 0.041341397 | 0.55102941 | 0.771 | 1 | 60561 | RINT1 |
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| 0.04128827 | 0.551541649 | 0.768 | 1 | 11062 | DUS4L |
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| 0.041236439 | 0.55204162 | 0.765 | 1 | 644890 | MEIG1 |
| 0.041233847 | 0.552066624 | 0.8 | 1 | 56995 | TULP4 |
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| 0.040979873 | 0.554519727 | 0.756 | 1 | 79101 | TAF1D |
| 0.040972098 | 0.554594905 | 0.779 | 1 | 6754 | SSTR4 |
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| 0.040872323 | 0.555560136 | 0.77 | 1 | 56006 | C19orf61 |
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| 0.020788331 | 4.14221E-13 | 56981 | PRDM11 |
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| 0.020781456 | 4.21621E-13 | 57657 | HCN3 |
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| 0.02076219 | 4.43058E-13 | 285313 | IGSF10 |
| 0.020734914 | 4.75247E-13 | 255057 | C19orf26 |
| 0.020723458 | 4.8944E-13 | 144699 | FBXL14 |
| 0.020704235 | 5.142E-13 | 6711 | SPTBN1 |
| 0.020702756 | 5.16154E-13 | 147968 | CAPN12 |
| 0.02070226 | 5.16812E-13 | 1641 | DCX |
| 0.020670936 | 5.60029E-13 | 50649 | ARHGEF4 |
| 0.020669955 | 5.61438E-13 | 53904 | MYO3A |
| 0.020663698 | 5.70508E-13 | 89780 | WNT3A |
| 0.020658323 | 5.78416E-13 | 8891 | EIF2B3 |
| 0.020635481 | 6.13234E-13 | 93643 | TJAP1 |
| 0.020627687 | 6.2558E-13 | 147525 | LINC00526 |
| 0.020625859 | 6.2851E-13 | 51506 | UFC1 |
| 0.020617885 | 6.41453E-13 | 6662 | SOX9 |
| 0.020614021 | 6.47818E-13 | 5294 | PIK3CG |
| 0.020585095 | 6.97478E-13 | 154043 | CNKSR3 |
| 0.020575883 | 7.14063E-13 | 6913 | TBX15 |
| 0.020558728 | 7.45988E-13 | 7101 | NR2E1 |
| 0.020542648 | 7.77181E-13 | 25945 | PVRL3 |
| 0.020538415 | 7.85604E-13 | 55795 | PCID2 |
| 0.020500739 | 8.64626E-13 | 219970 | GLYATL2 |
| 0.02049214 | 8.83726E-13 | 994 | CDC25B |
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| 0.020471319 | 9.31707E-13 | 283659 | PRTG |
| 0.020453258 | 9.75391E-13 | 6130 | RPL7A |
| 0.0204328 | 1.03278E-12 | 85450 | ITPRIP |
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| 0.020396024 | 1.12753E-12 | 8347 | HIST1H2BC |
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| 0.020366842 | 1.21383E-12 | 10559 | SLC35A1 |
| 0.020346045 | 1.27926E-12 | 28976 | ACAD9 |
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| 0.020322849 | 1.35632E-12 | 85294 | KRTAP2-4 |
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| 0.020248061 | 1.6371E-12 | 6231 | RPS26P20 |
| 0.020237249 | 1.68216E-12 | 79711 | IPO4 |
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| 0.020138503 | 2.15406E-12 | 9413 | C9orf61 |
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| 0.020118969 | 2.26174E-12 | 6446 | SGK1 |
| 0.02010494 | 2.34231E-12 | 113791 | PIK3IP1 |
| 0.020101474 | 2.36264E-12 | 3930 | LBR |
| 0.02009436 | 2.40492E-12 | 388969 | C2orf68 |
| 0.020085363 | 2.45947E-12 | 22883 | CLSTN1 |
| 0.020082224 | 2.47878E-12 | 55815 | TSNAXIP1 |
| 0.020074995 | 2.52382E-12 | 5551 | PRF1 |
| 0.020052032 | 2.67229E-12 | 253559 | CADM2 |
| 0.020043878 | 2.72705E-12 | 85300 | ATCAY |
| 0.020029771 | 2.82439E-12 | 29914 | UBIAD1 |
| 0.020027348 | 2.84145E-12 | 5933 | RBL1 |
| 0.02001498 | 2.9301E-12 | 143 | PARP4 |
| 0.019983806 | 3.16578E-12 | 56252 | YLPM1 |
| 0.019961869 | 3.34267E-12 | 6372 | CXCL6 |
| 0.019960592 | 3.35326E-12 | 729603 | LOC729603 |
| 0.019955848 | 3.39289E-12 | 4647 | MYO7A |
| 0.01994285 | 3.50384E-12 | 400831 | RP4-545L17.1 |
| 0.019932771 | 3.59232E-12 | 11144 | DMC1 |
| 0.019906873 | 3.82984E-12 | 924 | CD7 |
| 0.019906833 | 3.83022E-12 | 494197 | SPANXN5 |
| 0.019900146 | 3.89401E-12 | 723972 | ANP32AP1 |
| 0.019893697 | 3.95652E-12 | 121601 | AC079953.2 |
| 0.019858994 | 4.31016E-12 | 4869 | NPM1 |
| 0.019843464 | 4.52168E-12 | 7368 | UGT8 |
| 0.019832774 | 4.59773E-12 | 100130522 | PARD6G-AS1 |
| 0.019805533 | 4.91642E-12 | 1838 | DTNB |
| 0.019789233 | 5.11736E-12 | 2209 | FCGR1A |
| 0.019779638 | 5.23937E-12 | 2115 | ETV1 |
| 0.019775845 | 5.2884E-12 | 9245 | GCNT3 |
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| 0.040859365 | 0.555685551 | 0.77 | 1 | 4481 | MSR1 |
| 0.040855478 | 0.555723178 | 0.763 | 1 | 8379 | MAD1L1 |
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| 0.040803646 | 0.55622499 | 0.767 | 1 | 152 | ADRA2C |
| 0.040802351 | 0.556237538 | 0.796 | 1 | 54965 | PIGX |
| 0.040742744 | 0.5568149 | 0.753 | 1 | 7174 | TPP2 |
| 0.040610574 | 0.558096172 | 0.774 | 1 | 51561 | IL23A |
| 0.040579475 | 0.558397855 | 0.764 | 1 | 84069 | PLEKHN1 |
| 0.040545785 | 0.558724767 | 0.805 | 1 | 84078 | KBTBD7 |
| 0.040500432 | 0.559164986 | 0.784 | 1 | 392352 | LOC392352 |
| 0.040247754 | 0.561620701 | 0.775 | 1 | 25900 | IFFO1 |
| 0.040195923 | 0.562125077 | 0.784 | 1 | 54913 | RPP25 |
| 0.040153162 | 0.562541352 | 0.79 | 1 | 7258 | TSPY1 |
| 0.040149275 | 0.562579202 | 0.775 | 1 | 339778 | C2orf70 |
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| 0.040128542 | 0.562781092 | 0.781 | 1 | 1266 | CNN3 |
| 0.040120767 | 0.56285681 | 0.809 | 1 | 10647 | SCGB1D2 |
| 0.040107809 | 0.562983017 | 0.779 | 1 | 89885 | FATE1 |
| 0.040070232 | 0.563349093 | 0.76 | 1 | 9748 | SLK |
| 0.040054682 | 0.563500607 | 0.776 | 1 | 4825 | NKX6-1 |
| 0.040015809 | 0.563879476 | 0.764 | 1 | 157695 | C8orf42 |
| 0.040014513 | 0.563892107 | 0.779 | 1 | 8736 | MYOM1 |
| 0.039895301 | 0.565054745 | 0.807 | 1 | 79875 | THSD4 |
| 0.039871976 | 0.565282352 | 0.767 | 1 | 25814 | ATXN10 |
| 0.039868089 | 0.565320291 | 0.785 | 1 | 6251 | RSU1 |
| 0.039859019 | 0.565408819 | 0.782 | 1 | 3270 | HRC |
| 0.03985254 | 0.565472058 | 0.775 | 1 | 114132 | SIGLEC11 |
| 0.03982792 | 0.565712395 | 0.773 | 1 | 9450 | LY86 |
| 0.039817553 | 0.565813604 | 0.755 | 1 | 6366 | CCL21 |
| 0.039782567 | 0.56615525 | 0.783 | 1 | 51611 | DPH5 |
| 0.039761835 | 0.566357753 | 0.774 | 1 | 51168 | MYO15A |
| 0.039734623 | 0.56662359 | 0.784 | 1 | 115548 | FCHO2 |
| 0.039716482 | 0.566800849 | 0.776 | 1 | 29090 | C18orf55 |
| 0.039694454 | 0.567016126 | 0.782 | 1 | 64782 | AEN |
| 0.039602453 | 0.567915647 | 0.789 | 1 | 133686 | C5orf33 |
| 0.039579129 | 0.568143803 | 0.805 | 1 | 51013 | EXOSC1 |
| 0.039551917 | 0.568410039 | 0.775 | 1 | 4170 | MCL1 |
| 0.039549326 | 0.568435398 | 0.781 | 1 | 285780 | LY86-AS1 |
| 0.039542847 | 0.568498798 | 0.779 | 1 | 84687 | PPP1R9B |
| 0.039444367 | 0.569462888 | 0.786 | 1 | 7813 | EVI5 |
| 0.039437888 | 0.569526342 | 0.784 | 1 | 5272 | SERPINB9 |
| 0.039431409 | 0.5695898 | 0.775 | 1 | 80763 | C12orf39 |
| 0.03942493 | 0.56965326 | 0.795 | 1 | 10440 | TIMM17A |
| 0.039404198 | 0.569856358 | 0.807 | 1 | 84681 | HINT2 |
| 0.039402902 | 0.569869052 | 0.788 | 1 | 3836 | KPNA1 |
| 0.039387352 | 0.5700214 | 0.799 | 1 | 10569 | SLU7 |
| 0.039362733 | 0.570262655 | 0.791 | 1 | 112495 | GTF3C6 |
| 0.039353662 | 0.570351551 | 0.794 | 1 | 7357 | UGCG |
| 0.039347183 | 0.570415052 | 0.815 | 1 | 58515 | RP11-884K10.1 |
| 0.039345887 | 0.570427753 | 0.757 | 1 | 1123 | CHN1 |
| 0.039326451 | 0.570618278 | 0.795 | 1 | 10181 | RBM5 |
| 0.039319972 | 0.570681794 | 0.769 | 1 | 29103 | DNAJC15 |
| 0.03930831 | 0.570796129 | 0.792 | 1 | 51659 | GINS2 |
| 0.039281098 | 0.571062955 | 0.765 | 1 | 1786 | DNMT1 |
| 0.039235746 | 0.571507795 | 0.757 | 1 | 84706 | GPT2 |
| 0.039227971 | 0.57158407 | 0.769 | 1 | 23001 | WDFY3 |
| 0.039208534 | 0.571774778 | 0.777 | 1 | 64092 | SAMSN1 |
| 0.039205942 | 0.571800208 | 0.792 | 1 | 203328 | SUSD3 |
| 0.039205942 | 0.571800208 | 0.779 | 1 | 388799 | C20orf107 |
| 0.039129491 | 0.572550635 | 0.789 | 1 | 347918 | EP400NL |
| 0.039112646 | 0.572716045 | 0.762 | 1 | 26032 | SUSD5 |
| 0.039099688 | 0.5728433 | 0.773 | 1 | 23309 | SIN3B |
| 0.039058223 | 0.573250603 | 0.793 | 1 | 7592 | ZNF41 |
| 0.039043969 | 0.573390645 | 0.812 | 1 | 22849 | CPEB3 |
| 0.03903749 | 0.573454306 | 0.77 | 1 | 2747 | GLUD2 |
| 0.039016758 | 0.573658043 | 0.791 | 1 | 84181 | CHD6 |
| 0.039006391 | 0.573759924 | 0.788 | 1 | 548593 | GIYD2 |
| 0.038964926 | 0.574167535 | 0.758 | 1 | 10302 | SNAPC5 |
| 0.038937715 | 0.574435103 | 0.794 | 1 | 23635 | SSBP2 |
| 0.038869038 | 0.575110656 | 0.788 | 1 | 202915 | TMEM184A |
| 0.038866447 | 0.575136156 | 0.79 | 1 | 1201 | CLN3 |
| 0.038861263 | 0.575187157 | 0.781 | 1 | 79081 | C11orf48 |
| 0.03885608 | 0.575238161 | 0.808 | 1 | 118980 | SFXN2 |
| 0.038836644 | 0.575429443 | 0.791 | 1 | 54629 | FAM63B |
| 0.038828869 | 0.575505964 | 0.807 | 1 | 151477 | LINC00471 |
| 0.038819798 | 0.575595244 | 0.78 | 1 | 5480 | PPIC |
| 0.038793883 | 0.575850368 | 0.792 | 1 | 8508 | NIPSNAP1 |
| 0.038788699 | 0.575901399 | 0.797 | 1 | 3592 | IL12A |
| 0.038775742 | 0.576028986 | 0.791 | 1 | 54921 | CHTF8 |
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| 0.01944742 | 1.17674E-11 | 6576 | SLC25A1 |
| 0.019443656 | 1.18749E-11 | 1356 | CP |
| 0.019434342 | 1.2145E-11 | 11143 | MYST2 |
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| 0.019413967 | 1.2757E-11 | 58473 | PLEKHB1 |
| 0.019410694 | 1.2858E-11 | 162963 | ZNF610 |
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| 0.019398742 | 1.32339E-11 | 348327 | ZNF530 |
| 0.019398451 | 1.32432E-11 | 4144 | MAT2A |
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| 0.019375524 | 1.3995E-11 | 7643 | ZNF90 |
| 0.019374034 | 1.40453E-11 | 5347 | PLK1 |
| 0.019368894 | 1.42201E-11 | 27148 | STK36 |
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| 0.019332562 | 1.55181E-11 | 23353 | UNC84A |
| 0.019327529 | 1.57068E-11 | 57663 | USP29 |
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| 0.019284644 | 1.74087E-11 | 57699 | CPNE5 |
| 0.019281647 | 1.75341E-11 | 9218 | VAPA |
| 0.019258221 | 1.85458E-11 | 64180 | DPEP3 |
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| 0.01920509 | 2.10568E-11 | 63946 | DMRTC2 |
| 0.019198002 | 2.1416E-11 | 22838 | RNF44 |
| 0.019195289 | 2.15551E-11 | 2696 | GIPR |
| 0.019179439 | 2.23854E-11 | 644192 | RP11-327J17.3 |
| 0.019168922 | 2.29535E-11 | 91179 | SCARF2 |
| 0.019168141 | 2.29962E-11 | 164 | AP1G1 |
| 0.019162441 | 2.33106E-11 | 8712 | PAGE1 |
| 0.019161976 | 2.33364E-11 | 957 | ENTPD5 |
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| 0.019140475 | 2.45619E-11 | 64850 | AGXT2L1 |
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| 0.019111356 | 2.63224E-11 | 55707 | NECAP2 |
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| 0.019101136 | 2.69691E-11 | 10133 | OPTN |
| 0.019091204 | 2.76125E-11 | 126969 | SLC44A3 |
| 0.019090817 | 2.76379E-11 | 84186 | ZCCHC7 |
| 0.019090683 | 2.76467E-11 | 80149 | ZC3H12A |
| 0.019083777 | 2.81034E-11 | 3911 | LAMA5 |
| 0.019077734 | 2.85091E-11 | 1593 | CYP27A1 |
| 0.019066909 | 2.92503E-11 | 57497 | LRFN2 |
| 0.019056304 | 2.99946E-11 | 80131 | LRRC8E |

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| 0.038744643 | 0.576335249 | 0.787 | 1 | 2972 | BRF1 |
| 0.03869022 | 0.576871393 | 0.784 | 1 | 100049716 | AC021054.1 |
| 0.038657825 | 0.577190637 | 0.78 | 1 | 6688 | SPI1 |
| 0.038646163 | 0.577305585 | 0.801 | 1 | 1633 | DCK |
| 0.038638388 | 0.577382223 | 0.8 | 1 | 10607 | TBL3 |
| 0.038638388 | 0.577382223 | 0.786 | 1 | 83638 | C11orf68 |
| 0.03855805 | 0.578174429 | 0.798 | 1 | 10683 | DLL3 |
| 0.038551571 | 0.578238339 | 0.775 | 1 | 56121 | PCDHB15 |
| 0.038543796 | 0.578315035 | 0.79 | 1 | 10412 | NSA2 |
| 0.038538613 | 0.578366168 | 0.784 | 1 | 6039 | RNASE6 |
| 0.038394781 | 0.57978596 | 0.788 | 1 | 5604 | MAP2K1 |
| 0.038387006 | 0.579862752 | 0.768 | 1 | 151651 | EFHB |
| 0.03838571 | 0.579875551 | 0.781 | 1 | 404093 | CUEDC1 |
| 0.038377935 | 0.579952348 | 0.8 | 1 | 9183 | ZW10 |
| 0.038371456 | 0.58001635 | 0.785 | 1 | 56344 | CABP5 |
| 0.038364978 | 0.580080354 | 0.78 | 1 | 79087 | ALG12 |
| 0.038350724 | 0.580221176 | 0.783 | 1 | 84189 | SLITRK6 |
| 0.038342949 | 0.580297995 | 0.789 | 1 | 54815 | GATAD2A |
| 0.03831185 | 0.580605317 | 0.788 | 1 | 54809 | SAMD9 |
| 0.038289822 | 0.580823049 | 0.79 | 1 | 84815 | MGC12916 |
| 0.038288526 | 0.580835858 | 0.756 | 1 | 26574 | AATF |
| 0.038169314 | 0.582014845 | 0.767 | 1 | 79785 | RERGL |
| 0.038153764 | 0.582168708 | 0.783 | 1 | 3758 | KCNJ1 |
| 0.038086384 | 0.582835666 | 0.766 | 1 | 114801 | TMEM200A |
| 0.038074721 | 0.582951137 | 0.776 | 1 | 79874 | RABEP2 |
| 0.038061764 | 0.58307945 | 0.782 | 1 | 79650 | C16orf57 |
| 0.038011228 | 0.583579998 | 0.783 | 1 | 441168 | FAM26F |
| 0.03799827 | 0.583708375 | 0.778 | 1 | 7060 | THBS4 |
| 0.03793996 | 0.584286236 | 0.805 | 1 | 55929 | DMAP1 |
| 0.037930889 | 0.58437615 | 0.813 | 1 | 132660 | LIN54 |
| 0.037880354 | 0.584877212 | 0.796 | 1 | 6788 | AP003355.2 |
| 0.037844072 | 0.585237072 | 0.798 | 1 | 126969 | SLC44A3 |
| 0.037806494 | 0.585609892 | 0.784 | 1 | 57162 | PELI1 |
| 0.037761141 | 0.586059992 | 0.789 | 1 | 26341 | OR5H1 |
| 0.037731338 | 0.58635586 | 0.792 | 1 | 646517 | LOC646517 |
| 0.037710606 | 0.586561721 | 0.792 | 1 | 79912 | PYROXD1 |
| 0.037708014 | 0.586587456 | 0.801 | 1 | 283303 | C11ORF36 |
| 0.037701535 | 0.586651796 | 0.812 | 1 | 283848 | CES8 |
| 0.037661366 | 0.587050775 | 0.766 | 1 | 10964 | IFI44L |
| 0.037648408 | 0.587179505 | 0.769 | 1 | 84570 | COL25A1 |
| 0.037636746 | 0.587295373 | 0.809 | 1 | 284325 | C19orf54 |
| 0.037634154 | 0.587321123 | 0.785 | 1 | 387849 | REP15 |
| 0.037617309 | 0.58748851 | 0.777 | 1 | 3176 | HNMT |
| 0.037616013 | 0.587501386 | 0.785 | 1 | 2934 | GSN |
| 0.037596577 | 0.587694554 | 0.812 | 1 | 148252 | DIRAS1 |
| 0.037583619 | 0.587823349 | 0.799 | 1 | 1870 | E2F2 |
| 0.03756159 | 0.588042329 | 0.78 | 1 | 9705 | ST18 |
| 0.037501984 | 0.588635053 | 0.815 | 1 | 79165 | LENG1 |
| 0.037486435 | 0.588789722 | 0.777 | 1 | 10352 | WARS2 |
| 0.037433308 | 0.589318314 | 0.797 | 1 | 759 | CA1 |
| 0.037376293 | 0.589885826 | 0.816 | 1 | 91801 | ALKBH8 |
| 0.037323166 | 0.59041487 | 0.784 | 1 | 146395 | GSG1L |
| 0.037257081 | 0.591073251 | 0.8 | 1 | 116985 | ARAP1 |
| 0.037251898 | 0.591124903 | 0.775 | 1 | 59285 | CACNG6 |
| 0.037218207 | 0.591460691 | 0.786 | 1 | 79570 | NKAIN1 |
| 0.037185812 | 0.591783646 | 0.803 | 1 | 5817 | PVR |
| 0.037185812 | 0.591783646 | 0.8 | 1 | 85009 | MGC16025 |
| 0.037171559 | 0.591925772 | 0.802 | 1 | 23082 | PPRC1 |
| 0.037163784 | 0.592003301 | 0.785 | 1 | 3098 | HK1 |
| 0.037163784 | 0.592003301 | 0.81 | 1 | 3783 | KCNN4 |
| 0.037093812 | 0.592701277 | 0.79 | 1 | 90632 | LINC00473 |
| 0.036951275 | 0.594124239 | 0.825 | 1 | 58529 | MYOZ1 |
| 0.036942205 | 0.594214844 | 0.776 | 1 | 652968 | GATSL3 |
| 0.036902035 | 0.594616169 | 0.771 | 1 | 2053 | EPHX2 |
| 0.036773753 | 0.595898644 | 0.772 | 1 | 387357 | THEMIS |
| 0.036727104 | 0.596365309 | 0.768 | 1 | 29028 | ATAD2 |
| 0.036638991 | 0.597247239 | 0.773 | 1 | 81858 | SHARPIN |
| 0.036638991 | 0.597247239 | 0.78 | 1 | 131405 | TRIM71 |
| 0.036585864 | 0.597779275 | 0.774 | 1 | 29 | ABR |
| 0.036540511 | 0.598233622 | 0.784 | 1 | 55116 | TMEM39B |
| 0.03648868 | 0.598753067 | 0.802 | 1 | 55832 | CAND1 |
| 0.036479609 | 0.598843991 | 0.818 | 1 | 9362 | CPNE6 |
| 0.036469243 | 0.598947911 | 0.789 | 1 | 8646 | CHRD |
| 0.036457581 | 0.599064831 | 0.787 | 1 | 22981 | NINL |
| 0.03643944 | 0.599246728 | 0.793 | 1 | 28981 | IFT81 |
| 0.036430369 | 0.599337685 | 0.778 | 1 | 6727 | SRP14 |
| 0.03642389 | 0.599402659 | 0.809 | 1 | 126208 | ZNF787 |
| 0.036420003 | 0.599441644 | 0.786 | 1 | 9033 | PKD2L1 |
| 0.036408341 | 0.599558608 | 0.798 | 1 | 9881 | LBA1 |
| 0.0363902 | 0.599740572 | 0.805 | 1 | 284312 | ZSCAN1 |
| 0.036366876 | 0.599974562 | 0.762 | 1 | 25914 | RTTN |
| 0.036350031 | 0.60014358 | 0.784 | 1 | 54802 | TRIT1 |

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| 0.019048143 | 3.05801E-11 | 54470 | ARMCX6 |
| 0.019039317 | 3.12258E-11 | 25854 | FAM149A |
| 0.019031311 | 3.1823E-11 | 85013 | TMEM128 |
| 0.019029479 | 3.19613E-11 | 26175 | C14orf109 |
| 0.019014548 | 3.311E-11 | 2168 | FABP1 |
| 0.019009449 | 3.35115E-11 | 81844 | TRIM56 |
| 0.019008259 | 3.36059E-11 | 338382 | RAB7B |
| 0.018999755 | 3.4288E-11 | 50485 | SMARCAL1 |
| 0.018988917 | 3.51769E-11 | 223075 | CCDC129 |
| 0.018973571 | 3.64743E-11 | 547 | KIF1A |
| 0.018963527 | 3.73486E-11 | 58517 | RBM25 |
| 0.018960918 | 3.75791E-11 | 54840 | APTX |
| 0.018960723 | 3.75963E-11 | 5194 | PEX13 |
| 0.018959221 | 4.16798E-11 | 100131138 | AC002351.1 |
| 0.018944967 | 3.90186E-11 | 64834 | ELOVL1 |
| 0.018944158 | 3.9093E-11 | 256471 | MFSD8 |
| 0.018930313 | 4.03885E-11 | 4201 | MEA1 |
| 0.018929937 | 4.04243E-11 | 348021 | LINC00442 |
| 0.018920685 | 4.13142E-11 | 3761 | KCNJ4 |
| 0.018900763 | 4.32957E-11 | 11221 | DUSP10 |
| 0.018891174 | 4.42824E-11 | 6447 | SCG5 |
| 0.018876218 | 4.58654E-11 | 23542 | MAPK8IP2 |
| 0.018873974 | 4.61077E-11 | 148066 | ZNRF4 |
| 0.018867738 | 4.67874E-11 | 885 | CCK |
| 0.018856066 | 4.80861E-11 | 521 | ATP5I |
| 0.018852655 | 4.84723E-11 | 286514 | MAGEB18 |
| 0.018841284 | 4.97816E-11 | 10810 | WASF3 |
| 0.018836214 | 5.03765E-11 | 5532 | PPP3CB |
| 0.018828194 | 5.13318E-11 | 7693 | ZNF134 |
| 0.018820861 | 5.22208E-11 | 130576 | LYPD6B |
| 0.018811327 | 5.33991E-11 | 6834 | SURF1 |
| 0.018801094 | 5.46927E-11 | 23315 | SLC9A8 |
| 0.018795475 | 5.54159E-11 | 2353 | FOS |
| 0.01878131 | 5.72812E-11 | 611 | OPN1SW |
| 0.01878047 | 5.73937E-11 | 146691 | TOM1L2 |
| 0.018779871 | 5.7474E-11 | 9287 | TAAR2 |
| 0.01876457 | 5.95647E-11 | 148362 | BROX |
| 0.018723027 | 6.56233E-11 | 79839 | CCDC102B |
| 0.018709984 | 6.76469E-11 | 84002 | B3GNT5 |
| 0.018703104 | 6.87388E-11 | 10868 | USP20 |
| 0.018691771 | 7.0575E-11 | 598 | BCL2L1 |
| 0.018680026 | 7.25286E-11 | 10735 | STAG2 |
| 0.018678499 | 7.27865E-11 | 114824 | PNMA5 |
| 0.018677914 | 7.28854E-11 | 23371 | TENC1 |
| 0.018675545 | 7.32877E-11 | 256435 | ST6GALNAC3 |
| 0.01867446 | 7.34728E-11 | 131055 | LOC131055 |
| 0.018661792 | 7.56667E-11 | 5691 | PSMB3 |
| 0.018651641 | 7.74711E-11 | 4885 | NPTX2 |
| 0.018644083 | 7.88415E-11 | 10485 | C1orf61 |
| 0.018632422 | 8.10029E-11 | 55176 | SEC61A2 |
| 0.018621215 | 8.31344E-11 | 148 | ADRA1A |
| 0.018600788 | 8.71618E-11 | 93107 | KCNG4 |
| 0.018591064 | 8.91454E-11 | 221935 | SDK1 |
| 0.018585631 | 9.02727E-11 | 113178 | SCAMP4 |
| 0.018582619 | 9.09038E-11 | 81542 | TMX1 |
| 0.018580652 | 9.13182E-11 | 285600 | C5orf36 |
| 0.018579198 | 9.16258E-11 | 55003 | PAK1IP1 |
| 0.018571421 | 9.32879E-11 | 1174 | AP1S1 |
| 0.018555413 | 9.68025E-11 | 8436 | SDPR |
| 0.018534899 | 1.01496E-10 | 442721 | LMOD2 |
| 0.018497857 | 1.10541E-10 | 51272 | BET1L |
| 0.018452322 | 1.22744E-10 | 7979 | SHFM1 |
| 0.01843327 | 1.28232E-10 | 79152 | FA2H |
| 0.018421381 | 1.31778E-10 | 65251 | ZNF649 |
| 0.018418374 | 1.3269E-10 | 64207 | C14orf4 |
| 0.018417842 | 1.32852E-10 | 100288367 | LOC100288367 |
| 0.01841668 | 1.33206E-10 | 729614 | RP11-169K16.9 |
| 0.01840246 | 1.37619E-10 | 4163 | MCC |
| 0.018398889 | 1.38749E-10 | 6945 | MLX |
| 0.018373394 | 1.47088E-10 | 3834 | KIF25 |
| 0.018366201 | 1.49528E-10 | 196385 | DNAH10 |
| 0.018319248 | 1.66454E-10 | 26168 | SENP3 |
| 0.018318199 | 1.66853E-10 | 5455 | POU3F3 |
| 0.018315801 | 1.67768E-10 | 1488 | CTBP2 |
| 0.018304428 | 1.72175E-10 | 143872 | AP000872.1 |
| 0.018293606 | 1.76474E-10 | 23550 | PSD4 |
| 0.0182901 | 1.77888E-10 | 56097 | PCDHGC5 |
| 0.018284399 | 1.80213E-10 | 29994 | BAZ2B |
| 0.01827281 | 1.8503E-10 | 10960 | LMAN2 |
| 0.018267002 | 1.87492E-10 | 4851 | NOTCH1 |
| 0.018255843 | 1.92311E-10 | 4045 | LSAMP |
| 0.018227881 | 2.04924E-10 | 4034 | LRCH4 |

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| 0.03630727 | 0.600572723 | 0.805 | 1 | 541466 | CT45A1 |
| 0.036283946 | 0.600806859 | 0.786 | 1 | 539 | ATP5O |
| 0.036277467 | 0.600871904 | 0.795 | 1 | 4634 | MYL3 |
| 0.036210086 | 0.60154856 | 0.791 | 1 | 93974 | ATPIF1 |
| 0.036197128 | 0.601678725 | 0.805 | 1 | 25902 | MTHFD1L |
| 0.036167325 | 0.601978153 | 0.789 | 1 | 868 | CBLB |
| 0.036140113 | 0.602251603 | 0.779 | 1 | 29799 | YPEL1 |
| 0.036137522 | 0.602277648 | 0.801 | 1 | 93107 | KCNG4 |
| 0.036116789 | 0.602486032 | 0.79 | 1 | 9936 | CD302 |
| 0.036067549 | 0.602981073 | 0.784 | 1 | 1187 | CLCNKA |
| 0.036048113 | 0.603176534 | 0.777 | 1 | 114757 | CYGB |
| 0.036044225 | 0.60321563 | 0.797 | 1 | 9821 | RB1CC1 |
| 0.036035155 | 0.603306857 | 0.804 | 1 | 10211 | FLOT1 |
| 0.036028676 | 0.603372023 | 0.806 | 1 | 728698 | EIF4A1P4 |
| 0.035961295 | 0.604049939 | 0.8 | 1 | 22902 | RUFY3 |
| 0.035954816 | 0.604115141 | 0.808 | 1 | 6623 | SNCG |
| 0.035952224 | 0.604141222 | 0.781 | 1 | 1456 | CSNK1G3 |
| 0.035947041 | 0.604193387 | 0.805 | 1 | 4707 | NDUFB1 |
| 0.035923717 | 0.604428155 | 0.809 | 1 | 7216 | TRO |
| 0.03587059 | 0.604963054 | 0.802 | 1 | 1196 | CLK2 |
| 0.035862815 | 0.60504135 | 0.799 | 1 | 345895 | RSHL1 |
| 0.035848562 | 0.605184903 | 0.795 | 1 | 2688 | GH1 |
| 0.035848562 | 0.605184903 | 0.799 | 1 | 56998 | CTNNBIP1 |
| 0.035792843 | 0.605746214 | 0.798 | 1 | 22808 | MRAS |
| 0.035726758 | 0.606412254 | 0.814 | 1 | 4221 | MEN1 |
| 0.035694363 | 0.606738863 | 0.824 | 1 | 27257 | LSM1 |
| 0.035686588 | 0.606817261 | 0.814 | 1 | 57473 | ZNF512B |
| 0.035683997 | 0.606843395 | 0.788 | 1 | 5334 | PLCL1 |
| 0.035681405 | 0.606869529 | 0.783 | 1 | 55871 | CBWD1 |
| 0.035667152 | 0.607013276 | 0.815 | 1 | 25894 | PLEKHG4 |
| 0.035658081 | 0.607104759 | 0.789 | 1 | 8639 | AOC3 |
| 0.035638644 | 0.607300814 | 0.835 | 1 | 153743 | PPP1R2P3 |
| 0.035607545 | 0.607614562 | 0.795 | 1 | 25962 | KIAA1429 |
| 0.035582925 | 0.607862996 | 0.807 | 1 | 7957 | EPM2A |
| 0.035575151 | 0.607941458 | 0.817 | 1 | 83861 | RSPH3 |
| 0.035549235 | 0.608203032 | 0.79 | 1 | 100129138 | RP11-364B6.1 |
| 0.035494812 | 0.608752498 | 0.811 | 1 | 79897 | RPP21 |
| 0.035413177 | 0.60957711 | 0.803 | 1 | 253970 | SFTA3 |
| 0.035387262 | 0.609838995 | 0.807 | 1 | 3958 | LGALS3 |
| 0.035363938 | 0.610074734 | 0.811 | 1 | 284266 | SIGLEC15 |
| 0.035309515 | 0.610624947 | 0.801 | 1 | 79088 | ZNF426 |
| 0.035293965 | 0.610782191 | 0.799 | 1 | 80035 | ANP32A-IT1 |
| 0.035268049 | 0.611044304 | 0.792 | 1 | 221143 | N6AMT2 |
| 0.035212331 | 0.611608015 | 0.812 | 1 | 80006 | C5orf44 |
| 0.035204556 | 0.611686691 | 0.781 | 1 | 143282 | FGFBP3 |
| 0.035199373 | 0.611739144 | 0.815 | 1 | 114990 | VASN |
| 0.035165682 | 0.612080135 | 0.811 | 1 | 2197 | FAU |
| 0.035165682 | 0.612080135 | 0.798 | 1 | 55625 | ZDHHC7 |
| 0.0351294 | 0.612447451 | 0.796 | 1 | 6431 | SFRS6 |
| 0.035119034 | 0.612552416 | 0.808 | 1 | 8819 | SAP30 |
| 0.035098302 | 0.61276237 | 0.789 | 1 | 100131801 | PET100 |
| 0.035091823 | 0.612827987 | 0.808 | 1 | 9476 | NAPSA |
| 0.035072386 | 0.613024856 | 0.813 | 1 | 55568 | GALNT10 |
| 0.03507109 | 0.613037982 | 0.771 | 1 | 51206 | GP6 |
| 0.03504647 | 0.613287392 | 0.798 | 1 | 7415 | VCP |
| 0.03504647 | 0.613287392 | 0.808 | 1 | 54619 | CCNJ |
| 0.03498816 | 0.613878279 | 0.802 | 1 | 65982 | ZSCAN18 |
| 0.034986864 | 0.613891413 | 0.788 | 1 | 55026 | FAM70A |
| 0.034932441 | 0.614443137 | 0.781 | 1 | 165324 | UBXN2A |
| 0.034896159 | 0.614811074 | 0.769 | 1 | 388135 | C15orf59 |
| 0.034833961 | 0.615442047 | 0.797 | 1 | 23184 | MESDC2 |
| 0.034824891 | 0.615534088 | 0.787 | 1 | 2580 | GAK |
| 0.034787313 | 0.615915463 | 0.801 | 1 | 22955 | SCMH1 |
| 0.034763989 | 0.61615223 | 0.823 | 1 | 2903 | GRIN2A |
| 0.034752327 | 0.616270629 | 0.811 | 1 | 81929 | SEH1L |
| 0.034664213 | 0.617165517 | 0.815 | 1 | 29979 | UBQLN1 |
| 0.03463441 | 0.617468328 | 0.8 | 1 | 3569 | IL6 |
| 0.034631819 | 0.617494662 | 0.831 | 1 | 1380 | CR2 |
| 0.034620157 | 0.617613173 | 0.816 | 1 | 221223 | CES7 |
| 0.034577396 | 0.618047798 | 0.791 | 1 | 440888 | ACTR3BP2 |
| 0.034565734 | 0.618166355 | 0.805 | 1 | 8705 | B3GALT4 |
| 0.034520381 | 0.618627505 | 0.807 | 1 | 617 | BCS1L |
| 0.034508719 | 0.618746111 | 0.822 | 1 | 26277 | TINF2 |
| 0.034506127 | 0.618772469 | 0.835 | 1 | 25873 | RPL36 |
| 0.034469845 | 0.619141534 | 0.806 | 1 | 254528 | C16orf73 |
| 0.034436155 | 0.619484322 | 0.84 | 1 | 6208 | RPS14 |
| 0.034342858 | 0.620434012 | 0.81 | 1 | 64221 | ROBO3 |
| 0.034337675 | 0.620486791 | 0.802 | 1 | 339044 | PKD1P1 |
| 0.034280661 | 0.621067489 | 0.822 | 1 | 9659 | PDE4DIP |
| 0.034252153 | 0.621357926 | 0.799 | 1 | 10261 | IGSF6 |
| 0.034243083 | 0.62145035 | 0.802 | 1 | 6519 | SLC3A1 |
| 0.034187364 | 0.622018228 | 0.804 | 1 | 64407 | RGS18 |

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| 0.01821275 | 2.12083E-10 | 80700 | UBXN6 |
| 0.018212489 | 2.12209E-10 | 54101 | RIPK4 |
| 0.018166499 | 2.35514E-10 | 5877 | RABIF |
| 0.018151138 | 2.43841E-10 | 55669 | MFN1 |
| 0.018141034 | 2.49474E-10 | 55061 | SUSD4 |
| 0.018131017 | 2.55185E-10 | 9584 | RBM39 |
| 0.018128423 | 2.56684E-10 | 26270 | FBXO6 |
| 0.018117092 | 2.63335E-10 | 4864 | NPC1 |
| 0.018102728 | 2.72009E-10 | 494514 | C18orf56 |
| 0.018098804 | 2.74427E-10 | 3038 | HAS3 |
| 0.018097796 | 2.75051E-10 | 525 | ATP6V1B1 |
| 0.018095456 | 2.76506E-10 | 26958 | COPG2 |
| 0.018072065 | 2.9147E-10 | 7763 | ZFAND5 |
| 0.018056763 | 3.01683E-10 | 2058 | EPRS |
| 0.018041086 | 3.12509E-10 | 256472 | TMEM151A |
| 0.018040266 | 3.13085E-10 | 64145 | ZFYVE20 |
| 0.018036363 | 3.15844E-10 | 9440 | MED17 |
| 0.018030615 | 3.1995E-10 | 80199 | FUZ |
| 0.018016431 | 3.30307E-10 | 57217 | TTC7A |
| 0.018008356 | 3.36348E-10 | 8526 | DGKE |
| 0.018007494 | 3.37279E-10 | 58480 | RHOU |
| 0.018005589 | 3.39174E-10 | 118738 | ZNF488 |
| 0.018001298 | 3.41717E-10 | 81688 | C6orf62 |
| 0.017995361 | 3.46297E-10 | 79831 | JMJD5 |
| 0.017992515 | 3.48515E-10 | 7594 | ZNF43 |
| 0.017987523 | 3.52437E-10 | 4171 | MCM2 |
| 0.01796905 | 3.6733E-10 | 5105 | PCK1 |
| 0.017957897 | 3.76617E-10 | 10908 | PNPLA6 |
| 0.017916698 | 4.12954E-10 | 54482 | CCDC76 |
| 0.017914246 | 4.15221E-10 | 57018 | CCNL1 |
| 0.017912994 | 4.16383E-10 | 10383 | TUBB2C |
| 0.017909915 | 4.19255E-10 | 64077 | LHPP |
| 0.017901194 | 4.27496E-10 | 255313 | CT47A11 |
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| 0.017743587 | 6.06766E-10 | 282966 | C10orf53 |
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| 0.017510638 | 1.01266E-09 | 10024 | TROAP |
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| 0.034074631 | 0.623167875 | 0.809 | 1 | 5236 | PGM1 |
| 0.03405649 | 0.623352961 | 0.803 | 1 | 54441 | STAG3L1 |
| 0.034043532 | 0.62348518 | 0.818 | 1 | 4148 | MATN3 |
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| 0.033781783 | 0.62615858 | 0.816 | 1 | 729009 | FTH1P20 |
| 0.033749389 | 0.626489787 | 0.826 | 1 | 51661 | FKBP7 |
| 0.03370274 | 0.626966857 | 0.81 | 1 | 100132707 | AC093726.2 |
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| 0.033565387 | 0.628372465 | 0.834 | 1 | 494141 | AC090099.4 |
| 0.033508372 | 0.628956318 | 0.829 | 1 | 10443 | N4BP2L2 |
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| 0.033486344 | 0.62918196 | 0.82 | 1 | 4829 | NMBR |
| 0.033460428 | 0.629447465 | 0.782 | 1 | 4696 | NDUFA3 |
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| 0.033435808 | 0.629699739 | 0.824 | 1 | 283683 | LOC283683 |
| 0.033411188 | 0.629952056 | 0.821 | 1 | 84720 | PIGO |
| 0.033378794 | 0.630284117 | 0.819 | 1 | 946 | SIGLEC6 |
| 0.033351582 | 0.630563106 | 0.837 | 1 | 283337 | ZNF740 |
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| 0.033126116 | 0.63287674 | 0.821 | 1 | 79629 | OCEL1 |
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| 0.032987467 | 0.63430127 | 0.825 | 1 | 54813 | KLHL28 |
| 0.032971917 | 0.634461114 | 0.822 | 1 | 147699 | PPM1N |
| 0.032962847 | 0.634554365 | 0.81 | 1 | 135398 | C6ORF141 |
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| 0.032821606 | 0.636007151 | 0.803 | 1 | 26003 | GORASP2 |
| 0.032802169 | 0.636207185 | 0.798 | 1 | 6281 | S100A10 |
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| 0.032692027 | 0.637341209 | 0.801 | 1 | 51290 | ERGIC2 |
| 0.032667407 | 0.637594813 | 0.783 | 1 | 3780 | KCNN1 |
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| 0.032474335 | 0.639585058 | 0.831 | 1 | 10396 | ATP8A1 |
| 0.032451011 | 0.639825666 | 0.822 | 1 | 6634 | SNRPD3 |
| 0.032449715 | 0.639839034 | 0.827 | 1 | 144577 | C12orf66 |
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| 0.032364194 | 0.640721591 | 0.832 | 1 | 65249 | ZSWIM4 |
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| 0.032343461 | 0.640935621 | 0.821 | 1 | 256329 | C11orf35 |
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| 0.03233439 | 0.641029268 | 0.808 | 1 | 389 | RHOC |
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| 0.032222953 | 0.642180254 | 0.807 | 1 | 5358 | PLS3 |
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| 0.017416472 | 1.24333E-09 | 90874 | ZNF697 |
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| 0.017380545 | 1.34422E-09 | 5683 | PSMA2 |
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| 0.017354058 | 1.42366E-09 | 144097 | C11orf84 |
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| 0.017252061 | 1.77458E-09 | 283481 | LOC283481 |
| 0.017251752 | 1.77576E-09 | 63892 | THADA |
| 0.017234497 | 1.84298E-09 | 55644 | OSGEP |
| 0.017229607 | 1.86247E-09 | 2639 | GCDH |
| 0.017220723 | 1.8984E-09 | 3594 | IL12RB1 |
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| 0.017202303 | 2.00835E-09 | 5010 | CLDN11 |
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| 0.017195726 | 2.00317E-09 | 5078 | PAX4 |
| 0.017187451 | 2.03907E-09 | 643641 | ZNF862 |
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| 0.017149107 | 2.2138E-09 | 55964 | SEPTIN3 |
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| 0.017091594 | 2.50353E-09 | 346288 | SEPTIN14 |
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| 0.016963615 | 3.287E-09 | 51035 | UBXN1 |
| 0.01695493 | 3.34807E-09 | 81789 | TIGD6 |
| 0.016953835 | 3.35584E-09 | 4111 | MAGEA12 |
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| 0.016930316 | 3.52718E-09 | 2208 | FCER2 |
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| 0.016833562 | 4.3261E-09 | 440275 | EIF2AK4 |
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| 0.016737758 | 5.28957E-09 | 1576 | CYP3A4 |
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| 0.016692889 | 5.80972E-09 | 79817 | MOBKL2B |
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| 0.032147797 | 0.642956984 | 0.828 | 1 | 58533 | SNX6 |
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| 0.032080416 | 0.643653693 | 0.83 | 1 | 148413 | RP4-758J18.2 |
| 0.032071346 | 0.643747504 | 0.829 | 1 | 51605 | TRMT6 |
| 0.032064867 | 0.643814516 | 0.801 | 1 | 440556 | RP1-163G9.1 |
| 0.032035064 | 0.644122807 | 0.82 | 1 | 7127 | TNFAIP2 |
| 0.032018219 | 0.644297085 | 0.831 | 1 | 392145 | LOC392145 |
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| 0.031963796 | 0.644860271 | 0.839 | 1 | 96610 | LL22NC03-80A10.2 |
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| 0.031939176 | 0.645115112 | 0.822 | 1 | 129880 | BBS5 |
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| 0.031681314 | 0.647786723 | 0.841 | 1 | 54805 | CNNM2 |
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| 0.031659286 | 0.648015161 | 0.834 | 1 | 5184 | PEPD |
| 0.031646328 | 0.648149552 | 0.812 | 1 | 60487 | TRMT11 |
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| 0.031613934 | 0.648485579 | 0.835 | 1 | 4054 | LTBP3 |
| 0.031536186 | 0.649292333 | 0.833 | 1 | 5872 | RAB13 |
| 0.031515454 | 0.649507537 | 0.845 | 1 | 3489 | IGFBP6 |
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| 0.031367734 | 0.651041704 | 0.844 | 1 | 79187 | FSD1 |
| 0.031332748 | 0.651405275 | 0.842 | 1 | 2151 | F2RL2 |
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| 0.031260184 | 0.652159611 | 0.816 | 1 | 7431 | VIM |
| 0.031208353 | 0.65269864 | 0.802 | 1 | 57506 | MAVS |
| 0.031181141 | 0.652981702 | 0.83 | 1 | 30834 | ZNRD1 |
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| 0.031060633 | 0.65423586 | 0.827 | 1 | 387911 | RP11-45B20.3 |
| 0.031048971 | 0.654357281 | 0.816 | 1 | 51294 | PCDH12 |
| 0.031028238 | 0.654573165 | 0.825 | 1 | 7001 | PRDX2 |
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| 0.030588967 | 0.65915392 | 0.818 | 1 | 55786 | ZNF415 |
| 0.030581192 | 0.659235111 | 0.823 | 1 | 23036 | ZNF292 |
| 0.030512516 | 0.659952468 | 0.835 | 1 | 6646 | SOAT1 |
| 0.030487896 | 0.660209709 | 0.825 | 1 | 10329 | TMEM5 |
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| 0.030438656 | 0.660724312 | 0.832 | 1 | 84056 | KATNAL1 |
| 0.030421811 | 0.660900397 | 0.821 | 1 | 9824 | ARHGAP11A |
| 0.030398487 | 0.661144238 | 0.83 | 1 | 401498 | TMEM215 |
| 0.030366092 | 0.661482965 | 0.829 | 1 | 253559 | CADM2 |
| 0.030312965 | 0.662038626 | 0.835 | 1 | 163 | AP2B1 |
| 0.030310373 | 0.662065737 | 0.822 | 1 | 116843 | C6orf192 |
| 0.030293528 | 0.662241963 | 0.84 | 1 | 7485 | WRB |
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| 0.01667408 | 6.04226E-09 | 100125556 | RP11-666A20.1 |
| 0.016663874 | 6.17222E-09 | 51232 | CRIM1 |
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| 0.016661619 | 6.20129E-09 | 7128 | TNFAIP3 |
| 0.016645711 | 6.41023E-09 | 28991 | COMMD5 |
| 0.01664429 | 6.42922E-09 | 10975 | UQCR11 |
| 0.016641215 | 6.47051E-09 | 54797 | MED18 |
| 0.0166221 | 6.73302E-09 | 132 | ADK |
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| 0.016599199 | 7.06117E-09 | 2999 | GZMH |
| 0.016585884 | 7.25906E-09 | 285755 | PPIL6 |
| 0.016575987 | 7.40964E-09 | 197131 | UBR1 |
| 0.016555202 | 7.73583E-09 | 8694 | DGAT1 |
| 0.01654457 | 7.90802E-09 | 55347 | ABHD10 |
| 0.016513734 | 8.42883E-09 | 63035 | BCORL1 |
| 0.016511521 | 8.46744E-09 | 79628 | SH3TC2 |
| 0.01650319 | 8.61444E-09 | 23051 | ZHX3 |
| 0.01648554 | 8.93407E-09 | 440917 | LOC440917 |
| 0.016482995 | 8.9811E-09 | 6992 | PPP1R11 |
| 0.016470798 | 9.20986E-09 | 286077 | FAM83H |
| 0.016454032 | 9.53357E-09 | 90288 | C3orf25 |
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| 0.016419565 | 1.02341E-08 | 6289 | SAA2 |
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| 0.016324831 | 1.24275E-08 | 10474 | TADA3L |
| 0.016322814 | 1.24788E-08 | 84750 | FUT10 |
| 0.016297699 | 1.31356E-08 | 219938 | SPATA19 |
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| 0.016252102 | 1.44148E-08 | 57215 | THAP11 |
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| 0.016232033 | 1.50155E-08 | 51496 | CTDSPL2 |
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| 0.016223645 | 1.52737E-08 | 8364 | HIST1H4C |
| 0.016222881 | 1.52975E-08 | 155400 | NSUN5B |
| 0.016204009 | 1.58951E-08 | 30835 | CD209 |
| 0.016199641 | 1.60367E-08 | 100132341 | KIAA0664L3 |
| 0.016198613 | 1.60702E-08 | 387733 | IFITM5 |
| 0.016188986 | 1.63871E-08 | 51422 | PRKAG2 |
| 0.016181607 | 1.66341E-08 | 65109 | UPF3B |
| 0.016176229 | 1.68164E-08 | 170302 | ARX |
| 0.016165399 | 1.71894E-08 | 440956 | IQCF6 |
| 0.016145879 | 1.78822E-08 | 6017 | RLBP1 |
| 0.016136352 | 1.823E-08 | 6187 | RPS2 |
| 0.016134867 | 1.82848E-08 | 29950 | SERTAD1 |
| 0.01612619 | 1.86083E-08 | 2537 | IFI6 |
| 0.016120823 | 1.88112E-08 | 340784 | HMX3 |
| 0.016118035 | 1.89174E-08 | 89872 | AQP10 |
| 0.01611225 | 1.91397E-08 | 4917 | NTN3 |
| 0.016106953 | 1.93454E-08 | 390154 | OR5T3 |
| 0.016074213 | 2.06656E-08 | 154214 | RNF217 |
| 0.016066477 | 2.09901E-08 | 26260 | FBXO25 |
| 0.01606464 | 2.10679E-08 | 590 | BCHE |
| 0.016060543 | 2.12424E-08 | 65080 | MRPL44 |
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| 0.016028078 | 2.26754E-08 | 5538 | PPT1 |
| 0.016026812 | 2.27331E-08 | 55245 | UQCC |
| 0.016023234 | 2.28971E-08 | 1536 | CYBB |
| 0.016022468 | 2.29323E-08 | 9020 | MAP3K14 |
| 0.016017657 | 2.3247E-08 | 116983 | ACAP3 |
| 0.016012902 | 2.3377E-08 | 164656 | TMPRSS6 |
| 0.016007827 | 2.36163E-08 | 81570 | CLPB |
| 0.015996494 | 2.41593E-08 | 259232 | NALCN |
| 0.015994476 | 2.42573E-08 | 26580 | BSCL2 |
| 0.01597427 | 2.52595E-08 | 5301 | PIN1P1 |
| 0.015971163 | 2.54172E-08 | 401551 | WDR38 |
| 0.0159408 | 2.70089E-08 | 83755 | KRTAP4-12 |
| 0.015931386 | 2.75217E-08 | 25802 | LMOD1 |

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| 0.030259837 | 0.662594473 | 0.838 | 1 | 733 | C8G |
| 0.030257246 | 0.662621592 | 0.833 | 1 | 440699 | LRRC52 |
| 0.030219668 | 0.66301487 | 0.798 | 1 | 26289 | AK5 |
| 0.030150991 | 0.663733858 | 0.83 | 1 | 57475 | PLEKHH1 |
| 0.0301484 | 0.663760996 | 0.839 | 1 | 54716 | SLC6A20 |
| 0.030101752 | 0.664249548 | 0.821 | 1 | 286102 | TMED10P1 |
| 0.030087498 | 0.664398857 | 0.815 | 1 | 353322 | ANKRD37 |
| 0.030060286 | 0.664683937 | 0.839 | 1 | 84914 | ZNF587 |
| 0.030051216 | 0.664778974 | 0.814 | 1 | 285440 | CYP4V2 |
| 0.030038258 | 0.664914751 | 0.84 | 1 | 5915 | RARB |
| 0.030018821 | 0.665118437 | 0.851 | 1 | 162540 | AC217771.1 |
| 0.029990314 | 0.665417221 | 0.814 | 1 | 23119 | HIC2 |
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| 0.029973469 | 0.6655938 | 0.834 | 1 | 140679 | SLC32A1 |
| 0.029948849 | 0.66585191 | 0.807 | 1 | 84891 | ZSCAN10 |
| 0.029935891 | 0.665987773 | 0.809 | 1 | 55486 | PARL |
| 0.029854256 | 0.666843962 | 0.832 | 1 | 83896 | KRTAP3-1 |
| 0.029801129 | 0.667401396 | 0.834 | 1 | 1611 | DAP |
| 0.029763551 | 0.667795789 | 0.812 | 1 | 89891 | WDR34 |
| 0.029729861 | 0.668149461 | 0.834 | 1 | 56833 | SLAMF8 |
| 0.029718199 | 0.668271902 | 0.846 | 1 | 56927 | GPR108 |
| 0.029698762 | 0.668475992 | 0.818 | 1 | 2840 | GPR17 |
| 0.029661184 | 0.668870633 | 0.84 | 1 | 90416 | C15orf57 |
| 0.029645635 | 0.669033959 | 0.839 | 1 | 84274 | COQ5 |
| 0.029641748 | 0.669074794 | 0.854 | 1 | 5005 | ORM2 |
| 0.029619719 | 0.669306205 | 0.836 | 1 | 5931 | RBBP7 |
| 0.029610649 | 0.669401501 | 0.84 | 1 | 200312 | RNF215 |
| 0.029608057 | 0.66942873 | 0.822 | 1 | 6091 | ROBO1 |
| 0.029606761 | 0.669442344 | 0.829 | 1 | 158471 | PRUNE2 |
| 0.029597691 | 0.669537648 | 0.847 | 1 | 27445 | PCLO |
| 0.029580846 | 0.669714654 | 0.826 | 1 | 27230 | SERP1 |
| 0.029544564 | 0.670095961 | 0.845 | 1 | 143570 | XRRA1 |
| 0.029535493 | 0.670191301 | 0.828 | 1 | 1543 | CYP1A1 |
| 0.029522535 | 0.67032751 | 0.844 | 1 | 4726 | NDUFS6 |
| 0.029514761 | 0.670409241 | 0.851 | 1 | 5997 | RGS2 |
| 0.029509577 | 0.67046373 | 0.82 | 1 | 2810 | SFN |
| 0.029495324 | 0.670613585 | 0.842 | 1 | 150082 | LCA5L |
| 0.029451267 | 0.671076853 | 0.827 | 1 | 1524 | CX3CR1 |
| 0.029438309 | 0.671213132 | 0.831 | 1 | 2239 | GPC4 |
| 0.029392957 | 0.671690194 | 0.838 | 1 | 126917 | IFFO2 |
| 0.029363154 | 0.672003763 | 0.834 | 1 | 23179 | RGL1 |
| 0.029356675 | 0.672071938 | 0.835 | 1 | 23550 | PSD4 |
| 0.029345013 | 0.672194659 | 0.828 | 1 | 127003 | C1orf194 |
| 0.029302252 | 0.672644711 | 0.825 | 1 | 219858 | OR8B12 |
| 0.02929059 | 0.672767473 | 0.827 | 1 | 2742 | GLRA2 |
| 0.02929059 | 0.672767473 | 0.836 | 1 | 10553 | HTATIP2 |
| 0.029286702 | 0.672808396 | 0.834 | 1 | 10758 | TRAF3IP2 |
| 0.029271153 | 0.672972095 | 0.817 | 1 | 6249 | CLIP1 |
| 0.029269857 | 0.672985738 | 0.855 | 1 | 84971 | ATG4D |
| 0.029264674 | 0.673040308 | 0.815 | 1 | 124637 | CYB5D1 |
| 0.029253012 | 0.673163098 | 0.841 | 1 | 9475 | ROCK2 |
| 0.029242646 | 0.673272252 | 0.814 | 1 | 51474 | LIMA1 |
| 0.029207659 | 0.673640696 | 0.834 | 1 | 5031 | P2RY6 |
| 0.029186927 | 0.67385907 | 0.868 | 1 | 6204 | RPS10 |
| 0.029180448 | 0.673927318 | 0.835 | 1 | 55729 | ATF7IP |
| 0.029175265 | 0.673981918 | 0.84 | 1 | 7297 | TYK2 |
| 0.029157124 | 0.674173031 | 0.815 | 1 | 684 | BST2 |
| 0.029154532 | 0.674200334 | 0.845 | 1 | 2868 | GRK4 |
| 0.0291338 | 0.674418778 | 0.836 | 1 | 11012 | KLK11 |
| 0.029124729 | 0.674514356 | 0.818 | 1 | 285268 | ZNF621 |
| 0.029115659 | 0.67460994 | 0.826 | 1 | 26167 | PCDHB5 |
| 0.029081968 | 0.674965008 | 0.849 | 1 | 9188 | DDX21 |
| 0.029037911 | 0.675429437 | 0.814 | 1 | 81794 | ADAMTS10 |
| 0.029006813 | 0.675757344 | 0.835 | 1 | 339352 | LOC339352 |
| 0.028940728 | 0.676454348 | 0.834 | 1 | 6018 | RLF |
| 0.028930361 | 0.676563707 | 0.847 | 1 | 63876 | PKNOX2 |
| 0.028917403 | 0.676700415 | 0.826 | 1 | 91526 | ANKRD44 |
| 0.028914812 | 0.676727758 | 0.851 | 1 | 11044 | POLS |
| 0.02890315 | 0.676850807 | 0.83 | 1 | 2263 | FGFR2 |
| 0.028833177 | 0.677589278 | 0.814 | 1 | 25974 | MMACHC |
| 0.028815036 | 0.677780784 | 0.846 | 1 | 388336 | AC007510.1 |
| 0.028799487 | 0.677944948 | 0.817 | 1 | 8790 | FPGT |
| 0.028778754 | 0.678163857 | 0.826 | 1 | 1147 | CHUK |
| 0.028754134 | 0.678423847 | 0.83 | 1 | 116150 | NUS1 |
| 0.028707486 | 0.678916564 | 0.84 | 1 | 5008 | OSM |
| 0.028671204 | 0.679299883 | 0.844 | 1 | 168090 | C6orf118 |
| 0.028646584 | 0.679560039 | 0.848 | 1 | 124454 | EARS2 |
| 0.028643993 | 0.679587426 | 0.831 | 1 | 10650 | SLMO1 |
| 0.028619373 | 0.679847624 | 0.856 | 1 | 8893 | EIF2B5 |
| 0.02861419 | 0.679902407 | 0.813 | 1 | 643630 | LOC643630 |
| 0.028611598 | 0.6799298 | 0.819 | 1 | 92092 | ZC3HAV1L |
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| 0.015927188 | 2.77534E-08 | 92579 | G6PC3 |
| 0.015916096 | 2.83748E-08 | 3975 | LHX1 |
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| 0.015887549 | 3.00368E-08 | 4713 | NDUFB7 |
| 0.015873937 | 3.08622E-08 | 7869 | SEMA3B |
| 0.015873142 | 3.0911E-08 | 116150 | NUS1 |
| 0.015867574 | 3.12555E-08 | 8353 | HIST1H3E |
| 0.015866178 | 3.13424E-08 | 5810 | RAD1 |
| 0.015829586 | 3.37069E-08 | 55364 | IMPACT |
| 0.015817787 | 3.45056E-08 | 6651 | SON |
| 0.015786605 | 3.67056E-08 | 90865 | IL33 |
| 0.015779353 | 3.72365E-08 | 84179 | MFSD7 |
| 0.015774931 | 3.75638E-08 | 440957 | C3orf78 |
| 0.015774836 | 3.75708E-08 | 155060 | RP4-800G7.1 |
| 0.015771514 | 3.78187E-08 | 9489 | PGS1 |
| 0.015743983 | 3.9934E-08 | 646890 | LOC646890 |
| 0.015740685 | 4.0195E-08 | 116238 | TLCD1 |
| 0.015727216 | 4.12781E-08 | 6480 | ST6GAL1 |
| 0.015718909 | 4.19601E-08 | 23546 | SYNGR4 |
| 0.01569639 | 4.38645E-08 | 6938 | TCF12 |
| 0.015675594 | 4.56974E-08 | 80271 | ITPKC |
| 0.015668947 | 4.62987E-08 | 56675 | NRIP3 |
| 0.015661806 | 4.69533E-08 | 1158 | CKM |
| 0.015631873 | 4.97961E-08 | 8878 | SQSTM1 |
| 0.015606673 | 5.44719E-08 | 57664 | PLEKHA4 |
| 0.015596754 | 5.33444E-08 | 79023 | NUP37 |
| 0.015596551 | 5.33656E-08 | 100130331 | RP11-193H5.1 |
| 0.01559438 | 5.35929E-08 | 85285 | KRTAP4-1 |
| 0.015583534 | 5.47425E-08 | 6890 | TAP1 |
| 0.015578342 | 5.53013E-08 | 53833 | IL20RB |
| 0.015521444 | 6.17986E-08 | 5341 | PLEK |
| 0.015521301 | 6.18159E-08 | 51102 | MECR |
| 0.015479855 | 6.70095E-08 | 441864 | TARM1 |
| 0.015470246 | 6.82727E-08 | 57472 | CNOT6 |
| 0.015463214 | 6.92117E-08 | 348645 | C22orf34 |
| 0.015443816 | 7.18672E-08 | 80256 | KIAA1539 |
| 0.015442794 | 7.20098E-08 | 55020 | TTC38 |
| 0.015414089 | 7.61293E-08 | 3887 | KRT81 |
| 0.015361438 | 8.4286E-08 | 391 | RHOG |
| 0.015354748 | 8.53811E-08 | 7041 | TGFB1I1 |
| 0.015338157 | 8.81568E-08 | 117289 | TAGAP |
| 0.015320616 | 9.11865E-08 | 56949 | XAB2 |
| 0.015316047 | 9.1992E-08 | 26227 | PHGDH |
| 0.015309954 | 9.3077E-08 | 3091 | HIF1A |
| 0.015302025 | 9.45075E-08 | 619208 | C6orf225 |
| 0.015297526 | 9.53285E-08 | 8295 | TRRAP |
| 0.01529274 | 9.62095E-08 | 7803 | PTP4A1 |
| 0.015291776 | 9.63879E-08 | 79611 | ACSS3 |
| 0.015280886 | 9.84258E-08 | 3955 | LFNG |
| 0.01527775 | 9.90204E-08 | 26493 | OR8B8 |
| 0.015276261 | 9.93039E-08 | 255027 | MPV17L |
| 0.015276023 | 9.93492E-08 | 1841 | DTYMK |
| 0.015253423 | 1.03752E-07 | 145482 | PTGR2 |
| 0.015252933 | 1.0385E-07 | 100288570 | AC108938.1 |
| 0.015251222 | 1.04191E-07 | 1499 | CTNNB1 |
| 0.015243315 | 1.05782E-07 | 523 | ATP6V1A |
| 0.015232563 | 1.07983E-07 | 100288870 | ERLEC1P1 |
| 0.015215432 | 1.11582E-07 | 1051 | CEBPB |
| 0.015210113 | 1.12723E-07 | 56649 | TMPRSS4 |
| 0.015204748 | 1.13885E-07 | 933 | CD22 |
| 0.015197473 | 1.15479E-07 | 4863 | NPAT |
| 0.015182065 | 1.18928E-07 | 2246 | FGF1 |
| 0.015172642 | 1.21086E-07 | 5411 | PNN |
| 0.015146699 | 1.27224E-07 | 9967 | THRAP3 |
| 0.015134698 | 1.30165E-07 | 100129566 | LOC100129566 |
| 0.015109657 | 1.36514E-07 | 1213 | CLTC |
| 0.015100684 | 1.38861E-07 | 114036 | LINC00310 |
| 0.01509742 | 1.39724E-07 | 117143 | TADA1L |
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| 0.015070668 | 1.46999E-07 | 10973 | ASCC3 |
| 0.015053823 | 1.51767E-07 | 161725 | OTUD7A |
| 0.015033071 | 1.57846E-07 | 388595 | TMEM82 |
| 0.015023215 | 1.60815E-07 | 1436 | CSF1R |
| 0.015021254 | 1.61412E-07 | 57634 | EP400 |
| 0.015020468 | 1.61652E-07 | 57666 | FBRSL1 |
| 0.014998622 | 1.6846E-07 | 79586 | CHPF |
| 0.014994755 | 1.69694E-07 | 118471 | PRAP1 |
| 0.014969535 | 1.77957E-07 | 84283 | TMEM79 |
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| 0.014927053 | 1.92763E-07 | 9618 | TRAF4 |

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| 0.028594753 | 0.68010786 | 0.842 | 1 | 170572 | HTR3C |
| 0.028592161 | 0.680135255 | 0.841 | 1 | 51616 | TAF9B |
| 0.028588274 | 0.680176349 | 0.836 | 1 | 369 | ARAF |
| 0.028550696 | 0.68057364 | 0.814 | 1 | 2651 | GCNT2 |
| 0.028536442 | 0.680724359 | 0.841 | 1 | 1945 | EFNA4 |
| 0.028426301 | 0.681889437 | 0.835 | 1 | 23398 | PPWD1 |
| 0.028419822 | 0.681957994 | 0.852 | 1 | 399664 | MEX3D |
| 0.02841723 | 0.681985418 | 0.852 | 1 | 338657 | CCDC84 |
| 0.028370582 | 0.682479117 | 0.832 | 1 | 4725 | NDUFS5 |
| 0.028344666 | 0.682753452 | 0.838 | 1 | 29088 | MRPL15 |
| 0.028314863 | 0.683068989 | 0.851 | 1 | 8660 | IRS2 |
| 0.028217679 | 0.684098298 | 0.854 | 1 | 56267 | CCBL2 |
| 0.0282112 | 0.684166939 | 0.848 | 1 | 49 | ACR |
| 0.028206017 | 0.684221854 | 0.843 | 1 | 9675 | KIAA0406 |
| 0.028190468 | 0.684386609 | 0.86 | 1 | 10016 | PDCD6 |
| 0.028185284 | 0.68444153 | 0.839 | 1 | 55748 | CNDP2 |
| 0.028158073 | 0.684729896 | 0.824 | 1 | 6752 | SSTR2 |
| 0.028154186 | 0.684771095 | 0.839 | 1 | 8455 | ATRN |
| 0.028124382 | 0.685086983 | 0.816 | 1 | 782 | CACNB1 |
| 0.028120495 | 0.68512819 | 0.83 | 1 | 2115 | ETV1 |
| 0.028063481 | 0.685732665 | 0.837 | 1 | 729313 | LOC729313 |
| 0.028042748 | 0.685952523 | 0.858 | 1 | 10625 | IVNS1ABP |
| 0.028033677 | 0.68604872 | 0.867 | 1 | 729806 | ZNF731P |
| 0.028025903 | 0.686131178 | 0.831 | 1 | 81572 | PDRG1 |
| 0.028001283 | 0.68639232 | 0.841 | 1 | 56683 | C21orf59 |
| 0.027993508 | 0.686474794 | 0.852 | 1 | 80019 | UBTD1 |
| 0.027989621 | 0.686516032 | 0.87 | 1 | 64927 | TTC23 |
| 0.02797148 | 0.686708489 | 0.843 | 1 | 124540 | MSI2 |
| 0.027967592 | 0.686749732 | 0.828 | 1 | 54868 | TMEM104 |
| 0.02795593 | 0.686873468 | 0.852 | 1 | 924 | CD7 |
| 0.02793131 | 0.687134716 | 0.847 | 1 | 55080 | TAPBPL |
| 0.027926127 | 0.68718972 | 0.833 | 1 | 400750 | LOC400750 |
| 0.027914465 | 0.687313486 | 0.846 | 1 | 3094 | HINT1 |
| 0.027905395 | 0.687409754 | 0.834 | 1 | 5176 | SERPINF1 |
| 0.027895028 | 0.68751978 | 0.845 | 1 | 397 | ARHGDIB |
| 0.027887254 | 0.687602305 | 0.848 | 1 | 390424 | ATP5G1P5 |
| 0.027867817 | 0.687808631 | 0.845 | 1 | 4792 | NFKBIA |
| 0.027853563 | 0.687959952 | 0.854 | 1 | 359845 | FAM101B |
| 0.027849676 | 0.688001224 | 0.838 | 1 | 3931 | LCAT |
| 0.02784838 | 0.688014981 | 0.853 | 1 | 55610 | CCDC132 |
| 0.027840605 | 0.688097528 | 0.831 | 1 | 150786 | WTH3DI |
| 0.027836718 | 0.688138803 | 0.849 | 1 | 948 | CD36 |
| 0.027797844 | 0.688551599 | 0.843 | 1 | 85415 | RHPN2 |
| 0.027758971 | 0.688964489 | 0.845 | 1 | 2787 | GNG5 |
| 0.027752492 | 0.689033313 | 0.843 | 1 | 10535 | RNASEH2A |
| 0.027734351 | 0.689226033 | 0.855 | 1 | 10464 | PIBF1 |
| 0.027722689 | 0.689349935 | 0.831 | 1 | 6189 | RPS3AP47 |
| 0.027701956 | 0.689570226 | 0.833 | 1 | 51564 | HDAC7 |
| 0.027686407 | 0.689735462 | 0.847 | 1 | 517 | ATP5G2 |
| 0.02763328 | 0.690300128 | 0.839 | 1 | 9665 | KIAA0430 |
| 0.027470011 | 0.692036514 | 0.847 | 1 | 92312 | MEX3A |
| 0.027468715 | 0.692050301 | 0.836 | 1 | 9141 | PDCD5 |
| 0.027457053 | 0.692174391 | 0.87 | 1 | 51295 | ECSIT |
| 0.027331362 | 0.69351233 | 0.865 | 1 | 11057 | ABHD2 |
| 0.027271755 | 0.694147149 | 0.848 | 1 | 65998 | C11orf95 |
| 0.027252319 | 0.694354201 | 0.855 | 1 | 199704 | ZNF585A |
| 0.027235473 | 0.694533665 | 0.838 | 1 | 7366 | AC147055.1 |
| 0.027200487 | 0.694906451 | 0.834 | 1 | 90411 | MCFD2 |
| 0.027183642 | 0.695085968 | 0.843 | 1 | 57405 | SPC25 |
| 0.02717198 | 0.695210258 | 0.842 | 1 | 5569 | PKIA |
| 0.027140881 | 0.695541739 | 0.839 | 1 | 83853 | ROPN1L |
| 0.027114965 | 0.695818017 | 0.837 | 1 | 26224 | FBXL3 |
| 0.027042401 | 0.696591809 | 0.87 | 1 | 490 | ATP2B1 |
| 0.026995753 | 0.697089413 | 0.841 | 1 | 163688 | CALML6 |
| 0.026984091 | 0.697213834 | 0.857 | 1 | 10987 | COPS5 |
| 0.026956879 | 0.697504182 | 0.84 | 1 | 375295 | LOC375295 |
| 0.02693226 | 0.697766915 | 0.848 | 1 | 1297 | COL9A1 |
| 0.02690764 | 0.698029685 | 0.847 | 1 | 1937 | EEF1G |
| 0.02688302 | 0.69829249 | 0.842 | 1 | 84647 | PLA2G12B |
| 0.0268584 | 0.698555332 | 0.856 | 1 | 55737 | VPS35 |
| 0.026857104 | 0.698569166 | 0.839 | 1 | 143 | PARP4 |
| 0.026855808 | 0.698583001 | 0.843 | 1 | 403 | ARL3 |
| 0.026854512 | 0.698596836 | 0.851 | 1 | 168667 | BMPER |
| 0.02683378 | 0.698818209 | 0.833 | 1 | 51062 | ATL1 |
| 0.026831188 | 0.698845882 | 0.854 | 1 | 9695 | EDEM1 |
| 0.026801385 | 0.699164155 | 0.824 | 1 | 10677 | AVIL |
| 0.026775469 | 0.699440957 | 0.88 | 1 | 153222 | C5orf41 |
| 0.02675085 | 0.699703955 | 0.841 | 1 | 65065 | NBEAL1 |
| 0.026722342 | 0.700008524 | 0.851 | 1 | 23304 | UBR2 |
| 0.026708089 | 0.700160827 | 0.85 | 1 | 57596 | BEGAIN |
| 0.026705497 | 0.700188519 | 0.836 | 1 | 353131 | LCE1A |
| 0.026683469 | 0.700423923 | 0.867 | 1 | 5514 | PPP1R10 |

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| 0.014879598 | 2.10711E-07 | 28978 | TMEM14A |
| 0.014876898 | 2.1178E-07 | 93974 | ATPIF1 |
| 0.014873475 | 2.13141E-07 | 6204 | RPS10 |
| 0.014867032 | 2.15728E-07 | 11101 | ATE1 |
| 0.014863694 | 2.1708E-07 | 9122 | SLC16A4 |
| 0.014845654 | 2.24529E-07 | 286238 | LOC286238 |
| 0.014845398 | 2.24636E-07 | 440278 | CATSPER2P1 |
| 0.014835514 | 2.28824E-07 | 55004 | C11orf59 |
| 0.01483282 | 2.29978E-07 | 91975 | ZNF300 |
| 0.014808797 | 2.40523E-07 | 10422 | UBAC1 |
| 0.014808029 | 2.40868E-07 | 6595 | SMARCA2 |
| 0.014783375 | 2.5219E-07 | 286827 | TRIM59 |
| 0.014782545 | 2.5258E-07 | 167410 | LIX1 |
| 0.014767562 | 2.59722E-07 | 23351 | KIAA0323 |
| 0.014758951 | 2.63914E-07 | 201254 | STRA13 |
| 0.014756781 | 2.6498E-07 | 84905 | ZNF341 |
| 0.014751795 | 2.67447E-07 | 170959 | ZNF431 |
| 0.014743842 | 2.71428E-07 | 91151 | TIGD7 |
| 0.014739119 | 2.73818E-07 | 84570 | COL25A1 |
| 0.014733036 | 2.76928E-07 | 149685 | ADIG |
| 0.014728058 | 2.79498E-07 | 51626 | DYNC2LI1 |
| 0.014705853 | 2.91244E-07 | 7372 | UMPS |
| 0.014694122 | 2.97641E-07 | 4502 | MT2A |
| 0.014693115 | 2.98196E-07 | 1315 | COPB1 |
| 0.014683689 | 3.03444E-07 | 6495 | SIX1 |
| 0.014676707 | 3.07388E-07 | 2923 | PDIA3 |
| 0.014669471 | 3.11528E-07 | 678 | ZFP36L2 |
| 0.014652597 | 3.21392E-07 | 10345 | TRDN |
| 0.014644211 | 3.26406E-07 | 22992 | KDM2A |
| 0.014633591 | 3.32864E-07 | 161291 | TMEM30B |
| 0.014624962 | 3.38202E-07 | 54554 | WDR5B |
| 0.014624863 | 3.38263E-07 | 84775 | ZNF607 |
| 0.014620967 | 3.407E-07 | 6698 | SPRR1A |
| 0.014602342 | 3.52589E-07 | 10641 | TUSC4 |
| 0.014601038 | 3.53437E-07 | 221143 | N6AMT2 |
| 0.014590123 | 3.60605E-07 | 7083 | TK1 |
| 0.014574518 | 3.71099E-07 | 9637 | FEZ2 |
| 0.014564248 | 3.78165E-07 | 83873 | GPR61 |
| 0.014556191 | 3.83799E-07 | 8344 | HIST1H2BE |
| 0.014555323 | 3.84411E-07 | 6531 | SLC6A3 |
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| 0.0145397 | 3.95584E-07 | 653319 | KIAA0895L |
| 0.01453357 | 4.00054E-07 | 4758 | NEU1 |
| 0.014530928 | 4.29887E-07 | 901 | CCNG2 |
| 0.014526572 | 4.05215E-07 | 27111 | SDCBP2 |
| 0.014519762 | 4.103E-07 | 27248 | C2orf30 |
| 0.014509055 | 4.18419E-07 | 54434 | SSH1 |
| 0.014505489 | 4.21157E-07 | 133482 | SLCO6A1 |
| 0.014498287 | 4.26741E-07 | 51214 | IGF2AS |
| 0.014487159 | 4.35508E-07 | 259282 | BOD1L |
| 0.014476585 | 4.44001E-07 | 64773 | FAM113A |
| 0.014444757 | 4.70536E-07 | 55349 | CHDH |
| 0.014444501 | 4.70756E-07 | 641702 | FAM138E |
| 0.014428701 | 4.84496E-07 | 390259 | BSX |
| 0.014422023 | 4.9042E-07 | 22882 | ZHX2 |
| 0.014419957 | 4.92267E-07 | 84632 | AFAP1L2 |
| 0.014415555 | 4.96223E-07 | 344967 | AC098591.2 |
| 0.014412326 | 4.99145E-07 | 7186 | TRAF2 |
| 0.014396837 | 5.13394E-07 | 80726 | KIAA1683 |
| 0.014378186 | 5.31072E-07 | 80350 | LPAL2 |
| 0.014365087 | 5.43838E-07 | 54875 | CNTLN |
| 0.014357749 | 5.51118E-07 | 822 | CAPG |
| 0.014357079 | 5.51786E-07 | 57184 | C15orf17 |
| 0.014335086 | 5.74198E-07 | 2516 | NR5A1 |
| 0.014325263 | 5.8449E-07 | 64849 | SLC13A3 |
| 0.014313028 | 5.97557E-07 | 10042 | HMGXB4 |
| 0.014310995 | 5.99755E-07 | 153396 | TMEM161B |
| 0.014302827 | 6.08667E-07 | 64418 | TMEM168 |
| 0.014294882 | 6.17457E-07 | 9074 | CLDN6 |
| 0.014282644 | 6.31237E-07 | 400745 | SH2D5 |
| 0.014277673 | 6.36919E-07 | 390282 | LOC390282 |
| 0.014276923 | 6.3778E-07 | 55578 | FAM48A |
| 0.014272347 | 6.4306E-07 | 6925 | TCF4 |
| 0.014254586 | 6.63957E-07 | 10400 | PEMT |
| 0.014237421 | 6.84775E-07 | 5110 | PCMT1 |
| 0.01423181 | 6.91715E-07 | 5531 | PPP4C |
| 0.014217669 | 7.09508E-07 | 7167 | TPI1 |
| 0.014211999 | 7.16766E-07 | 63928 | AC130454.1 |
| 0.01420435 | 7.26669E-07 | 1384 | CRAT |
| 0.014203158 | 7.28224E-07 | 711 | ERC2-IT1 |
| 0.014202906 | 7.28554E-07 | 29968 | PSAT1 |
| 0.014177477 | 7.6252E-07 | 84080 | C16orf48 |

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| 0.02662775 | 0.701019483 | 0.867 | 1 | 51129 | ANGPTL4 |
| 0.026425607 | 0.703181653 | 0.856 | 1 | 4793 | NFKBIB |
| 0.026399692 | 0.703459028 | 0.854 | 1 | 285598 | ARL10 |
| 0.026358226 | 0.703902909 | 0.832 | 1 | 79760 | GEMIN7 |
| 0.026331015 | 0.70419426 | 0.856 | 1 | 3227 | HOXC11 |
| 0.026302508 | 0.704499532 | 0.828 | 1 | 9519 | TBPL1 |
| 0.026239014 | 0.705179625 | 0.858 | 1 | 51149 | C5orf45 |
| 0.026185887 | 0.705748862 | 0.861 | 1 | 23328 | SASH1 |
| 0.02615738 | 0.706054374 | 0.864 | 1 | 3770 | KCNJ14 |
| 0.02614183 | 0.706221037 | 0.871 | 1 | 586 | BCAT1 |
| 0.026126281 | 0.706387714 | 0.853 | 1 | 146057 | TTBK2 |
| 0.026124985 | 0.706401604 | 0.86 | 1 | 23155 | CLCC1 |
| 0.026121098 | 0.706443276 | 0.861 | 1 | 2800 | GOLGA1 |
| 0.026097774 | 0.706693324 | 0.835 | 1 | 63874 | ABHD4 |
| 0.026074449 | 0.706943404 | 0.86 | 1 | 7477 | WNT7B |
| 0.026030393 | 0.707415863 | 0.857 | 1 | 10962 | MLLT11 |
| 0.026004477 | 0.707693833 | 0.838 | 1 | 284355 | TPRX1 |
| 0.026003181 | 0.707707732 | 0.864 | 1 | 9534 | ZNF254 |
| 0.025978561 | 0.707971841 | 0.87 | 1 | 646993 | HMGB3P24 |
| 0.025974674 | 0.708013546 | 0.851 | 1 | 6048 | RNF5 |
| 0.025953941 | 0.708235985 | 0.846 | 1 | 5660 | PSAP |
| 0.025948758 | 0.708291598 | 0.844 | 1 | 133522 | PPARGC1B |
| 0.025917659 | 0.708625313 | 0.859 | 1 | 375341 | C3orf62 |
| 0.025916364 | 0.708639219 | 0.855 | 1 | 116988 | AGAP3 |
| 0.025876194 | 0.709070352 | 0.851 | 1 | 10873 | ME3 |
| 0.025813996 | 0.709738095 | 0.856 | 1 | 9311 | ACCN3 |
| 0.025753094 | 0.710392143 | 0.877 | 1 | 30851 | TAX1BP3 |
| 0.025725883 | 0.710684445 | 0.88 | 1 | 220042 | C11orf82 |
| 0.025702559 | 0.710935024 | 0.865 | 1 | 124512 | C17orf95 |
| 0.025689601 | 0.711074248 | 0.854 | 1 | 203054 | ADCK5 |
| 0.02568053 | 0.71117171 | 0.845 | 1 | 56521 | DNAJC12 |
| 0.025659798 | 0.711394499 | 0.869 | 1 | 8971 | H1FX |
| 0.025658502 | 0.711408424 | 0.861 | 1 | 8398 | PLA2G6 |
| 0.025658502 | 0.711408424 | 0.865 | 1 | 339745 | SPOPL |
| 0.025657206 | 0.711422349 | 0.858 | 1 | 115353 | LRRC42 |
| 0.025648136 | 0.711519828 | 0.834 | 1 | 121260 | SLC15A4 |
| 0.025632586 | 0.711686946 | 0.867 | 1 | 23344 | ESYT1 |
| 0.025629995 | 0.7117148 | 0.864 | 1 | 56101 | PCDHGB5 |
| 0.025620924 | 0.711812294 | 0.851 | 1 | 58505 | OSTC |
| 0.025620924 | 0.711812294 | 0.848 | 1 | 644246 | AC217773.2 |
| 0.025619629 | 0.711826222 | 0.847 | 1 | 57458 | TMCC3 |
| 0.025601488 | 0.712021223 | 0.853 | 1 | 10857 | PGRMC1 |
| 0.025589825 | 0.712146592 | 0.862 | 1 | 80318 | GKAP1 |
| 0.025579459 | 0.712258037 | 0.855 | 1 | 119391 | GSTO2 |
| 0.025567797 | 0.712383419 | 0.846 | 1 | 11159 | RABL2A |
| 0.025565206 | 0.712411283 | 0.863 | 1 | 1366 | CLDN7 |
| 0.025558727 | 0.712480945 | 0.849 | 1 | 22863 | KIAA0831 |
| 0.025552248 | 0.712550608 | 0.846 | 1 | 338707 | B4GALNT4 |
| 0.025535402 | 0.712731745 | 0.866 | 1 | 7004 | TEAD4 |
| 0.025531515 | 0.712773549 | 0.862 | 1 | 64968 | MRPS6 |
| 0.025526332 | 0.712829287 | 0.863 | 1 | 57709 | SLC7A14 |
| 0.025517261 | 0.712926834 | 0.873 | 1 | 6898 | TAT |
| 0.025492642 | 0.713191627 | 0.852 | 1 | 5266 | PI3 |
| 0.025438219 | 0.713777081 | 0.866 | 1 | 253314 | EIF4E1B |
| 0.025436923 | 0.713791022 | 0.869 | 1 | 10655 | DMRT2 |
| 0.025420078 | 0.71397227 | 0.877 | 1 | 5547 | PRCP |
| 0.025413599 | 0.714041984 | 0.858 | 1 | 50618 | ITSN2 |
| 0.025374725 | 0.714460323 | 0.872 | 1 | 56922 | MCCC1 |
| 0.025348809 | 0.714739262 | 0.865 | 1 | 3658 | IREB2 |
| 0.025322894 | 0.71501824 | 0.855 | 1 | 23047 | PDS5B |
| 0.025296978 | 0.715297255 | 0.854 | 1 | 283927 | NUDT7 |
| 0.025294386 | 0.715325158 | 0.848 | 1 | 54861 | SNRK |
| 0.025282724 | 0.715450729 | 0.869 | 1 | 56122 | PCDHB14 |
| 0.02518554 | 0.716497451 | 0.852 | 1 | 221264 | AKD1 |
| 0.025166104 | 0.716706859 | 0.873 | 1 | 2767 | GNA11 |
| 0.025118159 | 0.71722349 | 0.858 | 1 | 117584 | RFFL |
| 0.025115568 | 0.717251419 | 0.849 | 1 | 64326 | RFWD2 |
| 0.025036525 | 0.718103454 | 0.854 | 1 | 81619 | TSPAN14 |
| 0.025027454 | 0.718201251 | 0.852 | 1 | 60494 | CCDC81 |
| 0.025006722 | 0.718424803 | 0.861 | 1 | 3316 | HSPB2 |
| 0.024932862 | 0.719221404 | 0.877 | 1 | 8560 | DEGS1 |
| 0.024917313 | 0.719389149 | 0.882 | 1 | 3097 | HIVEP2 |
| 0.024905651 | 0.719514966 | 0.865 | 1 | 55699 | IARS2 |
| 0.024868073 | 0.719920427 | 0.849 | 1 | 375056 | MIA3 |
| 0.024860298 | 0.720004326 | 0.852 | 1 | 6571 | SLC18A2 |
| 0.024857707 | 0.720032293 | 0.864 | 1 | 22919 | MAPRE1 |
| 0.024836974 | 0.720256041 | 0.849 | 1 | 400668 | PRSSL1 |
| 0.024803284 | 0.720619683 | 0.863 | 1 | 51582 | AZIN1 |
| 0.02477348 | 0.720941419 | 0.868 | 1 | 6738 | TROVE2 |
| 0.024722945 | 0.721487083 | 0.856 | 1 | 338755 | OR2AG2 |
| 0.024712579 | 0.721599031 | 0.86 | 1 | 148266 | ZNF569 |
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| 0.014162876 | 7.82707E-07 | 55083 | KIF26B |
| 0.014159805 | 7.87018E-07 | 411 | ARSB |
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| 0.014147351 | 8.04736E-07 | 286144 | C8orf83 |
| 0.014134013 | 8.24138E-07 | 114788 | CSMD3 |
| 0.014125733 | 8.36408E-07 | 9913 | SUPT7L |
| 0.014115361 | 8.52025E-07 | 84779 | NAA11 |
| 0.014112667 | 8.56128E-07 | 84224 | NBPF3 |
| 0.01410934 | 8.61221E-07 | 23137 | SMC5 |
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| 0.014079935 | 9.07518E-07 | 84034 | EMILIN2 |
| 0.014067119 | 9.28437E-07 | 442590 | SPDYE5 |
| 0.014058641 | 9.42531E-07 | 57026 | PDXP |
| 0.014053303 | 9.51509E-07 | 1645 | AKR1C1 |
| 0.014039835 | 9.7453E-07 | 3577 | IL8RA |
| 0.014015882 | 1.0168E-06 | 166379 | BBS12 |
| 0.014001812 | 1.04245E-06 | 84451 | MAP3K19 |
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| 0.013984208 | 1.07542E-06 | 729313 | LOC729313 |
| 0.013949007 | 1.14439E-06 | 149483 | CCDC17 |
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| 0.013941104 | 1.16044E-06 | 6900 | CNTN2 |
| 0.013940007 | 1.16269E-06 | 23743 | BHMT2 |
| 0.013913993 | 1.21719E-06 | 172 | AFG3L1P |
| 0.013907325 | 1.23155E-06 | 54903 | MKS1 |
| 0.013882883 | 1.2856E-06 | 51704 | GPRC5B |
| 0.013878678 | 1.29513E-06 | 7975 | MAFK |
| 0.013877679 | 1.2974E-06 | 146429 | SLC22A31 |
| 0.013877409 | 1.29801E-06 | 55074 | OXR1 |
| 0.013864307 | 1.3282E-06 | 8569 | MKNK1 |
| 0.013847889 | 1.36697E-06 | 54915 | YTHDF1 |
| 0.013843572 | 1.37735E-06 | 7481 | WNT11 |
| 0.013841003 | 1.38355E-06 | 441869 | ANKRD65 |
| 0.013795071 | 1.49923E-06 | 25936 | NSL1 |
| 0.013788744 | 1.51588E-06 | 84647 | PLA2G12B |
| 0.013759085 | 1.5963E-06 | 100271715 | AC019171.4 |
| 0.013757858 | 1.59972E-06 | 79800 | ALS2CR8 |
| 0.013737798 | 1.65654E-06 | 55729 | ATF7IP |
| 0.013730885 | 1.67657E-06 | 9547 | CXCL14 |
| 0.013720546 | 1.70695E-06 | 4188 | MDFI |
| 0.013717571 | 1.7158E-06 | 7419 | VDAC3 |
| 0.013666686 | 1.87401E-06 | 2785 | GNG3 |
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| 0.013609075 | 2.07006E-06 | 79002 | C19orf43 |
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| 0.013592105 | 2.13147E-06 | 745 | C11orf9 |
| 0.013583883 | 2.16185E-06 | 84968 | PNMA6A |
| 0.013575233 | 2.19426E-06 | 1036 | CDO1 |
| 0.013559064 | 2.25609E-06 | 25932 | CLIC4 |
| 0.013552587 | 2.28133E-06 | 160298 | C11orf42 |
| 0.013545446 | 2.30946E-06 | 9830 | TRIM14 |
| 0.013524905 | 2.39227E-06 | 9058 | SLC13A2 |
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| 0.013436723 | 2.78128E-06 | 7770 | ZNF227 |
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| 0.013359519 | 3.17108E-06 | 7079 | TIMP4 |
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| 0.013328259 | 3.34338E-06 | 56969 | RPL23AP32 |
| 0.013321541 | 3.38156E-06 | 2050 | EPHB4 |
| 0.013319664 | 3.39231E-06 | 100130776 | RP11-571M6.6 |
| 0.013310418 | 3.44571E-06 | 127064 | OR2T12 |
| 0.013307111 | 3.465E-06 | 84908 | FAM136A |
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| 0.013263483 | 3.72943E-06 | 112812 | FDX1L |

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| 0.024542831 | 0.723433031 | 0.862 | 1 | 116254 | C6orf72 |
| 0.024531169 | 0.723559089 | 0.856 | 1 | 59269 | HIVEP3 |
| 0.024492295 | 0.723979337 | 0.866 | 1 | 727701 | LINC00165 |
| 0.02443528 | 0.72459585 | 0.863 | 1 | 10422 | UBAC1 |
| 0.024431393 | 0.724637891 | 0.876 | 1 | 26065 | LSM14A |
| 0.024418435 | 0.724778035 | 0.883 | 1 | 9538 | EI24 |
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| 0.024214997 | 0.726979497 | 0.873 | 1 | 27163 | NAAA |
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| 0.024173532 | 0.727428479 | 0.872 | 1 | 54971 | BANP |
| 0.024147616 | 0.727709139 | 0.856 | 1 | 6814 | STXBP3 |
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| 0.024064686 | 0.728607497 | 0.847 | 1 | 128977 | C22orf39 |
| 0.024059502 | 0.728663657 | 0.861 | 1 | 51534 | VTA1 |
| 0.02403877 | 0.72888831 | 0.863 | 1 | 6457 | SH3GL3 |
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| 0.023954544 | 0.729801202 | 0.864 | 1 | 25940 | FAM98A |
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| 0.023863839 | 0.730784743 | 0.845 | 1 | 80774 | LIMD2 |
| 0.02385736 | 0.730855013 | 0.884 | 1 | 6596 | HLTF |
| 0.023831444 | 0.731136114 | 0.864 | 1 | 22864 | R3HDM2 |
| 0.023782204 | 0.731670306 | 0.886 | 1 | 7095 | SEC62 |
| 0.023729077 | 0.732246816 | 0.874 | 1 | 164 | AP1G1 |
| 0.023697978 | 0.732584355 | 0.857 | 1 | 79713 | TMEM149 |
| 0.023686316 | 0.732710945 | 0.883 | 1 | 572558 | RP11-561O23.6 |
| 0.02365133 | 0.73309076 | 0.885 | 1 | 55780 | C6orf70 |
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| 0.023582653 | 0.73383651 | 0.876 | 1 | 10330 | CNPY2 |
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| 0.023431046 | 0.735483674 | 0.878 | 1 | 79415 | C17orf62 |
| 0.023423272 | 0.735568177 | 0.859 | 1 | 84418 | CYSTM1 |
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| 0.023374032 | 0.736103434 | 0.871 | 1 | 4609 | MYC |
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| 0.023134311 | 0.738711107 | 0.875 | 1 | 353 | APRT |
| 0.023100621 | 0.739077831 | 0.867 | 1 | 57325 | CSRP2BP |
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| 0.023047494 | 0.739656247 | 0.86 | 1 | 563 | AZGP1 |
| 0.023020282 | 0.739952565 | 0.867 | 1 | 29990 | PILRB |
| 0.023013803 | 0.740023123 | 0.876 | 1 | 1785 | DNM2 |
| 0.022998254 | 0.74019247 | 0.888 | 1 | 53358 | SHC3 |
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| 0.022955493 | 0.74065824 | 0.876 | 1 | 100170765 | C19orf69 |
| 0.022914028 | 0.741109985 | 0.883 | 1 | 2675 | GFRA2 |
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| 0.022897183 | 0.741293533 | 0.876 | 1 | 56993 | TOMM22 |
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| 0.022853126 | 0.741773648 | 0.868 | 1 | 79368 | FCRL2 |
| 0.022833689 | 0.741985495 | 0.86 | 1 | 83903 | GSG2 |
| 0.022796111 | 0.742395122 | 0.878 | 1 | 10248 | POP7 |
| 0.022775379 | 0.742621154 | 0.88 | 1 | 54509 | RHOF |
| 0.022766308 | 0.74272005 | 0.868 | 1 | 256586 | LYSMD2 |
| 0.022754646 | 0.742847208 | 0.876 | 1 | 9891 | NUAK1 |
| 0.022741688 | 0.742988503 | 0.868 | 1 | 51031 | GLOD4 |
| 0.022714477 | 0.743285251 | 0.873 | 1 | 4968 | OGG1 |
| 0.022683378 | 0.743624437 | 0.88 | 1 | 11024 | LILRA1 |
| 0.022660054 | 0.74387886 | 0.875 | 1 | 51538 | ZCCHC17 |
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| 0.013107175 | 4.84482E-06 | 5644 | PRSS1 |
| 0.01310429 | 4.86814E-06 | 400359 | C15orf53 |
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| 0.013015732 | 5.63872E-06 | 171019 | ADAMTS19 |
| 0.013005406 | 5.73582E-06 | 5046 | PCSK6 |
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| 0.012894806 | 6.88143E-06 | 2904 | GRIN2B |
| 0.012880673 | 7.0427E-06 | 221477 | C6orf89 |
| 0.012869285 | 7.17528E-06 | 23265 | EXOC7 |
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| 0.0127164 | 9.20314E-06 | 55666 | NPLOC4 |
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| 0.012574215 | 1.15719E-05 | 162681 | C18orf54 |
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| 0.012455104 | 1.39939E-05 | 54894 | RNF43 |
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| 0.012433672 | 1.44782E-05 | 3399 | ID3 |
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| 0.012260285 | 1.90278E-05 | 9880 | ZBTB39 |
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| 0.022617293 | 0.744345373 | 0.888 | 1 | 54465 | ETAA1 |
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| 0.022514926 | 0.745462556 | 0.88 | 1 | 57092 | PCNP |
| 0.022503264 | 0.745589864 | 0.872 | 1 | 9470 | EIF4E2 |
| 0.022460503 | 0.746056719 | 0.888 | 1 | 80235 | PIGZ |
| 0.022454024 | 0.746127462 | 0.878 | 1 | 6445 | SGCG |
| 0.022454024 | 0.746127462 | 0.861 | 1 | 10671 | DCTN6 |
| 0.022446249 | 0.746212358 | 0.874 | 1 | 8854 | ALDH1A2 |
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| 0.022316671 | 0.747627727 | 0.862 | 1 | 1622 | DBI |
| 0.022315375 | 0.747641885 | 0.895 | 1 | 255520 | ELMOD2 |
| 0.022260952 | 0.748236597 | 0.863 | 1 | 2180 | ACSL1 |
| 0.022202641 | 0.748873954 | 0.878 | 1 | 8324 | FZD7 |
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| 0.021892949 | 0.752261875 | 0.882 | 1 | 8284 | KDM5D |
| 0.021881287 | 0.752389547 | 0.882 | 1 | 8803 | SUCLA2 |
| 0.021879991 | 0.752403733 | 0.902 | 1 | 25871 | C3orf17 |
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| 0.021832047 | 0.75292868 | 0.863 | 1 | 2161 | F12 |
| 0.021817793 | 0.753084767 | 0.882 | 1 | 391192 | OR2L3 |
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| 0.021762074 | 0.753695023 | 0.878 | 1 | 6521 | SLC4A1 |
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| 0.021686919 | 0.754518401 | 0.882 | 1 | 55177 | FAM82A2 |
| 0.021623425 | 0.755214229 | 0.873 | 1 | 27154 | BRPF3 |
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| 0.021495142 | 0.75662069 | 0.864 | 1 | 202243 | CCDC125 |
| 0.021471818 | 0.756876496 | 0.88 | 1 | 166 | AES |
| 0.021440719 | 0.757217612 | 0.884 | 1 | 165257 | C1QL2 |
| 0.021422578 | 0.757416619 | 0.9 | 1 | 55720 | TSR1 |
| 0.021414804 | 0.757501912 | 0.869 | 1 | 51214 | IGF2AS |
| 0.021404437 | 0.757615641 | 0.875 | 1 | 768211 | RELL1 |
| 0.021396663 | 0.757700941 | 0.87 | 1 | 1207 | CLNS1A |
| 0.021383705 | 0.757843114 | 0.867 | 1 | 100131294 | LOC100131294 |
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| 0.021364268 | 0.75805639 | 0.867 | 1 | 7637 | ZNF84 |
| 0.021309845 | 0.758653658 | 0.891 | 1 | 29108 | PYCARD |
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| 0.021211365 | 0.759734794 | 0.877 | 1 | 84976 | DISP1 |
| 0.021154351 | 0.760360928 | 0.895 | 1 | 25924 | MYRIP |
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| 0.020983307 | 0.762240267 | 0.883 | 1 | 79885 | HDAC11 |
| 0.020983307 | 0.762240267 | 0.866 | 1 | 220202 | ATOH7 |
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| 0.02077339 | 0.764548633 | 0.874 | 1 | 5245 | PHB |
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| 0.020643811 | 0.765974592 | 0.878 | 1 | 221178 | SPATA13 |
| 0.020623079 | 0.766202818 | 0.885 | 1 | 284339 | TMEM145 |
| 0.020614008 | 0.766302674 | 0.875 | 1 | 122416 | ANKRD9 |
| 0.020588092 | 0.766587997 | 0.888 | 1 | 8795 | TNFRSF10B |
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| 0.020511641 | 0.767429882 | 0.885 | 1 | 653509 | SFTPA1 |
| 0.020424823 | 0.768386252 | 0.889 | 1 | 2960 | GTF2E1 |
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| 0.020208427 | 0.770771565 | 0.882 | 1 | 126282 | TNFAIP8L1 |
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| 0.011950875 | 3.07171E-05 | 6468 | FBXW4 |
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| 0.011932327 | 3.16005E-05 | 51014 | TMED7 |
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| 0.011889846 | 3.37158E-05 | 55746 | NUP133 |
| 0.011879837 | 3.42334E-05 | 28981 | IFT81 |
| 0.011877596 | 3.43503E-05 | 84717 | AC011498.3 |
| 0.011851641 | 3.57324E-05 | 127703 | C1orf216 |
| 0.011841916 | 3.62637E-05 | 25775 | C22orf24 |
| 0.011811359 | 3.79824E-05 | 6886 | TAL1 |
| 0.01180529 | 3.83328E-05 | 9277 | WDR46 |
| 0.011805017 | 3.83487E-05 | 57213 | C13orf1 |
| 0.011787915 | 3.93532E-05 | 51166 | AADAT |
| 0.011787824 | 3.93586E-05 | 729020 | LOC729020 |
| 0.011769783 | 4.04454E-05 | 10861 | SLC26A1 |
| 0.011760386 | 4.10227E-05 | 55970 | GNG12 |
| 0.011752867 | 4.14902E-05 | 79706 | PRKRIP1 |
| 0.011751845 | 4.15542E-05 | 26999 | CYFIP2 |
| 0.01174434 | 4.20266E-05 | 8879 | SGPL1 |
| 0.011737603 | 4.24551E-05 | 55275 | VPS53 |
| 0.011736402 | 4.25319E-05 | 100289143 | LOC100289143 |
| 0.011732375 | 4.27903E-05 | 4809 | NHP2L1 |
| 0.011723411 | 4.33711E-05 | 780 | DDR1 |
| 0.011713266 | 4.40374E-05 | 2054 | STX2 |
| 0.011700838 | 4.48669E-05 | 22821 | RASA3 |
| 0.011690462 | 4.55707E-05 | 3029 | HAGH |
| 0.011685024 | 4.59437E-05 | 11161 | C14orf1 |
| 0.011674091 | 4.67025E-05 | 10157 | AASS |
| 0.011651037 | 4.83417E-05 | 56970 | ATXN7L3 |
| 0.011643218 | 4.89099E-05 | 79640 | Z83840.4 |
| 0.011617584 | 5.08176E-05 | 138864 | LOC138864 |
| 0.011617426 | 5.08295E-05 | 8671 | SLC4A4 |
| 0.011612449 | 5.1208E-05 | 91039 | DPP9 |
| 0.01159205 | 5.27877E-05 | 161635 | CSNK1A1P1 |
| 0.011589841 | 5.29615E-05 | 3433 | IFIT2 |
| 0.011587517 | 5.31449E-05 | 51078 | THAP4 |
| 0.011560499 | 5.53221E-05 | 81492 | AC011530.1 |
| 0.01155512 | 5.57655E-05 | 89792 | GAL3ST3 |
| 0.01155121 | 5.60899E-05 | 4221 | MEN1 |
| 0.011539886 | 5.70397E-05 | 166793 | ZNF509 |
| 0.011530916 | 6.00531E-05 | 64084 | CLSTN2 |
| 0.01152853 | 5.80074E-05 | 644591 | PPIAL4G |
| 0.011517962 | 5.89218E-05 | 23279 | NUP160 |
| 0.011500106 | 6.04981E-05 | 112858 | TP53RK |
| 0.011494972 | 6.09586E-05 | 64708 | COPS7B |
| 0.011479919 | 6.23282E-05 | 91608 | RASL10B |
| 0.011439095 | 6.61906E-05 | 645249 | RP5-1121A15.1 |
| 0.011435395 | 6.65515E-05 | 2123 | EVI2A |
| 0.011416861 | 6.83883E-05 | 10734 | STAG3 |
| 0.011407905 | 6.92929E-05 | 5981 | RFC1 |
| 0.011405063 | 6.95824E-05 | 732253 | RP11-535K1.1 |
| 0.0114033 | 6.97624E-05 | 4133 | MAP2 |
| 0.011356178 | 7.47432E-05 | 64419 | MTMR14 |
| 0.011346941 | 7.57582E-05 | 5612 | PRKRIR |

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| 0.020157891 | 0.771328926 | 0.889 | 1 | 57459 | GATAD2B |
| 0.020120314 | 0.771743449 | 0.888 | 1 | 55122 | AKIRIN2 |
| 0.020115131 | 0.77180063 | 0.883 | 1 | 1983 | EIF5 |
| 0.020107356 | 0.771886404 | 0.915 | 1 | 199974 | CYP4Z1 |
| 0.020087919 | 0.772100849 | 0.893 | 1 | 8976 | WASL |
| 0.020077553 | 0.772215228 | 0.885 | 1 | 7087 | ICAM5 |
| 0.020017947 | 0.772872998 | 0.875 | 1 | 10333 | TLR6 |
| 0.020010172 | 0.772958806 | 0.867 | 1 | 10279 | PRSS16 |
| 0.020002397 | 0.773044617 | 0.878 | 1 | 57560 | IFT80 |
| 0.019986848 | 0.773216247 | 0.877 | 1 | 9148 | NEURL |
| 0.019957045 | 0.773545235 | 0.893 | 1 | 80764 | THAP7 |
| 0.019928537 | 0.773859957 | 0.898 | 1 | 161291 | TMEM30B |
| 0.019892255 | 0.774260566 | 0.888 | 1 | 150356 | CHADL |
| 0.019849494 | 0.774732789 | 0.883 | 1 | 10564 | ARFGEF2 |
| 0.019827466 | 0.774976088 | 0.896 | 1 | 1137 | CHRNA4 |
| 0.0198171 | 0.775090589 | 0.897 | 1 | 10083 | USH1C |
| 0.019782114 | 0.775477067 | 0.869 | 1 | 663 | BNIP2 |
| 0.019769156 | 0.77562022 | 0.894 | 1 | 283377 | SPRYD4 |
| 0.019748423 | 0.775849282 | 0.885 | 1 | 9839 | ZEB2 |
| 0.019739353 | 0.775949503 | 0.903 | 1 | 5464 | PPA1 |
| 0.019701775 | 0.776364742 | 0.882 | 1 | 6192 | RPS4Y1 |
| 0.019657718 | 0.776851656 | 0.889 | 1 | 2549 | GAB1 |
| 0.019639577 | 0.777052175 | 0.892 | 1 | 161247 | FITM1 |
| 0.019633098 | 0.777123792 | 0.889 | 1 | 121551 | BTBD11 |
| 0.019607183 | 0.777410281 | 0.905 | 1 | 5097 | PCDH1 |
| 0.019569605 | 0.777825744 | 0.896 | 1 | 57380 | MRS2 |
| 0.01956183 | 0.777911709 | 0.896 | 1 | 11067 | C10orf10 |
| 0.019482787 | 0.778785847 | 0.903 | 1 | 374291 | NDUFS7 |
| 0.019473717 | 0.778886176 | 0.905 | 1 | 30845 | EHD3 |
| 0.019416702 | 0.779516897 | 0.893 | 1 | 8932 | MBD2 |
| 0.019416702 | 0.779516897 | 0.886 | 1 | 23548 | TTC33 |
| 0.019415406 | 0.779531233 | 0.886 | 1 | 11240 | PADI2 |
| 0.019408927 | 0.779602915 | 0.876 | 1 | 26147 | PHF19 |
| 0.019386899 | 0.779846649 | 0.882 | 1 | 4763 | NF1 |
| 0.01937135 | 0.78001871 | 0.901 | 1 | 4207 | MEF2BNB-MEF2B |
| 0.019366166 | 0.780076066 | 0.882 | 1 | 10276 | NET1 |
| 0.019329884 | 0.78047759 | 0.904 | 1 | 6934 | TCF7L2 |
| 0.019324701 | 0.780534956 | 0.878 | 1 | 840 | CASP7 |
| 0.019315631 | 0.780635348 | 0.9 | 1 | 4040 | LRP6 |
| 0.019313039 | 0.780664032 | 0.88 | 1 | 492311 | C5orf53 |
| 0.01922363 | 0.781653818 | 0.879 | 1 | 286410 | ATP11C |
| 0.019222334 | 0.781668166 | 0.893 | 1 | 10347 | ABCA7 |
| 0.01919901 | 0.78192643 | 0.884 | 1 | 9326 | ZNHIT3 |
| 0.019166615 | 0.78228517 | 0.873 | 1 | 116535 | MRGPRF |
| 0.019096643 | 0.783060206 | 0.91 | 1 | 158431 | ZNF782 |
| 0.019081094 | 0.783232465 | 0.9 | 1 | 254228 | FAM26E |
| 0.019062953 | 0.783433447 | 0.897 | 1 | 892 | CCNC |
| 0.019057769 | 0.783490874 | 0.89 | 1 | 2000 | ELF4 |
| 0.019025375 | 0.783849814 | 0.923 | 1 | 23012 | STK38L |
| 0.019018896 | 0.783921608 | 0.908 | 1 | 220323 | OAF |
| 0.019016304 | 0.783950326 | 0.9 | 1 | 64838 | FNDC4 |
| 0.018980022 | 0.784352407 | 0.905 | 1 | 26507 | CNNM1 |
| 0.018970952 | 0.784452937 | 0.888 | 1 | 25992 | SNED1 |
| 0.018947628 | 0.784711457 | 0.905 | 1 | 10240 | MRPS31 |
| 0.018925599 | 0.784955638 | 0.885 | 1 | 6327 | SCN2B |
| 0.018878951 | 0.785472794 | 0.905 | 1 | 9716 | AQR |
| 0.01886988 | 0.785573363 | 0.89 | 1 | 27152 | INTU |
| 0.018858218 | 0.785702672 | 0.889 | 1 | 113675 | SDSL |
| 0.018838782 | 0.785918199 | 0.897 | 1 | 83882 | TSPAN10 |
| 0.018828415 | 0.786033154 | 0.894 | 1 | 170384 | FUT11 |
| 0.018770105 | 0.786679859 | 0.898 | 1 | 1795 | DOCK3 |
| 0.018742893 | 0.786981705 | 0.894 | 1 | 81691 | AC004381.2 |
| 0.018741598 | 0.786996079 | 0.903 | 1 | 8499 | PPFIA2 |
| 0.018736414 | 0.787053578 | 0.893 | 1 | 58155 | PTBP2 |
| 0.018722161 | 0.787211704 | 0.889 | 1 | 80020 | FOXRED2 |
| 0.018672921 | 0.787758027 | 0.889 | 1 | 6853 | SYN1 |
| 0.018644414 | 0.788074366 | 0.887 | 1 | 124739 | USP43 |
| 0.018539455 | 0.789239369 | 0.902 | 1 | 84969 | C20orf100 |
| 0.018466891 | 0.790045077 | 0.898 | 1 | 284383 | OR2Z1 |
| 0.018464299 | 0.790073857 | 0.893 | 1 | 146691 | TOM1L2 |
| 0.018440975 | 0.790332885 | 0.892 | 1 | 7077 | TIMP2 |
| 0.018433201 | 0.790419232 | 0.897 | 1 | 6786 | STIM1 |
| 0.018381369 | 0.790994949 | 0.9 | 1 | 51575 | ESF1 |
| 0.018358045 | 0.791254059 | 0.905 | 1 | 90199 | WFDC8 |
| 0.018356749 | 0.791268454 | 0.913 | 1 | 6288 | SAA1 |
| 0.018356749 | 0.791268454 | 0.891 | 1 | 84240 | ZCCHC9 |
| 0.0183412 | 0.791441207 | 0.882 | 1 | 81545 | FBXO38 |
| 0.018315284 | 0.791729152 | 0.904 | 1 | 83854 | ANGPTL6 |
| 0.018307509 | 0.791815541 | 0.901 | 1 | 961 | CD47 |
| 0.018284185 | 0.792074723 | 0.892 | 1 | 158055 | C9orf163 |
| 0.018266044 | 0.792276325 | 0.916 | 1 | 9653 | HS2ST1 |
| 0.018259565 | 0.792348329 | 0.905 | 1 | 387787 | AP001372.1 |

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| 0.011340488 | 7.6475E-05 | 10165 | SLC25A13 |
| 0.011329177 | 7.77469E-05 | 91966 | CXorf40A |
| 0.011326222 | 7.80825E-05 | 4493 | MT1E |
| 0.011314488 | 7.94285E-05 | 284194 | AC025627.16 |
| 0.011305911 | 8.04263E-05 | 60312 | AFAP1 |
| 0.011301067 | 8.09949E-05 | 3775 | KCNK1 |
| 0.01127039 | 8.46859E-05 | 402778 | AC068580.3 |
| 0.011269076 | 8.48475E-05 | 1755 | DMBT1 |
| 0.011267665 | 8.50213E-05 | 9366 | RAB9BP1 |
| 0.011245061 | 8.78525E-05 | 5191 | PEX7 |
| 0.011224667 | 9.04831E-05 | 6370 | CCL25 |
| 0.011223067 | 9.06927E-05 | 283 | ANG |
| 0.011211809 | 9.21799E-05 | 26233 | FBXL6 |
| 0.011200108 | 9.37499E-05 | 344805 | TMPRSS7 |
| 0.011198221 | 9.40054E-05 | 154 | ADRB2 |
| 0.011192866 | 9.47342E-05 | 26151 | NAT9 |
| 0.011180548 | 9.64309E-05 | 8535 | CBX4 |
| 0.011169933 | 9.79161E-05 | 10190 | TXNDC9 |
| 0.011167099 | 9.83162E-05 | 51361 | HOOK1 |
| 0.011146435 | 0.000101281 | 55814 | BDP1 |
| 0.011136522 | 0.000102733 | 84292 | AC010422.1 |
| 0.011131813 | 0.000103429 | 6470 | SHMT1 |
| 0.011128324 | 0.000103948 | 11074 | TRIM31 |
| 0.011126946 | 0.000104922 | 55652 | SLC48A1 |
| 0.011124665 | 0.000104495 | 23082 | PPRC1 |
| 0.011099826 | 0.00010828 | 729595 | HMGB3P22 |
| 0.011081927 | 0.000111088 | 100286918 | NDUFS5P2 |
| 0.011026445 | 0.000120232 | 1981 | EIF4G1 |
| 0.010997091 | 0.000125353 | 283869 | NPW |
| 0.010984767 | 0.000127564 | 10411 | RAPGEF3 |
| 0.010968662 | 0.000130508 | 10801 | SEPTIN9 |
| 0.010954646 | 0.000133122 | 400673 | VMAC |
| 0.010927889 | 0.000138251 | 613209 | DEFB136 |
| 0.01092716 | 0.000138393 | 100128124 | HGC6.3 |
| 0.010921692 | 0.000139465 | 84216 | TMEM117 |
| 0.010920379 | 0.000139723 | 1611 | DAP |
| 0.010907657 | 0.000142252 | 7699 | ZNF140 |
| 0.010900973 | 0.000143597 | 117283 | IP6K3 |
| 0.010896839 | 0.000144435 | 9853 | RUSC2 |
| 0.010889494 | 0.000145936 | 1211 | CLTA |
| 0.010882312 | 0.000147417 | 51109 | RDH11 |
| 0.010878181 | 0.000148276 | 9312 | KCNB2 |
| 0.010845734 | 0.000155185 | 286262 | C9orf75 |
| 0.010837368 | 0.000157015 | 3589 | IL11 |
| 0.010827639 | 0.000159168 | 79832 | QSER1 |
| 0.010822344 | 0.000160352 | 55636 | CHD7 |
| 0.010820654 | 0.000160731 | 723961 | INS-IGF2 |
| 0.010816718 | 0.000161619 | 10002 | NR2E3 |
| 0.010815421 | 0.000161912 | 410 | ARSA |
| 0.010804249 | 0.00016446 | 1266 | CNN3 |
| 0.010802594 | 0.000164841 | 183 | AGT |
| 0.010792381 | 0.000167208 | 4660 | PPP1R12B |
| 0.010715787 | 0.000186008 | 26102 | DKFZP434A062 |
| 0.010684841 | 0.000194153 | 58490 | RPRD1B |
| 0.010661535 | 0.000200507 | 5376 | PMP22 |
| 0.010660823 | 0.000200705 | 136541 | PRSS58 |
| 0.010655091 | 0.000202299 | 642696 | AC007601.1 |
| 0.010648434 | 0.000204165 | 9685 | CLINT1 |
| 0.010635689 | 0.000207783 | 1607 | DGKB |
| 0.01060466 | 0.000216844 | 23580 | CDC42EP4 |
| 0.01059485 | 0.000219785 | 9656 | MDC1 |
| 0.010592324 | 0.000220549 | 763 | CA5A |
| 0.01058712 | 0.000222129 | 29911 | HOOK2 |
| 0.010586497 | 0.000222319 | 126364 | LRRC25 |
| 0.010579844 | 0.000224357 | 91368 | CDKN2AIPNL |
| 0.010542241 | 0.000236208 | 51490 | C9orf114 |
| 0.010539462 | 0.000237106 | 388552 | BLOC1S3 |
| 0.010535608 | 0.000238358 | 3915 | LAMC1 |
| 0.010530222 | 0.000240117 | 7461 | CLIP2 |
| 0.01052929 | 0.000240423 | 55069 | C7orf42 |
| 0.010523074 | 0.000242472 | 1910 | EDNRB |
| 0.010493183 | 0.000252552 | 306 | ANXA3 |
| 0.010477815 | 0.000257887 | 124538 | OR4D2 |
| 0.010455981 | 0.000265648 | 402176 | RPL21P44 |
| 0.010425727 | 0.000276765 | 129293 | AC010087.3 |
| 0.010423697 | 0.000277526 | 92675 | DTD1 |
| 0.010422876 | 0.000277834 | 6146 | RPL22 |
| 0.010417196 | 0.000279977 | 57589 | KIAA1432 |
| 0.010413844 | 0.000281249 | 2980 | GUCA2A |
| 0.010377783 | 0.000295278 | 152940 | C4orf45 |
| 0.010375444 | 0.00029621 | 80830 | APOL6 |
| 0.010370694 | 0.000298112 | 440023 | KRTAP5-6 |

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|---|---|---|---|---|---|
| 0.0182181 | 0.792809197 | 0.905 | 1 | 51057 | C2orf86 |
| 0.018162381 | 0.7934286 | 0.901 | 1 | 4107 | MAGEA8 |
| 0.018152015 | 0.793543853 | 0.897 | 1 | 152100 | CMC1 |
| 0.018100184 | 0.794120181 | 0.896 | 1 | 7745 | ZNF192 |
| 0.018087226 | 0.794264281 | 0.899 | 1 | 405 | ARNT |
| 0.018087226 | 0.794264281 | 0.913 | 1 | 643394 | SPINK9 |
| 0.018054831 | 0.79462456 | 0.898 | 1 | 158801 | NKAPP1 |
| 0.018047056 | 0.794711034 | 0.898 | 1 | 476 | ATP1A1 |
| 0.018023732 | 0.79497047 | 0.897 | 1 | 1627 | DBN1 |
| 0.018010774 | 0.79511461 | 0.903 | 1 | 9212 | AURKB |
| 0.018001704 | 0.795215513 | 0.914 | 1 | 29797 | POM121L8P |
| 0.017970605 | 0.795561491 | 0.912 | 1 | 7402 | UTRN |
| 0.017926548 | 0.796051695 | 0.904 | 1 | 8722 | CTSF |
| 0.0178799 | 0.796570821 | 0.907 | 1 | 260434 | PYDC1 |
| 0.017865646 | 0.796729461 | 0.874 | 1 | 79845 | RNF122 |
| 0.017864351 | 0.796743883 | 0.902 | 1 | 129401 | NUP35 |
| 0.017841027 | 0.797003495 | 0.902 | 1 | 23432 | GPR161 |
| 0.017834548 | 0.797075613 | 0.901 | 1 | 7693 | ZNF134 |
| 0.017752913 | 0.797984451 | 0.9 | 1 | 5908 | RAP1B |
| 0.017741251 | 0.798114308 | 0.9 | 1 | 4708 | NDUFB2 |
| 0.017716631 | 0.798388467 | 0.892 | 1 | 374987 | NEXN-AS1 |
| 0.017715335 | 0.798402897 | 0.915 | 1 | 84215 | ZNF541 |
| 0.017710152 | 0.798460618 | 0.894 | 1 | 10313 | RTN3 |
| 0.017707561 | 0.798489479 | 0.904 | 1 | 7433 | VIPR1 |
| 0.017706265 | 0.79850391 | 0.911 | 1 | 835 | CASP2 |
| 0.017650546 | 0.799124491 | 0.887 | 1 | 83699 | SH3BGRL2 |
| 0.017576686 | 0.799947315 | 0.902 | 1 | 29089 | UBE2T |
| 0.017561137 | 0.80012057 | 0.925 | 1 | 29116 | MYLIP |
| 0.017498939 | 0.800813685 | 0.919 | 1 | 134266 | GRPEL2 |
| 0.017488573 | 0.80092922 | 0.919 | 1 | 55756 | INTS9 |
| 0.017479502 | 0.801030316 | 0.897 | 1 | 740 | MRPL49 |
| 0.017475615 | 0.801073644 | 0.898 | 1 | 10228 | STX6 |
| 0.017422488 | 0.801665853 | 0.895 | 1 | 344758 | GPR149 |
| 0.017414713 | 0.801752527 | 0.917 | 1 | 31 | ACACA |
| 0.017410826 | 0.801795866 | 0.907 | 1 | 27130 | INVS |
| 0.017395276 | 0.801969224 | 0.892 | 1 | 145783 | RP11-323F24.1 |
| 0.01739398 | 0.801983671 | 0.892 | 1 | 55329 | MNS1 |
| 0.017366769 | 0.802287073 | 0.898 | 1 | 81627 | C1orf25 |
| 0.017361586 | 0.802344867 | 0.915 | 1 | 9241 | NOG |
| 0.017248852 | 0.803602156 | 0.899 | 1 | 26100 | WIPI2 |
| 0.017222937 | 0.80389126 | 0.882 | 1 | 339005 | WHAMML1 |
| 0.017208683 | 0.804050278 | 0.908 | 1 | 5230 | PGK1 |
| 0.017200908 | 0.804137019 | 0.877 | 1 | 58492 | ZNF77 |
| 0.017143894 | 0.80477319 | 0.899 | 1 | 150726 | FBXO41 |
| 0.017103724 | 0.805221479 | 0.915 | 1 | 55578 | FAM48A |
| 0.017064851 | 0.805655368 | 0.919 | 1 | 84217 | ZMYND12 |
| 0.017062259 | 0.805684296 | 0.896 | 1 | 2346 | FOLH1 |
| 0.017049301 | 0.80582894 | 0.908 | 1 | 347734 | SLC35B2 |
| 0.017045414 | 0.805872335 | 0.909 | 1 | 23659 | PLA2G15 |
| 0.016998766 | 0.806393115 | 0.924 | 1 | 5555 | PRH2 |
| 0.01699747 | 0.806407583 | 0.899 | 1 | 140461 | ASB8 |
| 0.016980625 | 0.806595664 | 0.906 | 1 | 51303 | FKBP11 |
| 0.01697285 | 0.806682475 | 0.897 | 1 | 2301 | FOXE3 |
| 0.016956005 | 0.806870572 | 0.894 | 1 | 5653 | KLK6 |
| 0.016883441 | 0.807680967 | 0.91 | 1 | 9668 | ZNF432 |
| 0.016839384 | 0.808173092 | 0.902 | 1 | 60313 | GPBP1L1 |
| 0.016832905 | 0.80824547 | 0.905 | 1 | 541468 | C1orf190 |
| 0.016826426 | 0.808317849 | 0.917 | 1 | 56931 | DUS3L |
| 0.016813468 | 0.808462613 | 0.899 | 1 | 734 | OSGIN2 |
| 0.016761637 | 0.809041732 | 0.906 | 1 | 54606 | DDX56 |
| 0.016755158 | 0.80911413 | 0.923 | 1 | 51065 | RPS27L |
| 0.016635946 | 0.810446529 | 0.91 | 1 | 205717 | KIAA2018 |
| 0.016619101 | 0.810634847 | 0.898 | 1 | 728492 | SERF1B |
| 0.016589297 | 0.810968052 | 0.888 | 1 | 10311 | DSCR3 |
| 0.016573748 | 0.811141911 | 0.914 | 1 | 26057 | ANKRD17 |
| 0.01653617 | 0.81156211 | 0.914 | 1 | 6916 | TBXAS1 |
| 0.016518029 | 0.811764984 | 0.887 | 1 | 220885 | RPSAP15 |
| 0.016424733 | 0.812808533 | 0.92 | 1 | 4154 | MBNL1 |
| 0.016402704 | 0.813054975 | 0.917 | 1 | 50 | ACO2 |
| 0.016372901 | 0.813388425 | 0.906 | 1 | 1382 | CRABP2 |
| 0.016341802 | 0.81373641 | 0.908 | 1 | 79616 | CCNJL |
| 0.016317182 | 0.814011923 | 0.914 | 1 | 200014 | CC2D1B |
| 0.016304225 | 0.81415694 | 0.911 | 1 | 285141 | AC007405.8 |
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| 0.012950731 | 0.851886264 | 0.934 | 1 | 283316 | CD163L1 |
| 0.012937773 | 0.852032765 | 0.92 | 1 | 58516 | FAM60A |
| 0.012935182 | 0.852062065 | 0.938 | 1 | 11052 | CPSF6 |
| 0.012904083 | 0.852413689 | 0.945 | 1 | 161742 | SPRED1 |
| 0.012896308 | 0.8525016 | 0.929 | 1 | 79658 | ARHGAP10 |
| 0.012828927 | 0.853263567 | 0.929 | 1 | 57209 | ZNF248 |
| 0.012810786 | 0.853468736 | 0.932 | 1 | 127623 | OR2B11 |
| 0.012808195 | 0.853498046 | 0.948 | 1 | 51263 | MRPL30 |
| 0.012782279 | 0.853791163 | 0.927 | 1 | 9759 | HDAC4 |
| 0.0127758 | 0.853864445 | 0.921 | 1 | 149466 | C1ORF210 |
| 0.01276025 | 0.854040328 | 0.922 | 1 | 100129616 | LOC100129616 |
| 0.012740814 | 0.854260191 | 0.927 | 1 | 64224 | HERPUD2 |
| 0.012650109 | 0.85528637 | 0.941 | 1 | 118425 | RP11-610O8.1 |
| 0.012572362 | 0.856166145 | 0.935 | 1 | 8756 | ADAM7 |
| 0.01249591 | 0.857031431 | 0.919 | 1 | 9991 | ROD1 |
| 0.01249591 | 0.857031431 | 0.932 | 1 | 401563 | C9orf139 |
| 0.012482952 | 0.857178107 | 0.916 | 1 | 26115 | TANC2 |
| 0.012481657 | 0.857192775 | 0.938 | 1 | 51455 | REV1 |
| 0.012467403 | 0.857354124 | 0.935 | 1 | 54522 | ANKRD16 |
| 0.012440191 | 0.857662171 | 0.916 | 1 | 147872 | CCDC155 |
| 0.012410388 | 0.85799958 | 0.927 | 1 | 79719 | AAGAB |
| 0.012376698 | 0.858381031 | 0.928 | 1 | 57589 | KIAA1432 |
| 0.012366332 | 0.858498407 | 0.93 | 1 | 56128 | PCDHB8 |
| 0.012320979 | 0.859011964 | 0.934 | 1 | 728012 | RP11-14I4.3 |
| 0.012301542 | 0.859232078 | 0.934 | 1 | 92521 | CYTSB |
| 0.012223795 | 0.860112642 | 0.921 | 1 | 1006 | CDH8 |
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| 0.012222499 | 0.860127319 | 0.929 | 1 | 6610 | SMPD2 |
| 0.012203063 | 0.860347488 | 0.935 | 1 | 9337 | CNOT8 |
| 0.012178443 | 0.860626384 | 0.935 | 1 | 79651 | RHBDF2 |
| 0.01212402 | 0.861242953 | 0.93 | 1 | 51433 | ANAPC5 |
| 0.012121428 | 0.861272315 | 0.941 | 1 | 399949 | C11orf88 |
| 0.012117541 | 0.861316359 | 0.928 | 1 | 440311 | LOC440311 |
| 0.012065709 | 0.861903655 | 0.943 | 1 | 56674 | TMEM9B |
| 0.012016469 | 0.862461656 | 0.929 | 1 | 54954 | FAM120C |
| 0.011998328 | 0.862667253 | 0.932 | 1 | 1359 | CPA3 |
| 0.011998328 | 0.862667253 | 0.934 | 1 | 8079 | MLF2 |
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| 0.008702425 | 0.002404739 | 84915 | C12orf34 |
| 0.008699362 | 0.002413273 | 643376 | AP001931.1 |
| 0.008692018 | 0.002433842 | 8372 | HYAL3 |
| 0.008669634 | 0.00249753 | 285955 | SPDYE1 |
| 0.008666534 | 0.002506469 | 85478 | CCDC65 |
| 0.008664895 | 0.002511208 | 130132 | RFTN2 |
| 0.008654678 | 0.002540928 | 9131 | AIFM1 |
| 0.008651557 | 0.002550072 | 5833 | PCYT2 |
| 0.008625774 | 0.002626763 | 50810 | AC024270.1 |
| 0.008608676 | 0.002678777 | 55573 | CDV3 |
| 0.008568201 | 0.002805677 | 26047 | CNTNAP2 |
| 0.00856044 | 0.002830627 | 10944 | C11orf58 |
| 0.008546514 | 0.002875909 | 64375 | IKZF4 |
| 0.008536508 | 0.002908851 | 51193 | ZNF639 |
| 0.00852596 | 0.002943951 | 94137 | RP1L1 |
| 0.008509751 | 0.002998639 | 23209 | MLC1 |
| 0.008505146 | 0.003014343 | 219670 | ENKUR |
| 0.008503132 | 0.003021236 | 112487 | C14orf126 |
| 0.008488991 | 0.003070036 | 646096 | CHEK2P2 |
| 0.008486323 | 0.003079324 | 2170 | FABP3 |
| 0.0084809 | 0.003098281 | 127540 | HMGB4 |
| 0.00847016 | 0.00321918 | 10312 | TCIRG1 |
| 0.008421831 | 0.003311764 | 6006 | RHCE |
| 0.008415306 | 0.003336149 | 91801 | ALKBH8 |
| 0.008402961 | 0.003382735 | 653505 | PPIAL4B |
| 0.008393132 | 0.003420246 | 594 | BCKDHB |
| 0.00837558 | 0.003488179 | 249 | ALPL |
| 0.008375376 | 0.003488975 | 283991 | FAM100B |
| 0.00837498 | 0.003490521 | 7078 | TIMP3 |
| 0.008373072 | 0.003497986 | 3678 | ITGA5 |
| 0.008353144 | 0.003576802 | 3094 | HINT1 |
| 0.008315147 | 0.00373157 | 254102 | EHBP1L1 |
| 0.008298133 | 0.003802828 | 8100 | IFT88 |
| 0.00829708 | 0.003807277 | 10762 | NUP50 |
| 0.008290197 | 0.003836486 | 94059 | LENG9 |
| 0.008285885 | 0.003854883 | 10367 | CBARA1 |
| 0.008284902 | 0.003859092 | 11033 | ADAP1 |
| 0.008283124 | 0.003866709 | 26960 | NBEA |
| 0.00827347 | 0.003908314 | 160140 | C11orf65 |
| 0.008235316 | 0.004076742 | 4779 | NFE2L1 |
| 0.008222846 | 0.004133205 | 9668 | ZNF432 |
| 0.00821631 | 0.00416308 | 10747 | MASP2 |
| 0.008215992 | 0.004164538 | 401176 | RP11-19O2.2 |
| 0.008211874 | 0.004183468 | 349075 | ZNF713 |
| 0.008205631 | 0.004212315 | 928 | CD9 |
| 0.008201905 | 0.004229617 | 57053 | CHRNA10 |
| 0.008185979 | 0.004304304 | 643 | CXCR5 |
| 0.00818568 | 0.004305718 | 10284 | SAP18 |
| 0.008177239 | 0.004345795 | 339501 | MPN2 |
| 0.008166015 | 0.004399613 | 55704 | CCDC88A |
| 0.008160215 | 0.004427657 | 7994 | MYST3 |
| 0.008155196 | 0.004452059 | 64319 | FBRS |
| 0.008151237 | 0.004471391 | 353145 | LCE3E |
| 0.008136516 | 0.004543946 | 1352 | COX10 |
| 0.008125781 | 0.004597525 | 1318 | SLC31A2 |
| 0.008122695 | 0.004613034 | 285051 | C2orf61 |
| 0.008097751 | 0.004740134 | 570 | BAAT |
| 0.008094838 | 0.004755186 | 54518 | APBB1IP |
| 0.008088538 | 0.004787878 | 9002 | F2RL3 |
| 0.008084886 | 0.004806918 | 79772 | MCTP1 |
| 0.008079372 | 0.004835803 | 8030 | CCDC6 |
| 0.008076989 | 0.004848335 | 100131454 | AC087392.3 |
| 0.008053242 | 0.00497483 | 8360 | HIST1H4D |
| 0.008052149 | 0.00498072 | 873 | CBR1 |
| 0.008040372 | 0.005044623 | 54790 | TET2 |
| 0.008029603 | 0.005103704 | 56852 | RAD18 |
| 0.008025443 | 0.005126691 | 9951 | HS3ST4 |
| 0.008023875 | 0.005135383 | 124599 | CD300LB |
| 0.007994778 | 0.005299059 | 79993 | ELOVL7 |
| 0.007991738 | 0.005316431 | 51629 | SLC25A39 |
| 0.007976726 | 0.005402964 | 388 | RHOB |
| 0.007971435 | 0.005433764 | 5005 | ORM2 |
| 0.007967825 | 0.005454869 | 51092 | SIDT2 |
| 0.007966158 | 0.005464637 | 203510 | HMGB3P30 |
| 0.007964058 | 0.00547697 | 283932 | FBXL19-AS1 |
| 0.007962619 | 0.005485435 | 4548 | MTR |
| 0.007962446 | 0.005486453 | 283685 | AC100756.1 |
| 0.007962321 | 0.005487187 | 7756 | ZNF207 |
| 0.007953885 | 0.005537065 | 9139 | CBFA2T2 |
| 0.007942212 | 0.005606746 | 1133 | CHRM5 |
| 0.007940102 | 0.005619431 | 729359 | KIAA1881 |
| 0.007934721 | 0.005651885 | 10256 | CNKSR1 |

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| 0.011955568 | 0.86315191 | 0.929 | 1 | 10186 | LHFP |
| 0.011949089 | 0.863225347 | 0.934 | 1 | 7447 | VSNL1 |
| 0.011814327 | 0.86475311 | 0.938 | 1 | 3055 | HCK |
| 0.011757312 | 0.865399623 | 0.938 | 1 | 52 | ACP1 |
| 0.011754721 | 0.865429012 | 0.923 | 1 | 11212 | PROSC |
| 0.011730101 | 0.865708218 | 0.929 | 1 | 549 | AUH |
| 0.011674382 | 0.866340166 | 0.934 | 1 | 196441 | ZFC3H1 |
| 0.011635508 | 0.86678111 | 0.939 | 1 | 121599 | SPIC |
| 0.011600522 | 0.867177995 | 0.941 | 1 | 9529 | BAG5 |
| 0.011570719 | 0.867516108 | 0.951 | 1 | 4734 | NEDD4 |
| 0.011557761 | 0.867663122 | 0.933 | 1 | 7079 | TIMP4 |
| 0.011526662 | 0.868015972 | 0.932 | 1 | 955 | ENTPD6 |
| 0.011491676 | 0.868412961 | 0.949 | 1 | 10961 | ERP29 |
| 0.011433366 | 0.869074681 | 0.929 | 1 | 11224 | RPL35 |
| 0.01143207 | 0.869089387 | 0.922 | 1 | 6900 | CNTN2 |
| 0.011410042 | 0.869339395 | 0.934 | 1 | 1063 | CENPF |
| 0.011391901 | 0.869545293 | 0.934 | 1 | 730094 | C16ORF52 |
| 0.011390605 | 0.869560001 | 0.945 | 1 | 4295 | MLN |
| 0.011363393 | 0.869868866 | 0.941 | 1 | 116966 | WDR17 |
| 0.011337478 | 0.870163041 | 0.936 | 1 | 55776 | C6orf64 |
| 0.011262322 | 0.871016252 | 0.938 | 1 | 9369 | NRXN3 |
| 0.011246773 | 0.871192797 | 0.94 | 1 | 114781 | BTBD9 |
| 0.01124159 | 0.871251647 | 0.937 | 1 | 64794 | DDX31 |
| 0.011204012 | 0.871678328 | 0.925 | 1 | 9568 | GABBR2 |
| 0.011197533 | 0.871751898 | 0.947 | 1 | 137868 | SGCZ |
| 0.011189758 | 0.871840183 | 0.949 | 1 | 137970 | UNC5D |
| 0.011112011 | 0.87272312 | 0.946 | 1 | 145567 | TTC7B |
| 0.011108124 | 0.872767271 | 0.937 | 1 | 442582 | STAG3L2 |
| 0.011096462 | 0.872899726 | 0.929 | 1 | 1087 | CEACAM7 |
| 0.011042039 | 0.873517898 | 0.93 | 1 | 5680 | PSG11 |
| 0.010997982 | 0.874018379 | 0.923 | 1 | 7544 | ZFY |
| 0.010929305 | 0.87479864 | 0.95 | 1 | 10560 | SLC19A2 |
| 0.010911164 | 0.875004767 | 0.933 | 1 | 203547 | VMA21 |
| 0.010885248 | 0.875299249 | 0.934 | 1 | 5452 | POU2F2 |
| 0.010856741 | 0.875623199 | 0.935 | 1 | 84314 | TMEM107 |
| 0.010845079 | 0.87575573 | 0.947 | 1 | 387509 | GPR153 |
| 0.010820459 | 0.876035529 | 0.94 | 1 | 123872 | LRRC50 |
| 0.010819163 | 0.876050255 | 0.948 | 1 | 58513 | EPS15L1 |
| 0.010817868 | 0.876064982 | 0.941 | 1 | 1144 | CHRND |
| 0.010771219 | 0.876595172 | 0.936 | 1 | 4254 | KITLG |
| 0.010756966 | 0.876757186 | 0.948 | 1 | 22839 | DLGAP4 |
| 0.010738825 | 0.876963393 | 0.94 | 1 | 57579 | FAM135A |
| 0.010728458 | 0.877081229 | 0.936 | 1 | 148418 | SAMD13 |
| 0.010716796 | 0.877213798 | 0.944 | 1 | 11345 | GABARAPL2 |
| 0.010714205 | 0.877243258 | 0.943 | 1 | 84777 | MGC11082 |
| 0.010622204 | 0.878289204 | 0.946 | 1 | 3488 | IGFBP5 |
| 0.010617021 | 0.878348137 | 0.948 | 1 | 10554 | AGPAT1 |
| 0.010614429 | 0.878377604 | 0.933 | 1 | 6400 | SEL1L |
| 0.010565189 | 0.878937503 | 0.938 | 1 | 344805 | TMPRSS7 |
| 0.010562598 | 0.878966973 | 0.924 | 1 | 10744 | PTTG2 |
| 0.010554823 | 0.879055384 | 0.941 | 1 | 7586 | ZKSCAN1 |
| 0.010537978 | 0.879246946 | 0.935 | 1 | 7369 | UMOD |
| 0.010536682 | 0.879261682 | 0.937 | 1 | 55540 | IL17RB |
| 0.010501696 | 0.879659566 | 0.936 | 1 | 23318 | ZCCHC11 |
| 0.01049133 | 0.879777464 | 0.945 | 1 | 5996 | RGS1 |
| 0.010479668 | 0.879910101 | 0.945 | 1 | 2908 | NR3C1 |
| 0.01047578 | 0.879954315 | 0.935 | 1 | 5346 | PLIN |
| 0.010473189 | 0.879983791 | 0.937 | 1 | 79169 | C1orf35 |
| 0.010458935 | 0.88014591 | 0.95 | 1 | 51588 | PIAS4 |
| 0.010457639 | 0.880160649 | 0.934 | 1 | 6414 | SEPP1 |
| 0.010407103 | 0.880735478 | 0.939 | 1 | 54974 | THG1L |
| 0.010398033 | 0.880838659 | 0.936 | 1 | 284390 | ZNF763 |
| 0.010372117 | 0.881133474 | 0.941 | 1 | 22862 | FNDC3A |
| 0.010282708 | 0.882150709 | 0.939 | 1 | 79006 | METRN |
| 0.010233468 | 0.882711008 | 0.954 | 1 | 51 | ACOX1 |
| 0.01019589 | 0.883138644 | 0.953 | 1 | 57551 | TAOK1 |
| 0.010182933 | 0.883286113 | 0.918 | 1 | 2746 | GLUD1 |
| 0.010094819 | 0.884289006 | 0.943 | 1 | 223082 | ZNRF2 |
| 0.010090932 | 0.884333255 | 0.944 | 1 | 84791 | C1orf97 |
| 0.009988565 | 0.885498621 | 0.949 | 1 | 8553 | BHLHE40 |
| 0.00998079 | 0.88558714 | 0.953 | 1 | 23547 | LILRA4 |
| 0.009978198 | 0.885616647 | 0.934 | 1 | 3170 | FOXA2 |
| 0.009936733 | 0.886088774 | 0.951 | 1 | 2901 | GRIK5 |
| 0.009899155 | 0.886516674 | 0.944 | 1 | 1174 | AP1S1 |
| 0.009856395 | 0.887003635 | 0.952 | 1 | 54949 | SDHAF2 |
| 0.009829183 | 0.887313542 | 0.955 | 1 | 7407 | VARS |
| 0.00979938 | 0.887652983 | 0.939 | 1 | 6629 | SNRPB2 |
| 0.009785126 | 0.887815331 | 0.94 | 1 | 81849 | ST6GALNAC5 |
| 0.009756619 | 0.888140042 | 0.946 | 1 | 10495 | ENOX2 |
| 0.009742365 | 0.888302405 | 0.943 | 1 | 3706 | ITPKA |
| 0.009738478 | 0.888346686 | 0.95 | 1 | 817 | CAMK2D |
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| 0.007922734 | 0.005724795 | 54858 | PGPEP1 |
| 0.007905433 | 0.005831517 | 497190 | CLEC18B |
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| 0.007885443 | 0.005957065 | 4285 | MIPEP |
| 0.007883139 | 0.005971686 | 23552 | CCRK |
| 0.007877645 | 0.006006696 | 79818 | AC010645.1 |
| 0.007874048 | 0.006029712 | 3868 | KRT16 |
| 0.007861618 | 0.006109872 | 10148 | EBI3 |
| 0.007857194 | 0.006138629 | 8334 | HIST1H2AC |
| 0.007850947 | 0.006179448 | 57460 | PPM1H |
| 0.007848792 | 0.006193588 | 55278 | QRSL1 |
| 0.007846475 | 0.006208817 | 23120 | ATP10B |
| 0.007843782 | 0.006226567 | 11330 | CTRC |
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| 0.007825364 | 0.006349171 | 392264 | LOC392264 |
| 0.007820664 | 0.006380806 | 3959 | LGALS3BP |
| 0.007811028 | 0.006446107 | 23567 | ZNF346 |
| 0.007809009 | 0.006459865 | 348840 | AC073135.1 |
| 0.007793643 | 0.006565438 | 55173 | MRPS10 |
| 0.007783041 | 0.00663918 | 162417 | NAGS |
| 0.007782603 | 0.006642246 | 9123 | SLC16A3 |
| 0.0077528 | 0.006853638 | 79877 | DCAKD |
| 0.00774577 | 0.006904375 | 58484 | NLRC4 |
| 0.007744717 | 0.006912004 | 83443 | SF3B5 |
| 0.007736097 | 0.00697474 | 10423 | CDIPT |
| 0.007718577 | 0.007103826 | 11313 | LYPLA2 |
| 0.007715484 | 0.007126835 | 285 | ANGPT2 |
| 0.007692232 | 0.007301973 | 138799 | OR13C5 |
| 0.007680139 | 0.007394585 | 342897 | NCCRP1 |
| 0.007654055 | 0.007769188 | 150622 | LOC150622 |
| 0.007653512 | 0.007602205 | 57647 | DHX37 |
| 0.007650822 | 0.007623468 | 64802 | NMNAT1 |
| 0.007625299 | 0.007827885 | 390003 | GUCY2GP |
| 0.007624165 | 0.007837082 | 116935 | RPL3P2 |
| 0.007615943 | 0.007904041 | 8574 | AKR7A2 |
| 0.007610021 | 0.007952588 | 1656 | DDX6 |
| 0.007606554 | 0.007981131 | 401265 | KLHL31 |
| 0.007597902 | 0.008052761 | 90416 | C15orf57 |
| 0.007585869 | 0.008153348 | 51441 | YTHDF2 |
| 0.007584346 | 0.008170362 | 90506 | LRRC46 |
| 0.007526794 | 0.008663649 | 4148 | MATN3 |
| 0.007517953 | 0.008742426 | 163223 | ZNF676 |
| 0.007483582 | 0.009054801 | 245929 | DEFB115 |
| 0.007466965 | 0.009209373 | 4804 | NGFR |
| 0.007427787 | 0.009583149 | 100144602 | RP11-807H7.1 |
| 0.007419964 | 0.009659388 | 79913 | ACTR5 |
| 0.007412028 | 0.009737272 | 8495 | PPFIBP2 |
| 0.007406721 | 0.009789676 | 126767 | AADACL3 |
| 0.00740228 | 0.009833715 | 9986 | RCE1 |
| 0.007366824 | 0.010191703 | 81579 | PLA2G12A |
| 0.007347485 | 0.010391814 | 83605 | CCM2 |
| 0.007345905 | 0.010408321 | 1745 | DLX1 |
| 0.007322743 | 0.010652933 | 6097 | RORC |
| 0.007318843 | 0.010694615 | 57469 | PNMAL2 |
| 0.00730859 | 0.010804899 | 10490 | VTI1B |
| 0.007297768 | 0.0109224 | 5100 | PCDH8 |
| 0.007283186 | 0.01108252 | 9555 | H2AFY |
| 0.007261522 | 0.011324263 | 4162 | MCAM |
| 0.007253307 | 0.01141715 | 84289 | ING5 |
| 0.007249 | 0.011466114 | 221302 | ZUFSP |
| 0.007209919 | 0.011919029 | 313 | AOAH |
| 0.007206038 | 0.011964858 | 1826 | DSCAM |
| 0.007204477 | 0.011983339 | 5367 | PMCH |
| 0.007193611 | 0.012112662 | 8336 | HIST1H2AM |
| 0.007175528 | 0.012330639 | 643311 | CT47B1 |
| 0.007168234 | 0.012419538 | 399664 | MEX3D |
| 0.007162996 | 0.012483726 | 100288540 | POM121B |
| 0.007157397 | 0.012552661 | 3276 | PRMT1 |
| 0.007130547 | 0.012887974 | 7247 | TSN |
| 0.00712776 | 0.012923217 | 5881 | RAC3 |
| 0.007111914 | 0.01312529 | 9267 | CYTH1 |
| 0.007093238 | 0.013367031 | 9695 | EDEM1 |
| 0.007090546 | 0.013402202 | 23244 | PDS5A |
| 0.007069369 | 0.01368171 | 11226 | GALNT6 |
| 0.007042995 | 0.014037014 | 8483 | CILP |
| 0.007032111 | 0.014186005 | 801 | CALM1 |
| 0.007017509 | 0.014388065 | 728591 | C13orf38 |
| 0.006985804 | 0.014835572 | 11224 | RPL35 |
| 0.006969713 | 0.015067341 | 5732 | PTGER2 |
| 0.006952328 | 0.015321337 | 84132 | USP42 |
| 0.006945389 | 0.015423759 | 335 | APOA1 |
| 0.006937823 | 0.015536139 | 54623 | PAF1 |

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| 0.009726816 | 0.888479533 | 0.954 | 1 | 23384 | CYTSA |
| 0.009649069 | 0.889365256 | 0.945 | 1 | 374977 | C1orf175 |
| 0.009608899 | 0.889822934 | 0.944 | 1 | 81579 | PLA2G12A |
| 0.009601125 | 0.889911521 | 0.949 | 1 | 80023 | NRSN2 |
| 0.009598533 | 0.88994105 | 0.956 | 1 | 5133 | PDCD1 |
| 0.009571322 | 0.890251117 | 0.948 | 1 | 285148 | IAH1 |
| 0.009545406 | 0.890546435 | 0.95 | 1 | 401082 | FLJ25363 |
| 0.009513011 | 0.890915602 | 0.937 | 1 | 7551 | ZNF3 |
| 0.009503941 | 0.891018974 | 0.954 | 1 | 219595 | FOLH1B |
| 0.009493575 | 0.891137114 | 0.948 | 1 | 10393 | ANAPC10 |
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| 0.008984331 | 0.896943689 | 0.936 | 1 | 25921 | ZDHHC5 |
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| 0.008424551 | 0.903332816 | 0.942 | 1 | 389493 | RP4-725G10.1 |
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| 0.005541046 | 0.053299578 | 80164 | AC010336.2 |
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| 0.005159171 | 0.940713767 | 0.976 | 1 | 8087 | FXR1 |
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| -0.005728021 | 0.93419008 | 0.968 | 1 | 79872 | CBLL1 |
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| 9.64704E-05 | 0.973160556 | 746 | C11orf10 |
| 7.00693E-05 | 0.980503995 | 55336 | FBXL8 |
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| 5.46398E-05 | 0.984796478 | 1128 | CHRM1 |
| 5.22391E-05 | 0.985464409 | 26256 | CABYR |
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| -0.000451498 | 0.874880448 | 80324 | PUS1 |
| -0.000453043 | 0.874455652 | 5610 | EIF2AK2 |
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| -0.006488647 | 0.925474003 | 0.964 | 1 | 728724 | RP11-1057N3.1 |
| -0.006496422 | 0.925384956 | 0.958 | 1 | 146439 | CCDC64B |
| -0.006527521 | 0.925028778 | 0.973 | 1 | 388327 | C17orf100 |
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| -0.00658324 | 0.924390662 | 0.96 | 1 | 375444 | C5orf34 |
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| -0.006711522 | 0.922921696 | 0.967 | 1 | 64087 | MCCC2 |
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| -0.007145611 | 0.917952922 | 0.957 | 1 | 10282 | BET1 |
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| -0.002737781 | 0.339669578 | 1770 | DNAH9 |
| -0.002759139 | 0.335915406 | 79789 | CLMN |
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| -0.012210837 | 0.860259419 | 0.938 | 1 | 26121 | PRPF31 |
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| -0.003876676 | 0.177391808 | 1131 | CHRM3 |
| -0.003929793 | 0.170517515 | 2444 | FRK |
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| -0.004228051 | 0.140329968 | 6620 | SNCB |
| -0.004235234 | 0.139657344 | 124093 | CCDC78 |
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| -0.014659872 | 0.832609294 | 0.925 | 1 | 340543 | TCEAL5 |
| -0.014661168 | 0.832594716 | 0.933 | 1 | 407975 | MIR17HG |
| -0.014683197 | 0.832346891 | 0.915 | 1 | 63892 | THADA |
| -0.014684492 | 0.832332313 | 0.903 | 1 | 55917 | CTTNBP2NL |
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| -0.014850353 | 0.830466878 | 0.903 | 1 | 25930 | PTPN23 |
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| -0.015135426 | 0.827262886 | 0.923 | 1 | 1398 | CRK |
| -0.015156158 | 0.827029979 | 0.9 | 1 | 168391 | GALNTL5 |
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| -0.017780125 | 0.797681475 | 0.903 | 1 | 23766 | GABARAPL3 |
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| -0.006794309 | 0.017808252 | 63935 | PCIF1 |
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| -0.013676098 | 1.84373E-06 | 10804 | GJB6 |
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| -0.036132339 | 0.602329741 | 0.797 | 1 | 2652 | OPN1MW |
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| -0.036927951 | 0.594357236 | 0.804 | 1 | 22865 | SLITRK3 |
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| -0.037034206 | 0.593296145 | 0.777 | 1 | 10101 | NUBP2 |
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| -0.015289233 | 9.68602E-08 | 10603 | SH2B2 |
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| -0.015383999 | 8.06921E-08 | 57209 | ZNF248 |
| -0.015390785 | 7.96406E-08 | 5774 | PTPN3 |
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| -0.038104525 | 0.582656065 | 0.799 | 1 | 386680 | KRTAP10-5 |
| -0.03815506 | 0.582155886 | 0.774 | 1 | 1054 | CEBPG |
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| -0.038175793 | 0.581950741 | 0.783 | 1 | 23 | ABCF1 |
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| -0.038258723 | 0.581130501 | 0.789 | 1 | 8659 | ALDH4A1 |
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| -0.038565824 | 0.578097742 | 0.792 | 1 | 3630 | INS |
| -0.038571007 | 0.57804662 | 0.757 | 1 | 259285 | TAS2R39 |
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| -0.0391269 | 0.572576081 | 0.781 | 1 | 22905 | EPN2 |
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| -0.015716949 | 4.21227E-08 | 55160 | ARHGEF10L |
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| -0.015828438 | 3.37839E-08 | 8092 | ALX1 |
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| -0.01583877 | 3.30977E-08 | 55092 | TMEM51 |
| -0.015843931 | 3.27601E-08 | 55168 | MRPS18A |
| -0.015861136 | 3.16584E-08 | 11093 | ADAMTS13 |
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| -0.015876784 | 3.06877E-08 | 81577 | GFOD2 |
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| -0.015992264 | 2.43651E-08 | 768211 | RELL1 |
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| -0.016019456 | 2.30714E-08 | 6605 | SMARCE1 |
| -0.016039844 | 2.21455E-08 | 10572 | SIVA1 |
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| -0.016340931 | 1.20249E-08 | 56674 | TMEM9B |
| -0.01636163 | 1.1526E-08 | 196740 | C10orf72 |
| -0.016367129 | 1.13969E-08 | 2352 | FOLR3 |
| -0.016375553 | 1.12018E-08 | 54660 | PCDHB18 |
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| -0.016426549 | 1.00883E-08 | 3004 | GZMM |
| -0.016451376 | 9.58585E-09 | 120 | ADD3 |
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| -0.040317727 | 0.560940138 | 0.756 | 1 | 5885 | RAD21 |
| -0.040363079 | 0.560499244 | 0.768 | 1 | 9880 | ZBTB39 |
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| -0.040766069 | 0.556588941 | 0.775 | 1 | 135892 | TRIM50 |
| -0.040790688 | 0.556350477 | 0.757 | 1 | 91409 | CCDC74B |
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| -0.040878802 | 0.555497434 | 0.784 | 1 | 54854 | FAM83E |
| -0.040903422 | 0.555259198 | 0.787 | 1 | 1852 | DUSP9 |
| -0.040924154 | 0.555058616 | 0.785 | 1 | 8992 | ATP6V0E1 |
| -0.040952662 | 0.554782873 | 0.771 | 1 | 1820 | ARID3A |
| -0.040957845 | 0.554732746 | 0.73 | 1 | 388394 | RPRML |
| -0.040986352 | 0.554457082 | 0.799 | 1 | 107 | ADCY1 |
| -0.041152213 | 0.552854543 | 0.766 | 1 | 154881 | KCTD7 |
| -0.041169058 | 0.552691912 | 0.768 | 1 | 54332 | GDAP1 |
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| -0.041217002 | 0.552229166 | 0.781 | 1 | 1677 | DFFB |
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| -0.041281791 | 0.551604134 | 0.781 | 1 | 23283 | CSTF2T |
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| -0.041351764 | 0.550929488 | 0.753 | 1 | 11059 | WWP1 |
| -0.041376384 | 0.550692208 | 0.768 | 1 | 4986 | OPRK1 |
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| -0.041531878 | 0.549194758 | 0.776 | 1 | 63916 | ELMO2 |
| -0.041599259 | 0.548546484 | 0.737 | 1 | 55740 | ENAH |
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| -0.041689964 | 0.547674401 | 0.752 | 1 | 83596 | BCL2L12 |
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| -0.042295096 | 0.54187387 | 0.759 | 1 | 57820 | CCNB1IP1 |
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| -0.042530929 | 0.539621563 | 0.749 | 1 | 57128 | LYRM4 |
| -0.042567211 | 0.539275468 | 0.769 | 1 | 440295 | AC135995.5 |
| -0.04258276 | 0.539127176 | 0.752 | 1 | 659 | BMPR2 |
| -0.042584056 | 0.539114819 | 0.798 | 1 | 79767 | ELMO3 |
| -0.04259831 | 0.538978904 | 0.753 | 1 | 51371 | POMP |
| -0.042651437 | 0.538472461 | 0.782 | 1 | 10249 | GLYAT |
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| -0.042695494 | 0.538052664 | 0.786 | 1 | 7155 | TOP2B |
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| -0.042703268 | 0.537978599 | 0.745 | 1 | 7554 | ZNF8 |
| -0.042703268 | 0.537978599 | 0.772 | 1 | 8642 | DCHS1 |
| -0.04270586 | 0.537953912 | 0.763 | 1 | 64398 | MPP5 |
| -0.04271493 | 0.537867511 | 0.771 | 1 | 158427 | C9orf97 |
| -0.0427551 | 0.537484964 | 0.772 | 1 | 1318 | SLC31A2 |
| -0.04276417 | 0.537398601 | 0.751 | 1 | 440023 | KRTAP5-6 |

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| -0.016482378 | 8.99254E-09 | 57862 | ZNF410 |
| -0.016487323 | 8.90126E-09 | 8872 | CDC123 |
| -0.016494467 | 8.77099E-09 | 7473 | WNT3 |
| -0.016500911 | 8.65508E-09 | 51406 | NOL7 |
| -0.016553012 | 7.771E-09 | 7620 | ZNF69 |
| -0.016559821 | 7.66216E-09 | 57700 | FAM160B1 |
| -0.016573602 | 7.44639E-09 | 51428 | DDX41 |
| -0.016585443 | 7.26571E-09 | 54842 | MFSD6 |
| -0.016588393 | 7.22136E-09 | 6490 | SILV |
| -0.016596822 | 7.09611E-09 | 51121 | RPL26L1 |
| -0.01660608 | 6.96098E-09 | 57576 | KIF17 |
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| -0.016627398 | 6.65924E-09 | 7434 | VIPR2 |
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| -0.016659044 | 6.23466E-09 | 55328 | RNLS |
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| -0.01666679 | 6.13481E-09 | 26511 | CHIC2 |
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| -0.016722811 | 5.4576E-09 | 55693 | KDM4D |
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| -0.01674157 | 5.24753E-09 | 10171 | RCL1 |
| -0.016746049 | 5.19855E-09 | 85445 | CNTNAP4 |
| -0.016749326 | 5.163E-09 | 153328 | AC011427.1 |
| -0.016771754 | 4.92593E-09 | 79897 | RPP21 |
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| -0.016806417 | 4.58023E-09 | 1414 | CRYBB1 |
| -0.016812285 | 4.52409E-09 | 728047 | AC135983.8 |
| -0.016839011 | 4.27677E-09 | 3045 | HBD |
| -0.016850165 | 4.17749E-09 | 644943 | RASSF10 |
| -0.016855554 | 4.13033E-09 | 56888 | KCMF1 |
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| -0.016878329 | 3.93669E-09 | 353500 | BMP8A |
| -0.016880468 | 3.91896E-09 | 140766 | ADAMTS14 |
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| -0.016963849 | 3.58954E-09 | 4298 | MLLT1 |
| -0.016967827 | 3.25778E-09 | 63899 | NSUN3 |
| -0.016992716 | 3.0902E-09 | 3158 | HMGCS2 |
| -0.017007359 | 2.99556E-09 | 26994 | RNF11 |
| -0.017009731 | 2.9805E-09 | 1610 | DAO |
| -0.017013183 | 2.95871E-09 | 259266 | ASPM |
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| -0.017081393 | 2.55864E-09 | 400966 | RGPD1 |
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| -0.017154424 | 2.18873E-09 | 160065 | PATE1 |
| -0.017175797 | 2.09071E-09 | 84699 | CREB3L3 |
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| -0.017189435 | 2.03041E-09 | 647476 | FLJ20518 |
| -0.017207296 | 1.95399E-09 | 353274 | ZNF445 |
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| -0.017246151 | 1.79732E-09 | 90441 | ZNF622 |
| -0.017269744 | 1.70823E-09 | 84231 | TRAF7 |
| -0.017277413 | 1.6802E-09 | 25888 | ZNF473 |
| -0.017299843 | 1.60079E-09 | 996 | CDC27 |
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| -0.017383027 | 1.337E-09 | 6158 | RPL28 |
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| -0.042784903 | 0.537201226 | 0.788 | 1 | 8775 | NAPA |
| -0.042849692 | 0.536584663 | 0.758 | 1 | 152641 | C4ORF38 |
| -0.042854875 | 0.536535353 | 0.75 | 1 | 347404 | LANCL3 |
| -0.04286265 | 0.536461393 | 0.784 | 1 | 51667 | NUB1 |
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| -0.042967609 | 0.535463427 | 0.786 | 1 | 121504 | HIST4H4 |
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| -0.043062201 | 0.534564824 | 0.781 | 1 | 83931 | STK40 |
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| -0.043198258 | 0.533273641 | 0.764 | 1 | 10661 | KLF1 |
| -0.043263048 | 0.532659343 | 0.757 | 1 | 80818 | ZNF436 |
| -0.043362823 | 0.531714023 | 0.74 | 1 | 4678 | NASP |
| -0.043387443 | 0.531480892 | 0.741 | 1 | 79998 | ANKRD53 |
| -0.043396514 | 0.531395014 | 0.763 | 1 | 54329 | GPR85 |
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| -0.043475557 | 0.530646951 | 0.757 | 1 | 3713 | IVL |
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| -0.043702319 | 0.528503822 | 0.75 | 1 | 56114 | PCDHGA1 |
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| -0.043746376 | 0.528087952 | 0.77 | 1 | 116071 | BATF2 |
| -0.043809869 | 0.527488902 | 0.744 | 1 | 5820 | PVT1 |
| -0.043809869 | 0.527488902 | 0.771 | 1 | 79834 | AC107883.1 |
| -0.043826715 | 0.527330028 | 0.759 | 1 | 1381 | CRABP1 |
| -0.043866884 | 0.526951273 | 0.761 | 1 | 91300 | C19orf22 |
| -0.043890208 | 0.526731414 | 0.766 | 1 | 6341 | SCO1 |
| -0.043900574 | 0.526633714 | 0.739 | 1 | 9671 | WSCD2 |
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| -0.043980913 | 0.52587685 | 0.731 | 1 | 283078 | MKX |
| -0.043983505 | 0.525852444 | 0.76 | 1 | 6137 | RPL13 |
| -0.043997758 | 0.525718223 | 0.769 | 1 | 222894 | FERD3L |
| -0.044027561 | 0.525437634 | 0.762 | 1 | 5197 | PF4V1 |
| -0.044067731 | 0.525059571 | 0.747 | 1 | 90203 | SNX21 |
| -0.044097534 | 0.524779161 | 0.772 | 1 | 55897 | MESP1 |
| -0.044172689 | 0.524072381 | 0.779 | 1 | 1995 | ELAVL3 |
| -0.044185647 | 0.523950571 | 0.791 | 1 | 10936 | GPR75 |
| -0.044196014 | 0.523853134 | 0.772 | 1 | 114885 | OSBPL11 |
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| -0.044227112 | 0.523560878 | 0.753 | 1 | 340595 | ZCCHC16 |
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| -0.044617144 | 0.519902572 | 0.755 | 1 | 81926 | FAM108A4 |
| -0.04462751 | 0.519805521 | 0.745 | 1 | 57102 | C12orf4 |
| -0.04465213 | 0.519575061 | 0.751 | 1 | 1198 | CLK3 |
| -0.044688412 | 0.519235531 | 0.763 | 1 | 51142 | CHCHD2 |
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| -0.017562214 | 9.04597E-10 | 1859 | DYRK1A |
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| -0.017592643 | 8.46207E-10 | 440345 | 61E3.4 |
| -0.0175977 | 8.36866E-10 | 387804 | VSTM5 |
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| -0.01765163 | 7.43302E-10 | 4072 | EPCAM |
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| -0.01773433 | 6.19318E-10 | 81502 | HM13 |
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| -0.017741143 | 6.10055E-10 | 7380 | UPK3A |
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| -0.017862435 | 4.66072E-10 | 23710 | GABARAPL1 |
| -0.017862757 | 4.65738E-10 | 100128239 | AP000911.1 |
| -0.017863944 | 4.64508E-10 | 3850 | KRT3 |
| -0.017866832 | 4.61531E-10 | 5634 | PRPS2 |
| -0.017868365 | 4.59957E-10 | 441208 | ZNRF2P1 |
| -0.017896117 | 4.35641E-10 | 9607 | CARTPT |
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| -0.017934868 | 3.96525E-10 | 2585 | GALK2 |
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| -0.01801177 | 3.33781E-10 | 971 | CD72 |
| -0.018026175 | 3.23157E-10 | 83659 | TEKT1 |
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| -0.018126066 | 2.58054E-10 | 80017 | C14orf159 |
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| -0.018332922 | 1.6134E-10 | 4259 | MGST3 |
| -0.018340891 | 1.58431E-10 | 28958 | CCDC56 |
| -0.018340922 | 1.5842E-10 | 93973 | ACTR8 |
| -0.018348441 | 1.55722E-10 | 5978 | REST |
| -0.018353683 | 1.53868E-10 | 678655 | AC005840.2 |
| -0.018357032 | 1.52695E-10 | 54676 | GTPBP2 |
| -0.018361331 | 1.51202E-10 | 59277 | NTN4 |
| -0.018393617 | 1.40435E-10 | 10097 | ACTR2 |
| -0.018395017 | 1.39985E-10 | 285150 | AC062028.1 |
| -0.018410071 | 1.3524E-10 | 124739 | USP43 |
| -0.018423033 | 1.4702E-10 | 9452 | ITM2A |
| -0.018429419 | 1.42743E-10 | 10105 | PPIF |

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| -0.044827061 | 0.517939092 | 0.773 | 1 | 84247 | LDOC1L |
| -0.044898329 | 0.517273347 | 0.753 | 1 | 57122 | NUP107 |
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| -0.04495664 | 0.516728974 | 0.756 | 1 | 9360 | PPIG |
| -0.044979964 | 0.516511308 | 0.733 | 1 | 55197 | RPRD1A |
| -0.044995513 | 0.516366223 | 0.766 | 1 | 411 | ARSB |
| -0.045000696 | 0.516317866 | 0.748 | 1 | 57786 | RBAK |
| -0.0450305 | 0.516039859 | 0.759 | 1 | 23033 | DOPEY1 |
| -0.045048641 | 0.515870675 | 0.758 | 1 | 51768 | TM7SF3 |
| -0.045065486 | 0.515713602 | 0.737 | 1 | 55291 | SAPS3 |
| -0.045078444 | 0.515592793 | 0.757 | 1 | 25957 | SFRS18 |
| -0.045084923 | 0.515532394 | 0.724 | 1 | 55704 | CCDC88A |
| -0.045114726 | 0.515254606 | 0.781 | 1 | 55330 | CNO |
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| -0.047949905 | 0.48918615 | 0.727 | 1 | 10363 | HMG20A |
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| -0.019807806 | 4.88902E-12 | 390284 | SRP14P1 |
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| -0.01981564 | 4.79573E-12 | 83715 | ESPN |
| -0.019822337 | 4.71736E-12 | 84529 | C15orf41 |
| -0.019832401 | 4.60196E-12 | 5546 | PRCC |
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| -0.019873618 | 4.15751E-12 | 3797 | KIF3C |
| -0.019882724 | 4.06515E-12 | 6942 | TCF20 |
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| -0.048986534 | 0.479834185 | 0.737 | 1 | 56996 | SLC12A9 |
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| -0.049923387 | 0.471466481 | 0.708 | 1 | 51099 | ABHD5 |
| -0.049933753 | 0.471374342 | 0.694 | 1 | 130132 | RFTN2 |
| -0.04993764 | 0.471339792 | 0.737 | 1 | 56924 | PAK6 |
| -0.049976514 | 0.470994373 | 0.709 | 1 | 84833 | USMG5 |
| -0.050086656 | 0.470016441 | 0.722 | 1 | 56948 | SDR39U1 |
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| -0.050369137 | 0.467513441 | 0.713 | 1 | 6720 | SREBF1 |
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| -0.050462434 | 0.466688379 | 0.719 | 1 | 6902 | TBCA |
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| -0.020065187 | 2.58622E-12 | 729009 | FTH1P20 |
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| -0.020273882 | 1.53425E-12 | 26284 | ERAL1 |
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| -0.02032828 | 1.33788E-12 | 605 | BCL7A |
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| -0.02035272 | 1.25789E-12 | 57704 | GBA2 |
| -0.020355417 | 1.24936E-12 | 6387 | CXCL12 |
| -0.020372327 | 1.19713E-12 | 259291 | TAS2R45 |
| -0.020372445 | 1.19677E-12 | 5589 | PRKCSH |
| -0.020389464 | 1.14639E-12 | 84286 | TMEM175 |
| -0.020390736 | 1.14271E-12 | 9582 | APOBEC3B |
| -0.020400154 | 1.11581E-12 | 7779 | SLC30A1 |
| -0.020406522 | 1.09798E-12 | 5159 | PDGFRB |
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| -0.020425049 | 1.04767E-12 | 79192 | IRX1 |
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| -0.020480822 | 9.09498E-13 | 55668 | C14orf118 |
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| -0.020511059 | 8.42235E-13 | 261734 | NPHP4 |
| -0.020521218 | 8.20752E-13 | 151306 | GPBAR1 |
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| -0.020549599 | 7.63543E-13 | 8548 | BLZF1 |
| -0.020563671 | 7.36647E-13 | 9356 | SLC22A6 |
| -0.020578602 | 7.09128E-13 | 3675 | ITGA3 |
| -0.020578606 | 7.0912E-13 | 64805 | P2RY12 |
| -0.020583684 | 6.99993E-13 | 355 | FAS |
| -0.020588404 | 6.91612E-13 | 7374 | UNG |
| -0.020615628 | 6.45163E-13 | 1500 | CTNND1 |
| -0.020622115 | 6.34554E-13 | 1643 | DDB2 |
| -0.02062795 | 6.2516E-13 | 284427 | SLC25A41 |
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| -0.020665184 | 5.68343E-13 | 402573 | C7orf61 |
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| -0.020717726 | 4.96699E-13 | 6407 | SEMG2 |
| -0.020718053 | 4.96281E-13 | 27022 | FOXD3 |
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| -0.020747846 | 4.59709E-13 | 100132247 | NPIPL3 |
| -0.020751077 | 4.55905E-13 | 84525 | HOPX |
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| -0.020777904 | 4.25496E-13 | 4720 | NDUFS2 |
| -0.02080169 | 4.00205E-13 | 2205 | FCER1A |
| -0.020801719 | 4.00175E-13 | 81698 | LINC00597 |
| -0.020810515 | 3.91203E-13 | 1017 | CDK2 |
| -0.02083784 | 3.6457E-13 | 571 | BACH1 |
| -0.020858488 | 3.45634E-13 | 4920 | ROR2 |
| -0.020863113 | 3.41527E-13 | 25875 | LETMD1 |
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| -0.020876082 | 3.30263E-13 | 121340 | SP7 |
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| -0.051044241 | 0.461561373 | 0.68 | 1 | 440482 | ANKRD20A5P |
| -0.051098664 | 0.461083392 | 0.709 | 1 | 6489 | ST8SIA1 |
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| -0.0512723 | 0.459560246 | 0.682 | 1 | 85235 | HIST1H2AH |
| -0.051295624 | 0.459355858 | 0.699 | 1 | 5816 | PVALB |
| -0.051304694 | 0.459276388 | 0.741 | 1 | 1655 | DDX5 |
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| -0.051324131 | 0.45910612 | 0.695 | 1 | 54893 | MTMR10 |
| -0.051353934 | 0.45884511 | 0.704 | 1 | 5425 | POLD2 |
| -0.051370779 | 0.458697619 | 0.712 | 1 | 9044 | BTAF1 |
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| -0.051396695 | 0.458470762 | 0.72 | 1 | 6518 | SLC2A5 |
| -0.05142909 | 0.458187279 | 0.729 | 1 | 25862 | USP49 |
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| -0.051465372 | 0.457869894 | 0.702 | 1 | 2846 | LPAR4 |
| -0.051475738 | 0.457779235 | 0.722 | 1 | 126661 | RP11-291L19.1 |
| -0.051531457 | 0.457292115 | 0.702 | 1 | 8368 | HIST1H4L |
| -0.051580697 | 0.456861878 | 0.709 | 1 | 55030 | FBXO34 |
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| -0.051627345 | 0.456454494 | 0.756 | 1 | 64745 | METT11D1 |
| -0.051672697 | 0.456058621 | 0.726 | 1 | 100286918 | NDUFS5P2 |
| -0.051688247 | 0.455922937 | 0.723 | 1 | 161779 | PGBD4 |
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| -0.051754332 | 0.455346533 | 0.699 | 1 | 11277 | TREX1 |
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| -0.051900756 | 0.454070858 | 0.716 | 1 | 10818 | FRS2 |
| -0.052010898 | 0.453112601 | 0.707 | 1 | 160897 | GPR180 |
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| -0.052067912 | 0.452617009 | 0.709 | 1 | 55163 | PNPO |
| -0.052118448 | 0.452177989 | 0.713 | 1 | 203076 | C8orf74 |
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| -0.052185829 | 0.451593001 | 0.705 | 1 | 9419 | CRIPT |
| -0.052209153 | 0.451390604 | 0.711 | 1 | 4987 | OPRL1 |
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| -0.052285604 | 0.450727551 | 0.719 | 1 | 283420 | CLEC9A |
| -0.052314111 | 0.450480451 | 0.73 | 1 | 4831 | NME2 |
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| -0.052362056 | 0.450065046 | 0.693 | 1 | 1073 | CFL2 |
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| -0.052407408 | 0.449672295 | 0.707 | 1 | 26127 | FGFR1OP2 |
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| -0.052521437 | 0.448685659 | 0.719 | 1 | 6181 | RPLP2 |
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| -0.056139271 | 0.41802329 | 0.68 | 1 | 204 | AK2 |
| -0.056160004 | 0.417851188 | 0.701 | 1 | 643837 | RP11-206L10.11 |
| -0.056192398 | 0.417582362 | 0.71 | 1 | 391109 | OR10K1 |
| -0.056206652 | 0.41746411 | 0.674 | 1 | 6866 | TAC3 |
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| -0.024742161 | 6.11969E-18 | 8170 | SLC14A2 |
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| -0.024820108 | 4.82281E-18 | 11129 | SFRS16 |
| -0.024822622 | 4.78585E-18 | 4695 | NDUFA2 |
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| -0.025160199 | 1.69165E-18 | 3620 | IDO1 |
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| -0.025165128 | 1.66599E-18 | 9857 | CEP350 |
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| -0.025488228 | 6.07757E-19 | 56616 | DIABLO |
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| -0.02554383 | 5.10286E-19 | 2110 | ETFDH |
| -0.025544983 | 5.08437E-19 | 26277 | TINF2 |
| -0.025550836 | 4.99157E-19 | 51239 | ANKRD39 |
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| -0.025612098 | 4.11512E-19 | 51079 | NDUFA13 |
| -0.025629424 | 3.89612E-19 | 84735 | CNDP1 |
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| -0.025656867 | 3.57258E-19 | 10146 | G3BP1 |
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| -0.061698192 | 0.373380509 | 0.693 | 1 | 883 | CCBL1 |
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| -0.061905518 | 0.371774381 | 0.648 | 1 | 644150 | WIPF3 |
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| -0.090135507 | 0.193082133 | 0.509 | 1 | 84214 | RP13-254B10.1 |
| -0.090184747 | 0.192838283 | 0.5 | 1 | 7775 | ZNF232 |
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| -0.090385593 | 0.191845966 | 0.521 | 1 | 3619 | INCENP |
| -0.090398551 | 0.191782074 | 0.531 | 1 | 5316 | PKNOX1 |
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| -0.09114622 | 0.188121818 | 0.536 | 1 | 340547 | VSIG1 |
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| -0.038996604 | 3.7162E-42 | 8528 | DDO |
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| -0.039028906 | 3.18473E-42 | 1364 | CLDN4 |
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| -0.091825211 | 0.184842422 | 0.521 | 1 | 139425 | WDR42B |
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| -0.091853719 | 0.184705664 | 0.505 | 1 | 645832 | SEBOX |
| -0.091855015 | 0.184699449 | 0.523 | 1 | 51604 | PIGT |
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| -0.091932762 | 0.184326859 | 0.453 | 1 | 8544 | PIR |
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| -0.092045495 | 0.183787587 | 0.52 | 1 | 23098 | SARM1 |
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| -0.100667654 | 0.145903784 | 0.481 | 1 | 84901 | NFATC2IP |
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| -0.044192651 | 1.20161E-53 | 1944 | EFNA3 |
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| -0.102917138 | 0.13707353 | 0.464 | 1 | 79037 | PVRIG |
| -0.103001364 | 0.136751048 | 0.484 | 1 | 284600 | RP11-54O7.1 |
| -0.103023392 | 0.136666803 | 0.486 | 1 | 376693 | RPS10P7 |
| -0.103032463 | 0.136632126 | 0.487 | 1 | 23219 | FBXO28 |
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| -0.103414719 | 0.135176842 | 0.485 | 1 | 8604 | SLC25A12 |
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| -0.103451001 | 0.135039335 | 0.457 | 1 | 2104 | ESRRG |
| -0.103519678 | 0.134779348 | 0.482 | 1 | 1659 | DHX8 |
| -0.103567622 | 0.134598075 | 0.435 | 1 | 3249 | HPN |
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| -0.110678895 | 0.109728485 | 0.416 | 1 | 6636 | SNRPF |
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| -0.053378671 | 1.85614E-77 | 1850 | DUSP8 |
| -0.053381516 | 2.49252E-77 | 1299 | COL9A3 |
| -0.053387702 | 1.74984E-77 | 4208 | MEF2C |
| -0.053401951 | 1.59433E-77 | 54883 | CCDC49 |
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| -0.053407725 | 1.53531E-77 | 23382 | AHCYL2 |
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| -0.053452085 | 1.14889E-77 | 253143 | C22orf30 |
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| -0.053575368 | 5.12612E-78 | 51175 | TUBE1 |
| -0.053580379 | 4.96049E-78 | 4709 | NDUFB3 |
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| -0.126423988 | 0.067511096 | 0.386 | 1 | 5619 | PRM1 |
| -0.126427875 | 0.067502612 | 0.305 | 1 | 155435 | RBM33 |
| -0.12646027 | 0.067431942 | 0.384 | 1 | 79074 | C2orf49 |
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| -0.126561341 | 0.067211842 | 0.349 | 1 | 8566 | PDXK |
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| -0.127743098 | 0.064681732 | 0.387 | 1 | 642517 | BMS1P6 |
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| -0.054000565 | 3.12439E-79 | 1454 | CSNK1E |
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| -0.054036442 | 2.46495E-79 | 4478 | MSN |
| -0.054088593 | 1.74591E-79 | 692312 | PPAN-P2RY11 |
| -0.054103326 | 1.58372E-79 | 6472 | SHMT2 |
| -0.054143672 | 1.21247E-79 | 114799 | ESCO1 |
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| -0.054204667 | 8.09322E-80 | 1200 | TPP1 |
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| -0.054234619 | 6.63507E-80 | 10617 | STAMBP |
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| -0.054417067 | 1.97368E-80 | 9717 | SEC14L5 |
| -0.054456661 | 1.51624E-80 | 7161 | TP73 |
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| -0.054468623 | 1.40009E-80 | 387849 | REP15 |
| -0.054469512 | 1.39183E-80 | 3846 | KRTAP5-9 |
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| -0.054487792 | 1.23219E-80 | 56136 | PCDHA13 |
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| -0.054529584 | 9.32511E-81 | 346157 | ZNF391 |
| -0.054534065 | 9.05052E-81 | 284390 | ZNF763 |
| -0.054546951 | 8.3049E-81 | 64979 | MRPL36 |
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| -0.054589334 | 6.25846E-81 | 7265 | TTC1 |
| -0.054591124 | 6.18408E-81 | 23460 | ABCA6 |
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| -0.054655835 | 4.01315E-81 | 402117 | VWC2L |
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| -0.129076461 | 0.061921429 | 0.352 | 1 | 55754 | TMEM30A |
| -0.129085532 | 0.061902989 | 0.388 | 1 | 84626 | KRBA1 |
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| -0.129257871 | 0.061553483 | 0.373 | 1 | 8431 | NR0B2 |
| -0.129330435 | 0.061406809 | 0.382 | 1 | 112609 | MRAP2 |
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| -0.129787847 | 0.060488853 | 0.362 | 1 | 2958 | GTF2A2 |
| -0.12998092 | 0.060104796 | 0.362 | 1 | 10915 | TCERG1 |
| -0.130012018 | 0.060043123 | 0.369 | 1 | 8600 | TNFSF11 |
| -0.130022385 | 0.060022577 | 0.367 | 1 | 219402 | MTIF3 |
| -0.130087174 | 0.059894295 | 0.38 | 1 | 404201 | WDFY3-AS2 |
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| -0.130131231 | 0.059807193 | 0.326 | 1 | 9741 | LAPTM4A |
| -0.130151963 | 0.05976624 | 0.354 | 1 | 57728 | WDR19 |
| -0.130159738 | 0.059750888 | 0.378 | 1 | 55143 | CDCA8 |
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| -0.13022971 | 0.059612871 | 0.364 | 1 | 84851 | TRIM52 |
| -0.13041112 | 0.059256274 | 0.337 | 1 | 51700 | CYB5R2 |
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| -0.130852983 | 0.058395067 | 0.338 | 1 | 7773 | ZNF230 |
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| -0.131038281 | 0.058037005 | 0.349 | 1 | 9306 | SOCS6 |
| -0.131048647 | 0.058017028 | 0.375 | 1 | 440823 | MIAT |
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| -0.131140648 | 0.057839975 | 0.363 | 1 | 7750 | ZMYM2 |
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| -0.131195071 | 0.057735449 | 0.359 | 1 | 491 | ATP2B2 |
| -0.131223578 | 0.05768076 | 0.351 | 1 | 333 | APLP1 |
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| -0.131310396 | 0.057514471 | 0.339 | 1 | 3070 | HELLS |
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| -0.132383306 | 0.055491962 | 0.35 | 1 | 54905 | CYP2W1 |
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| -0.134568001 | 0.051555608 | 0.344 | 1 | 348995 | NUP43 |
| -0.134583551 | 0.051528446 | 0.338 | 1 | 150763 | GPAT2 |
| -0.134604283 | 0.05149225 | 0.33 | 1 | 11138 | TBC1D8 |
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| -0.134864736 | 0.051039333 | 0.351 | 1 | 11091 | WDR5 |
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| -0.059963457 | 2.77063E-97 | 92856 | IMP4 |
| -0.059986727 | 2.33574E-97 | 6882 | TAF11 |
| -0.059987144 | 4.42202E-97 | 56935 | C11orf75 |
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| -0.060007304 | 2.00828E-97 | 80852 | GRIP2 |
| -0.060028935 | 1.71334E-97 | 6737 | TRIM21 |
| -0.0600328 | 1.66538E-97 | 23536 | ADAT1 |
| -0.06003541 | 1.63376E-97 | 347731 | LRRTM3 |
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| -0.060098025 | 1.03121E-97 | 4131 | MAP1B |
| -0.060100393 | 1.01341E-97 | 6304 | SATB1 |
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| -0.060184663 | 5.45112E-98 | 4299 | AFF1 |
| -0.060198814 | 4.91162E-98 | 6715 | SRD5A1 |
| -0.060202819 | 4.76887E-98 | 128866 | CHMP4B |
| -0.060206351 | 4.64639E-98 | 649 | BMP1 |
| -0.060210824 | 4.49579E-98 | 64718 | C16orf28 |
| -0.060222719 | 4.11856E-98 | 27 | ABL2 |
| -0.060233086 | 3.81566E-98 | 10199 | MPHOSPH10 |
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| -0.060266847 | 2.97501E-98 | 10391 | CORO2B |
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| -0.060288847 | 2.52944E-98 | 56937 | PMEPA1 |
| -0.060290221 | 2.50393E-98 | 140832 | WFDC10A |
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| -0.14492133 | 0.035924489 | 0.317 | 1 | 219654 | ZCCHC24 |
| -0.144932992 | 0.035909451 | 0.287 | 1 | 26575 | RSG17 |
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| -0.145385221 | 0.035330426 | 0.317 | 1 | 8771 | TNFRSF6B |
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| -0.145479813 | 0.035210319 | 0.337 | 1 | 124808 | CCDC43 |
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| -0.146367427 | 0.034100077 | 0.328 | 1 | 719 | C3AR1 |
| -0.146371314 | 0.034095281 | 0.31 | 1 | 25956 | SEC31B |
| -0.14637261 | 0.034093682 | 0.313 | 1 | 170691 | ADAMTS17 |
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| -0.146458132 | 0.033988316 | 0.302 | 1 | 221336 | BEND6 |
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| -0.146512555 | 0.033921409 | 0.312 | 1 | 6119 | RPA3 |
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| -0.146582527 | 0.03383555 | 0.276 | 1 | 23158 | TBC1D9 |
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| -0.146608443 | 0.033803798 | 0.328 | 1 | 158314 | LINC00475 |
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| -0.061197321 | 2.9564E-101 | 1269 | CNR2 |
| -0.061206231 | 2.7656E-101 | 6279 | S100A8 |
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| -0.061304619 | 1.3229E-101 | 2903 | GRIN2A |
| -0.061306677 | 1.3027E-101 | 60436 | TGIF2 |
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| -0.06131181 | 1.2535E-101 | 10911 | UTS2 |
| -0.061314919 | 1.2246E-101 | 7837 | PXDN |
| -0.061323282 | 1.1501E-101 | 8225 | GTPBP6 |
| -0.061325414 | 1.1318E-101 | 3670 | ISL1 |
| -0.061365278 | 8.3914E-102 | 254173 | TTLL10 |
| -0.061374499 | 7.8301E-102 | 7579 | ZSCAN20 |
| -0.061383227 | 2.6642E-101 | 126820 | WDR63 |
| -0.06140593 | 6.1835E-102 | 23191 | CYFIP1 |
| -0.06140679 | 6.1436E-102 | 8508 | NIPSNAP1 |
| -0.061431014 | 5.1211E-102 | 51188 | SS18L2 |
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| -0.061487733 | 3.343E-102 | 146705 | C17orf56 |
| -0.061524921 | 2.5269E-102 | 84542 | KIAA1841 |
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| -0.0615809 | 1.6576E-102 | 1998 | ELF2 |
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| -0.061638592 | 1.073E-102 | 81470 | OR2G2 |
| -0.061646224 | 1.013E-102 | 4656 | MYOG |
| -0.06165618 | 9.3971E-103 | 6400 | SEL1L |
| -0.061656692 | 9.3609E-103 | 79724 | ZNF768 |
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| -0.061685451 | 7.5348E-103 | 7399 | USH2A |
| -0.061720324 | 5.7906E-103 | 338773 | TMEM119 |
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| -0.061758292 | 4.3467E-103 | 211 | ALAS1 |
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| -0.061827862 | 2.5687E-103 | 139189 | DGKK |
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| -0.061914865 | 1.3294E-103 | 84992 | PIGY |
| -0.061921427 | 1.265E-103 | 4706 | NDUFAB1 |
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| -0.147638592 | 0.032561994 | 0.274 | 1 | 8350 | HIST1H3A |
| -0.147639888 | 0.032560457 | 0.257 | 1 | 767 | CA8 |
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| -0.147718931 | 0.032466804 | 0.286 | 1 | 55260 | TMEM143 |
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| -0.147728002 | 0.032456072 | 0.327 | 1 | 91433 | RCCD1 |
| -0.147730593 | 0.032453006 | 0.3 | 1 | 9732 | DOCK4 |
| -0.147756509 | 0.032422361 | 0.296 | 1 | 4888 | NPY6R |
| -0.1477591 | 0.032419298 | 0.313 | 1 | 6483 | ST3GAL2 |
| -0.147770763 | 0.032405517 | 0.299 | 1 | 130535 | KCTD18 |
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| -0.147844622 | 0.032318353 | 0.302 | 1 | 2583 | B4GALNT1 |
| -0.147866651 | 0.032292396 | 0.323 | 1 | 1431 | CS |
| -0.147867946 | 0.032290869 | 0.3 | 1 | 50674 | NEUROG3 |
| -0.147926257 | 0.032222246 | 0.288 | 1 | 375 | ARF1 |
| -0.147937919 | 0.032208537 | 0.296 | 1 | 84875 | PARP10 |
| -0.147954764 | 0.032188743 | 0.294 | 1 | 65981 | CAPRIN2 |
| -0.147961243 | 0.032181133 | 0.305 | 1 | 9527 | GOSR1 |
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| -0.148050652 | 0.032076267 | 0.31 | 1 | 388882 | AP000345.1 |
| -0.148070089 | 0.032053508 | 0.315 | 1 | 84812 | PLCD4 |
| -0.148081751 | 0.03203986 | 0.258 | 1 | 6164 | RPL34 |
| -0.148101188 | 0.032017124 | 0.314 | 1 | 10141 | C4orf6 |
| -0.148105075 | 0.032012578 | 0.3 | 1 | 4583 | MUC2 |
| -0.148198372 | 0.031903648 | 0.325 | 1 | 55262 | C7orf43 |
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| -0.148203555 | 0.031897606 | 0.291 | 1 | 55703 | POLR3B |
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| -0.151198116 | 0.028565852 | 0.295 | 1 | 84957 | RELT |
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| -0.151322511 | 0.028434153 | 0.264 | 1 | 284391 | ZNF844 |
| -0.151326399 | 0.028430046 | 0.267 | 1 | 323 | APBB2 |
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| -0.151488372 | 0.028259364 | 0.278 | 1 | 7343 | UBTF |
| -0.151494851 | 0.028252555 | 0.274 | 1 | 84938 | ATG4C |
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| -0.151545387 | 0.028199493 | 0.276 | 1 | 5725 | PTBP1 |
| -0.151549274 | 0.028195415 | 0.261 | 1 | 387646 | RP11-85G18.4 |
| -0.15157519 | 0.02816824 | 0.281 | 1 | 8927 | BSN |
| -0.151579077 | 0.028164166 | 0.277 | 1 | 27072 | VPS41 |
| -0.151708656 | 0.028028646 | 0.264 | 1 | 2931 | GSK3A |
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| -0.065571688 | 5.4386E-116 | 8898 | MTMR2 |
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| -0.065633267 | 3.3171E-116 | 3178 | HNRNPA1P2 |
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| -0.065814191 | 7.7397E-117 | 81556 | C15orf44 |
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| -0.06671668 | 5.1267E-120 | 155 | ADRB3 |
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| -0.06674781 | 3.9757E-120 | 8540 | AGPS |
| -0.066754352 | 3.7688E-120 | 5066 | PAM |
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| -0.161538486 | 0.019251347 | 0.245 | 1 | 7576 | ZNF28 |
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| -0.161644741 | 0.019171311 | 0.24 | 1 | 27443 | CECR2 |
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| -0.084052844 | 1.4984E-189 | 1350 | COX7C |
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| -0.084104483 | 8.7981E-190 | 8774 | NAPG |
| -0.084109507 | 8.3538E-190 | 2788 | AC005512.1 |
| -0.084118002 | 7.6529E-190 | 125061 | AFMID |
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| -0.084657223 | 2.885E-192 | 55922 | NKRF |
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| -0.086815933 | 3.9829E-202 | 51088 | KLHL5 |
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| -0.086837808 | 3.155E-202 | 829 | CAPZA1 |
| -0.086849424 | 2.7877E-202 | 7336 | UBE2V2 |
| -0.086861185 | 2.4594E-202 | 29802 | VPREB3 |
| -0.086883718 | 1.9343E-202 | 3689 | ITGB2 |
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| -0.086953328 | 9.2075E-203 | 25830 | SULT4A1 |
| -0.086981653 | 6.8058E-203 | 84940 | CORO6 |
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| -0.087024738 | 4.2968E-203 | 2561 | GABRB2 |
| -0.087030952 | 4.021E-203 | 254228 | FAM26E |
| -0.087032955 | 3.9359E-203 | 5201 | PFDN1 |
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| -0.087110282 | 1.723E-203 | 23232 | TBC1D12 |
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| -0.087168659 | 9.2304E-204 | 148898 | C1ORF213 |
| -0.087201003 | 6.5308E-204 | 10755 | GIPC1 |
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| -0.087344777 | 1.4007E-204 | 392255 | GDF6 |
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| -0.087357619 | 1.2206E-204 | 6345 | SRL |
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| -0.215000016 | 0.001762432 | 0.142 | 1 | 8471 | IRS4 |
| -0.215010382 | 0.001761512 | 0.141 | 1 | 5862 | RAB2A |
| -0.215059622 | 0.001757145 | 0.159 | 1 | 2971 | GTF3A |
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| -0.216507015 | 0.001633136 | 0.118 | 1 | 163115 | ZNF781 |
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| -0.217075865 | 0.00158663 | 0.138 | 1 | 92558 | CCDC64 |
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| -0.087635724 | 6.1647E-206 | 59285 | CACNG6 |
| -0.087641733 | 5.7789E-206 | 7922 | SLC39A7 |
| -0.087656761 | 4.9165E-206 | 23551 | RASD2 |
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| -0.087790491 | 1.1655E-206 | 7706 | TRIM25 |
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| -0.087867584 | 5.0777E-207 | 57104 | PNPLA2 |
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| -0.087897584 | 3.6742E-207 | 51696 | HECA |
| -0.087898292 | 3.6463E-207 | 339145 | FAM92B |
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| -0.08807134 | 5.6293E-208 | 285671 | RNF180 |
| -0.088079908 | 5.1314E-208 | 79923 | NANOGP8 |
| -0.088101217 | 4.0757E-208 | 8031 | NCOA4 |
| -0.088101223 | 4.0754E-208 | 63893 | UBE2O |
| -0.088103679 | 3.9687E-208 | 132241 | RPL32P3 |
| -0.088128529 | 3.0335E-208 | 7162 | TPBG |
| -0.088183656 | 1.6709E-208 | 9899 | SV2B |
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| -0.08824732 | 8.3878E-209 | 2713 | GK3P |
| -0.088251838 | 7.9873E-209 | 10844 | TUBGCP2 |
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| -0.088368573 | 2.2542E-209 | 352954 | GATS |
| -0.088386091 | 1.8642E-209 | 254973 | OR1L4 |
| -0.088390704 | 1.7732E-209 | 117166 | WFIKKN1 |
| -0.088422634 | 1.254E-209 | 79101 | TAF1D |
| -0.088433907 | 1.1096E-209 | 113174 | SAAL1 |
| -0.088445038 | 9.8337E-210 | 441425 | ANKRD20A1 |
| -0.088460902 | 8.2781E-210 | 6869 | TACR1 |
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| -0.088568602 | 2.5695E-210 | 692099 | FAM86DP |
| -0.088589886 | 2.0388E-210 | 2220 | FCN2 |
| -0.088594146 | 1.9465E-210 | 3270 | HRC |
| -0.088596411 | 1.8992E-210 | 9118 | INA |
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| -0.088610532 | 1.6289E-210 | 5001 | ORC5L |
| -0.088640812 | 1.1718E-210 | 130916 | MTERFD2 |
| -0.088670216 | 8.5098E-211 | 10716 | TBR1 |
| -0.088677008 | 7.9035E-211 | 84895 | FAM73B |
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| -0.218665794 | 0.001463003 | 0.107 | 1 | 1130 | LYST |
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| -0.219304617 | 0.001415865 | 0.131 | 1 | 5494 | PPM1A |
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| -0.219403096 | 0.001408724 | 0.105 | 1 | 79664 | NARG2 |
| -0.219413463 | 0.001407974 | 0.134 | 1 | 3223 | HOXC6 |
| -0.219522309 | 0.001400123 | 0.13 | 1 | 987 | LRBA |
| -0.219844959 | 0.001377086 | 0.11 | 1 | 23774 | BRD1 |
| -0.220038031 | 0.001363468 | 0.122 | 1 | 262 | AMD1 |
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| -0.220145582 | 0.001355935 | 0.142 | 1 | 123722 | FSD2 |
| -0.220162427 | 0.001354759 | 0.124 | 1 | 9861 | PSMD6 |
| -0.220197413 | 0.001352319 | 0.124 | 1 | 145978 | NCRNA00052 |
| -0.220205188 | 0.001351777 | 0.112 | 1 | 25812 | POM121L1P |
| -0.220258315 | 0.001348081 | 0.114 | 1 | 79919 | C2orf54 |
| -0.220310146 | 0.001344483 | 0.125 | 1 | 55344 | PLCXD1 |
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| -0.220622431 | 0.001322996 | 0.136 | 1 | 91748 | C14orf43 |
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| -0.220856968 | 0.001307065 | 0.121 | 1 | 8843 | HCAR3 |
| -0.220864743 | 0.00130654 | 0.15 | 1 | 57677 | ZFP14 |
| -0.221004688 | 0.001297123 | 0.123 | 1 | 3182 | HNRNPAB |
| -0.221005983 | 0.001297036 | 0.106 | 1 | 162966 | ZNF600 |
| -0.221007279 | 0.001296949 | 0.094 | 1 | 4174 | MCM5 |
| -0.22107466 | 0.001292437 | 0.127 | 1 | 7321 | UBE2D1 |
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| -0.221165365 | 0.001286386 | 0.137 | 1 | 646891 | SDCCAG3P2 |
| -0.221221084 | 0.001282682 | 0.096 | 1 | 118611 | C10orf90 |
| -0.221235337 | 0.001281736 | 0.11 | 1 | 9667 | SAFB2 |
| -0.221239225 | 0.001281478 | 0.121 | 1 | 440193 | CCDC88C |
| -0.221292352 | 0.001277959 | 0.128 | 1 | 79444 | BIRC7 |
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| -0.235853097 | 0.000587379 | 0.121 | 1 | 3620 | IDO1 |
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| -0.239297295 | 0.000485345 | 0.086 | 1 | 64795 | RMND5A |
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| -0.095432011 | 5.4654E-244 | 163081 | ZNF567 |
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| -0.273047332 | 6.47713E-05 | 0.042 | 1 | 8382 | NME5 |
| -0.273117304 | 6.44835E-05 | 0.052 | 1 | 646892 | SH2D7 |
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| -0.273592858 | 6.25594E-05 | 0.051 | 1 | 388796 | RP4-564F22.1 |
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| -0.275184083 | 5.65067E-05 | 0.074 | 1 | 219833 | C11orf45 |
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| -0.104916001 | 1.1801E-293 | 64208 | POPDC3 |
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| -0.105515456 | 4.2669E-298 | 152330 | CNTN4 |
| -0.105552987 | 2.6205E-298 | 56983 | KTELC1 |
| -0.105578807 | 1.8736E-298 | 85452 | C1orf222 |
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