

Supplementary Table 4. Microarray results WT SHAM vs. WT DOCA  
The full data are available via GEO accession number GSE144237

ID	Fold Change	FOR P-val	Gene Symbol	Description
1750992	-3.12	0.0052	Zmhc2	zinc finger, DHHC domain containing 2
1751077	-3.09	0.0052	Fxyh2	FXYH domain-containing oncoferritin regulator 6
1746673	-1.98	0.0052	Anktk1	ankyrin toxin receptor 1
172173	-1.84	0.0052	Fmrb	ferrous iron reductase
1750523	-2.12	0.0052	Mmp2	matrix metalloproteinase 2
1721158	-2.05	0.0052	Mbl1	myeloblastosis oncogene-like 1
1729804	-1.95	0.0052	Tfoc4	transferrin receptor 4
1735904	-2.27	0.0052	Coil8b	coiled-coil domain containing 8b
1751919	-2.61	0.0052	Dnak1	denaturation-associated kinase 1
1750199	-2.58	0.0052	Comp	collagen oligomer, matrix protein
1750922	-1.93	0.0052	Leprel1	leptin receptor overexpressing transmembrane-like 1
1750290	2.13	0.0052	Wdr3	WDR (WD repeat domain) protein kinase 2
1750425	-1.89	0.0052	Ploae2	procollagen C-endopeptidase enhancer 2
1723758	-2.45	0.0052	Phc1b1a	phosphatase 42, atypical IVA (calcium, calcium-dependent)
1751594	-1.77	0.0052	Myc6	myosin 6A
1734719	-2.34	0.0052	Ahnak2	AHNK nucleoskeleton 2
1738214	-1.95	0.0052	Phf2	phen domain containing 2
1738705	-4.56	0.0052	Frzb	frizzled-related protein
1739149	-3.10	0.0052	Actm	actin
1738233	-1.95	0.0052	Smc4	structural maintenance of chromosomes 4
1730583	-1.89	0.0052	Cpne8	copine VIII
1729549	2.83	0.0052	Gm3f2b	predicted gene, 23739 [Source MGI Symbol:Acc:MG1545316]
1751955	4.85	0.0052	Acta1	actin, alpha 1, skeletal muscle
1747192	-2.16	0.0052	Mef	matrix gla protein
1751514	-2.18	0.0052	Gdf15	growth differentiation factor 15
1742273	-1.81	0.0057	Mpr8	matrix remodeling associated 8
1745181	-1.95	0.0057	Fam92p	family with sequence similarity 92, member 8
1728025	-2.34	0.0057	Pal3	PDZ loop repeat containing
1733508	-2.43	0.0057	Rpl16	ribosomal protein L16
1745823	-2.82	0.0057	Pih1	immunoglobulin kappa chain variable 8 (V8); immunoglobulin kappa chain variable 21 (V21); immunoglobulin kappa chain variable 28 (V28)
1737492	-3.09	0.0057	Rpl4	immunoglobulin kappa chain variable 6 (V6); immunoglobulin kappa chain variable 21 (V21); immunoglobulin kappa chain variable 28 (V28)
1743315	-1.97	0.0057	Mmp23	proteoglycan 4 (meqaroycte stimulator factor, articular zone protein)
1728170	-2.11	0.0057	Omd	osteonodulin
1734253	-1.75	0.0057	Egr3	erythrocyte membrane protein 2, alpha kinase 2
1746340	-2.6	0.0057	Nusr1	nuclear protein transcription regulator 1
1730842	-1.75	0.0057	Usp2	Usp-domain glycoprotein glucosyltransferase 2
1731999	-1.19	0.0057	Rimc3	RNA binding motif, sparse stranded interacting protein 3
1748150	-2.18	0.0057	Ohit1	ohit domain-like 1
1730778	-2.08	0.0057	Pax6in1	paired-domain growth factor receptor-like
1724131	-1.56	0.0057	Bicc1	bicaudal C homolog 1 (Drosophila)
1745776	2.09	0.0057	Gm1	glutathione S-transferase kappa 1
1731351	-3.21	0.0057	Col1a1	collagen, type XI, alpha 1
1736412	-2.03	0.0057	1500017E1Rk	Riken cDNA 1500017E1 gene
1751512	-1.84	0.0057	Gls	glutamate aminotransferase protein, nucleoside nucleosylphosphatase
1728148	-1.78	0.0057	Ecm2	extracellular matrix protein 2, female organ and adipocyte specific
1724948	3.24	0.0057	Etm1	epidermal growth factor-containing fibulin-like extracellular matrix protein 1
1725839	-1.9	0.0057	Pmp22	peripheral myelin protein 22
1750583	2.32	0.0057	Gals3t3	galactose 3-O-sulfotransferase 3
1726914	-4.13	0.0057	Mest1	meis domain homeobox 1
1753811	-2.02	0.0057	Gm3b	glycoprotein mb3
1733446	2.39	0.0057	Rpl3	ribosomal protein L3-like
1724059	-6.15	0.0057	Gm2b19	predicted gene, 20019 [Source MGI Symbol:Acc:MG1545793]
1750346	1.84	0.0057	Gm2	glutamic pyruvate transaminase (alanine aminotransferase) 2
1721014	-1.78	0.0057	Cd34	CD34 antigen
1746440	1.83	0.0057	Poa3a	pyrophosphatase 3A, cAMP inhibited
1727230	1.87	0.0057	Zfp21	zinc finger, FYVE domain containing 21
1725428	1.74	0.0057	Linc4b	linc-4b homolog B (C. elegans)
1731428	1.97	0.0057	Olym1	oligomycin (ATP-hydrolyzing)
1743691	1.74	0.0057	Wdr1	WDR (WD repeat domain) protein 1
1728407	1.83	0.0057	Mpc1	mitochondrial pyruvate carrier 1, pseudogene
1730881	-1.83	0.0057	Fyb	FYB binding protein
1730298	-1.95	0.0057	Etm8	endothelin receptor type 8
1738102	1.79	0.0057	Naf1b3	NADH dehydrogenase (ubiquinone) F1-F3 subunit 8
1740548	-1.99	0.0057	Nmf10	immunoglobulin superfamily, member 10
1739919	2.12	0.0059	583047110Rk	gon-4-like pseudogene
1732899	-1.89	0.0059	Cdr3	chemokine (C-C motif) receptor 3
1745146	2.13	0.0059	Acs2	acyl-Coenzyme A dehydrogenase, short chain
1732787	1.98	0.0057	Tbc1d1b	TBC1 domain family, member 16
1750915	-1.91	0.0057	Tm6d3	transmembrane protein 6, member 3
1727144	-1.54	0.0071	Sct1b6	solute carrier family 18 (monocarboxylic acid transporters), member 6
1733829	-1.86	0.0071	Gm1734_Bg3	B-cell translocation gene 3 pseudogene; B cell translocation gene 3
1745993	-1.85	0.0073	Tmem178	transmembrane protein 178A
1750609	-2.34	0.0074	Nr1	neurexin 1
1738933	-1.92	0.0074	Gm4	CD44 antigen
1752484	-1.85	0.0074	Naa24z2	N-acetylated alpha-linked acidic dipeptidase 2
1735184	-1.81	0.0074	Cd58b	coiled-coil domain containing 58b
1744970	-1.91	0.0074	Mef2a	myocyte enhancer factor 2, independent adipogenesis
1750584	-2.17	0.0074	Gm1	guanine nucleotide binding protein, alpha O
1751447	-3.01	0.0074	Camp12	casein phosphopeptide 12
1736418	-2.06	0.0074	Ankrd1	ankyrin repeat domain 1 (cardiac muscle)
1747119	-2	0.0076	Erb	electron transfer flavoprotein, beta polypeptide
1750322	-2.05	0.0077	Palm3	PDZ and LIM domain 3
1751993	3.99	0.0077	Ce1d	carboxylesterase 1D
1746870	-2.7	0.0077	Lnc3	linc3 non-coding RNA 3
1728270	-3.86	0.0077	Lbp2	latent transforming growth factor beta binding protein 2
1741090	1.89	0.0077	Hsh	hydroxyacyl-Coenzyme A dehydrogenase
1747675	-2.09	0.0077	Pct1	protein regulator of cytokinesis 1
1750624	-2.75	0.0077	Rpl7	ribosomal protein L7, cellular
1752899	-1.7	0.0077	Actn1	actin, actin binding protein 1
1725764	-1.89	0.0077	Pknox1	protein kinase, cAMP dependent regulatory, type 1, alpha
1727939	2.11	0.0077	903661003Rk_Gm3672	Riken cDNA 903661003 gene, predicted gene, 96572
1750978	-3.09	0.0077	2509522Rk	Riken cDNA 2509522 gene
1727698	-2.13	0.0077	Gli3	complement component factor 3
1727524	-1.88	0.0077	Spr4c	signal receptor partner 4C
1738438	1.83	0.0077	Fam2	fat storage-inducing transmembrane protein 2
1735645	2.48	0.0077	Scam17	small GTPase-specific RNA 17
1746112	1.52	0.0077	Bmp1	small GTPase-specific RNA, short chain, 1, mitochondrial
1750709	-2.07	0.0077	Bmp4	enoyl-Coenzyme A hydratase, short chain, 1, mitochondrial
1746347	-1.62	0.0077	Linc18	long non-coding RNA, mitochondrial
1744887	-1.45	0.0077	Gh3c3	alpha tubulin specific postulate 18
1746633	-1.83	0.0077	Gh3c2	general transcription factor IIC, polypeptide 2, alpha
1746951	-1.73	0.0077	Gh3c4	src family associated phosphoprotein 2
1734818	1.85	0.0077	Rplnd	mitochondrial ribosomal protein L14
1726237	1.81	0.0077	Dnab1	perlecan 5
1722564	1.98	0.0077	Sno89b	snRNP89b binding protein 1
1745424	1.75	0.0077	Maf1	small nuclear RNA, CID box B8
1750918	1.89	0.0077	Maf1	MAF1 homolog (S. cerevisiae)
1737880	-2.69	0.0078	Pamr1	peptidase domain containing associated with muscle regeneration 1, predicted gene, 38891
1727808	-1.82	0.0078	Ncapd	non-SMC condensin I complex, subunit D2
1742823	-1.51	0.0082	Lap1	low density lipoprotein receptor-related protein 1
1741973	-1.7	0.0082	Lemc1	leptin receptor overlapping transcript
1749165	-2.21	0.0082	Abp2e	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit
1746630	-1.64	0.0082	Rpl18	RAD18 (E3 ubiquitin protein ligase)
1751390	1.88	0.0084	Foxo3	F box protein 31
1722739	-1.67	0.0084	Plec	protein tyrosine phosphatase, receptor type, C
1742801	1.89	0.0084	Smeo5p	small nuclear RNA, CID box 55
1722015	1.92	0.0084	Abp2c	ATP-binding cassette, subfamily A, ABC11, member 12
1740890	-1.84	0.0085	Gd35	GD35 antigen
1735838	-1.51	0.0086	Klfb2b	kinase family member 20b
1746843	-1.7	0.0086	Mnt4d2	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methylenetetrahydrofolate cyclohydrolase
1746553	-3.28	0.0086	Mnt4d	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methylenetetrahydrofolate cyclohydrolase
1750975	1.87	0.0086	Gm1793	predicted gene, 10793
1747874	-3.37	0.0086	Nxw4	NAADH oxidase 4
1741404	-1.49	0.0086	Erl4	E74-like factor 4 (ets domain transcription factor)
1723840	-2.04	0.0086	Ubp1	UL16 binding protein 1
1731257	2.05	0.0086	Ubp2	glutamic pyruvic transaminase, soluble
1739164	3.02	0.0086	Rpl1	ribosomal protein L1, without CAUX 1
1731198	-2.25	0.0086	Snf1	sucrose 6-phosphatase 1
1722077	-1.97	0.0086	Pfap8	protein arginine-rich and leucine-rich repeat
1735844	-2.45	0.0086	Pfap2	prolyl 3-hydroxylase 2
1750599	-1.87	0.0086	Erv4b	endoplasmic reticulum viral integrin site 2b, predicted gene 121915
1745333	2.14	0.0086	Vim110	vimentin 110
1738222	-1.75	0.0086	Ahnak2	AHNK nucleoskeleton 2
1746207	1.64	0.0086	Sbn1	SNA binding kinase 1
1730336	4.38	0.0086	Rpl1	ribosomal protein L1-like 1
1725959	1.81	0.0086	Gm194b	predicted gene, 194b
1724318	1.89	0.0086	B10L4a1e	DNA segment, Chr 10, Jones Hopkins University B1 expressed
1741010	-1.85	0.0086	Snm2	sphingomyelin synthase 2
1742076	-2.81	0.0086	Aoc4	apolipoprotein 4
1744864	-1.83	0.0086	Nax3	neuron navigator 3
1733591	1.8	0.0086	Snc4a	solute carrier family 4, member 3
1750088	-2.75	0.009	Slp1	secreted fibronectin-binding protein 1
1737870	2.83	0.009	Snc110	small nuclear RNA, CID box 110
1741020	1.45	0.009	Cdcl1	glycosylated 1
1734812	1.86	0.009	Dap2	desmoglein 2
1729508	-1.89	0.009	Cer6	cyclin-dependent kinase inhibitor 3
1737174	-1.46	0.009	Cer8	ceramide synthase 8
1728538	-2.1	0.009	Tspan17	tetraspanin 17
1733116	-3.24	0.009	Col8a1	collagen, type VIII, alpha 1
1750976	2.64	0.0091	Sic2a2	solute carrier family 25, member 42
1734878	-1.77	0.0091	Col8a2	coiled-coil domain containing 8a2
1748117	1.82	0.0093	Gm393	predicted pseudogene E293 [Source MGI Symbol:Acc:MG13649011]
1732781	-1.96	0.0093	Col10a1	collagen type X, alpha 1
1726927	-1.79	0.0093	Col10a2	collagen type X, alpha 2
1732713	-1.9	0.0093	Nrc3	neural retina lipid transferase 3
1734128	1.84	0.0093	Nrc4	NLR family, CARD domain containing 3
1733402	1.73	0.0093	Sno89b	snRNP89b
1737837	2.01	0.0093	Mnt1c3a	small nuclear RNA, CID box 60 [Source MGI Symbol:Acc:MG1545298]; RAD26, member RAS oncogene family, opposite strand [Source MGI Symbol:Acc:MG1192294]
1730446	-1.59	0.0094	Mnt1c3a	microbubble-associated protein 1 light chain 3, alpha
1742077	1.92	0.0095	Adm1a1	protein kinase C, delta
1750595	1.85	0.0095	Kom1	aldehyde dehydrogenase 2 family, member A1
1723163	-1.85	0.0095	Ser1a4	SERTA domain containing 4
1721843	-1.74	0.0095	Am2	absent in melanoma 2
1729572	-1.88	0.0095	Lpa4	leptin-like protein 4
1750547	1.59	0.0096	Kbnc13	domain sulfate epimerase-like
1735174	1.97	0.0096	Rpl13a	leish receptor and BTB (POZ) domain containing 13
1750423	1.88	0.0096	Mmp15	matrix metalloproteinase 15
1737327	-1.88	0.0096	Candc1	cardiac succinyl-CoA candidate 4
1727949	1.58	0.0096	Ctpe2	cytosine rich protein 2
1724674	1.67	0.0097	Dusp18	dual specificity phosphatase 18
1725503	1.78	0.0096	Mmp19	microsomal glutathione S-transferase 3
1727509	-1.91	0.0099	Acm	alkylglycerol monoacylglycerol
1725687	1.77	0.0099	Tmem84	transmembrane protein 84
1721199	-1.58	0.0099	Htr2	histamine 1 receptor-like 2
1750498	1.6	0.0099	Amr	carbonic anhydrase 4
1750388	-3.08	0.0099	Vamp	Viral and immunoglobulin-like domain containing 4
1750233	2.79	0.0099	Sic21a1	solute carrier family 27 (fatty acid transporters), member 1
1751004	-1.83	0.0099	Hau8	HAUS augmin-like complex, subunit 8
1726106	2.24	0.0099	Dmp11	dehydroepiandrosterone (SBR family) member 11
1732168	-1.76	0.0099	Bn2	binding integrator 2
1750599	-4.54	0.0101	Col12a1	collagen type XII, alpha 1

17363407	-2.2	0.0108	Anxa1	annexin A1
17363444	1.98	0.0108	Avp12	aldehyde dehydrogenase 1 family, member 12
17363500	2.12	0.0108	Mbt1	myosin heavy chain associated RNA transcript
17363517	-1.05	0.0108	Serpina1	serpin (or cysteine) peptidase inhibitor, class G, member 1
17363526	1.98	0.0108	Wim	witin
17363560	-1.52	0.0109	Zfp442_330000X0Rk	zinc finger protein 442; RIKEN cDNA 330000X08 gene
17374533	-1.45	0.0109	Nubn1	nucleolar and growth associated protein 1
17401560	-1.81	0.011	Apobc1	apolipoprotein B mRNA editing enzyme, catalytic subunit 1
17418188	1.85	0.011	Nbc1a	S-nucleotidase, cytosolic 1A
17431017	1.62	0.0111	Nkap2	NKA kinase A, mitochondrial
17439030	-2.05	0.0113	Tgfb3	transforming growth factor, beta 2
17470759	1.88	0.0114	Cpf14	cathepsin F-like 14
17482288	-1.56	0.0115	Igf1	insulin-like growth factor 1
17418494	1.86	0.0117	Fncb3	fibronectin type III domain containing 5
17389177	-3.37	0.0117	Fbn1	(in blood) fibrillin (factor homology) protein 1
17489526	2.67	0.0117	Klf15	Kruppel-like factor 15
17217838	1.95	0.0117	Lact1	lactin
17488312	-1.77	0.0118	Gab2	growth factor receptor bound protein 2-associated protein 2
17432976	-3.4	0.0119	Angpt1	angiopoietin-like 1
17391775	-7.38	0.0122	Psmc1	prosome-specific factor 1
17263600	1.95	0.0122	Ubcme1	ubiquitin-cytochrome c reductase, complex III subunit VII
17338995	-1.43	0.0124	Cbr1	chloride intracellular channel 1
17353304	-1.44	0.0126	480505L10Rk	RIKEN cDNA 480505L10 gene
17430889	-2.23	0.0126	Fz12	fibronectin-like protein 2
17456201	1.65	0.0126	Propr17	ADP-ribosyltransferase 5
17488511	-1.54	0.0126	Anxa2	annexin A2
17491934	-1.94	0.0126	Mafk	antigen identified by monoclonal antibody Ki 67
17464588	-1.81	0.0126	Sacc	sarcosylcan, epsilon
17398234	-1.76	0.0126	Sh3d19	SH3 domain protein D19
17434965	-1.58	0.0126	Propr17	prosome-specific factor 17
17432296	1.9	0.0126	Sic3a3a	solute carrier family 25, member 34
17541976	1.82	0.0126	LOC100305615em6963	40S ribosomal protein S21 pseudogene, predicted pseudogene 1963 [Source: MGI Symbol:Acc:MG1:3646148]
17541036	1.8	0.0126	Ndu1a	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1
17398701	-2.16	0.0128	Nbs	inter-alpha (ligand) inhibitor H5
17519116	1.19	0.0128	Ysc4	Y scw protein 2
17197328	-2.51	0.0128	Cd109	CD109 antigen
17456226	-2.02	0.0128	LOC100410003	
17448424	-2.02	0.0128	Gm15433	proteasome-activated receptor-like predicted pseudogene 15433
17398605	-1.67	0.0128	Heli2	HELI domain containing 2
17179691	-2.07	0.0128	Kozp2	potassium channel, subfamily 1, member 2
17296556	1.7	0.0128	Hcst1	hexachloro dehydrochlorase-like
17302011	-1.94	0.0128	Anc3	amyloidosis with pro-oncogenesis 3
17397960	2.18	0.0129	Mme	membrane metallo endopeptidase
17313944	1.82	0.0129	Rps27l, Rps27	ribosomal protein S27, retroviral, ribosomal protein S27
17398171	1.59	0.0129	Sncp1	small nuclear GTPase Cyt b box 01
17396512	1.88	0.0129	Lama5	laminin, alpha 5
17269775	-1.49	0.0133	Anxa8	annexin A8
17386274	1.4	0.0133	Ppm1l	protein phosphatase 1 (formerly 2C)-like
17205659	-2.18	0.0133	Serpina1	serpin (or cysteine) peptidase inhibitor, class F, member 1
17313313	1.43	0.0133	Ryb	retinoic A receptor beta
17475767	1.85	0.0133	Dyrk1b	dual-specificity tyrosine-tyrosine phosphorylation regulated kinase 1b
17466226	1.95	0.0133	Gm15543	predicted gene 15543
17521966	1.41	0.0133	Uqc1c1	ubiquitin-cytochrome c reductase core protein 1
17297275	-1.48	0.0133	Lnc11a	lincine non repeat containing 10A
17302148	-1.38	0.0133	Pim1	peptide tyrosine phosphatase-associated phosphatase
17302161	1.54	0.0133	Vwa8	von Willebrand factor A domain containing 8
17314496	1.73	0.0133	Su7	synaptotagmin VII
17504146	1.49	0.0133	Copg	coenzyme Q9 homolog (yeast)
17367279	-1.63	0.0134	Pab1c	phosphoproteinase 1A, cytosolic; domain-containing
17367280	-1.63	0.0134	Pab1b	myosin heavy chain polypeptide 1, cardiac muscle, beta
17481433	-1.47	0.0134	Edem1	ER deactivation enhancer, mannosidase alpha-like 1
17393936	1.48	0.0134	Rps20	RNA binding motif protein 20
17218110	1.59	0.0138	Rvg	retinoid X receptor gamma
17315624	-2.11	0.0138	Rbm24	R cell leukemia/lymphoma 24
17419811	1.6	0.014	Pim2	neuroblastoma suppressor of tumorigenesis 1
17506206	-1.64	0.014	Crisad2	cysteine rich secretory protein LOC2, domain containing 2
17318111	1.63	0.014	Acps2	acetyl-Coenzyme A acetyltransferase 2 (mitochondrial); 5-oxo[Coenzyme A thioester]
17444809	-1.92	0.014	Cdk2	cyclin-dependent kinase-like 2 (CDK2-related kinase)
17366259	1.6	0.014	Spr1a	short chain dehydrogenase/reductase family 36d, member 1
17366260	1.59	0.014	Ubr1b	ubiquitin cytochrome c reductase, complex III subunit X
17423008	1.44	0.014	Uba2	ubiquitin A-N2 residue; ribosomal protein fusion product 1
17541728	-1.38	0.014	Pfkfb	phosphofruktokinase, platelet
17292824	-2.18	0.014	Pfkfb	insulin-like growth factor-binding protein 6
17215305	-1.73	0.014	Irf5p	interferon epsilon 1
17315306	-1.73	0.014	Irf5b	interferon epsilon 2
17548354	-1.63	0.0141	Lip1p-ps1	LIP1 homolog, pseudogene 1
17333301	2.48	0.0144	Mycp1	Muscarinic GPCR, member 11
17525304	2.18	0.0144	Kozp1	potassium inwardly-rectifying channel, subfamily J, member 5
17365313	1.61	0.0144	Cat	cathepsin A
17525304	-1.48	0.0144	S113	S113, subunit of the oligosaccharyl transferase complex, homolog A (S. cerevisiae)
17254166	-1.93	0.0144	S112	schi122
17381285	-1.68	0.0144	Calret1	calcium release receptor-like
17387536	-1.84	0.0145	Amyp1	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein
17437127	-2.13	0.0146	Casp1	enkephalin convertase (caspase)
17514424	-1.5	0.0146	Casp1	enkephalin convertase (caspase)
17503976	2.01	0.0146	Isva1	myo-inositol 1-phosphatase A1
17218627	-1.87	0.0146	Lba	lipopolysaccharide binding protein
17410748	-1.59	0.0147	Pdm1	PDZ and LIM domain 5
17505452	1.41	0.0147	Om1c9	predicted pseudogene 10199 [Source: MGI Symbol:Acc:MG1:3646788]
17505452	1.38	0.0147	Wink4	WINK, lysine deficient protein kinase 4
17471932	-2.31	0.0147	B3gnt8	UDP-GlcNAc 6-epimerase beta 1, 3-N-acetylglucosaminyltransferase 9
17512337	-1.65	0.0147	Sic1a1	solute carrier family 50 (sugar transporter), member 1
17406975	-1.43	0.0147	Rn1	Ran small nuclear protein 1
17381778	-1.42	0.0147	Rn1	ribonuclease 1
17385034	-1.49	0.0147	Rn1	ribonuclease 1
17352687	-1.73	0.0147	Nyct	nyctin
17450176	1.43	0.0147	Srsf1	serine (or cysteine) peptidase inhibitor, class B, member 1b
17235001	1.42	0.0148	Poz2	prey (or Cdk2) phosphatase, subunit 2
17354589	1.45	0.0148	Sh3d19	SH3 domain protein D19
1729743	-1.73	0.0149	Tgfb3	transforming growth factor, beta 2
17352038	-1.87	0.0149	Fm1	Fragile X mental retardation domain 1
17440177	1.63	0.015	Pfco	protein kinase C, epsilon
17440130	1.8	0.015	Rb3	ribosomal protein L5
17212298	-1.63	0.015	Nfya8	NF-YA8 subunit
17287627	-1.83	0.015	Tgfb	transforming growth factor, beta induced
17485830	-1.55	0.015	Mfn	mitofusin
17262176	-1.14	0.015	Ncam1	neuronal cell adhesion molecule 1
17520124	1.41	0.015	Tmed1	transmembrane emp24 domain containing 1
17384260	-1.61	0.0151	Maf	myeloid factor
17294139	-2.46	0.0152	Vcan	versican
17458676	1.6	0.0153	Rat1	retinoid sulfatase (all trans) retinoid 13,14 reductase
17459324	-1.07	0.0154	Mst	membrane specific transmembrane 2
17463791	-2.85	0.0154	Emp1	epithelial membrane protein 1
17301070	-1.52	0.0154	Mfn2	mitochondrial related protein 2
17478197	1.49	0.0154	Atp1b-ps1	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B, pseudogene 1
17236811	-2.04	0.0154	Lum	lysozyme
17317211	-1.96	0.0154	Mcp1	monocyte chemoattractant protein 1
17349879	1.57	0.0154	061000C02Rk	RIKEN cDNA 061000C02 gene
17241055	-1.45	0.0154	Xap1	xap1, 1, C/EBP homolog (yeast)
17214160	1.43	0.0157	Pxd1	paraxymal nonkinesinogen dykinesin
17231899	-1.51	0.0158	Gm1216	predicted gene 1216 [Source: MGI Symbol:Acc:MG1:3649628]
17292792	1.44	0.0159	Nkap2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2
17494021	1.48	0.016	Hsp28	mitochondrial ribosomal protein S28
17296354	-1.37	0.016	Serpinc1b	serpin (or cysteine) peptidase inhibitor, class B, member 6b
17391511	-1.72	0.0161	Lmp	lysine HMG-CoA fusion partner
1728442	1.45	0.0161	Irf2	interferon related homeobox 2 (Drosophila)
17464404	1.59	0.0161	Mps3	mitochondrial ribosomal protein S30
17411547	1.52	0.0161	Chn7b	coiled-coil helix-coiled-coil helix domain containing 7
17465028	-1.06	0.0161	LOC101053786-Gm15922	component of Sp100-n; predicted gene 15922 [Source: MGI Symbol:Acc:MG1:3646071]
17218012	-1.43	0.0161	Uc-2	ucin 2
17222033	-1.94	0.0163	Bem1	BEN domain containing 6; predicted gene, 38471
17352967	1.89	0.0163	Hsp1	heat shock protein 1
17254347	1.38	0.0163	Icam	1 cell activation inhibitor, mitochondrial
17296993	2.08	0.0163	Pnc3	pancreatic domain containing 3
17296984	1.97	0.0163	Nfyc2	S-nucleotidase domain containing 2
17344849	-1.4	0.0163	Sir	scotin
17270382	1.6	0.0163	Hsp2c	histone deacetylase 5
17331932	2.13	0.0164	Cmlm8	CLKF-like MARVEL, transmembrane domain containing 8
17489838	1.94	0.0164	Uqc1c1	ubiquitin-cytochrome c reductase 2
17506273	1.82	0.0164	Cowd1	cytochrome c oxidase subunit IV isoform 1
17271740	4.6	0.0164	Acpt1	acyl-CoA oxidase 1
17241211	-1.05	0.0164	Csd24	coiled-coil domain containing 34
17497289	1.58	0.0164	Hsp28	mitochondrial ribosomal protein S28
17215480	-1.51	0.0164	170004117Rk2-Fam177a	RIKEN cDNA 170004117Rk2; Fam177a
17275516	-1.51	0.0164	170004117Rk2-Fam177a	RIKEN cDNA 170004117Rk2; Fam177a
17464367	-1.8	0.0165	Pfplp1	PFPLN interacting protein, binding protein 1 (liver beta 1)
17519191	-1.05	0.0166	Igf1	insulin like growth factor 1
17423030	2.81	0.0166	Pnk1	prepro-nekephalin
17266988	-1.39	0.0166	Mafk	myosin 1b
17382729	1.58	0.0166	Tmem141	transmembrane protein, 141
17434880	-1.47	0.0166	Abc2	ATP-binding cassette, sub-family B (MLN/AP), member 4
17317191	1.59	0.0166	Thes1	thapsigargin sensitivity member 6
17365088	-1.79	0.0167	Sct1	steroid Coenzyme A desaturase 1
17423463	1.45	0.0167	Ucp1	2,4-dienoyl CoA reductase 1, mitochondrial
17479099	-1.7	0.0167	Igf1r	insulin-like growth factor 1 receptor
17412123	-1.5	0.0168	Cdne	cyclin D
17245225	-1.42	0.0168	Spc1h2	solute carrier family 41, member 2
17243302	-1.37	0.0168	Rab1b	RAS related protein 1b
17434742	-2.24	0.017	Sema3b	sema domain, immunoglobulin domain (sig), short hair domain, secreted, (semaphorin) 3D
17433611	-1.39	0.017	Cep135	centrosomal protein 135
17341240	1.63	0.017	Cmt1p, Omt1	emithine decarboxylase anzyme 1; pseudogene; emithine decarboxylase anzyme 1
17511655	-1.5	0.0171	Snk2	SNK-related lipid transfer (SLT) domain containing 2
17334253	1.89	0.0172	Ect1	ectonucleoside diphosphate kinase 1
17336274	-1.47	0.0172	Rab2b	RAV6B; member RAS oncogene family
17431749	1.71	0.0172	Pnk1	PI3N induced putative kinase 1
17406394	1.82	0.0173	Cep2	cathepsin, EGF low-sulfate G-type receptor 2 (laminin homolog, Drosophila)
17362953	-1.76	0.0173	Fam177a	membrane-spanning 4-domain, subfamily A, member 7
17422220	-1.7	0.0174	Sab3a	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 3
17505417	-2.2	0.0174	Sncp1	synaptobrevin-associated protein 1F
17351611	1.48	0.0174	Pnf17a	PRP18P504-pre-mRNA processing factor 19 homolog (S. cerevisiae)
17367163	1.43	0.0175	Catm2	calcium channel, voltage-dependent, beta 2 subunit
17533474	-1.5	0.0175	Maoa	monoamine oxidase A
17225499	1.6	0.0175	Hsp27	heat shock protein 27
17539175	-1.8	0.0176	Fam111a	family with sequence similarity 111, member A
17358120	-1.76	0.0176	Mps1	mannosphosphate expressed gene 1
17496662	-1.05	0.0176	Rpl	ribosomal protein, large
17489129	-1.55	0.0176	Tmem14	transmembrane protein, 14
17524035	-1.63	0.0176	Rab1b	RAV6B; member RAS oncogene family
17520851	1.38	0.0176	Anapc1	anaphase promoting complex subunit 13
17463332	-1.67	0.0176	Fabp	fibroblast growth factor 8
17460311	-2.17	0.0177	48341C02Rk	RIKEN cDNA 48341C02 gene
17491286	-1.5	0.0178	Hsp22	2,5-diguanidylate synthetase-like 2
17348809	-1.43	0.0178	Hsp27	heat shock protein 27 (lymphoid)
17519333	1.84	0.0178	Hsp27	hepatitis A virus cellular receptor 2
17318349	1.92	0.0178	Ameyr_Sic3a2a	predicted gene 2331 [Source: MGI Symbol:Acc:MG1:3453078]
17296669	-1.77	0.0178	Lmo6	alpha-methylacyl-CoA racemase, solute carrier family 45, member 2
17316801	-1.52	0.0178	Tead	tyrosine kinase receptor 1
17334354	1.88	0.0178	Gm14589	predicted gene 14589 [Source: MGI Symbol:Acc:MG1:3454366]
17505094	1.68	0.0178	Gm14420	predicted gene 14420
17398549	1.6	0.0179	Cep2	2,5-diguanidylate synthetase-like 2
17441037	-1.83	0.0179	Sh3d19	SH3 domain protein D19
17518919	1.44	0.0179	Dcn	decorin
17278800	-1.42	0.0179	Dcn	decorin
17426597	-1.14	0.018	Hprt1	Hprt adenosine long noncoding RNA 1
17258859	-1.51	0.018	E000011005Rk_Zhb38	RIKEN cDNA E000011005Rk; zinc finger and BTB domain containing 38
17544011	-2.88	0.018	Cyrb1	cytochrome b reductase 1
17245474	1.52	0.018	Abp3a3	1-acylglycerol-3-phosphate O-acyltransferase 3
17475975	1.99	0.018		

17201994	1.37	0.018	Lsm4	LSM homolog, L6 small nuclear RNA associated (S. cerevisiae)
17438877	1.17	0.0181	Ahn2	actin-binding LIM protein 2
1738441	-1.68	0.0181	Ahn3p11a	Rho GTPase activating protein 11A
1740142	-4.8	0.0181	Spr1a	small proline-rich protein 1A
17252626	-1.76	0.0181	Ccz2	chaperone (C-C motif) chaperone 2
1728679	-1.61	0.0181	Gm2458	predicted gene_2458 [Source: MGI Symbol Acc: MGI:545365]
1749539	-1.59	0.0183	Igf3	immunoglobulin superfamily, member 8
17274394	-1.73	0.0183		
1736201	-1.79	0.0183	LOC10106072	nucleic body protein SP140-like
17424266	1.11	0.0183	Nks2	NKS homeobox 5
1747439	1.82	0.0183	Gm343	predicted pseudogene 843
1744784	-1.53	0.0183	Lbr2	LIM domain binding 2
1746308	2.46	0.0183	Kon2	potassium voltage-gated channel, Shal-related family, member 2
1729489	-1.44	0.0183	Aek	glycolipase K
1743349	1.89	0.0183	Rip27	rice finger protein 207
17252767	1.45	0.0183	Cluh	clustered mitochondria (clucLU1) homolog
1722826	1.46	0.0183	Cluh1	clucLU1-1
17252562	1.87	0.0183	Sema4d	sema domain, immunoglobulin domain (I), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D
1729779	1.49	0.0183	Annel1; Gm226; Gm274	annelin A1; predicted gene 226; predicted gene 274
1725311	-1.39	0.0186	Ls1	Ls1 homolog (S. cerevisiae)
1735111	-1.38	0.0186	Cep152	centrosomal protein 152
17264769	2.49	0.0186	Ecb3	ectopic B3
1728177	1.81	0.0186	Mps24	mitochondrial ribosomal protein S24
1731806	-1.91	0.0186	Arh3p3	ARF-ribosylation factor GTPase activating protein 3
1729193	1.38	0.0187	Ecc2	emil/Coenzyme A beta sensorase 2
1748363	1.82	0.0187	Sbk2	SBK-binding domain kinase family, member 2
1735114	-2.04	0.0187	Wsp2	WRTF inducible signaling pathway protein 2
17287471	-2.15	0.0187	Pom1e	protein phosphatase 1E (PPP2C-domain containing)
1733228	-3.62	0.0187	Lcp1	regulator of calcineurin 1
1748185	1.46	0.0187	Fark	limpocyte tyrosine protein 1
1735116	-1.34	0.0187	Cocap2	Fas-activated serine/threonine kinase
17441202	1.97	0.0187	Gcn11	GCN1 general control of amino-acid synthesis 1 like 1 (yeast)
1739638	-1.64	0.0187	Skl	SKL-like
17424113	2.58	0.0187	Lims3b	leucine rich repeat and Ig domain containing 3
1742516	1.44	0.0187	Hcd1	host cell factor C1
1740378	-2.07	0.0187	Glx	calcium S1
17527927	1.46	0.0187	Rpl1	ribosomal protein, large, P1
1730625	-1.41	0.0187	Proca	ribosomal type II domain containing 9A
17267193	1.53	0.0189	Gm1043; LOC10244175	predicted gene 1043 [Source: MGI Symbol Acc: MGI:364600]; predicted gene 1043 [Source: MGI Symbol Acc: MGI:364600]
1736358	1.4	0.0189	Fran	fraxin
1735262	-1.54	0.0189	Cd35	CD35 molecule, decay accelerating factor for complement
1740952	1.82	0.0189	Hm2	hemochromatosis type 2 (juvenile) (human homolog)
1721216	-1.51	0.0189	Rtt1	retinoblastoma 1 receptor type 1
1736476	1.76	0.0189	Gm1420	predicted gene 1420 [Source: MGI Symbol Acc: MGI:364951]
1748782	1.87	0.0191	Bksh1a	branched chain ketoadid dehydrogenase E1, alpha polypeptide
1736344	-1.48	0.0191	Sic2a7	sulfate carrier family 7 (cysteine amino acid transporter, y system), member 7
1733708	1.89	0.0191	Fgf16	fibroblast growth factor 16
1733190	-1.41	0.0191	Shbap	SH3-binding domain glutamic acid-rich protein like
1735256	-1.71	0.0192	Bip	biphenyl
1746436	1.59	0.0192	Naf1af	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4
1728112	2.12	0.0192	20101101Rk; Mlc24	Riken cDNA 20111101 gene; microRNA 261
1743786	-1.48	0.0193	Fam114a1	family with sequence similarity 114, member A1
1731490	1.46	0.0193	Shn3a	SH3 domain protein 3
1744134	1.46	0.0193	Shn3b	SH3 domain protein 3
1748616	1.85	0.0193	Vmn23	vitamin-dependent kinase 2
1742177	-1.62	0.0193	Ccbl1	chemokine receptor 1, type 1
1744934	-1.73	0.0193	Igf1bp	insulin-like growth factor binding protein 1
1725297	-1.55	0.0193	Etm2	enactment and cell motility 1
1725298	-1.55	0.0193	Hm3	hemochromatosis 3
17358138	-1.47	0.0193	Tmem2	transmembrane protein 2
1736974	1.32	0.0193	Pnam	muscle glycogen phosphorylase
1727193	1.85	0.0193	Sic2a39	sulfate carrier family 26, member 39
1742619	1.4	0.0194	Epr1a	erythropoietin receptor 1
1742620	1.39	0.0194	Epr1b	erythropoietin receptor 1
1743424	1.33	0.0194	Gm1330; Gm1279; Gm206	predicted gene 1330; chaperone (C-C motif) repeat 27b; predicted gene 206
1739141	1.34	0.0194	Poa	proton channel, calcium A, cytoplasmic, beta subunit, desensitizing
1727328	-2.8	0.0194	Serpin3a	serpin (or cysteine) peptidase inhibitor, clade A, member 3A
1742588	1.46	0.0194	Cg17	cytochrome c oxidase subunit VII
1742589	1.46	0.0194	Cg17	secreted frizzled-related protein 7
1736941	1.44	0.0195	Agp1	ATP synthase, h1a (mitochondrial F1 complex), subunit B1
1739366	-1.53	0.0196	Eh4	EH-domain containing 4
173503	-1.48	0.0196	Mitf	microphthalmia transcription factor
1725262	1.72	0.0197	Ctsp	cathepsin B
1734136	-1.79	0.0197	Gm394	predicted gene 394 [Source: MGI Symbol Acc: MGI:545616]
1733888	1.69	0.0197	Akna	AKNA family member, X-linked
1733359	-1.49	0.0201	Pla1a	phospholipase A1 member A
1749569	-4.88	0.0201	Cpm2	carboxypeptidase X 2 (M4 family)
1745451	-1.75	0.0201	Lac3	transferrin, acidic, core-2 containing protein 3
1718173	-1.46	0.0201	Dm3	DENNAMD3 domain containing 4A
1727461	-1.71	0.0203	Dab2	DAB2 interacting protein 3, zinc finger
1739815	-1.69	0.0203	Dab3	DAB2 interacting protein 3, zinc finger
1742790	1.14	0.0203	Tcb-1; Tcb2-1	T cell receptor beta, varying region 1; T cell receptor beta joining 2/1
1741766	1.45	0.0203	Ctcf	chromatin binding protein
17424631	2.72	0.0203	Rmp	RNA component of mitochondrial ribosome P
17513076	-1.8	0.0206	Mt1	mitochondrial inner membrane protein 1
1742797	-1.4	0.0206	Cenpe	centromere protein E
1729496	1.66	0.0206	Ret	ret
1741719	1.86	0.0206	Ret	ret proto-oncogene
1741434	-1.35	0.0206	Uaca	UACAP-1
1746076	1.81	0.0206	Seleno3p	LBP-glucose ceramide glucosyltransferase
1739609	-1.69	0.0206	Zc2hc1a	zinc finger, C2HC-type containing 1A
1731876	1.81	0.0206	Hm1	hemochromatosis type 1 (juvenile)
1727160	-1.51	0.0209	Hm1	hemochromatosis type 1 (juvenile)
1722857	-1.5	0.0209	1700250Rk	predicted gene 250 [Source: MGI Symbol Acc: MGI:364600]
1733878	1.81	0.0209	Gm1011; Gm1012	predicted gene 1011 [Source: MGI Symbol Acc: MGI:364600]; predicted gene 1012 [Source: MGI Symbol Acc: MGI:364600]
1730659	1.86	0.021	Rpl13a	ribosomal protein L13, subunit 3 [Source: MGI Symbol Acc: MGI:364600]
1724188	2.16	0.021	Gm1139	predicted gene 1139 [Source: MGI Symbol Acc: MGI:364600]
1745325	1.83	0.021	Smp2	SMF protein
1741489	1.52	0.021	Gm3287	predicted gene 3287 [Source: MGI Symbol Acc: MGI:364600]
1751722	1.71	0.0211	Ahn3p2	Rho GTPase activating protein 20
1744646	2.49	0.0211	Gm2519	predicted gene 2519 [Source: MGI Symbol Acc: MGI:364600]
1727418	-1.74	0.0213	Chd5	chromobox 5
1732237	-1.43	0.0214	Chd5	chromobox 5
1722813	-1.51	0.0214	Dock10	docking of cytochrome 10
1728439	-1.45	0.0215	Ighm	immunoglobulin heavy constant mu
1731233	-1.14	0.0215	Ahp2	ATPase family, AAA domain containing 2
175225	2.25	0.0215	Ahp2	ATPase family, AAA domain containing 2
1749249	1.78	0.0217	Srnac2	small nuclear RNA, U6A, U6B, U6C, ribosomal protein, large P2
1746907	1.92	0.0217	Srnac2	small nuclear RNA, U6A, U6B, U6C, ribosomal protein, large P2
1752916	-1.62	0.022	Igf3	insulin-like growth factor 3
1740706	1.66	0.022	Mmp2	mitochondrial ribosomal protein S21
1731810	-1.81	0.022	Acm1	actin-binding protein S21
1733229	2.93	0.022	mi-T2; mt-T2	mitochondrially encoded RNA 2 [Source: MGI Symbol Acc: MGI:102474]; mitochondrially encoded RNA 2 [Source: MGI Symbol Acc: MGI:102474]
1727329	-1.71	0.022	LOC101061172	predicted gene 1172 [Source: MGI Symbol Acc: MGI:364600]; predicted gene 1172 [Source: MGI Symbol Acc: MGI:364600]
1748490	-1.38	0.022	Fam177b	family with sequence similarity 175, member B
1731153	-1.47	0.022	Lil1a4	limpocyte tyrosine protein 4
1728343	1.3	0.022	Fln	low density lipoprotein receptor class A domain containing 4
1736992	-1.52	0.022	Dm3h3	DM3 domain containing 3
1734622	-1.65	0.022	Pch2b10	proteasome activator complex 10
1734100	1.41	0.022	Kat5	RNA deadenylase, domain 2
1747105	-1.31	0.022	Cap1a2c	chondroitin sulfate N-acetylglucosaminyltransferase 2
1733946	-1.19	0.022	Zfp948	zinc finger protein 948
1729416	1.27	0.022	Pf26	polymerase (RNA) I (DNA directed) polypeptide C7
1735284	-1.8	0.022	Ctf	cathepsin F
1735462	-3.38	0.0221	Wdr1	WD repeat domain protein 1
1750817	1.49	0.0221	Wdr1	ATPase, H+ transporting, lysosomal M subunit A6
1731670	-1.59	0.0221	Nkap11	NCK associated protein 1 like
1747083	2.18	0.0222	Ctcf	cell fusion factor 14
1728270	-3.11	0.0223	Dn2	deiodinase, iodothyronine, type II
1733862	-1.69	0.0223	Dn2	deiodinase, iodothyronine, type II
1737177	2.08	0.0226	Gm2543	predicted gene_2543 [Source: MGI Symbol Acc: MGI:545320]
1728811	-1.5	0.0226	Acb	actin-binding protein
1731004	1.19	0.0226	Maced	MACRO domain containing 1
1724010	-1.54	0.0227	Sclm	desmin sulfate epimerase
172927	1.45	0.0227	Sclm	sulfonamide dihydrogenase complex subunit II, beta subunit (Sclm)
1734836	-1.35	0.0227	Gm2038	predicted gene 2038 [Source: MGI Symbol Acc: MGI:364600]
1725170	-1.49	0.0227	Mn10	myosin, heavy polypeptide 10, non-muscle
174624	-1.49	0.0227	Tmem17b	transmembrane protein 17B
1733821	1.14	0.0228	Rpl6	ribosomal protein L6
1729167	-1.8	0.0228	Tuba2a	tubulin, beta 2A class IA
1730881	1.43	0.0228	Ndu1b; Yif3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13, (Yif) N-terminal domain containing 3
1734749	1.44	0.0228	Ctcf	cell fusion factor 14
1734944	-1.38	0.0229	Zfp959	zinc finger protein 959
1734149	-1.82	0.0229	G17H556E-5	DNA replication fork protein 5
1749432	1.81	0.023	Mcp2	mediator complex subunit 25
1751642	-1.74	0.023	Gm10036Rk	predicted gene 10036 [Source: MGI Symbol Acc: MGI:364600]
1725700	1.29	0.023	Lymf	LYM1
1722425	1.31	0.023	Meg	melanogelin
1721573	-1.61	0.023	Casp2	caspase 2
1729701	1.69	0.023	Gm280; Gm274	predicted gene 280; predicted gene 274
1729133	1.68	0.023	Gm280; Gm274	predicted gene 280; predicted gene 274
1726397	1.52	0.023	Gm399	predicted gene_399 [Source: MGI Symbol Acc: MGI:5453746]
1736197	1.37	0.023	Veib	vascular endothelial growth factor B
1734343	1.89	0.023	Fam175c	family with sequence similarity 175, member A
1754707	1.43	0.0232		
1743478	-1.38	0.0232	913000R2Rk	Riken cDNA 913000R2 gene
1743419	1.4	0.0232	23100400Rk	Riken cDNA 23100400 gene [Source: MGI Symbol Acc: MGI:1917534]
1745214	1.94	0.0232		
1735438	-1.49	0.0232	Hs1	hematopoietic cell specific LIM subunit 1
1727436	-1.76	0.0232	5730507; O1Rk	Riken cDNA 5730507/01 gene
172336	-1.85	0.0232	Pah1	procollagen-proline, 2-oxoglutarate 4-dioxygenase (prolyl 4-hydroxylase), alpha 1 polypeptide
1730741	1.69	0.0232	Rpl1	ribosomal protein S21
1734707	1.4	0.0233	Hsarp10	HEAT repeat containing 5B
1731028	1.48	0.0234	Mmp2	metalloproteinase domain containing 2
1747870	-1.84	0.0234	Galn3	gamma-aminobutyric acid (GABA) A receptor, subunit beta 3
1740224	-1.89	0.0234	Gm3595	predicted gene_3595 [Source: MGI Symbol Acc: MGI:545362]
1740297	-2.12	0.0234	18100311Rk	Riken cDNA 18100311 gene
1745814	-1.68	0.0234	Abcp	ATP-binding cassette, sub-family G (WHITE), member 2
1736995	-1.68	0.0234	Abcp	ATP-binding cassette, sub-family G (WHITE), member 2
1736705	-1.45	0.0234	Vin	vincristine
1741227	-1.38	0.0234	Mms22	MMS22-like, DNA repair protein
1731696	-1.43	0.0234	Tp51	tumor necrosis factor receptor 1 (human)
1734749	-1.68	0.0234	Rab31	RAB31, member RAS oncogene family
1741546	-3.16	0.0234	Nasa	naturalistic protein type A
1746645	1.37	0.0234	Ctcf	GCYP pyrophosphatase 1
1752167	1.86	0.0235	Pih1b1	pih1b1
1742711	1.38	0.0235	Gm3343	predicted gene_3343 [Source: MGI Symbol Acc: MGI:5453220]
1730787	1.27	0.0236	Eph2	epoxide hydrolase 2, cytoplasmic</

17303472	-1.39	0.6243	Gm9000	predicted gene 1800 (Source MGI Symbol Acc: MGI 3710580)
17303494	-1.8	0.6243	Gm9111	deficient of cytoplasmic 11
17286707	-1.51	0.6243	Gm2	glucosaminyl (N-acetyl) transferase 2, lysosomal enzyme
17461186	-1.76	0.6245	Gm19	glucoside alpha(1)transferase 2
17273701	-1.53	0.6245	AP-3F225	evolved AP-3F225
17273399	-1.62	0.6245	Abca10	ATP-binding cassette, sub-family A (ABC1), member 9
17257159	-1.33	0.6245	Cops10	cytoskeletal protein 17b
17255614	-2.02	0.6247	Fat11	folistatin-like 1
17307493	1.43	0.6248	Spry7	SPRY domain containing 7
17502596	1.29	0.6248	Acsl4	acyl-CoA synthetase long-chain family member 1
17307283	1.68	0.6248	Glna2	glut1 cell line deficient neurotrophic factor family receptor alpha 2
17403498	-1.8	0.6249	Mmr11	methylenetetrahydrofolate reductase 11
17308194	1.37	0.6249	Rhozb2	Rho-related BTB domain containing 2
17312396	1.41	0.6249	Ctcf	cytchrome-c-1
17353020	-1.73	0.6249	Mum11	melanoma associated antigen (mutase)-like 1
17420339	1.5	0.6249	Klf21	krich-like 21
17468824	-1.37	0.6249	Dpy193c	dpy-193-like 3 (C. elegans)
17502502	-1.49	0.6249	Rbm38	RNA binding motif protein 38
17380199	1.62	0.6249	Srsf30	small nuclear RNA, H/ACA box 30
17547980	-1.46	0.6249	Ohit175-pa1	olfactory receptor 175, pseudogene 1
17368785	1.48	0.6249	Rm2	ribosomal protein L28
17274120	2.2	0.6249	Rpl36-pa3	ribosomal protein L36, pseudogene 3 (Source MGI Symbol Acc: MGI 3642446)
17426891	-1.35	0.6249	Pag1	PC4 and SF R31 interacting protein 1
17459764	-1.48	0.6249	Rb9	retinoblastoma transport 89
17474547	1.98	0.625	Rm2	retention 2 (Z-band associated protein)
17363076	-1.4	0.625	Scm2c1	TCRMI domain containing
17460720	-1.5	0.625	Rnf115	ring finger protein 115
17475777	-1.6	0.6251	Tbr1	tblortran
17371765	-1.36	0.6251	Dync12	dyncin cytoplasmic, intermediate chain 2
17403084	-1.34	0.6251	Dync11	dyncin cytoplasmic 2 light intermediate chain 1
17277710	-1.32	0.6251	Rm2c	leuca inhibitor of metalloproteinase 2
17278139	-1.34	0.6251	Dact1	dapper homolog 1, antagonist of beta-catenin (senopus)
17321983	1.96	0.6251	Adcy6	adenylyl cyclase 6
17445104	-1.32	0.6251	Rm4	retention 4
17448352	1.42	0.6251	Hoxp	HMG homeobox
17433111	1.54	0.6251	Abcb8	ATP-binding cassette, sub-family B (MRN/AB), member 8
17318725	-1.48	0.6251	Sic28a2	solute carrier family 28, member 2
17382864	1.93	0.6252	Gm92	interactin O6 synthetase domain 2
17453369	-1.43	0.6252	Irs4	insulin 1 receptor associated kinase 3
17506175	1.46	0.6252	Rpl38	ribosomal protein L38
17506173	1.75	0.6252	Rpl38	ribosomal protein L38
17278228	-1.46	0.6252	Hlf1a	myosin-like deacetylase
17298609	-1.58	0.6252	Tbpa2	hypoxia inducible factor 1, alpha subunit
17421991	1.48	0.6252	Mip37	topoisomerase (DNA) II alpha
17546471	1.42	0.6252	Gm2010	mitochondrial ribosomal protein
17491704	1.7	0.6252	Ctcf	predicted gene, 2081 (Source MGI Symbol Acc: MGI 5434166)
17533827	2.13	0.6252	m-h	cytochrome c oxidase subunit 11b
17295895	-2.08	0.6252	Mtspa	mitochondrially encoded RNA helix (Source MGI Symbol Acc: MGI 102485)
17315669	-1.36	0.6252	App	microtubule-associated protein 4
17414830	-1.55	0.6252	Tir4	aromatase beta (A4) precursor protein
17384109	-1.77	0.6252	Par14	tbl-like receptor 4
17338113	-1.63	0.6252	Adap1	adhesion G protein-coupled receptor E1
17456884	-1.68	0.6252	Fam2c	fibroblast growth factor 2
17456883	-1.44	0.6252	Gat2	GTP binding protein 4
17344657	-2.07	0.6252	Gat23	growth arrest-specific 2 like 3
17295272	1.38	0.6252	Mex3	mitochondrial ribosomal protein S2
17505668	2.13	0.6252		
17505670	2.14	0.6252		
17425070	-1.37	0.6252	Dk4	DBF1 homolog (S. cerevisiae)
17432264	1.47	0.6252	Plahm2	pleckstrin homology domain containing, family M (with RUN domain) member 2
17313433	-1.61	0.6252	Dmcr	deacetylase M, necrotic
17388569	-1.33	0.6252	Chn1	chaperin 1
1745612	1.41	0.6252	Hsf1	HSA serine phosphatase 1
17454207	-1.41	0.6252	Ch1	chaperonin 1
17406469	-1.5	0.6252	Vcam1	vascular cell adhesion molecule 1
17445170	-1.63	0.6252	Gm981	predicted pseudogene 691 (Source MGI Symbol Acc: MGI 3644227)
17331774	-1.37	0.6251	Chb	chaperonin containing Tcp1, subunit B (beta)
17444	-1.45	0.6252	Cy1b1	cytochrome P450 family 1, subfamily 5, polypeptide 1
17511971	-1.45	0.6252	Scd5b	solute carrier family 25, member 5
17222196	-1.89	0.6253	Myl1	myosin, light polypeptide 1
17303966	-1.47	0.6253	Foxd3	forkhead box protein F3
17212296	1.75	0.6253	Scd5a	solute carrier family 5 (sodium/hydrogen exchanger), member 2
17411	1.41	0.6253	Gm1036	predicted gene 1036 (Source MGI Symbol Acc: MGI 5434286)
17417148	-1.33	0.6253	Kna2	potassium voltage-gated channel, shaker-related subfamily, member 2
17401539	1.32	0.6253	Kna2	potassium voltage-gated channel, shaker-related subfamily, member 2
17303118	1.62	0.6253	Tkl14	TkL1 domain family, member 4
17237208	-1.62	0.6253	Capz	cytoskeleton and glycine-rich protein 2
1724178	1.46	0.6253	Prpf8	pre-mRNA processing factor 8
1724179	2.16	0.6253	Scd10b	small nuclear RNA, C/D box 10
17303006	-1.53	0.6253	Tm3	topoisomerase 3, gamma
17263362	1.38	0.6253	Gat1	guanine nucleotide exchange factor 1
17342207	1.33	0.6253	Ume4c	DnaJ (Hsp40) homolog, subfamily C, member 4
17131606	1.45	0.6253	Mt4	mitochondrial ribosomal protein 4
17241228	1.38	0.6257	Eli4ap2	eukaryotic translation initiation factor 4E binding protein 2
17295900	-1.36	0.6259	Erc2	ERCC1-RAD51-interacting/CAP1 family member 2
17305911	-1.48	0.6259	Gm2059	predicted gene, 2059 (Source MGI Symbol Acc: MGI 5454286)
17305943	-1.46	0.6259	Gm2938	predicted gene, 2938 (Source MGI Symbol Acc: MGI 5455130)
17305941	-1.46	0.6259	Gm2938	predicted gene, 2938 (Source MGI Symbol Acc: MGI 5455130)
17305942	-1.41	0.6259	Gm2938	predicted gene, 2938 (Source MGI Symbol Acc: MGI 5455130)
17450291	1.84	0.6259	Ucp11	ubiquitin-cytochrome c redoxin, complex III subunit XI
17474035	1.48	0.6259	Napa	N-ethylmaleimide sensitive fusion protein attachment protein alpha
17424653	1.38	0.6257	Hsd17b9	hydroxymethyl-Coenzyme A dehydrogenase/ketoadipate Coenzyme A hydratase (infusional protein), beta subunit
17431938	1.35	0.6257	Igfb1	insulin-like growth factor binding protein 1
17424787	1.41	0.6257	Ch17	chaperonin 17
17465503	-1.38	0.6257	Yaf1	YAF1 element modulatory factor 1
17295212	-1.41	0.6271	Rok	polymerase (DNA directed), kappa
17454272	-1.52	0.6271	Rto	ribonucleo D repressor, gamma chain
17415076	-1.4	0.6272	Chn1b	chaperonin, central domain protein
17317038	1.46	0.6272	Prpf2	pre-mRNA processing factor 2
17426008	1.4	0.6274	Atad	arrest domain containing protein
17271701	1.7	0.6274	Sica1a1	solute carrier family 14, member 1
17456477	1.69	0.6274	Cy1b1	cytochrome P450 family 1, subfamily 5, polypeptide 1
17308959	-1.31	0.6274	Uap1b	ubiquitin specific peptidase 1b
17285884	-1.41	0.6274	Ch18	chaperonin 18
17416618	1.53	0.6275	Erc2c	enoyl Coenzyme A hydratase domain containing 2
17265384	1.52	0.6275	Gm1218	predicted gene 1218
17265316	-1.46	0.6275	Ucp12	UCP-glucose uncoupling protein 2
17265315	1.31	0.6275	Sarb1b	signal transducer and activator of transcription 28
17451540	1.68	0.6276	Naf10l	NADH dehydrogenase (ubiquinone)-beta subunit, 2
17274875	1.43	0.6276	Namp1	neurokinin phosphodiesterase
17276834	-1.73	0.6276	Tcf9	tetratricopeptide repeat domain 9
17313872	-1.49	0.6276	Sox2	sox2
17314462	1.95	0.6276	Gm544	predicted gene 544
17384297	1.37	0.6276	Rif	ribonucleoside transferase
17314011	1.98	0.6276	Pim3, Gm33049	protein tyrosine kinase 3, predicted gene 33049
17374195	1.31	0.6277	Egln1	egl-1 family hypoxia-inducible factor 1
17425701	-2.16	0.6277	Mcp396	methylenetetrahydrofolate reductase 396
17374036	1.87	0.6277	Gm2759	predicted gene, 2759 (Source MGI Symbol Acc: MGI 5455330)
17352952	1.78	0.6278	Ch14	chaperonin 14
17281198	-1.37	0.6278	Rdh11	retinol dehydrogenase 11
17465856	-1.82	0.6278	Pin	pinhead
17430911	1.64	0.6278	Gm911	GRE-like 1, mitochondrial
17471679	1.34	0.6278	Nasp	nitric oxide synthase interacting protein
17362113	1.36	0.6278	Erc1	enoyl-CoA hydratase/ketoadipate Coenzyme A hydratase (infusional protein), alpha subunit
17359027	-1.42	0.6278	2210013C12R6	RKEN cDNA 2210013C12R6
17342029	1.38	0.6278	Ndu10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10
17265832	-1.42	0.6278	Pin	interferon-induced protein with tetratricopeptide repeats 1
17211004	1.66	0.6279	Adh1e1	alcohol dehydrogenase, iron containing, 1
17434340	-1.51	0.6279	Fam10	fibroblast growth factor 10
17273073	1.44	0.628	Fam100	Fancos anemia core complex associated protein 100
1735040	1.62	0.6283	Ahrap20	Rho GTPase activating protein 26
17211048	-1.52	0.6283	Fabp7	FABP7, member RAS oncogene family
17478745	-1.44	0.6283	Atf10a	ATFase, class V, type 10A
17549168	-1.38	0.6283		
17531581	-1.45	0.6284	Tm2	tenomodulin
17301784	1.66	0.6284	Fam88b, Spac1	family with sequence similarity 88, member B; Spagena syndrome/rodentia autoantigen 1 homolog (human)
17514653	-1.5	0.6284	Gm1287	solute carrier family 26 (proton/amino acid symporter), member 4
17411135	1.58	0.6284	Gm1287	predicted gene 1287 (Source MGI Symbol Acc: MGI 3642138)
17392222	1.29	0.6284	Gm9603	predicted gene 9603
17265268	-1.56	0.6284	Cact16	chaperone (C-X-C motif) ligand 16
17481594	1.64	0.6284	Ohit17	olfactory receptor 173
17265223	1.53	0.6284	Chn9	obscure, cytoskeletal gelatinolin and fibroblast RhoGEF
17396444	-1.51	0.6284	Myc2	myelin basic protein expression factor 2, repressor
17314880	-1.31	0.6285	Pm1	perlecan (perlecanin-1), beta subunit, 2
17230296	-1.54	0.6285	Adas	adenylosuccinate synthetase, non muscle
17527533	1.92	0.6285	Ella	electron transferring flavoprotein, alpha polypeptide
17229497	-2.2	0.6285	Enp1	endonucleotide phosphatase/phosphatase 1
17455195	-1.77	0.6285	Arnt	aryl hydrocarbon receptor
1737952	-1.45	0.6285	Sh3bp1	SH3-binding domain protein and acid rich protein
17360462	-1.45	0.6285	Acsf5	acyl-CoA synthetase long-chain family member 5
17437803	1.38	0.6286	Nkap2	NELM binding protein 2
17319393	-1.42	0.6286	Mph	metaphase
17305597	-1.33	0.6286	Irf	interferon regulatory factor 9
17338124	1.33	0.6286	Mmp2	mitochondrial ribosomal protein L2
17416287	-1.47	0.6287	Lapm5	lysosomal-associated protein transmembrane 5
1724752	1.6	0.6288	Zfp1	zinc finger (CCCH type), RNA binding motif and serpin/thrombin rch 1
17224771	-1.73	0.6289	Scp3	serpin (or cysteine) peptidase inhibitor, class 5, member 2
17318432	-1.48	0.629	Mmr12	mycubulin related protein 12
17460730	-1.34	0.6291	Scf1	Scf1 alpha 1 subunit (S. cerevisiae)
17461901	-1.42	0.6292	Tir6	tbl-like receptor 6
17532400	1.49	0.6292	Fyco1, Gm17021	FYVE and coiled-coil domain containing 1, predicted gene 17021
17256927	1.57	0.6292	Hmnp1r1	high mobility group (AT-hook) related sequence 1
17293039	1.38	0.6296	Mmp2c	mitogen-activated protein kinase kinase 2
17268859	-1.49	0.6296	AB00082R:Gm1287	RKEN cDNA AB00082R12 gene, predicted gene 1287
17431650	2.84	0.6296	Platzp2	phosphatase A2, group V
17448865	-1.67	0.6296	Chrc	cytosine-rich hydropobic domain 2
17265263	1.37	0.6296	Mcp2	methylenetetrahydrofolate reductase 2 (beta)
17445885	-1.49	0.6296	Gm4887	predicted gene 4887
17456211	1.44	0.6296	LOC102811, Gm13777	6S5 acidic ribosomal protein P1-like, predicted gene 13777 (Source MGI Symbol Acc: MGI 3650336)
17271794	-1.53	0.6296	Gm616	G-protein coupled receptor 65
17271916	1.6	0.6296	Gm616	adenylosuccinate like domain containing 1
17461704	2.09	0.6296	Sic28a2c	solute carrier family 28 (proton/amino acid symporter), member 22
17427104	1.71	0.6298	Irfab	interferon alpha B
17453572	1.29	0.6298	Irf1	Irf3/irf1 dimer (irf3-2) related 1 (Irf3alpha)
17313822	1.72	0.6299	Peara	peroxisome proliferator activated receptor alpha
17303897	-1.97	0.63	Mz	metallothionein
17272556	-1.56	0.6304	Mcp7	matrix remodeling associated 7
17380009	1.52	0.6		

17328792	1.38	0.0316	Dnae2	DGeorge syndrome critical region gene 2
17328797	1.4	0.0316	Ntr1	nuclear receptor subfamily 1, group 1, member 3
17361056	1.47	0.0316	Nduv1	NADH dehydrogenase (ubiquinone) flavoprotein 1
17332625	1.53	0.0316	Olip	cardenolide mitochondrial matrix peptidase proteolytic subunit
17445330	-1.99	0.0316	Pf1121	predicted gene, 2112 [Source MGI Symbol Acc: MGI:545398]
17427773	1.53	0.0316	Pozr	polymerase (RNA) II (DNA directed) polypeptide E
1752832	-1.72	0.0316	BS0009010R6	BRD4 (BRD4) gene
17534846	1.47	0.0318	Tmem8	transmembrane protein 8 (five membrane-spanning domains)
17485226	-1.36	0.0318	Lap1	lymphocyte specific 1
17442129	-1.37	0.0319	P27	purinergic receptor P2X, ligand-gated ion channel, 7
17272719	-1.08	0.0319	Calb2	calretinin, type V, alpha 2
17525425	-2.04	0.0319	Arp7	ARFIP70 family, member 2
1746279	-1.58	0.032	Tlr2	toll-like receptor 2
17431234	-1.08	0.032	Cnat1	connector enhancer of kinase suppressor of Ras 1
17525338	-2.05	0.0321	Igk-V1 (Igh-V1) Igk-V5	immunoglobulin kappa chain variable 1 (V1); immunoglobulin kappa variable 1 (V1); immunoglobulin kappa chain variable 5 (V5) family
1747468	2.75	0.0321	Ltr4b	leucine rich repeat containing 4B
17505375	-1.43	0.0321	Gm14412	predicted gene, 14112 [Source MGI Symbol Acc: MGI:3652051]
17549588	-2.19	0.0322		
17549890	-2.19	0.0322		
17529595	1.53	0.0322	Gm0888	predicted gene, 2688 [Source MGI Symbol Acc: MGI:5471330]
17456339	-1.42	0.0323	Cpep1	cathepsin-like and PC-esterase domain containing 1
17529295	1.26	0.0323	Krt3	keratin-like 3
17482277	-1.4	0.0328	Cnab6	CCR4-NOT transcription complex, subunit 6
17490302	-1.49	0.0328	Gm14	golgi integral membrane protein, 4
17372515	-1.28	0.0328	Igaw	integrin alpha V
17306685	-1.42	0.0328	Dhh1	DHH1 domain containing 1
17529296	-1.32	0.033	Gm1768	predicted gene, 1168 [Source MGI Symbol Acc: MGI:3648258]
17228225	-1.78	0.0331	Nabp1	nucleic acid binding protein 1
17357981	-1.52	0.0331	Pf19e2	protein homolog 2 (Protophila)
17529395	1.84	0.0331	Gm1914	predicted gene, 914 [Source MGI Symbol Acc: MGI:3644422]
17494177	1.42	0.0332	Pf19v1	prostate tumor over expressed gene 1
17401533	-1.07	0.0332	Scd3p24	soluble carrier family 20 (mitochondrial carrier, phosphate carrier), member 24
17233930	-1.4	0.0334	Cnma3	catenin (cadherin associated protein), alpha 3
17213336	-1.4	0.0335	Bmpr2	bone morphogenetic protein receptor, type II (serine/threonine kinase)
17420255	-2.06	0.0335	Gnaw	guanine nucleotide activating protein
17404821	-2.21	0.0337	Cnma2	catenin (cadherin associated protein), alpha 2
17338324	-1.4	0.0337	Gm14890	predicted gene, 14890 [Source MGI Symbol Acc: MGI:3454667]
17541268	1.38	0.0337	Fat13	fibroblast growth factor 13
17311095	1.76	0.0337	Epn2	ectoparasiticide pyrophosphatase phosphodiesterase 2
17544892	-1.31	0.0337	LOC105429066, Gm14081	neurospiroxin-like, predicted gene, 14081 [Source MGI Symbol Acc: MGI:3705734]
17164222	-1.37	0.0337	Epn3	LDP-GlcNAc:beta-Gal beta-1,3-N-acetylglucosaminyltransferase 3
17361186	-1.44	0.0337	Emn3b3a	transmembrane protein 3/A
17545488	-1.87	0.0339	Kctd12b	potassium channel tetramerization domain containing 12b
17471155	1.38	0.034	Kmta1	potassium voltage-gated channel, shaker-related subfamily, member 1
17541407	1.38	0.034	Gm32695, Gm32692	predicted gene, 32692, predicted gene, 32695
17451195	1.5	0.034	Cyba6	crystallin, beta A4
17519844	-1.33	0.0342	Krbp	poly(ADP-ribose) polymerase 8
17374455	-1.86	0.0343	Spred1	sprouty protein with EVH1 domain 1, related sequence
17549227	-1.32	0.0344	Rm3	rRNA binding motif protein
17527266	1.29	0.0344	Krt7	keratin, cytoskeletal, protein 7
17346270	-1.78	0.0346	Gm3303	predicted gene, 3303 [Source MGI Symbol Acc: MGI:5452810]
17458411	-1.38	0.0346	Bmp2k	BMP2 kinase
17248342	-1.81	0.0346	Rpl2	ribosome production factor 2 homolog (S. cerevisiae)
17541787	-1.59	0.0346		
17529134	-1.54	0.0346	Dmap2	DnaJ (Hsp40) homolog, subfamily C, member 2
17231717	-1.57	0.0346	Fucy2	fucosylase, alpha-L-2, plasma
17270703	-1.52	0.0346	Cybb1	cytochrome b-561
17481884	-1.47	0.0346	Akap1	A kinase (PRKA) interacting protein 1
17511543	1.4	0.0346	Nab3b	Nab3-like cytochrome oxidase 3b, NADH dehydrogenase 3b, NADH dehydrogenase 3b, NADH dehydrogenase 3b, NADH dehydrogenase 3b
17529325	1.38	0.0349	Pf19g1	protein homolog 1 (Protophila)
17335932	1.32	0.035	Swi3	synaptoblem-like 3
17529326	1.3	0.035	Tak1	tak1, 3
1728865	-1.44	0.035	Smem15	small integral membrane protein 15
174842	-1.59	0.035	Efnb2	epithelial fibroblast growth factor receptor 2
17479736	-1.69	0.035	Irfar	interferon regulatory factor 4
17529457	1.41	0.0352	Rv2	rydodine receptor 2, cardiac
17401269	-1.57	0.0352	Shc3a1	shc class 3 domain containing, family D, member 1
17278410	-1.46	0.0353	Gsk3	GSK3 interacting protein
17529458	-2.12	0.0353		
1745544	1.35	0.0353	Rbp7	ubiquitin-cytochrome c nucleic acid binding protein
17288695	1.5	0.0353	Mir682, Rbp7a	miR-682, RBP7a
17501771	1.69	0.0354	Pf19a3	ribonuclease P (RNAse P)
17288621	1.49	0.0354	Pof2	polymerase (DNA directed), delta 2, regulatory subunit
17542994	-1.75	0.0356	Gdx3	glucosyl phosphatidylcholine transferase 3, X-linked
1742003	-1.75	0.0356	Pf19b1	protein homolog 1 (Protophila)
17302956	-1.61	0.0356	Gcd8	glycosyl phosphatidylcholine transferase 8, X-linked
17540953	-1.47	0.0356	Pf19c1	protein homolog 1 (Protophila)
17328449	1.33	0.0356	Ankhd2	ankyrin domain 2
1724301	1.62	0.0356	Nab3	Nab3-like cytochrome oxidase 3, NADH dehydrogenase 3, NADH dehydrogenase 3, NADH dehydrogenase 3, NADH dehydrogenase 3
1751904	-1.34	0.0357	Sh3	src homology 3 (SH3) domain
17316415	-1.35	0.0359	Akb1	serine/threonine kinase 3
17529330	1.65	0.0359	Hmepu1	homocysteine-inducible endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
17321351	1.29	0.0359	Pf19k1	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
1726108	1.6	0.0359	Sec31a	Sec31-like 1 (Sec31)
17351001	1.58	0.0361	Gm1924	predicted gene, 1924 [Source MGI Symbol Acc: MGI:3644422]
17350584	1.38	0.0361	Aclm1	aracenic 1 homolog 1 (Aclm1)
17541972	1.4	0.0361	Pf19d1	protein homolog 1 (Protophila)
17295877	-1.39	0.0361	Erbp1	erythrocyte band 3 protein, alpha 1
1731188	-1.67	0.0362	Onk	oncogene, protein tyrosine kinase
17361223	1.51	0.0362	Ahrk1	OTU domain containing with dual kinase specificity, serine/threonine kinase, beta 1
17541196	-1.26	0.0362	Pf19e1	protein homolog 1 (Protophila)
17459164	-1.42	0.0362	T1, Sen	tyrosine phosphatase, transmembrane, type 1
17456414	1.46	0.0363	Asp19	ankyrin repeat and SOCS box-containing 19
17545692	1.48	0.0363	8450000010R6	BRD4 (BRD4) gene
17545448	3.09	0.0363	Kcm2	potassium channel, subfamily V, member 2
17482955	-1.97	0.0363	Nucb2	nucleobindin 2
17519326	-1.47	0.0363	Anc3	ancient domain containing protein 3, X-linked
17235158	1.32	0.0363	Anc5	ancient domain containing protein 5, X-linked
1739708	-1.48	0.0364	Dhh1	DHH1 domain containing 1
1729104	-1.35	0.0365	Sst1	signal sequence receptor, alpha
1722390	-1.41	0.0365	Or2	odorant receptor 2
17474621	1.47	0.0367	Cim	chemokine receptor 1
17449558	-1.75	0.0367	Me703	microRNA 703
17305998	1.48	0.0367	170000010R6	RFX4 (RFX4) gene
1749595	-1.51	0.0367	ITfap	interleukin 13 binding protein
1744226	-1.45	0.0367	Marcks	myristoylated alanine rich protein kinase C substrate
17218070	-1.41	0.0368	Ubr4	UBR4 domain protein 4
17359766	-1.47	0.0368	Eaf3	eukaryotic translation elongation factor 1 alpha 2
1738878	-1.31	0.0368	Dhh2	dihydrodipicolinate synthase 2
1732610	-1.37	0.0368	Pf19f1	protein homolog 1 (Protophila)
1753584	-1.42	0.0368	Men	menin
17451390	-1.53	0.0368	Cnma1	catenin (cadherin associated protein), alpha 1
17280310	-1.43	0.0368	R2	ribosome production factor 2
17529697	1.48	0.0368	Conck1c	concentric nuclear pore complex 1C
1729207	-1.31	0.0368	Acn1	adaptor-related protein complex 3, beta 1 subunit
17537592	-1.88	0.037	Spc2	sushi-repeat-containing protein, X-linked 2
17514601	1.42	0.037	Gm1920	predicted gene, 1920 [Source MGI Symbol Acc: MGI:3644422]
17346973	-1.52	0.037	Fndc1	fibronectin type III domain containing 1
1751413	1.38	0.037	Ubr1	ubiquitin-protein ligase E3 complex subunit 1, X-linked
17532997	1.57	0.037	Mt-IV	mitochondrially encoded rRNA subunit (Source MGI Symbol Acc: MGI:102472)
1730446	-1.38	0.037	Apv1	adaptor protein, phosphotyrosine interaction, PH1 domain and leucine zipper containing 1
1724529	1.8	0.0371	Syca10	solute carrier family 20, member 10
1728671	1.91	0.0372	Garp2	G protein-coupled receptor 27
17413474	-1.65	0.0372	Rac2	ras-related cytoskeleton protein with basal motif
17359004	1.73	0.0372	Cyp2c39	cytochrome P450, family 2, subfamily C, polypeptide 39
17399102	1.38	0.0372	Pf19g2	DENRMAJ domain containing 4B
1742604	1.35	0.0373	Pf19h1	papillary renal cell carcinoma (translocation-associated)
17485824	-1.95	0.0373	Pf19i1	family with sequence similarity 180, member A
17541528	-1.55	0.0373	Igrr1	immunoglobulin superfamily, member 1
17424243	1.72	0.0373	A664131	expressed sequence A664131
1736079	-1.91	0.0373	Ftn1	beta-transferrin
1736203	-1.42	0.0373	Nap	nebulin-related anchoring protein
1729737	1.39	0.0373	Kmp2	potassium inwardly-rectifying channel, subfamily J, member 2
17221191	1.29	0.0373	Smad9	small molecule RNA, C/EBP beta 8'
17541967	1.59	0.0373	Gm1196a	predicted gene, 1196a [Source MGI Symbol Acc: MGI:3652041]
1748873	-1.39	0.0373	Upl1	ubiquitin-protein ligase E3 complex subunit 1
17545323	-1.75	0.0373	n-Rbc3	nuclear encoded RNA 3 (Source MGI Symbol Acc: MGI:4417137)
1728368	-1.49	0.0373	F3	serine palmitoyltransferase, long chain base subunit 2
1732827	1.28	0.0373	Vinc2c	vincristine-binding protein 2
17441404	1.74	0.0373	Sox2c	sox2-related VPS10 domain-containing receptor 2
1748048	1.36	0.0376	M3	malec enzyme 3, NADPH-dependent, mitochondrial
17229719	-1.52	0.0377	Egr4	eyes absent 4 homolog (Drosophila)
1744614	1.43	0.0377	Com	comin
17291381	1.62	0.0377	Ahrk1a1	alpha-hydroxy dehydrogenase family 5, subfamily A1
1730598	2.7	0.0377	Roup1	ribonuclease P RNA component H1
1730198	1.4	0.0377	Ar2	ADP-ribosylation factor 2
17529339	1.52	0.0378	Rab3a	RABA3, member RAS oncogene family
1753503	1.51	0.0379	Calb1	calretinin, type VI, alpha 6
17424988	1.97	0.0379	Mir153	microRNA 153
17343026	1.46	0.0379	Pof1	peptidyl(iso)lase (cyclophilin)-like 1
1729473	1.4	0.0379		
17391294	-2.51	0.0379	Gm3008	predicted gene, 3008 [Source MGI Symbol Acc: MGI:5455836]
17233708	1.34	0.0379	Ltr20	leucine rich repeat containing 20
1742613	-1.29	0.0379	Cst1	CAP domain-like cytoskeleton-associated protein 1 (yeast)
17284358	-1.8	0.038	Igh2	immunoglobulin heavy chain 2 (Source MGI Symbol Acc: MGI:4439803)
1734943	-1.59	0.0381	Gm13	guanine nucleotide binding protein-like 3 (nucleolar)
1754525	-1.96	0.0381	Hmnp1	heteronuclear nuclear phosphoprotein F
17481754	1.81	0.0381	Pf19k1	protein phosphatase 1K (PP2K) domain containing
1753274	-1.62	0.0381	Farp2	poly (ADP-ribose) polymerase family, member 8
17364462	1.32	0.0381	Rvaseh2c	ribonuclease HG, subunit C
17336190	1.91	0.0382	Nal1a	NADH dehydrogenase (ubiquinone) 1, alpha subcomplex, 7 (B14.5)
1752701	-1.53	0.0384	Dync1h3	dyncin cytoplasmic 1 beta intermediate chain 1
1729142	-1.55	0.0384	Samt5	sterile alpha motif domain containing 5
1726269	-2.03	0.0385	Nup2	nucleolar nucleolus 2 homolog (Drosophila)
17247999	1.43	0.0385	Gm22789	predicted gene, 22789 [Source MGI Symbol Acc: MGI:5452596]
17327915	1.4	0.0385	Ctbp1	cell death inducing 1935 target 1
1756625	1.47	0.0385	Gm262	predicted gene, 262 [Source MGI Symbol Acc: MGI:3644422]
1712932	1.44	0.0385	Snet1	sushi, nidogen and EGF-like domains 1
17510247	1.38	0.0385	Reckc	receptor-like homology 4 (Drosophila)
1756574	1.69	0.0385		
17490737	-1.9	0.0385	Ltn	leucine
17515641	-1.72	0.0385	Scn2a2	solute carrier family 7 (calcium amino acid transporter, $\gamma$ system), member 5
1750625	-1.54	0.0386	Ckap2	cytoskeleton associated protein 2
1726291	-1.53	0.0386	Gdk4	guanine nucleotide exchange factor 4 (putative)
17306411	-1.45	0.0386	Vsl3	vesiculoglycin 3 (Drosophila)
17404196	-1.78	0.0386	Anap	anaplastic lymphoma kinase 2
17525553	-1.31	0.0386	Cnca50	colicid-coiled-coil domain containing 50
1748981	1.6	0.0386	Nup210	nucleoporin 210
17237956	1.31	0.0386	Cnca2	colicid-coiled-coil domain containing 2
1735207	1.35	0.0387	Tmem223, Naf1	transmembrane protein 223, nuclear RNA export factor 1
1749696	1.33	0.0387	Rcp1	rRNA cytoplasmic viral oncogene 1
17529340	-1.59	0.0388	Gm3009	predicted gene, 3009 [Source MGI Symbol Acc: MGI:5455836]
1737541	-1.52	0.039	Pf19p1	protein homolog 1 (Protophila)
1745220	-1.07	0.039	Sf2	sushi repeat-containing protein 2
17353699	-1.85	0.039	Hbafg	heparin-binding EGF-like growth factor
1748999	-1.38	0.039	Irf1	interferon regulatory factor 1
1721185	-1.38	0.039	Ntr3	nuclear protein 3
1714622	1.48	0.039	Slic4a3	solute carrier family 4 (anion exchanger), member 3
17525290	2.12	0.039		
17365444	-1.36	0.0391	Pof2b	polycomb group ring finger 6
1724608	-1.57	0.0391	Cu2	Cu2/zinc finger
1724546	-1.57	0.0391	Zfp365	zinc finger protein 365
17369990	-1.48	0.0391	Gh3	G protein-coupled receptor kinase 6
17301297	1.4	0.0391	Maz2	methionine sulfide reductase E2
17358340	-1.84	0.0391	Gm27042	predicted gene, 27042 [Source MGI Symbol Acc: MGI:3644422]
1729621	-1.35	0.0391	Pf19q1	protein homolog 1 (Protophila)
17529118				

1759450	-1.35	0.0391			
1759451	-1.33	0.0391	Pma	prothymosin alpha	
1742536	-1.26	0.0391	Ptpn3; Gm38518	poly(ADP-ribose) tract binding protein 3; predicted gene 38518	
1741252	-1.23	0.0391	Ubr2	ubiquitin-conjugating enzyme E2J 1	
1752907	-1.22	0.0396	Mut1	microchordin tumor suppressor 1	
1741700	-1.22	0.0396	Trab2	Trab2 domain containing 2B	
1727201	-1.20	0.0396	Gm1170	predicted gene 1170	
1741971	-1.43	0.0396	Trab3	tripartite motif-containing 63	
1749236	-1.41	0.0398	Mut2	MLL2 methyl arrest defect-like 1	
1746075	-1.22	0.0398	Emn2	elmin microtubule motor 2	
1734721	-1.27	0.0398	Sfrn	strifin, catenin binding protein	
1750399	-1.26	0.0398	Nrcn5; Gm4192	neutral cholesteryl ester hydrolase 1; predicted gene 42192	
1746160	-1.22	0.0398	Ptpn3	pentapeptide repeat domain 3	
1732446	-1.38	0.0398	Rps4	ribosomal protein rps4	
1731123	-1.18	0.0398	Rimp2	regulating synaptic membrane exocytosis 2	
1730544	-1.24	0.0398	Fim1	fat storage-induced transmembrane protein 1	
1723174	-1.27	0.0398	Cd3e	CD3 epsilon chain, T cell receptor	
1722842	-1.35	0.0399	Pre15a	Chp1300-interacting factor, with Gln149/Asp148 cytoskeletal domain 2	
1731643	-1.56	0.04	Nrc3	phosphoprotein enriched in astrocytes 15A	
1745428	-1.27	0.04	LOC10039127; Gm776	zinc finger protein 330 pseudogene; predicted gene 776 [Source: MGI] Symbol Acc: MGI:364549	
1742348	-1.26	0.04	Tram24b	transmembrane protein 24B	
1738249	-1.33	0.04	Fpn	ferroxidase	
1725719	-1.23	0.04	Mpi10	mitochondrial ribosomal protein L10	
1722071	-1.36	0.0401	Fnt1	fibronectin 1	
1739720	-1.39	0.0401	Emn3	emodinase 3	
1738586	-1.73	0.0401	Aoa4	acyl-CoA oxidase 4	
1732476	-1.43	0.0403	Smcrt1	single-pass membrane protein with coiled-coil domain 1	
1725887	-2.2	0.0403	Topc	tin-cup	
1742494	-1.34	0.0403	Dock7	dedicator of cytokinesis 7	
1727134	-1.63	0.0403	Aoc2	acyl-CoA oxidase 2	
1715275	-1.25	0.0403	Gm16116	predicted gene 16116	
1744326	-1.6	0.0403	Aoa3	acyl-Coenzyme A oxidase beta	
1733470	-1.26	0.0403	Bmp1	BCL2/adrenovirus E1B interacting protein 1	
1737604	-1.28	0.0403	Pik3	protein kinase inhibitor gamma	
1746199	-1.33	0.0404	Mps3	mitochondrial ribosomal protein S33	
1739682	-1.29	0.0404	Tspan	TGCD-inducible poly(ADP-ribose) polymerase	
1745001	-1.38	0.0404	Lck12	collagen type 1 alpha 2	
1734917	-1.42	0.0405	Eras1	endothelial PAS domain protein 1	
1733226	-1.66	0.0405	Rum1	rum1 related transcription factor 1	
1747440	-1.44	0.0406	Snc4	size scale-related homeobox 5	
1735011	-1.38	0.0407	Ndd1	Nedd4 family interacting protein 1	
1735199	-1.31	0.0407	Cytp44	cytochrome P450 family 3, subfamily A, polypeptide 44	
1742781	-1.39	0.0407	Caf2	carbene palmitoyltransferase 2	
1731993	-1.47	0.0408	Raf1	ras- and raf-1 inducible 1	
1739727	-1.46	0.0409	170002070Rk	predicted gene 170002070	
1736474	-1.55	0.0409	Palm1	palmitoyl-CoA synthase 1	
1722544	-1.98	0.0409	Spat1	short hairpin transcript 1	
1745074	-1.48	0.0409	Atp5k	ATP synthase, H+-transporting, mitochondrial F1FO complex, subunit E	
1728429	-1.31	0.0409	Aryeh	aryeh repeat domain 8	
1734423	-1.44	0.0409	Ech3	enoyl-Coenzyme A hydratase domain containing 3	
1735677	-1.24	0.041	Stamp1	STAM1 binding protein like 1	
1742138	-1.31	0.041	Gm11818	predicted gene 11818	
1731481	-1.68	0.041	Gm8973	predicted gene 8973 [Source: MGI] Symbol Acc: MGI:364834	
1745886	-1.56	0.0411	Gsk3a	glycogen synthase kinase 3 alpha	
1745075	-1.3	0.0412	Poa18	protocadherin 18	
1741616	-1.61	0.0413	Cbat	complement component 3a receptor 1	
1737822	-1.75	0.0415	Gm13458	predicted gene 13458 [Source: MGI] Symbol Acc: MGI:3651388	
1721969	-1.53	0.0415	Pcp1b	pericentriolar organizer factor 1b	
1741922	-1.37	0.0415	Rpl19a	ribosomal protein L19	
1740668	-1.33	0.0415	Ccd14a	CCD14 cell division cycle 14A	
1739496	-1.22	0.0415	Taf4a	TAF4A RNA polymerase II, TAF4A box binding protein (TAF4A-associated factor)	
1728446	-1.49	0.0415	Chnrb1	cholinergic receptor, nicotinic, beta polypeptide 1 (reuside)	
1731971	-1.17	0.0416	Hmnp1	heteronuclear nuclear ribonucleoprotein F	
1731148	-1.63	0.0416	Cmst1	casein kinase II substrate 1	
1728702	-1.79	0.0415	Raf90	RAF90 (homolog of S. cerevisiae)	
1742193	-1.59	0.0416	Gm12748	predicted gene 12748 [Source: MGI] Symbol Acc: MGI:3651353	
1718216	-1.46	0.0416	Dhxd8	dihydrodipicolinate dehydrogenase	
1731862	-1.14	0.0417	Mbp	Mdm2, transformed 333 onco protein binding protein	
1731861	-1.14	0.0417	Mbp	IS11 domain factor homolog (S. cerevisiae)	
1749622	-1.48	0.0418	Soc3a	small nuclear RNA, C/D box 35A	
1726236	-1.28	0.0418	Scp2	soluble carrier family 2 (facilitated glucose transporter) member 4	
1729093	-2.1	0.0419	Hnf1b	hypoxanthine-activated cyclic nucleotide-gated K+ 1	
1726209	-1.58	0.0419	Egfl	EGF-like domain containing protein, homolog (S. cerevisiae)	
1730919	-1.43	0.0419	Npr1	endothelin receptor type A	
1723140	-1.32	0.042	Nanf	neuron derived neurotrophic factor	
1746174	-1.33	0.042	Cat1	catelomere 1	
1735432	-1.22	0.042	Ahd17b	ahd domain containing 17B	
1745494	-1.4	0.042	Gm14107	predicted gene 14107	
1747327	-1.38	0.042	231001651Rk	predicted gene 231001651	
1742071	-1.55	0.042	Tu17	RKEN_CDNA_231001651 gene	
1746078	-1.59	0.0421	Pcam	tubulin tyrosine lyase-like family, member 7	
1742533	-1.67	0.0421	Lgpl4	phosphatidylinositol-3-kinase class II assembly protein	
1742142	-1.54	0.0421	Rpl17a	erythrocyte membrane protein band 4.1 like 4b	
1728618	-1.74	0.0421	Rpl17b	ribosomal protein L17	
1739608	-1.6	0.0423	Pip12b	phosphatidylinositol 3-kinase related protein	
1744363	-1.25	0.0423	Lcc24	protein phosphatase 1, regulatory subunit 26	
1729078	-1.91	0.0424	Gm141	TCC22 domain family, member 4	
1721874	-1.71	0.0424	Gm141	predicted gene 6416	
1745475	-1.34	0.0424	Soc4	sodium channel, voltage-gated, type IV, alpha	
1749012	-1.29	0.0424	Nr12	nuclear receptor subfamily 1, group 11, member 2	
1726107	-1.32	0.0424	Ahr	aryl hydrocarbon receptor	
1745186	-1.4	0.0427	Hsp8b	heat shock protein 8	
1745185	-1.4	0.0427	Hsp8a	heat shock protein 8	
1747508	-1.41	0.0429	Ebn1	frequently mutated in advanced T cell lymphomas	
1737389	-1.31	0.0429	Magp1	erythrocyte membrane protein band 4.1 like 4b	
1726066	-1.29	0.0429	Com1d3	casein kinase 1, gamma 3	
1746893	-1.61	0.0429	Isp2	K1 motif and Sec7 domain 1	
1748118	-1.56	0.043	Pip5	phosphatidylinositol 3-kinase	
1735879	-1.31	0.043	Pip2	phosphatidylinositol 3-kinase	
1748464	-1.57	0.0431	Scn1b	sodium channel, voltage-gated, type 1, beta	
1723786	-1.33	0.0431	17000640Rk	RKEN_CDNA_17000640 gene	
1728027	-1.4	0.0431	Dlx2	Dlx2 (homeobox 2) (Drosophila)	
1731192	-1.67	0.0431	Gm110	ribosomal protein L10	
1731991	-1.53	0.0431	Nba2	neurobasin-like 2	
1721967	-1.26	0.0431	Gm1048	predicted gene 1048 [Source: MGI] Symbol Acc: MGI:365025	
1731192	-1.67	0.0431	Gm110	ribosomal protein L10	
1725441	-1.33	0.0432	Lig2	lethal giant larvae homolog 2 (Drosophila)	
1741108	-1.27	0.0432	Mbn1	mesoderm inducer 1; response 1 metallo domain protein	
1745507	-1.32	0.0432	Hsp1	heat shock 100kDa/110kDa protein	
1731808	-1.58	0.0433	Dap	death-associated protein	
1731997	-1.52	0.0433	Tram10c	transmembrane protein 10AC	
1726185	-1.33	0.0433	Nap1	nuclear spoke regulatory protein 1	
1743311	-1.3	0.0433	Ankrd1	ankyrin domain containing 1	
1743729	-1.36	0.0433	Slm2	stromal interaction molecule 2	
1733080	-1.34	0.0433	Rnr123	ring finger protein 123	
1722958	-1.54	0.0437	Fat13	Fs receptor, beta, type II, gamma polypeptide	
1740000	-1.75	0.0437	RN24b	expressed sequence 240016	
1731641	-1.28	0.0437	Fat2	enhancer of achromia homolog 2 (Drosophila)	
1739838	-1.44	0.0437	4921511C10Rk	RKEN_CDNA_4921511C10 gene	
1726701	-1.31	0.0439	Scp1p	serine carboxypeptidase 1	
1736144	-1.63	0.044	Dlx3	dihydrodipicolinate dehydrogenase 3	
1724322	-1.32	0.0441	Hmrb1	translocase of inner mitochondrial membrane 13	
1740791	-1.34	0.0441	Mbn2	mitogen-activated protein kinase kinase 7	
1728341	-1.41	0.0442	Poz2	proteasome subunit 2	
1733014	-1.6	0.0443	Nr1b4	NADH dehydrogenase (ubiquinone) beta subcomplex 4	
1749228	-1.31	0.0444	Srsf	serp-activated RNA splicing	
1748889	-2.15	0.0444	Emr2	erythrocyte membrane protein band 4.1 like 4b	
1746877	-1.39	0.0445	Emr2	erythrocyte membrane protein band 4.1 like 4b	
17511404	-1.4	0.0446	Dnaad	dnaad	
1729713	-1.31	0.0446	Arl4	DnaJ (Hsp40) homolog, subfamily A, member 4	
1749603	-1.36	0.045	Gsk3b	ADP-ribosylation factor 4	
1748334	-1.35	0.045	Gsk3d	general transcription factor III C 1	
1749371	-1.37	0.045	Gm1	glycerophosphoester phosphohydrolase domain containing 5	
1747111	-1.38	0.045	Gm21319	predicted gene 21319	
1736683	-1.65	0.0452	Wsb1	WD repeat and SOCS box-containing 1	
1722840	-1.56	0.0452	App13c3	APP type 13C3	
1739812	-1.55	0.0453	Sto2ab	ST02 calcium binding protein A0 (calyculin)	
1741362	-1.47	0.0453	Fstcd4	FSTCD4 binding protein 4	
1752448	-1.42	0.0453	Cac37	cell division cycle 37	
1727174	-1.38	0.0453	Mbp	membrane protein, palmitoylated (MMP5L p05 subfamily member 5)	
1747127	-1.57	0.0453	Csp	CSP antigen	
1734124	-1.48	0.0453	111003812Rk	RKEN_CDNA_111003812 gene [Source: MGI] Symbol Acc: MGI:1916013	
1748227	-1.35	0.0453	Lig1	ligase, homodimeric	
1728974	-1.59	0.0453	Pik2	phosphoinositide 3-kinase	
1728397	-1.41	0.0453	Gm194	predicted gene 2674	
1740190	-1.28	0.0456	Npr1	neurokinin 5	
1748375	-1.54	0.0456	Gm2347	predicted gene 2347 [Source: MGI] Symbol Acc: MGI:3452118	
1737398	-2.22	0.0457	Npr1	non-actin-binding repeat containing 2	
1733262	-1.38	0.0457	Zfp53	zinc finger protein 523	
1721284	-1.58	0.0458	190019210Rk	RKEN_CDNA_190019210 gene	
1730113	-1.4	0.0458	Gsk3	gsk3 junction protein, alpha 3	
1745690	-1.41	0.0458	Evic; Gm42149	ectopic viral integration site 5; predicted gene 42149	
1739299	-1.33	0.0458	Agst1	acyl-CoA synthetase short-chain family member 1	
1736363	-1.34	0.0459	Pum3	pumilio RNA-binding family member 3	
1749585	-1.64	0.046	Bv13-34	immunoglobulin kappa chain variable 13-34	
1723294	-1.4	0.046	Nap1	nuclear undecylenoyl pyrophosphatase 1, homolog (S. cerevisiae)	
1729588	-1.27	0.0461	Rnq2	RNA binding motif protein 24	
1741711	-1.45	0.0461	Nba1b3	NADH dehydrogenase (ubiquinone) 1, alpha subcomplex, 3	
1744604	-1.4	0.0463	Impa2	impact, DWD domain protein	
1747431	-1.78	0.0463	Nrip2	NLK homolog, pyrin domain containing 5A	
1749205	-1.62	0.0465	Srsf17	soluble carrier family 6 (facilitated glucose transporter), member 17	
1747329	-1.47	0.0465	473247101Rk	RKEN_CDNA_473247101 gene	
1746284	-1.42	0.0465	Cdn	catelomere	
1731673	-1.3	0.0467	Ank	progressive ankylosis	
1737608	-1.69	0.0468	111004220Rk	RKEN_CDNA_111004220 gene	
1750766	-1.29	0.0468	Gsk3	CD47 antigen (Rhesus antigen, fibroin-associated signal transducer)	
1750983	-1.28	0.0468	Fam148a	family with sequence similarity 148, member A	
1750257	-1.47	0.0468	Fam148b	FAM148B histone family, member V	
1741295	-1.45	0.0468	Bach2	BTF and CNC homology 2	
1749498	-1.39	0.0468	Cnbp	cytochrome c oxidase assembly protein 19	
1744789	-1.31	0.0469	Nsp14	Nsp14 nuclear protein	
1721241	-1.68	0.0469	Col3a1	collagen, type III, alpha 1	
1753078	-1.8	0.0471	Immed4	transmembrane protein 48a	
1750300	-1.39	0.0471	Hock2	hook homolog 2 (Drosophila)	
1731960	-1.22	0.0471	Bck1	BCK1, degenerate of histidine, homolog (S. cerevisiae)	
1736343	-1.4	0.0471	Nr1	nitrogen fixation gene 1 (S. cerevisiae)	
1739593	-1.53	0.0471	Tykc3	TYKC3 (homolog of S. cerevisiae)	
1750247	-1.4	0.0473	Tykc3	tyrosine kinase-related transmembrane protein 3	
1748801	-1.39	0.0474	231004020Rk	RKEN_CDNA_231004020 gene	
1738174	-1.28	0.0474	Pme1	peromeioma oncogene factor 6	
1739522	-1.53	0.0474	Egfr	ErbB tyrosine kinase 1 (E. coli)	
1721428	-1.67	0.0474	Cytp2a1	cytochrome P450 family 20, subfamily A, polypeptide 1	
1735839	-1.27	0.0474	Cytp2a1c	DnaJ (Hsp40) homolog, subfamily C, member 18	
1750444	-1.24	0.0475	Cem1	CKLF-like MARVEL transmembrane domain containing 3	
1749793	-1.44	0.0475	Srsf3	serp	
1751046	-1.44	0.0475	Srsf3	ATP-binding cassette, sub-family E (CABF), member 1	
1738900	-1.43	0.0475	Hmnc15	DnaJ (Hsp40) homolog, subfamily D, member 15	
1720779	-1.39	0.0477	Zfp346	zinc finger protein 346	
1739112	-1.23	0.048	Neah	non-SMC condensin I complex, subunit H	
1744509	-1.35				

17324332	-1.54	0.0482	Fetub	fetub beta
17326180	-1.51	0.0482	Mifd1	major facilitator superfamily domain containing 1
17445860	-1.72	0.0485	Nspoid	N-acyl phosphatidylethanolamine phospholipase D
17465300	3.49	0.0485	Rsv1	RNA V1 small cytoplasmic rib-associated
17363476	-2.15	0.0485	Acadmed	ADAMTS-like 2
17457913	1.8	0.0486	Clon1	chloride channel voltage-sensitive 1
17456969	-1.51	0.0486	Gm2997	predicted gene 2997; component of Sp100-m
17334495	1.28	0.0489	Nme3	NME/NM23 nucleoside diphosphate kinase 3; mitochondrial ribosomal protein S34
17344126	-2.47	0.0489	Hspa1b, Hspa1a	heat shock protein 1b; heat shock protein 1A
17453189	-1.47	0.049	Rps115	RPS15e, family 11, member B
17505325	-1.9	0.049	Hrad	HRA serine peptidase 4
17481723	-1.35	0.0491	Srsf93	small nuclear RNA HRA tau 23
17242840	-1.36	0.0491	Mcm9	mitochondrion maintenance complex component 9
17428599	-1.28	0.0491	Nasp	nuclear autoantigenic sperm protein (histone-binding)
17446441	1.27	0.0492	Hsdha	hydroxyl-Coenzyme A dehydrogenase ketoadipyl-Coenzyme A hydratase (bifunctional protein), alpha subunit
17347353	-1.53	0.0493	Gm548	eukaryotic translation elongation factor 1 alpha 1 pseudogene
17262925	-1.48	0.0493	Tsp1	TSP1 interacting protein 1
17392396	1.48	0.0494	Barf2oc	barrier to autointegration factor 2, opposite strand
17228991	1.63	0.0494	At12a2	AT12ase, Na(+)-transporting, alpha 2, polypeptide
17423463	1.54	0.0496	Syng2	synapse defective 1, Rho G (Rho, homology 2, G-proteins)
17363948	1.38	0.0496	Scl29a2b	solute carrier family 29, member 2b
17329223	-2.08	0.0496	Hst1	hairy and enhancer of split 1 (Drosophila)
17549822	-1.39	0.0496		
17277697	1.29	0.0496	Ack1	gpr1 domain containing kinase 1
17491414	1.39	0.0496	Magn1p	mitogen-activated protein kinase 1 interacting protein 1
17488172	1.28	0.0497	Dauk	dibutyryl adenosine kinase
17539126	-1.5	0.0498	Rpl6ck	ribosomal protein S6 kinase polypeptide 3
17283220	-1.36	0.0499	231005BD17Rk	RKEN cDNA 231005BD17 gene [Source: MGI Symbol; Acc: MGI:1922844]