

TMT cortex all proteins

Gene	TMT_CX				TMT_WT				normalized protein expression												LogFC over WT		p-value / WT		adjusted p-value / WT	
	GeneName	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC	LogFC
061000928QBR3W2	2.55	-0.8	-0.06	0.94	-1.55	-0.86	-0.45	-0.88	-1.65	1.4	-0.36	0.18	-1.23	-0.75	-0.27	-0.09	-1.1225	-0.295	-0.7725	0.164084	0.750644	0.328114	0.999971		0.856672	
0610010K1D2887R	-1.05	1.85	0.28	1.08	2.47	1.24	-0.09	0.95	1.52	-0.15	0.24	1.1	2.61	1.21	1.3	0.97	0.6025	0.1335	0.9825	0.420356	0.836167	0.159477	0.999971		0.799448	
0610012G4AD0Y8YR	-0.83	-2.86	-1.05	-0.63	-3.21	-2.2	-1.3	-0.62	-3.97	-1.57	-0.55	-1.11	-4.16	-2.2	-0.46	-0.2	-0.49	-0.445	-0.4125	0.428883	0.594268	0.662453	0.999971		0.936148	
111005951QK03D9	2.55	2.95	3.36	5.02	2.74	3.66	3.83	4.48	2.95	3.66	2.65	3.67	2.37	2.56	2.46	-0.35	-0.6375	-1.4575	0.680042	0.238347	0.953133	0.999971		0.710102		
111006529V5GX1T	5.14	0.56	0.97	1.14	0.14	1.51	1.25	0.61	0.96	3.43	0.77	0.99	0.58	0.73	0.97	1.05	-1.075	-0.415	-1.41	0.295376	0.71061	0.188364	0.999971		0.809025	
15000091A0A1W2P6	-2.17	-2.24	-1.78	-1.82	-1.8	-2.38	-1.48	-1.66	-1.98	-3.37	-1.16	-1	-1.43	-3.04	-2.14	-0.7225	0.125	-0.2075	0.502498	0.808478	0.552571	0.999971		0.913595		
160000431Q8VUW8R	0.89	1.72	-0.76	-1.16	1.2	1.42	-0.14	-0.86	0.98	1.02	-0.39	-0.83	0.41	1.65	-0.52	-0.07	0.34	0.13	0.5525	0.644493	0.852209	0.456505	0.999971		0.887217	
17000255Q8B027R	-0.52	-1.01	-0.47	-0.84	-1.01	-0.47	-0.84	-1.01	-0.47	-0.84	-1.01	-0.47	-0.84	-1.01	-0.47	-0.84	-1.01	-0.47	0.02	0.555655	0.828322	0.375382	0.999971		0.816725	
17100017H7X809R	-0.23	-0.23	0	0.16	0.04	-0.11	-0.42	-0.69	-0.06	-0.44	-0.00	0.32	0.35	0.16	0.08	0.64	0.125	0.05	0.585	0.646839	0.945997	0.920192	0.999971		0.676744	
2210016F1G3XU8X	-0.2	1.01	0.61	0.37	0.9	1.02	0.27	0.45	0.69	-0.29	-0.2	0.2	0.03	0.88	0.44	0.19	0.1215	-0.3475	-0.0625	0.503902	0.315563	0.843933	0.999971		0.9759814	
23100610B8H166R	-0.92	-0.87	-1.03	-0.82	-1.09	-0.96	-0.5	-0.63	-1.25	-0.94	-1.28	-1.04	-1.81	-0.79	-1.48	-1.65	-0.115	-0.2175	-0.5225	0.572427	0.231181	0.066655	0.999971		0.733937	
24100027Q3T180R	-0.22	0.94	0.61	0.08	1.03	1.04	0.01	0.56	1.05	0.66	0.2	0.7	1.21	1.34	1.04	1.14	0.3075	0.3	0.83	0.398662	0.355646	0.015837	0.999971		0.613095	
241000481Q5CVU14	0.34	1.4	2.25	3.99	1.89	2.16	3.66	1.83	2.39	1.57	1.7	1.61	0.8	0.36	1.16	1.5	-0.24	-0.355	-1.6975	0.418426	0.105394	0.021207	0.999971		0.640026	
29000026A0A15SRU1	-1.19	-0.28	-1.16	-0.79	-1.98	-2.58	1.99	-1.7	-2.21	-1.88	-1.94	-2.1	-2.17	-2.49	-2.67	-1.54	0.2375	-0.7275	-0.9125	0.804101	0.033248	0.030763	0.999971		0.676744	
2900026A0A180GR	0.83	-0.28	-0.83	-0.71	0.09	-0.18	-0.33	-0.47	-0.28	0.56	-0.52	-0.94	-0.79	-0.48	-1.19	-0.9	-0.025	-0.0475	-0.5925	0.9478	0.918222	0.154594	0.999971		0.795578	
31100821R3C9KL3	2.69	3.06	1.89	1.91	2.09	2.13	1.68	1.4	3.07	2.87	1.69	1.34	1.57	1.96	1.82	2.45	-0.0525	-0.145	-0.4375	0.121214	0.764972	0.222559	0.999971		0.827753	
4931406C02Q1V176	0.32	0.07	0.07	-0.38	0.61	0.38	0.5	-0.16	0.69	0.38	0.52	0.14	0.71	0.22	-0.24	0.05	0.3125	0.3425	0.14	0.234869	0.201803	0.609342	0.999971		0.925763	
4931402Q02Q04D3	-1.65	-1.69	-1.35	-1.77	-1.22	-0.84	-0.96	-2.22	-2.61	-1.36	-1.38	-1.16	-1.16	-1.21	-1.52	-1.18	0.305	0.0125	0.3475	0.363032	0.971154	0.097499	0.999971		0.783028	
4931407Q1A00N4SU	1.56	0.69	-0.77	-0.77	-0.58	0.99	0.26	-0.35	0.96	0.89	-0.47	-1.16	0.61	-0.58	-0.89	-0.59	-0.075	-0.2475	-0.665	0.900838	0.712785	0.257894	0.999971		0.839012	
4931404Q1B78X33	-0.25	-0.3	-0.75	-0.47	-0.68	-0.25	-0.9	-0.44	0.03	0.26	-0.49	-0.65	-1.01	-0.03	-0.15	-0.38	-0.125	0.23	-0.175	0.578536	0.391959	0.546204	0.999971		0.911398	
511499581K1APX2	-0.54	-0.55	-0.36	-0.05	0.5	-0.41	-0.34	0	-0.62	-0.6	-0.04	0	-0.26	0.4	-0.23	0.24	0.0625	0.06	0.2125	0.767173	0.801103	0.355848	0.999971		0.896263	
57040551Q5CVY0	0.81	1.17	1.22	0.33	0.66	1.15	2.22	-0.03	1.1	0.8	0.57	0.15	1.32	0.17	0.04	0.10	0.1175	-0.2275	-0.4575	0.800625	0.448091	0.423282	0.999971		0.87919	
6030458C1Q8BG1C	0.97	1.28	0.93	1.17	0.69	-0.11	0.71	1.23	-0.23	-0.62	0.74	0.73	1.19	0.67	0.63	1.13	-0.4575	-0.6225	-0.1825	0.150432	0.041848	0.409533	0.999971		0.875847	
6204048C1Q8BU2	-0.64	-0.56	0.69	0.65	-0.48	-0.49	0.51	0.32	-0.4	-0.31	0.61	0.29	0.05	-0.7	0.68	0.94	-0.047	0.0125	0.2075	0.869729	0.976157	0.669015	0.999971		0.938711	
8030462Q1Q9VAV6	-0.39	0.54	1.57	1.89	0.87	2.11	1.41	1.72	0.61	-0.59	1.62	1.85	0.38	-0.3	1.57	0.79	0.15	-0.03	-0.2925	0.790417	0.965419	0.642656	0.999971		0.930479	
AB300418L1B7DN57	-2.12	-1.58	-1.56	-1.25	-2.14	-2.96	-1.41	-1.24	-1.1	-4.32	-2.31	-1.79	-1.32	-2.31	-2.02	-1.01	-0.085	-0.43	-0.3675	0.831667	0.912466	0.25857	0.999971		0.832225	
Aasg	PS4742	1.32	-0.47	-0.9	0.47	0.03	-0.69	-0.9	-0.52	-0.08	0.85	-0.82	0.78	0.17	-0.32	-0.5	-0.12	-0.39	-0.0775	-0.0625	0.438387	0.893621	0.986336	0.999971		0.988571
Aasg	Q92080	-0.21	-0.1	0.09	-0.09	-0.09	-0.03	0.06	-0.09	0.38	1.12	1.05	0.81	1.02	0.69	0.44	0.085	0.6675	0.8825	0.619065	0.022576	0.010934	0.999971		0.476733	
Aagb	QR2883	0.86	0.23	-0.18	0.16	-0.51	-0.48	0.06	-0.63	-0.11	0.42	0.3	0.46	-0.01	0.44	0.08	0.7	3.88	7.85E-17	0.035	0.280254	1	0.902597	0.999971		0.990739
Aak1	Q3UH10	-0.1	-0.36	-0.52	-0.56	-0.52	-0.56	-0.52	-0.56	-0.52	-0.56	-0.52	-0.56	-0.52	-0.56	-0.52	-0.56	-0.1075	0.438888	0.349786	0.817347	0.999971		0.939778		
Aak1.1	A0A571BE1	0.95	-0.49	-0.62	-0.04	-0.67	-0.74	-0.39	0.15	-0.39	-0.3	-0.57	-0.24	-0.58	-0.63	-0.15	0.01	-0.3625	-0.325	-0.2875	0.367561	0.372767	0.453714	0.999971		0.887217
Aak1.2	A0A571BD1	-0.06	-2.53	-0.97	-1.41	-1.5	-1.73	-1.39	-1.38	-2.37	-0.75	-2.66	-0.84	-0.38	-1.37	-1.67	-1.18	-0.2575	-0.1025	0.597058	0.533261	0.863278	0.999971		0.983079	
Aampc	D32442	0.14	-0.09	0.38	0.19	0.24	0.24	0.43	0.5	-0.12	-0.03	0.56	0.31	0	0.33	0.46	0.14	0.2225	0.05	0.1025	0.254647	0.822812	0.610864	0.999971		0.926273
Aand	J20N89	0.82	0.14	0.11	0.54	0.73	0.13	1.18	0.05	-0.09	0.81	0.66	0.46	1.06	0.74	0.45	0.0225	0.05	0.165	0.716477	0.813139	0.482626	0.999971		0.896465	
Aar2	Q92DZ5	-0.49	-0.14	-0.04	-0.29	0.13	-0.22	-0.06	0.35	0.13	-0.14	-0.11	0.53	0.31	0	0.21	0.04	0.3075	-0.550797	0.280519	0.187134	0.999971		0.800205		
Aar1	Q88G07	-0.41	0.43	0.64	0.64	0.23	0.23	0.59	0.51	0.46	0.37	0.46	0.76	0.12	0.36	0.53	-0.14	-0.0175	-0.195	0.458065	0.921219	0.30183	0.999971		0.847402	
Aar1	Q14CH7	0.51	-0.37	-0.38	-0.46	-0.76	-0.48	0.13	-0.48	-0.66	-0.24	-0.5	-0.46	-0.49	-0.42	-0.55	-0.2225	-0.17	-0.2525	0.470534	0.585386	0.348006	0.999971		0.86438	
Aar1	Q3TH79	-0.51	1.06	0.88	0.71	0.52	1.63	0.62	1.08	0.82	1.27	0.63	0.39	0.93	1.5	1.05	1.28	0.1725	-0.025	0.4	0.557343	0.959635	0.094427	0.999971		0.790538
Aandpnppt	Q5CQF6	-0.51	-1.36	-1.22	-1.41	-0.66	-1.15	-0.47	-0.61	0.04	-0.81	-0.5	-1.37	2.61	2.1	1.54	-0.16	0.1	0.061212	-0.177125	0.772725	0.966972	0.999971		0.887217	
Aass	Q9Y967	0	-0.65	-0.76	-0.94	-0.61	-0.93	-1.24	-1.77	-0.86	-0.35	-0.92	-1.21	-0.68	-0.93	-1.23	-1.05	-0.2475	-0.385	0.115156	0.394893	0.163285	0.999971		0.875525	
Atatf	Q9UHX4	-0.96	1.28	-2.19	-2.12	-0.64	0.71	-2.62	-1.55	1.1	0.19	-1.48	-2.19	1.37	1.23	-0.307	0.1925	0.4025	0.4	0.777031	0.680101	0.745154	0.999971		0.961064	
Atk1	RI4029	-0.15	0.01	-0.13	-0.34	-0.01	0.04	-0.47	-0.15	-0.11	0.1	0.03	0.24	0.49	0.11	0.1	0.02	0.08	0.2175	0.3325	0.700939	0.62406	0.112505	0.999971		0.78268
Abnt	P61922	-0.97	-1.21	-1.47	-0.88	-1.1	-0.74	-1.47	-0.88	-1.1	-0.74	-1.47	-0.88	-1.1	-0.74	-1.47	-0.88	-0.1225	0.326969	0.207747	0.1504	0.999971		0.931789		
Abca1	PL4233	-1.07	-0.66	-0.84	-1.22	-0.76	-0.85	-1.17	-1.16	-0.79	-1.08	-0.79	-0.65	-0.59	-1.02	-0.56	-0.67	-0.0375	-0.12	0.2375	0.859511	0.560094	0.281523	0.999971		0.844538
Abca2	A2A216	-0.24	1.01	0.71	0.83	1	0.84	0.73	0.64	1.29	0.13	1.14	1.07	1.18	0.92	0.93	0.8	0.2225	0.33	0.38	0.48816	0.387123	0.226321	0.999971		0.828236
Abca3	QR8420	-0.79	0.03	-0.67	-0.7	-0.18	-0.33	-0.73	-																	

Act52	A2AQN4	-0.76	0.75	0.68	0.07	0.44	1	0.41	0.19	0.88	0.01	0.75	0.95	1.28	0.9	0.57	0.83	0.325	0.4625	0.71	0.399122	0.261364	0.081725	0.999971	1	0.755254
Actb	P60710	-0.77	-0.8	-1.36	-1.02	-0.72	-0.88	-0.98	-1.07	-0.84	-0.99	-0.91	-1.29	-0.6	-0.99	-1.01	-0.83	0.05	-0.02	0.13	0.819037	0.92514	0.548895	0.999971	1	0.911727
Actb2	Q8B729	-1.16	-0.13	-0.6	-1.05	1.75	1.02	1.95	1.28	1.35	0.43	1.19	2.65	0.9	-1.56	-0.97	-0.57	1.885	2.675	0.9425	0.182402	0.018776	0.178825	0.999971	1	0.877584
Actc	P68033	-0.61	-1.35	-1.66	-0.82	0.2	-0.97	-1.44	-1.2	-0.9	-0.12	0.7	1.69	-1.51	-0.67	-1.27	-0.88	0.2575	-1.4525	0.0025	0.538722	0.027428	0.993519	0.999971	1	0.999933
Actc1	P63260	-0.19	-0.6	-1.14	-0.64	-1.01	-0.69	-1.37	-0.61	-0.81	-0.75	-1.25	-0.85	-1.03	-0.38	-0.82	-0.86	-0.2775	-0.2725	-0.13	0.330567	0.293785	0.622444	0.999971	1	0.929759
Actc6a	Q92Z88	0.82	1.05	0.92	0.76	0.96	0.33	0.05	0.62	0.61	0.87	0.22	0.39	0.71	1.02	0.78	0.93	-0.3975	-0.365	-0.0275	0.127274	0.101883	0.877254	0.999971	1	0.985139
Actc6b	Q9PM90	1.15	1.26	1.01	1.37	1.15	1.12	0.46	1.22	0.03	1.55	0.77	0.78	0.83	1.16	0.94	1.14	-0.305	-0.26	0.275	0.225971	0.239936	0.187129	0.999971	1	0.890925
Actc1	A1BNS4	-0.64	-0.63	-0.69	-0.49	-0.48	-0.86	-0.72	-0.8	-0.77	-0.65	-0.51	-0.34	-0.46	-0.87	-0.69	-0.56	-0.1025	-0.045	-0.0325	0.566158	0.799733	0.856423	0.999971	1	0.983255
Actc1	Q7TP84	0.07	1.8	2.15	0.08	1.99	1.58	4.55	0.98	2.25	0.5	2.85	4.32	4.64	1.3	1.25	1.75	1.25	1.455	1.21	0.171553	0.122269	0.192548	0.999971	1	0.810547
Actc2	Q8J951	-1.02	-1.11	-2.24	-1.97	-0.99	-1.74	-1.98	-1.65	-1.13	-1.42	-1.68	-1.55	-0.88	-1.25	-1.73	-2.04	0.04	0.185	0.155	0.907933	0.55341	0.676394	0.999971	1	0.941944
Actc4	A041LV5	-0.45	-1.1	-0.83	-0.42	-0.78	-1.11	-1.16	-0.92	-0.74	-0.61	-0.95	-1.01	-0.95	-1.01	-0.95	-1.01	-0.95	-1.01	0.2025	-0.488089	0.129004	0.1490483	0.999971	1	0.917742
Actc4	A041LV5	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.13	0.442307	0.927827	0.643897	0.999971	1	0.93301
Actc4_2	E90Z89	0.13	-1.33	-0.92	-1.12	-1.41	-1.12	-1.22	-1.32	-1.35	-0.47	-1.14	-1.28	-1.27	-1.83	-1.16	-0.37	-0.4575	-0.25	-0.3475	0.188973	0.506194	0.417739	0.999971	1	0.877584
Actc10	Q90Z87	-0.72	0.05	0.19	-0.09	-0.09	-0.3	0.22	0.24	-0.27	-0.27	0.51	0.48	0.59	0.26	0.37	0.21	0.355	0.39	0.5	0.162537	0.192146	0.069738	0.999971	1	0.739397
Actc1a	P61164	-0.33	-1.25	-0.64	-0.65	-1.35	-1.03	-0.46	-0.63	-1.31	-0.57	-0.73	-1.1	-1.23	-0.95	-0.73	-0.53	-1.125	-0.188	-0.1175	0.688062	0.522947	0.675494	0.999971	1	0.941576
Actc1b	Q8R5C5	-1.45	-0.17	-0.76	-0.66	-0.89	-1.1	-0.7	-0.6	-1.49	-0.67	-0.78	-0.89	-0.88	-0.39	-0.52	0.1625	0.01	0.44	0.505075	0.970819	0.098641	0.999971	1	0.782368	
Actc1	P61161	-0.14	-0.22	-0.26	0.09	0.4	0.28	0.5	-0.18	0.17	-0.08	0.05	-0.11	0.55	0.01	-0.21	-0.06	0.0675	0.115	0.14	0.792972	0.537946	0.551068	0.999971	1	0.913695
Actc3	Q9J919	-0.52	-0.52	-1.03	-1.13	-0.46	-0.43	-0.84	-1.12	-0.54	-0.68	-1.2	-1.41	-0.62	-0.57	-1.15	-1.18	0.0875	-0.1575	-0.08	0.733849	0.574934	0.756448	0.999971	1	0.961116
Actc3b	A041P9	-0.52	-0.32	-0.36	-0.51	-0.43	-0.19	-0.33	-0.5	-0.73	-0.77	-0.66	-0.78	-0.58	-0.62	-0.65	0.065	-0.307	-0.2525	0.708641	0.083271	0.170214	0.999971	1	0.802549	
Actc5	A040M405	-0.9	0.57	0.3	0.06	0.61	0.53	0.68	0.37	0.76	-0.66	1.03	1.16	-0.86	0.08	2.25	0.9	0.54	0.565	0.07	0.125623	0.26959	0.256271	0.999971	1	0.839013
Actc1b	P31712	-0.38	0.22	0.51	0.64	0.04	0.19	-0.12	1.09	0.2	-0.16	0.49	-1.51	0.52	0.2	0.86	1.05	0.0525	-0.4925	0.41	0.879918	0.307134	0.19889	0.999971	1	0.813335
Actc1b	Q61271	-0.56	0.27	-0.44	-0.43	-0.16	-0.02	-0.77	0	0.34	-0.16	-0.48	-0.9	0.64	0.19	0.14	-0.3	0.0525	-0.01	0.4575	0.850191	0.975321	0.134221	0.999971	1	0.784948
Actc1c	Q8K348	-0.39	-0.14	-0.04	-0.07	-0.12	-0.93	-1.11	0.32	-1.46	-0.78	-0.49	-1.17	-0.57	-0.44	0.38	0.14	-0.335	-0.85	0.0025	0.346566	0.008956	0.992571	0.999971	1	0.999925
Actc2a	P27038	-1.62	-0.28	-0.49	-0.16	-0.09	-0.45	-0.71	-0.17	-0.12	-1.78	-0.57	-0.55	0.31	-0.67	-0.3	0.1	0.2825	-0.0575	0.4975	0.435217	0.905445	0.181878	0.999971	1	0.827064
Actc1	A040M405	1.06	0.6	0.35	0.65	0.37	0.58	-0.11	0.75	0.49	-1.15	0.21	0.15	0.44	0.69	0.5	0.39	-0.2675	-0.165	-0.18	0.313637	0.565562	0.45725	0.999971	1	0.85762
Actc3	Q91XE4	0.27	1.18	1.69	1.46	0.69	0.44	1.3	1.79	0.46	0.29	1.19	0.99	-0.01	0.58	1.31	1.17	-0.095	-0.1475	-0.3875	0.818497	0.27417	0.361039	0.999971	1	0.869526
Actc1	P56376	-0.56	0.56	1.85	1.19	0.2	0.66	2.15	0.73	0.16	-0.46	1.03	0.3	0	0.42	0.51	0.3	0.175	-0.5025	-0.4525	0.777838	0.374149	0.366568	0.999971	1	0.869526
Actc1	P56375	1.14	0.6	0.96	1.11	0.05	0.79	1.47	0.02	0.72	0.78	0.46	0.41	-0.45	0.14	0.64	-0.14	-0.37	-0.36	-0.905	0.317028	0.106216	0.096896	0.999971	1	0.613095
Actc	P90958	-1.27	0.06	1.01	1.61	0.01	0.42	1.27	0.44	-1.35	0.33	1.34	1.3	0.83	0.13	0.83	0.07	-0.05	-0.175	0.47	0.929478	0.340493	0.28117	0.999975	1	0.999725
Actc	Q8Y056	1.32	0.14	0.47	0.2	0.16	0.29	0.11	0.52	0.15	0.54	0.32	0.65	-0.08	0.26	0.43	0.24	-0.2625	-0.1175	-0.32	0.387125	0.697759	0.303835	0.999971	1	0.847402
Actc10	Q35588	-0.25	-0.53	-0.45	-0.45	-0.25	-0.45	-0.2	-0.14	-0.29	-0.34	-0.31	0.17	-0.06	-0.3	0.29	-0.62	1.16	0.2275	0.2475	0.737347	0.259354	0.311128	0.999971	1	0.847973
Actc1	Q7TQ67	0.32	-0.68	-0.92	-0.81	-0.88	-0.3	-0.87	-0.63	-0.95	-0.25	-1.11	-1.23	-1.04	-0.9	-0.84	-0.67	-0.1475	-0.3625	-0.34	0.645204	0.319648	0.799396	0.999971	1	0.848312
Actc15	Q8B83-2	-0.45	-0.17	-1.56	-0.66	-0.89	-1.1	-0.7	-0.6	-0.24	-0.07	-0.24	-0.07	-0.24	-0.07	-0.24	-0.07	-0.24	-0.07	0.185	0.572345	0.913898	0.049971	0.999971	1	0.793628
Actc17	Q920F8	-0.38	-0.08	0.56	0.13	-0.14	0.2	0.53	-0.21	-0.16	-0.38	-0.27	-2.38	-0.11	-0.23	0.31	-0.58	0.1025	-0.655	-0.145	0.71404	0.270946	0.414461	0.999971	1	0.927466
Actc18	Q9R1V6-14	-0.52	-0.81	-0.61	-0.61	-0.11	-0.47	-0.39	-0.49	-0.88	-0.6	-0.74	-0.86	-0.58	-0.44	-0.48	-0.52	0.0475	-0.1325	0.1325	0.818691	0.4481	0.439861	0.999971	1	0.883105
Actc18	Q9R1V7-2	-0.79	-1.29	-0.55	-0.71	-1.47	-1.22	-0.6	-0.77	-1.69	-1.43	-1.02	-1.17	-1.7	-1.39	-0.89	-0.87	-1.18	-0.4925	-0.3775	0.516281	0.471147	0.194167	0.999971	1	0.810645
Actc19	Q61072	-0.45	-0.1	-0.56	-0.07	-0.14	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	0.515	0.336846	0.499141	0.999027	0.999971	1	0.970268
Actc1	E9P916	-1.01	-0.15	-1.18	-1.08	-0.06	-0.21	-0.89	-0.89	-0.07	-0.6	-0.7	-1.02	-0.08	-0.26	-0.17	-0.75	0.3425	0.2575	0.355	0.307152	0.419596	0.818221	0.999971	1	0.853893
Actc19	Q9PMJ3-5	0.44	1.45	1	0.87	1.27	0.54	1.27	0.25	1.34	0.54	0.82	0.94	0.73	0.6	0.48	0.03	-0.1075	-0.04	-0.48	0.746157	0.884843	0.108888	0.999971	1	0.782628
Actc1	Q91Z58-4	0.44	0.95	0.34	0.14	0.81	0.61	0.1	0.35	0.44	0.61	0.05	0.16	0.32	0.46	0.04	-0.42	-1.966	-0.1525	-0.1775	1	0.535747	0.467203	0.999971	1	0.891731
Actc1	Q8P60	1.02	1.09	0.53	0.76	1.09	0.9	0.11	0.44	0.53	0.26	0.7	0.58	0.5	0.83	0.43	0.91	-0.215	-0.1575	-0.1825	0.480083	0.456006	0.410025	0.999971	1	0.874885
Actc1	Q8P470	3.12	1.34	1.17	1.34	1.17	1.34	1.17	1.34	1.17	1.34	1.17	1.34	1.17	1.34	1.17	1.34	1.17	1.34	0.3225	0.68288	0.246745	0.088417	0.999971	1	0.934638
Actc1	Q90D04	0.13	0.14	-0.11	-0.13	0.05	0.36	0.16	0.48	0.23	0.26	0.1	0.38	0.54	0.6	0.2	0.44	0.305	0.045	0.4375	0.139929	0.831469	0.041294	0.999971	1	0.700838
Actc2	Q90J72	1.78	1.51	1.95	2.49	1.16	1.83	1.19	0.79	1.37	1.96	2.48	1.43	0.9	1.57	1.85	2.05	-0.115	-0.1225	-0.34	0.804506	0.712122	0.132851	0.999971	1	0.849367
Actc2	E9P9U2	-0.99	0.21	-0.42	-0.44	0.11	-0.4	-0.71	-0.65	-0.21	-1.45	-0.98	-0.42	-0.21	0.39	-0.61	0.06	-0.0025	-0.355	0.3175	0.998912	0.342443	0.342738	0.999971	1	0.861474
Actc2	Q8B444	-0.52	-0.02	-0.07	-0.02	-0.07	-0.02	-0.07	-0.02	-0.07	-0.02	-0.07	-0.02	-0.07	-0.02	-0.07	-0.02	-0.07	-0.02	-0.05	0.843624	0.249217	0.702217	0.999971	1	0.961116
Actc2	Q91Y03	-0.71	-0.77	-0.99	-0.51	-0.4	-0.53	-0.87	-0.7	-0.69	-0.81	-1.58	-0.25	-0.56</												

Alk4	Q9UWU9	-0.2	-0.47	-0.28	-0.41	-0.51	-0.48	-0.58	-0.53	-0.7	-0.49	-0.94	-0.76	-0.73	-0.47	-0.62	-0.47	-0.185	-0.3825	-0.2325	0.284147	0.06049	0.207544	0.999971	1	0.820632
Alk5	Q9Z0P5	0.25	0.09	0.74	0.48	0.06	0.6	0.81	0.86	-0.03	0.02	0.5	0.22	0.22	0.52	0.53	0.1	0.1925	-0.125	0.155	0.460129	0.355827	0.516331	0.999971	1	0.905815
Alkap1	Q06715	-0.2	-0.03	0.16	0.03	0.1	0.54	0.23	0.1	0.02	-0.19	0.22	-0.05	0.39	0.23	-0.06	0.1	-0.2175	-0.09	-0.09	0.326024	0.613133	0.658734	0.999971	1	0.91472
Alkap10	Q08845	-0.74	-0.52	-0.5	-0.62	-0.1	-0.81	-0.12	-0.48	-0.2	-0.75	0.08	0.3	-0.18	-0.93	-0.48	-0.56	0.2175	-0.4255	-0.0575	0.3382	0.105828	0.78774	0.999971	1	0.96724
Alkap11	E9Q777	-1.87	-0.51	0.43	0.07	1.03	-0.22	-0.2	-0.64	-0.54	-0.97	-0.01	-0.13	-0.77	-0.76	-0.13	-0.25	0.5625	0.3275	-0.0075	0.317997	0.554736	0.9879	0.999971	1	0.999925
Alkap12	Q9WT05	0.06	-0.01	-0.63	-0.53	-0.7	-0.89	-0.34	-0.01	-0.65	-0.13	-0.77	-0.49	-0.69	-0.49	-0.18	-0.45	-0.1075	0.075	0.075	0.690557	0.949541	0.78831	0.999971	1	0.96375
Alkap14	E9Z3N4-2	-2.51	1.46	1.17	1.51	1.19	2.49	1.68	0.04	1.72	0.46	0.23	0.75	1.11	0.01	0.6	-0.0025	-0.4925	0.795	0.912147	1.14519	0.101246	0.999971	1	0.76268	
Alkap5	H3BV85	-0.45	-2.27	-1.22	-0.75	-1.94	-2.16	-0.83	-1.27	-2.12	-1.4	-1.86	-1.5	-2.22	-2.03	-1.41	-1.56	-0.3775	-0.5475	-0.6325	0.429707	0.207047	0.158027	0.999971	1	0.797252
Alkap6	E9QK98	0.69	0.45	0.38	0.39	0.75	0.15	0.2	0.43	0.62	0.52	0.64	0.78	1.01	0.42	0.31	0.42	0.38	0.0225	-0.095	0.909938	0.194262	0.582608	0.999971	1	0.920364
Alkap7	Q7N7N9	-0.07	-0.31	-0.92	-0.78	-1.39	-0.94	-0.73	-0.7	-1.25	-0.76	-0.74	-1.05	-0.85	-1.11	-0.63	-0.49	-0.1825	-0.1925	-0.0125	0.56811	0.530466	0.987668	0.999971	1	0.998787
Alkap8	Q9Q0B0	1.02	1.12	2.13	0.31	0.25	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.8425	0.248722	0.258321	0.086418	0.999971	1	0.999971
Alkap9	ADA549B9	1.28	0.73	0.84	0.62	0.76	0.84	1.09	0.66	0.71	0.79	0.9	1.19	0.05	0.36	0.2	0.1	0.3	-0.03	-0.890064	0.291598	0.056824	0.999971	1	0.725348	
Alkap9	E9Q100	1	1.17	1.13	1.65	0.97	0.48	1.16	1.49	1	1.08	1.25	1.53	0.85	0.84	1.29	1.14	-0.2125	-0.0225	-0.2075	0.443947	0.91961	0.365149	0.999971	1	0.869526
Alkx1	09I06	1.81	0.61	1.1	0.65	0.63	0.54	1.72	0.36	0.68	0.9	0.75	0.56	0.51	-0.41	1.15	-0.2	-0.23	-0.32	-1.03	0.566361	0.297039	0.013928	0.999971	1	0.613095
Alkx1	P45736	-0.09	0.7	1.16	0.6	0.76	0.29	0.85	1.03	1.27	-0.09	1.18	0.79	1.18	0.29	1.02	1.13	0.14	0.195	0.3125	0.651488	0.618653	0.357946	0.999971	1	0.868795
Alkx1	G5E895	-0.98	0.14	0.97	-0.22	-0.12	0.55	1.24	-0.08	1.83	-0.57	1.27	-0.1	1.74	-0.16	0.3	0.25	0.6075	0.86	0.8425	0.252081	0.258044	0.37576	0.999971	1	0.832634
Alkx1	P21300	-0.8	-0.1	-0.85	-1.33	-0.48	-0.17	-0.65	-0.68	-0.2	-0.78	-0.52	-1.01	-0.07	-0.05	0.11	0.56	0.275	0.1425	0.8825	0.365566	0.649231	0.017286	0.999971	1	0.617356
Alkx2	Q9C071	0.22	0.5	0.64	0.21	0.34	0.82	1	0.89	0.67	0.09	0.83	0.92	0.26	0.48	0.73	0.5	0.37	0.235	0.1	0.123504	0.347556	0.622216	0.999971	1	0.925759
Alkx2	Q8C766	0.58	0.58	0.48	0.16	0.06	0.33	0.26	0.04	0.16	0.36	0.26	0.25	-0.11	0.18	0.17	-0.077	-0.2775	-0.4075	0.169459	0.300441	0.059223	0.999971	1	0.725438	
Alk1	P31750	0.86	0.74	0.88	0.61	0.59	0.81	0.82	0.87	0.54	0.47	0.63	0.15	0.6	0.51	0.54	0.78	-0.005	-0.33	-0.17	0.977237	0.105002	0.346413	0.999971	1	0.864164
Alk1	Q9O174	-0.71	1.22	-0.23	0.25	1.02	1.25	-0.69	0.02	1.35	-0.2	-0.28	0.04	2.38	1.05	-0.04	0.47	0.2675	0.095	0.8325	0.635057	0.85519	0.193883	0.999971	1	0.810547
Alk1	G06823	0.22	0.19	-0.13	0.05	-0.19	0.21	-0.19	0.95	-0.14	0.07	0.1	-0.02	-0.03	0.14	-0.01	0.5	0.1125	-0.08	0.0675	0.700716	0.648894	0.740496	0.999971	1	0.960899
Alk1	Q9UWU6	0.04	0.22	0.04	0.23	0.31	0.54	0.33	0.33	0.38	0.1	0.06	-0.05	0.52	0.37	-0.16	0.08	0.245	-0.01	0.03	0.174911	0.955404	0.891538	0.999971	1	0.988225
Alk9	D32632	-0.36	1.4	1.2	0.05	1.14	1.31	0.61	1.45	0.93	0.45	1.17	1.23	1.12	1.5	1.17	1.6	0.305	-0.1225	0.52	0.472662	0.769507	0.212166	0.999971	1	0.823193
Alk	P01518	0.41	0.84	0.33	0.68	0.85	0.72	0.02	0.14	0.71	0.46	0	0.2	0.6	1.02	0.64	0.74	-0.1325	-0.2225	0.185	0.614406	0.346377	0.380848	0.999971	1	0.871816
Alk	P07724	1.17	0.47	0.83	0.78	1.21	3.36	3.88	1.63	2.93	0.4	2.05	1.72	2.51	2.68	1.67	2.12	1.2075	-0.5375	-0.0675	0.225185	0.525809	0.92522	0.999971	1	0.99401
Alkam	E9Q306	-1.08	-1.86	-1.44	-0.61	-1.21	-1.68	-0.96	-0.85	-1.25	-1.11	-1.31	-1.06	-1.07	-1.24	-0.58	-0.94	0.0725	0.065	0.29	0.82318	0.819441	0.357766	0.999971	1	0.868793
Alkh1a1	Q5Z089	1.21	0.73	0.8	0.83	0.82	0.27	0.78	0.67	0.69	0.5	1.09	0.62	0.42	0.4	1.06	0.94	-0.2575	-0.1675	-0.1875	0.347868	0.438711	0.439025	0.999971	1	0.881005
Alkh1a1	Q5Z110	-0.45	-0.46	-0.48	-0.37	-0.22	-0.13	-0.34	-0.21	-0.33	-0.41	0.02	-0.27	-0.21	-0.22	-0.21	-0.09	-0.09	-0.2175	-0.0675	0.627795	0.309129	0.784188	0.999971	1	0.999971
Alkh1a1	Q5Z110-2	-0.14	-1.46	-2.03	-0.13	-0.19	-1.61	-0.82	-2.88	0.03	-3.05	-1.17	-0.72	-2.42	-1.73	-0.74	-0.4	-0.435	-0.2875	-0.3825	0.572762	0.697762	0.533385	0.999971	1	0.910077
Alkh1a1	P24549	-1.74	-1.92	-1.53	-1.15	-1	-1.84	-0.65	-1.28	-1.57	-2.1	-0.93	-0.58	-2.17	-1.85	-0.97	-1.12	0.3925	0.29	0.0575	0.222575	0.437224	0.862337	0.999971	1	0.982693
Alkh1a2	Q62148	2.04	1.45	1.38	2.52	2.12	1.09	1.64	1.95	1.19	1.25	1.07	1.58	0.19	2.21	1.71	1.64	-0.2975	-0.575	-0.41	0.438021	0.080088	0.400556	0.999971	1	0.871816
Alkh1a7	Q5E945	-0.58	0.19	0.97	0.21	1.22	-0.15	0.28	1.24	-0.44	0.95	1.05	1.32	0.6	0.8	1.1	0.19	0.002631	0.002631	0.119	0.906263	0.254714	0.79613	0.999971	1	0.970544
Alkh1b1	Q5C251	-0.42	-0.67	-0.85	-0.58	-0.77	-0.69	-0.96	-0.46	-0.74	-0.31	-0.69	-0.6	-1.04	-0.73	-0.69	-0.8	-0.09	0.045	-0.185	0.650351	0.814583	0.34133	0.999971	1	0.860894
Alkh11	Q8R0Y6	-0.46	-0.21	-0.42	-0.73	-0.46	-0.06	-0.54	-0.19	-0.06	-0.04	-0.62	-0.72	-0.03	-0.01	-0.47	-0.17	0.1425	0.095	0.285	0.498286	0.693138	0.189404	0.999971	1	0.810547
Alkh12	Q8X009	-1.19	-0.07	-0.06	-0.36	0.18	-0.21	-0.15	-0.14	-0.03	-0.93	-0.61	-0.04	0.1	-0.58	-0.66	-0.7	0.34	0.035	-0.04	0.262031	0.919795	0.902556	0.999971	1	0.990759
Alkh2	P47738	-0.75	-0.5	-0.8	-1.07	-1.26	-0.92	-1.08	0.3	1.23	-1.21	-1.12	-0.73	-0.73	-1.08	-1.29	0.13	0.1	0.1	-0.2625	0.630401	0.434553	0.118	0.999971	1	0.999971
Alkh2a	81A777	-1.74	-1.39	-0.89	-1.37	-1.19	-1.35	-0.86	-0.76	-1.41	-1.71	-1	-0.74	-1.79	-1.48	-0.64	-1.32	0.3075	0.1325	0.04	0.23966	0.647697	0.89607	0.999971	1	0.985871
Alkh3b1	Q8V020	-1.28	-1.02	-0.48	-0.72	-1.17	-1.34	-1.06	-0.08	-1.47	-1.71	-1.15	-0.9	-1.54	-1.66	-0.53	-0.76	-0.0375	-0.4325	-0.2475	0.9099	0.133137	0.461337	0.999971	1	0.890007
Alkh41	Q8CHT0	-0.56	-0.8	-0.97	-0.83	-0.86	-0.83	-0.79	-0.28	-0.71	-0.91	-0.85	-0.96	-0.9	-0.52	-0.08	-1.11	0.1	-0.0675	-0.1125	0.638909	0.703435	0.597071	0.999971	1	0.92377
Alkh5a1	Q8BW00	-0.59	-1.11	-0.61	-1.2	-0.99	-1.14	-0.3	-0.88	0.5	-1.49	-0.84	-0.58	-0.54	-1.65	-0.73	-1.35	0.025	0.025	-0.19	0.850698	0.930726	0.546267	0.999971	1	0.911398
Alkh5a1	Q8F020	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	-0.69	-0.92	0.69	0.92	0.999971	1	0.999971
Alkh5a1	Q9O8F1-2	-0.48	-0.09	-0.01	-0.07	0.01	0.14	-0.14	-0.83	0.03	-0.47	-0.09	0.03	0.44	-0.01	-0.02	0.06	0.3725	0.0225	0.28	0.76969	0.912671	0.199013	0.999971	1	0.813335
Alkh5a1	Q9J1J2	-0.21	0.12	0.27	0.42	0.36	0.65	0.35	1.35	0.29	1.19	0.02	-0.11	0.56	0.71	0.79	0.49	0.5275	-0.0525	-0.485	0.090818	0.801651	0.039457	0.999971	1	0.700838
Alkda	A6244	-0.77	0.54	-1.17	-0.78	-0.06	0.8	-0.95	-0.53	0.21	1.61	-0.62	1.12	0.79	0.71	-0.77	0.3	-0.025	0.74	0.1675	0.964264	0.259575	0.810276	0.999971	1	0.973864
Alkda	P05064	0.06	0.03	0.08	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	-0.025	0.832115	-0.117153	0.579978	0.999971	1	0.999971
Alkdc	P05063	-0.15	-0.55	-0.26	-0.42	-0.7	-0.43	-0.59	-0.12	-0.59	-0.58	-0.46	-0.24	-0.73	-0.32	-0.38	0.04									

Apl01	P61967	-0.04	0.39	0.9	0.41	-0.1	0.46	0.51	0.72	0.15	0.08	0.95	0.68	-0.1	0.46	1.34	0.69	-0.0175	0.05	0.1825	0.049521	0.864964	0.60421	0.999971	1	0.924454
Apl02	C90805	0.38	0.66	0.07	0.46	0.48	0.48	-0.37	0.82	0.81	0.34	0.02	0.3	0.57	1.04	0.47	0.69	-0.4	-0.025	0.3	0.891263	0.915747	0.195449	0.999971	1	0.811225
Apl03	P17426-2	-0.74	-0.29	0.63	0.76	-0.52	-0.38	-0.57	0.73	-0.57	0.61	0.71	-0.97	-0.18	-0.46	-0.46	0.65	0.05	0.11	0.1625	0.798822	0.563951	0.43155	0.999971	1	0.881643
Apl04	P17427	-1.2	-0.77	-1.03	-1.12	-0.75	-1.01	-1.02	-1.25	-0.73	-1.23	-1.15	-1.42	-0.63	-1.08	-1	-1.05	0.0225	-0.1025	0.09	0.909573	0.637049	0.654305	0.999971	1	0.934061
Apl05	C908063	-0.81	-0.66	-0.76	-0.89	-0.85	-0.71	-0.7	-0.86	-0.84	-1.01	-0.8	-0.85	-0.57	-0.73	-0.57	-0.64	1.966-16	0.095	0.1525	1	0.565129	0.37125	1	1	0.869526
Apl06	A04339P61	1.39	0.7	0.77	1.05	-0.62	2.15	1.44	1.83	-0.44	-0.1	0.73	-0.18	-0.91	1.29	1.67	2.03	-0.2775	-1.475	-0.4575	0.691687	0.013465	0.323291	0.999971	1	0.910609
Apl07	P64091	-0.57	-0.57	-0.7	-0.74	-0.71	-0.32	0.28	0.98	0.74	-0.43	-1.16	1.37	-0.63	-0.38	-0.84	0.96	0.115	0.3725	-0.155	0.709258	0.179976	0.693776	0.999971	1	0.901531
Apl08	P62743	-2.27	-0.24	-0.8	-3.14	-0.37	-0.86	-0.53	-2.1	-0.35	-2.89	-0.39	-0.11	0.05	-1.58	-1.15	-3.25	0.6475	0.6775	0.113	0.365594	0.430501	0.879221	0.999971	1	0.958441
Apl09	C92171	0.86	0.02	-0.06	0.01	0.28	0.28	0.3	0.09	0.2	0.57	-0.2	-0.08	-0.49	0.12	-0.15	-0.3	-0.12	-0.085	-0.4125	0.664026	0.768715	0.155849	0.999971	1	0.796008
Apl10	C901M65	-0.9	-1.09	-1.03	-0.92	-1.18	-0.74	-1.02	-0.91	-1	-0.95	-0.85	-0.92	-1.05	-0.75	-0.71	0.53	0.0225	0.0505	0.1775	0.900957	0.731923	0.36067	0.999971	1	0.869526
Apl11	C54774	-1.21	-0.51	-0.67	-1.18	-0.43	-0.31	-0.77	-0.88	-0.8	-0.77	-0.88	-0.8	-0.77	-0.91	-1.02	-0.455	0.15188	0.307397	0.14908	0.91588	0.307397	0.14908	0.999971	1	0.810547
Apl12	C91K5C	-1.36	-0.65	-0.5	-0.52	-1.01	-0.78	-0.71	-0.28	-0.84	-1.03	-0.63	-0.78	-0.88	-0.58	-0.42	-0.23	0.0625	-0.0625	0.2275	0.831973	0.450511	0.800318	0.999971	1	0.824463
Apl13	C982R89	-0.87	-0.15	-0.4	-0.57	-0.28	0.09	-0.15	-0.46	-0.31	-0.54	-0.3	-0.83	-0.09	-0.02	-0.51	-0.44	0.2975	0.0205	0.2325	0.215725	0.991345	0.331521	0.999971	1	0.857156
Apl14	C90CKR2	-1.34	-0.87	-0.63	-0.91	-0.42	-1.3	-0.69	-0.67	-0.16	-1.54	-0.55	-0.49	0	-1.18	-0.69	-0.32	0.1675	0.2525	0.39	0.526333	0.453515	0.121843	0.999971	1	0.827204
Apl15	C985C2	-1.21	-0.4	-1.11	-1.79	-0.42	-0.35	-0.83	-1.06	-0.41	-1.22	-0.78	-0.99	0.52	-1.19	-1.12	-1.18	0.4625	0.0775	0.635	0.185668	0.412512	0.195641	0.999971	1	0.811225
Apl16	A040G2JF1	-1.53	-0.57	-0.7	-0.74	-0.71	-0.24	-0.24	-0.67	0.17	-0.37	-1.09	-0.52	0.04	-0.4	0.17	-0.07	0.74	0.405	0.655	0.254852	0.877449	0.122146	0.999971	1	0.780268
Apl17	C90V94	0.15	0.52	0.02	-0.21	0.59	0.6	-0.16	-0.46	0.17	0.31	-0.08	-0.19	-1.14	1.07	-0.13	-0.29	0.0225	-0.0675	0.3275	0.94264	0.766837	0.415974	0.999971	1	0.876885
Apl18	C91K7C	1.95	0.88	0.19	-0.06	0.4	0.89	-0.77	0.07	0.57	1.26	0.28	0.04	0.71	0.7	-0.12	0.11	-0.6175	-0.2225	-0.39	0.256927	0.653466	0.411363	0.999971	1	0.875847
Apl19	C90VW11	-1.15	-1.61	-1.99	-0.74	-0.22	-1.82	-2.1	-0.67	-0.99	-0.88	-1.05	-0.63	-1.18	-0.66	-1.32	-1.09	0.17	0.485	0.56	0.728084	0.128662	0.148123	0.999971	1	0.793248
Apl20	A21N4C	2.93	1.34	2.46	2.48	1.27	0.96	1.69	2.31	1.22	0.11	2.5	2.31	2.24	1.69	2.56	3.51	-0.45	0.4725	0.4925	0.357993	0.464179	0.360476	0.999971	1	0.869526
Apl21	C93U29	0.65	1.09	-0.04	-0.13	1.61	0.44	-0.18	-0.02	1.21	0.97	-0.06	0.19	2.16	0.37	-1.19	-0.07	0.07	0.185	0.21	0.880044	0.648011	0.707136	0.999971	1	0.950182
Apl22	G3XA0A9	0.88	0.29	1.76	0.12	1.38	0.68	1.08	0.88	0.63	1.1	1.11	0.32	0.96	1.22	1.39	-0.04	0.2425	0.0275	0.12	0.532724	0.945161	0.794042	0.999971	1	0.970141
Apl23	B2RUJ5	-0.76	-0.99	-0.75	-0.25	-0.72	-0.84	-0.23	-0.77	-0.82	-0.57	-0.7	-0.72	-0.73	-0.93	-0.76	-0.51	0.0475	-0.015	-0.045	0.848385	0.94315	0.839449	0.999971	1	0.979728
Apl24	P98084	0.07	-0.23	-0.52	-0.51	-0.37	-0.22	-0.51	-0.66	-0.52	-0.54	-1.1	-0.02	-0.07	-0.82	-0.65	-0.1425	-0.38	-0.0925	0.513614	0.187308	0.730041	0.999971	1	0.956041	
Apl25	C98888	-0.17	-0.29	-0.45	-0.16	-0.24	-0.33	-0.5	-0.15	-0.92	0.03	-0.37	-0.73	-0.07	0.01	-0.21	-0.31	-0.0375	-0.23	0.1225	0.834929	0.364443	0.500932	0.999971	1	0.904237
Apl26	C90X51	0.19	-1.16	-1.04	-0.87	-0.7	-0.84	-0.74	-0.62	-1	-0.53	-0.89	-1.34	-0.29	-0.42	-0.41	-0.5	-0.005	-0.22	0.315	0.987357	0.530005	0.333368	0.999971	1	0.857921
Apl27	C98S43	2.21	0.06	0.47	-0.01	0.4	0.35	-0.2	0.12	0.57	2.21	0.37	0.11	-0.91	-0.12	0.72	-0.78	-0.515	0.1325	-0.565	0.316785	0.83691	0.358524	0.999971	1	0.869927
Apl28	EP9WV4	0.55	-0.5	0.25	0.55	-0.25	-0.33	0.84	1.28	-0.22	-0.33	0.27	-0.18	0.17	-0.38	0.9	0.78	0.1725	-0.3275	0.155	0.697977	0.92808	0.880349	0.999971	1	0.942957
Apl29	B2RUJ69	0.09	-0.83	0.62	-0.81	-0.58	-0.38	0.45	-0.58	-0.4	0.52	0.31	0.45	-0.39	-0.96	-0.44	-0.87	-0.0625	0.1675	-0.145	0.808683	0.486745	0.602203	0.999971	1	0.824463
Apl30	C5E832	1.2	-0.54	-0.58	-0.48	-0.42	-0.1	-0.58	-0.28	-0.38	0.94	-0.48	-0.69	-0.11	-0.06	-0.67	-0.52	-0.245	-0.0525	-0.24	0.565451	0.92081	0.583725	0.999971	1	0.920364
Apl31	A040K410	1.08	0.1	0.15	0.54	-0.01	0.01	0.22	0.26	0.09	0.49	0.22	0.43	0.25	0.56	0.64	-0.48	0.3475	-0.16	0.015	0.204689	0.549698	0.954701	0.999971	1	0.998056
Apl32	P28352	1.75	2.75	2.72	2.38	2.39	2.9	2.4	2.53	2.6	2.29	2.3	2.35	2.31	2.77	2.96	2.51	1.555	-0.015	0.2375	0.578666	0.945493	0.416776	0.999971	1	0.877251
Apl33	P81VH7	-0.57	-0.25	-0.2	-0.25	-0.22	-0.11	0.03	-0.18	-0.07	-0.11	-0.33	-0.08	-1.11	-0.23	-0.07	0.29	0.405	0.16	-0.25	0.142527	0.680248	0.75114	0.999971	1	0.901531
Apl34	C53841	1.21	1.7	1.82	2.05	1.85	1.38	1.47	1.83	1.56	1.21	1.51	1.72	1.31	1.8	1.61	1.87	-0.0625	-0.195	-0.0475	0.798866	0.421773	0.847645	0.999971	1	0.980635
Apl35	C90VW5	0.12	1.21	0.71	0.6	1.24	0.73	0.56	0.62	1.65	0.1	0.78	0.32	1.5	0.9	0.78	0.97	0.1275	0.0525	0.3775	0.656832	0.893885	0.211982	0.999971	1	0.823181
Apl36	C90842-2	3.14	1.84	2.93	3.57	1.39	1.88	3.23	2.89	3.17	3.09	2.42	2.42	-1.87	0.77	3.2	1.5	0.5225	-0.0095	-0.202	0.330897	0.81451	0.06781	0.999971	1	0.739397
Apl37	C93157	0.93	1.1	1.16	1.37	1.27	1.35	1.31	0.85	1.16	1.89	2.5	0.85	1.06	0.56	0.8	0.5	-0.76	0.555022	0.425283	0.106421	0.999971	1	0.901531		
Apl38	C90709	-0.19	-0.01	-0.17	-0.36	0.08	-0.03	-0.16	-0.32	0.27	-0.08	0.03	0.05	-0.02	0.77	-0.12	-0.14	0.075	0.25	0.09	0.686313	0.183035	0.602021	0.999971	1	0.924453
Apl39	C90635	-2.02	-1.44	-0.25	1.05	-0.8	-1.28	-0.36	-1.41	-1.97	-1.55	0.31	1.47	-2.35	-0.84	-0.27	1.41	0.4075	0.23	0.2875	0.615882	0.808643	0.760495	0.999971	1	0.961116
Apl40	C907N9	-0.49	-0.55	-0.69	-0.54	-0.59	-0.42	-0.67	-0.46	-0.64	-0.83	-0.55	-0.44	-0.49	-0.43	-0.48	-0.44	0.0325	-0.0475	0.1075	0.847468	0.784267	0.513414	0.999971	1	0.905185
Apl41	C90623	2.07	4.13	1.44	4.79	5.06	1.45	1.51	-0.29	2.62	1.46	3.26	1.15	3.93	2.41	2.54	2.59	-0.675	-0.485	-0.24	0.595227	0.556292	0.761599	0.999971	1	0.961309
Apl42	P98111	0.4	2.64	0.44	2.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	-2.37	0.184828	0.176739	0.191957	0.999971	1	0.869526
Apl43	P98028	2.83	3.86	1.55	4.88	5.56	1.59	3.66	2.37	1.1	0.33	1.62	1.06	0.63	1.53	1.67	1.73	-0.2625	-0.2775	-1.915	0.766267	0.602306	0.202096	0.999971	1	0.949631
Apl44	C90LQ13	2.09	2.41	1.4	1.52	2.62	0.89	0.81	1.51	0.29	1.83	1.58	1.96	2.06	-0.54	1.85	2.29	-0.8925	-0.44	-0.44	0.244382	0.735585	0.957659	0.999971	1	0.901531
Apl45	P34928	-0.74	2.52	1.11	3.34	3.48	-0.48	2.19	-1.28	1.47	-0.1	3.6	2.58	2.31	0.29	1.2	1.22	-0.4025	-0.33	-0.0525	0.761228	0.519785	0.953759	0.999971	1	0.998056
Apl46	C90P55	-0.6	-1.72	1.39	-0.09	1.29	0.34	0.46	0.49	0.84	0.27	0.94	0.24	0.84	1.91	2.29	0.84	-0.12	-0.460421	0.908459	0.184227	0.999971	1	0.961309		
Apl47	P51910	0.89	0.66	0.64	1.56	0.62	1.08	0.3	1.87	0.62	1.04	0.92	0.77	0.22	1.2	1.05	1.7	0.03	-0.1	0						

Armcd_1	G3X920	-0.9	0.25	1.58	0.47	0.04	0.05	0.75	0.79	0.19	-0.6	0.77	-0.07	0.2	0.3	0.6	0.66	0.0575	-0.2775	0.09	0.909933	0.609431	0.852826	0.999971	1	0.98187
Armcd9	Q9D25-2	0.12	0.05	-0.64	-0.28	0.72	0.10	-0.5	-0.15	0.47	0.58	-0.41	-0.03	1.24	0.6	-0.58	-0.39	0.1725	0.05	0.115	0.688715	0.88823	0.808266	0.999971	1	0.973739
Armcd2	Q6A058	1.39	0.02	0.07	0.5	0.21	0.18	-0.28	0.15	0.36	1.09	0.05	0.47	-0.49	0.43	0.31	-0.285	0.08	-0.3	0.483997	0.897495	0.958489	0.999971	1	0.905277	
Armcd3	QBH856	-0.08	0.42	0.09	-0.25	0.3	0.43	-0.05	0	0.44	0.13	0.15	0.05	-0.82	0.28	0.09	0.71	0.125	0.1475	0.43	0.581982	0.492496	0.511675	0.999971	1	0.78268
Armcd4	E9PW43	0.79	-0.44	-0.48	0.44	-0.36	-0.02	0.15	0.48	-0.52	0	0.57	0.33	-0.78	-0.86	-0.03	0.23	-0.015	0.0175	-0.4375	0.966325	0.96352	0.291858	0.999971	1	0.847402
Armcd3	QBP019	-0.69	0.62	0.03	-0.09	-0.25	0.05	-0.04	-0.02	0.52	-0.34	0.03	0.44	0.79	-0.1	0.09	0.35	0.0925	0.195	0.135	0.74929	0.561391	0.533448	0.999971	1	0.868675
Armcd1	ADH630	0.11	1.46	0.77	0.48	1.7	0.91	1	1.05	0.73	0.02	0.86	0.91	2.16	0.72	0.75	0.38	0.6235	0.1675	0.3	0.951337	0.700887	0.71963	0.999971	1	0.905515
Armcd2	Q61324-2	0.04	1.37	0.93	1.22	1.4	1.63	0.74	0.85	1.56	1.1	0.66	0.63	1.2	1.64	0.87	1.18	0.265	0.0995	0.3325	0.466745	0.787421	0.335945	0.999971	1	0.858827
Armcd1	ADIA18005	2.53	2.37	1.82	1.73	1.71	1.41	1.6	2.24	1.31	1.74	1.7	0.66	-0.41	2.09	0.73	2.38	-0.6225	-1.01	-1.165	0.049673	0.01119	0.855562	0.999971	1	0.759991
Armcd1a	Q9R006	-1.94	-0.86	-1.17	-1.26	-0.78	-0.18	-0.97	-1.14	-0.82	-1.55	-1.23	-1.74	-1.63	-0.57	-1.49	-1.84	0.54	-0.0275	-0.075	0.111996	0.928889	0.832549	0.999971	1	0.979136
Armcd1b	Q91225	0.73	0.07	0.35	0.28	0.64	0.35	0.66	0.35	0.26	0.86	0.32	0.22	0.66	0.91	0.64	0.35	0.135	0.689295	0.882817	0.542426	0.999971	1	0.911919		
Armcd1b	Q91225	-0.17	0.03	-0.99	-0.63	-0.3	-0.18	-0.86	-1.19	-0.32	-1.77	-0.86	-1.18	-0.28	-0.82	-1.14	0.3075	0.0075	0.115	0.441581	0.850531	0.747286	0.999971	1	0.836884	
Armcd3	Q9M746	-1.06	-0.55	0.4	-0.28	0.5	-0.09	0.61	0.17	-0.48	-0.58	0.65	-1.3	-0.38	0.04	-0.5	0.42	0.365	-0.1625	0.275736	0.387445	0.683353	0.999971	1	0.943649	
Armcd3	P59999	-1.86	-0.49	-1.03	-1.14	-0.52	-0.91	-0.87	-1.59	-0.73	-2.77	-0.75	-0.8	-0.13	-0.56	-1.72	-1.08	0.1575	-0.0075	0.2575	0.656916	0.986539	0.545553	0.999971	1	0.911398
Armcd3	Q9CPW4	0.08	0.16	-0.09	-0.22	0.34	0.55	0.19	0.3	0.18	0.08	-0.11	0.26	0.1	-0.08	0.33	0.2275	-0.02	0.06	0.230661	0.908049	0.714759	0.250498	0.999971	1	0.961064
Armcd1	Q9D898	0.15	0.2	1.06	1.24	0.01	0.06	0.67	0.69	-0.06	0.06	0.88	1.01	-0.17	0.14	0.78	0.82	-0.31	-0.19	-0.34	0.371441	0.621529	0.386256	0.999971	1	0.871816
Armcd1	Q9D043	0.17	0.59	0.04	0.35	0.61	0.46	-0.19	0.18	0.42	0.23	0.06	0.23	0.54	0.92	0.18	0.35	-0.0225	-0.0525	0.21	0.926323	0.789498	0.382641	0.999971	1	0.871816
Armcd1b	P56212	0.92	0.51	1.32	1.92	0.51	0.5	0.9	1.54	0.43	1.25	1.09	1.41	-0.04	0.48	1.23	1.67	-0.305	-0.1225	-0.3325	0.246259	0.735084	0.472732	0.999971	1	0.889755
Armcd21	Q9D084	0.35	-0.89	0.14	0.4	-0.66	-0.75	0.73	-0.03	-0.25	0.13	-0.41	-0.6	0.3	-0.59	0.22	-0.69	-0.1775	-0.2825	-0.34	0.681807	0.441376	0.354299	0.999971	1	0.868793
Armcd21_1	Q9D084-2	-2.69	-0.7	1.32	3	0.42	0.46	1.79	2.19	0.29	-0.38	1.43	0.61	-0.12	-0.19	1.06	0.57	-0.3025	-0.5075	-1.7025	0.674004	0.556407	0.089841	0.999971	1	0.771991
Armcd1	QB8W68	-0.16	0.36	-0.28	-0.2	0.48	-0.07	-0.4	-0.37	0.26	-0.13	-0.25	-0.69	-0.39	-0.02	-0.53	-0.6	-0.02	-0.1325	-0.315	0.940892	0.618029	0.198335	0.999971	1	0.813335
Armcd1	Q91Y14	2.93	2.58	2.32	1.73	1.81	2.24	1.67	2.45	1.95	1.89	2.52	2.03	2.46	2.59	2.28	2.33	-0.3475	-0.2925	0.025	0.287374	0.341539	0.258569	0.999971	1	0.994278
Armcd1	A2A959	1.21	0.28	-0.42	-0.68	0.13	0.23	-0.32	0.09	0.1	0.76	-1.53	-0.64	0.03	0.26	-0.82	-0.63	-0.065	-0.425	-0.3875	0.876167	0.482389	0.413446	0.999971	1	0.876261
Armcd1	P50428	0.86	0.5	0.64	0.74	1.32	0.37	0.08	0.92	1.12	0.58	0.49	0.41	0.86	-0.12	0.43	0.44	0.1125	-0.06	-0.3075	0.645002	0.778959	0.224973	0.999971	1	0.828225
Armcd1	ADAK0R413	0.29	0.33	-0.11	-0.82	0.26	0.03	-0.16	-0.23	0.08	0.31	-0.21	-0.06	0.15	0.44	-0.86	-0.58	0.0525	0.2125	-0.1355	0.859562	0.469942	0.73569	0.999971	1	0.956041
Armcd1	Q3T7D4	0.53	-1.17	-2.14	-1.5	-1.43	-1.07	-1.96	-0.83	-0.76	0.04	-1.17	-1.58	-0.02	-0.75	-2.18	-1.6	-0.2525	-0.2025	-0.0675	0.65864	0.910584	0.920043	0.999971	1	0.992702
Armcd1	QB8M89	-0.01	-2.14	-1.52	-2.12	-1.74	-0.97	-0.3	-1.21	-3	0.16	-1.07	-2.05	-4.65	-1.68	-2.34	-1.7	0.1425	-0.0425	-0.895	0.82703	0.745828	0.322249	0.999971	1	0.85548
Armcd1	P94203	-0.59	-1.38	-1.06	-1.09	-1.41	-0.96	-0.84	-1.09	-1.24	-0.79	-0.96	-1.19	-0.99	-1.17	-1.01	-0.95	-0.045	-0.015	7.857	0.17	0.850136	0.947821	1	0.999971	
Armcd2	Q9H488	-1.69	0.38	-1.39	-1.42	-1.78	-0.1	1.1	1.12	1.54	1.37	1.39	3.26	-1.48	-0.5	0.9	0.75	0.235	0.16	0.6	0.38322	0.105276	0.587851	0.999971	1	0.920758
Armcd1	Q91WU5	0.49	0.43	-0.59	0.11	0.68	0.27	-0.08	-0.68	0.82	0.64	-0.31	0.29	0.89	0.46	-0.12	0.44	-0.0625	-0.25	0.0875	0.865414	0.477031	0.815607	0.999971	1	0.974918
Armcd1	Q9WV54	-0.55	0.13	0.07	0.42	0.16	-0.23	-0.29	-0.46	-0.01	-0.53	-0.17	0.3	-0.05	0.24	-0.06	0.06	-0.2225	-0.27	1.96E-17	0.409387	0.30603	1	0.999971	1	1
Armcd1	BZ7N55	-0.03	-0.89	-0.52	-0.65	-0.43	-0.61	-0.69	-0.15	-0.93	-0.66	-0.62	0.09	-0.3	-0.36	-0.45	-0.37	0.1275	-0.0075	0.1525	0.648723	0.979565	0.504478	0.999971	1	0.905277
Armcd1	H31B72	-0.19	0.2	1.16	0.28	-0.01	0.06	0.67	0.69	-0.47	-3.05	0.88	1.01	-0.17	0.14	0.78	0.34	0.025	-0.17	-0.3	0.962132	0.856468	0.791917	0.999971	1	0.962577
Armcd1_1	EQ90M1	0.02	-0.03	-0.27	-0.27	-0.28	0.03	-0.1	-0.68	-0.29	-0.08	-0.24	-0.44	-0.31	-0.22	-0.64	-0.14	-0.12	-0.125	-0.19	0.585107	0.49233	0.347232	0.999971	1	0.861644
Armcd2	Q3YX85	1.88	-2.44	0.92	0.54	-0.06	-1.32	5.27	-0.06	-2.68	0.2	0.75	-1.46	-0.67	-4.72	-1.14	-2.63	-0.0175	-1.0225	-3.515	0.992191	0.362038	0.012249	0.999971	1	0.613095
Armcd21	E9PKS2	-0.08	-0.38	0.71	0.5	0.14	-0.13	-0.65	-0.87	-0.4	-0.13	-0.64	-0.74	-0.15	-0.25	0.37	-0.45	-0.03	-0.06	0.2975	0.905984	0.921156	0.250486	0.999971	1	0.839012
Armcd1b	QB8VX4	-0.98	-0.19	1.02	0.72	-0.42	0.27	0.65	0.29	-0.38	1.43	0.61	-0.12	-0.19	1.06	0.1	-0.235	0.774614	0.529788	0.791746	0.989386	0.999971	1	0.898461		
Armcd1	ADAK0N45M	1.29	-0.79	-0.2	-0.75	-0.18	-0.34	-0.11	-0.31	-0.48	-1.12	0.06	0.87	0.91	-1.76	0.34	-0.87	-0.1225	-0.055	-0.2325	0.786527	0.795869	0.740248	0.999971	1	0.960899
Armcd1	Q91ZU1	1.03	0.69	2.07	1.81	0.48	0.28	1.9	3.09	0.44	1.02	2.3	1.4	-0.48	0.45	2.08	2.79	0.0375	-0.11	-0.19	0.54979	0.817012	0.79624	0.999971	1	0.970435
Armcd1	Q90821	-0.39	0.51	0.28	-0.13	0.38	-0.37	-0.45	0.13	0.45	-0.21	0.22	0.3	0.32	0.35	0.01	-0.09	-0.145	0.1225	0.08	0.624294	0.646944	0.755321	0.999971	1	0.901166
Armcd1	Q91WPR3-2	0.45	0.11	0.83	1.12	0.88	1.42	1.04	0.98	0.71	0.97	1.43	0.99	0.41	1.53	1.32	1.5	0.1975	-0.1425	0.3075	0.409377	0.568564	0.340679	0.999971	1	0.860574
Armcd1	E9PZ18	-0.15	0.78	0.38	0.28	0.18	0.29	0.21	0.29	0.6	0.1	0.6	0.1	0.6	0.1	0.6	0.1	0.455	0.424678	0.40388	0.915613	0.999971	1	0.860574		
Armcd1	Q9CQ66	1.1	0.84	0.77	1.04	0.89	0.93	0.53	1.14	1.07	0.8	0.29	0.17	1.37	0.9	1.88	1.38	-0.065	-0.355	0.195	0.750691	0.524852	0.383691	0.999971	1	0.89526
Armcd1	Q91X20	2.01	1.73	2.35	2.73	1.65	1.05	1.81	2.5	1.25	1.77	2.16	2.31	0.9	1.65	2.16	2.6	-0.4525	-0.3325	-0.3775	0.229147	0.316271	0.361466	0.999971	1	0.869526
Armcd1	Q9KX08	-0.22	-0.65	-0.58	-0.23	-0.77	-0.44	-0.35	-0.11	-0.25	-0.26	-0.44	-0.6	0.26	-0.32	-0.14	0.16	0.0025	-0.065	-0.41	0.999693	0.727242	0.689903	0.999971	1	0.771991
Armcd1	Q9250-2	-0.16	-0.36	-1.09	-0.42	-0.13	-0.12	-0.71	-0.17	-0.32	-0.14	-0.58	-1.29	-0.12	0.16	0.1	0.5175	0.131411	0.385155	0.5507	0.999971	1	0.962577			
Armcd1	Q925H0	0.13	0.48	-0.34	0.5	1	-0.3	-0.5	0.23	-0.08	-0.39	1.05	0.27	0.54	0.08	-0.4	0.04	-0.085	-0.02	-0.1275	0.821118	0.955549	0.659936	0.999971	1</	

Athen10	P28658	-0.15	0.61	0.44	0.53	0.76	0.61	0.23	0.72	0.68	0.16	0.34	0.59	0.77	0.98	0.9	0.99	0.2225	0.085	0.5525	0.370415	0.723756	0.033031	0.999971	1	0.685881	
Athen11	P0C776	2.37	1.64	0.72	0.44	1.38	1.87	1.83	0.41	1.27	2.99	0.77	1.3	1.52	2.41	0.23	0.02	0.08	0.29	-0.2475	0.878406	0.332469	0.705457	0.999971	1	0.951082	
Athen12	E9CM77	1.13	1.19	1.23	1.47	1.58	2.07	1.46	1.52	1.55	1.57	1.09	1.29	1.41	1.79	1.45	1.41	0.2325	-0.04	0.111	0.302541	0.860572	0.417942	0.999971	1	0.936581	
Athen13	F16U2C2	0.15	1.38	2.04	2.24	-0.06	0.72	1.34	2.31	0.34	-0.26	1.83	1.57	0.83	1.26	1.37	2.25	-0.375	-0.5825	-0.025	0.552982	0.365569	0.961344	0.999971	1	0.998721	
Athen14	Q7THQ0-2	1.59	1.62	1.73	1.69	1.5	1.34	1.5	1.36	1.64	1.69	1.48	1.81	1.05	1.21	1.29	1.55	-0.2325	-0.0025	-0.3825	0.179751	0.988008	0.063589	0.999971	1	0.725348	
Athen15	Q9CY02	2.7	0.35	0.05	0.33	0.39	0.35	0.22	0.29	0.23	0.78	0.06	0	-0.38	-0.48	1.12	1.68	-0.545	-0.59	-1.2125	0.34968	0.332463	0.064758	0.999971	1	0.726851	
Athen17b3	Q3UD01	1.24	1.28	0.66	0.33	1.39	1.04	0.12	0.01	0.09	1.16	0.09	1.18	0.05	1.17	0.7	0.88	-0.3075	0.1375	-0.0525	0.412092	0.702192	0.073966	0.999971	1	0.948409	
Auh	ADONK0402	0.13	0.03	-0.52	-0.53	-0.48	-0.16	-0.79	-0.92	-0.34	-0.36	-0.67	-0.73	-0.07	-0.06	-0.92	-0.47	-0.365	-0.3025	-0.1575	0.152683	0.220873	0.582437	0.999971	1	0.920364	
Aup	P70295	-0.75	-1.38	-0.42	-0.19	-1.05	-1.24	-0.85	-0.36	-1.68	-1.16	-0.62	-0.77	-1.99	-0.87	-0.57	-0.19	-0.19	-0.3725	-0.22	0.599041	0.297755	0.619252	0.999971	1	0.929184	
Aurkap1	Q9C071	1.08	0.15	-0.3	-0.76	-0.81	-0.16	0.02	-0.22	-0.69	0.17	1.39	1.33	0.58	1	1.07	0.71	-0.335	-0.5075	0.7975	0.423871	0.395865	0.069045	0.999971	1	0.733937	
Aurkap2	A2AGL5	1.08	0.15	-0.3	-0.76	-0.81	-0.16	0.02	-0.22	-0.69	0.17	1.39	1.33	0.58	1	1.07	0.71	-0.335	-0.5075	0.7975	0.423871	0.395865	0.069045	0.999971	1	0.733937	
AurB	Q8U556	-1.27	-0.52	-0.99	-1.38	-0.52	-0.53	-0.55	-1.28	-0.39	-0.95	-0.95	-0.94	-0.35	-0.85	-0.98	1.31	1.32	0.2375	0.1675	0.474783	0.380731	0.566449	0.999971	1	0.917189	
AW209491	Q91W04	2.47	0.89	1.98	1.96	-0.41	1.6	3.52	0.44	0.31	1.49	1.44	0.17	0.4	0.36	0.92	-0.25	-0.5375	-0.9725	-1.4675	0.517278	0.059352	0.00471	0.999971	1	0.582714	
AW551984	Q8B8G0	-1.22	-1.55	-0.81	-0.88	-0.44	-1.42	-0.96	0.06	-0.16	-0.84	-1.13	0.51	0.63	0.18	1.11	-0.48	0.425	0.71	1.475	0.250946	0.096111	0.003141	0.999971	1	0.517729	
Alm	Q8P860	-1.05	-0.42	-1.54	1.3	-0.65	-0.62	-0.54	-1.53	-0.03	-0.82	-1.23	-1.19	0.12	-0.55	-0.56	-0.54	0.2425	0.26	0.895	0.473756	0.476871	0.040409	0.999971	1	0.710308	
Au12	Q9CYV6	2.33	0.29	0.47	-0.25	0.31	0.95	0.02	-0.24	1.56	0.2	-0.06	-0.42	-0.11	-0.07	-0.1	-0.4375	-0.325	-0.8475	0.451101	0.614574	0.138055	0.999971	1	0.768408		
B2m	P01887	1.55	1.04	1.1	1.63	2.5	0.14	1.93	0.93	2.63	0.47	1.63	0.04	1.8	0.24	1.17	1.17	0.04	0.6125	-0.235	0.298964	0.281456	0.507547	0.999971	1	0.905815	
B3galn1	Q9Z0V1	-1.75	-1.27	-0.44	-0.22	-0.75	-1.35	-1.06	0.34	-0.95	-0.25	-0.35	-0.46	-1.57	-0.82	0.31	0.1	0.215	-0.0325	-0.425	0.654977	0.947338	0.423139	0.999971	1	0.878877	
B3galn5	Q9Y167	3.11	1.63	1.42	1.73	0.84	1.11	1.09	1.75	1.5	1.17	1.7	2.38	-0.11	1.27	1.64	0.83	-0.775	-0.285	-1.065	0.089527	0.519494	0.065878	0.999971	1	0.725348	
B3galn6	Q91252	0.69	0.57	0.89	0.97	0.3	0.89	0.37	0.15	0.68	0.31	0.93	0.62	0.66	0.05	0.92	0.98	-0.3235	-0.145	0.1225	0.144322	0.488014	0.528116	0.999971	1	0.909725	
B3gal3	P58158	1.7	1.02	0.85	1.03	1.21	1.13	0.71	1.29	0.97	1.31	1.2	0.72	0.07	0.71	0.88	0.76	-0.065	-0.1	-0.545	0.798315	0.694182	0.076991	0.999971	1	0.750479	
B3gal1	Q8BH76	-0.71	0.3	0.28	0.65	0.12	-0.09	0.2	0.82	0.13	0.12	0.72	0.18	0.13	0.41	0.69	1.09	0.1325	0.0975	0.45	0.703265	0.773814	0.22215	0.999971	1	0.827753	
B4galn1	Q9PZ00	0.12	0.98	0.23	0.7	0.98	0.73	-0.06	0.84	0.63	0.15	0.67	0.8	0.77	1.01	0.82	0.8	0.115	0.055	0.3425	0.713828	0.836239	0.180609	0.999971	1	0.808532	
B4galn4	Q75625	0.99	-1.26	-2.71	-1.39	1.1	-2.22	-0.87	-0.38	0.49	-1.55	-0.14	-0.8	-6.67	-3.66	-0.4	3.54	0.5	0.5925	-2.475	0.589856	0.465071	0.089577	0.999971	1	0.771991	
B4gal3	Q3Y1V2	-0.72	-0.11	-0.36	-0.59	-0.12	-0.48	-0.82	-1.03	0.2	-0.28	-0.24	0.01	0.35	0.19	-0.19	-0.09	-0.1675	0.3675	0.51	0.528571	0.118171	0.046512	0.999971	1	0.710102	
B4gal7	Q3Z065	0.9	-1.91	-0.58	-0.39	-1.42	-1.24	1.72	-0.81	-1.54	-0.6	-1.04	-1.32	-2.65	-1.77	-1.15	-0.31	0.0575	-0.63	-1.225	0.944967	0.28038	0.070526	0.999971	1	0.735439	
B4gal1	Q8B9W8	-0.06	1.68	1.38	1.02	1.57	1.87	1.09	1.27	1.82	0.41	1.33	0.81	1.8	1.71	1.24	1.62	0.445	0.0875	0.5875	0.281543	0.848932	0.153257	0.999971	1	0.795578	
B6000990	Q7WN55	-1.89	-1.32	-1.52	-1.44	-1.51	-2.09	-1.64	-1.75	-1.68	-1.95	-2.1	-1.94	-1.79	-1.53	-1.64	-1.65	-0.055	-0.25	0.14	0.802471	0.284911	0.487305	0.999971	1	0.897906	
Bn1	Q2NCW8	-1.24	-0.18	0.64	0.51	-0.76	-1.17	0.5	1.14	-1.21	-0.67	0.72	0.73	0.13	0.12	0.17	0.25	-0.125	-0.15	0.15	0.845449	0.466988	0.803241	0.999971	1	0.917647	
Bn2	Q8YVH1	-2.79	-0.67	0.13	0.16	-0.54	-0.62	0.55	-0.04	-0.64	-0.72	0.37	0.54	-0.74	-1.11	-0.23	0.14	0.63	0.18	0.3075	0.38195	0.884489	0.651262	0.999971	1	0.933842	
Babam1	Q3UW43	0.77	0.77	1.04	1.3	0.55	0.7	1.46	1.17	0.79	1.06	1.23	0.6	0.97	0.89	0.8	0.92	-3.93E-17	-0.05	-0.075	1	0.825124	0.702341	1	0.949019		
Babam2	Q8X300	0.57	0.54	0.34	0.63	0.71	0.84	0.31	0.54	0.69	0.56	0.35	0.36	0.73	0.86	0.45	0.67	0.08	-0.03	0.1575	0.881566	0.86607	0.093948	0.999971	1	0.871816	
Bad1	P58131	-0.1	-0.5	-0.29	-0.41	-1.09	-0.45	-0.43	-0.02	-1.24	1.56	0.2	-0.06	-0.42	-1.18	-0.7	-1.21	-0.3075	-0.145	-0.5525	0.93028	0.885455	0.61117	0.999971	1	0.909725	
Bad	B31337	0.25	-0.33	0.28	1.12	-0.2	0.1	1.25	0.64	0.04	0.54	-0.31	-0.41	-1	-0.17	-0.1	-0.46	0.1175	-0.365	-0.7625	0.777343	0.324758	0.056837	0.999971	1	0.725348	
Bad1	Q3UH913	0.73	-0.19	-1.98	-2.04	-0.75	-0.36	-1.09	-1	-0.87	0.11	-0.81	-0.46	-0.78	0.32	-1.41	-1.48	0.07	0.3625	0.0325	0.912749	0.584849	0.964181	0.999971	1	0.998721	
Ba1	F6TFC9	-0.5	0.55	-0.51	-0.3	0.63	0.46	-0.8	0.1	0.72	0.13	-0.19	-0.3	0.77	0.54	-0.37	0.42	0.2875	0.21	0.32	0.467906	0.532092	0.413281	0.999971	1	0.876261	
Ba2	Q91YH6	0.35	-0.31	-0.97	-0.5	-0.89	-0.11	0.37	0.15	-0.46	0.11	-1.14	1.23	0.6	-0.05	-0.14	-0.65	0.063806	0.61104	0.95347	0.41	0.95347	0.41	0.95347	0.999971	1	0.876261
Ba3	Q8YLV1	2.65	0.67	0.42	0.72	0.69	0.97	0.51	0.66	0.7	1.82	0.26	0.07	1.17	0.64	0.76	0.15	-0.4075	-0.2025	-0.685	0.412953	0.504616	0.195062	0.999971	1	0.811225	
Ba4	Q8C61	1.55	1.06	2.14	1.9	1.72	0.55	4.86	0.53	2.92	0.83	2.66	3.07	2.4	-0.24	0.83	0.71	0.2525	0.7075	-0.7375	0.787504	0.204295	0.20132	0.999971	1	0.815758	
Ba5	Q8C32	0.07	-0.17	-0.28	-0.35	-0.27	-0.7	-0.56	-0.3	-0.51	-0.33	-0.37	-0.2	-0.36	0.18	-0.23	-0.19	-0.275	-0.17	0.0325	0.189246	0.362159	0.873472	0.999971	1	0.984109	
Ba6	Q3UP95	-0.21	0.37	0.17	0.14	0.4	0.04	0.11	0.09	0.32	-0.19	-0.04	0.15	0.5	0.2	0.07	0.11	0.0425	-0.0575	0.0475	0.831451	0.784488	0.828704	0.999971	1	0.978384	
Ba7	Q8BKX1-2	-1.14	-1.13	-1.29	-1.07	-1.29	-0.89	-1.01	-1.14	-1.07	-0.89	-1.01	-1.14	-1.07	-0.89	-1.01	-1.14	-1.07	-0.89	-1.14	0.245	0.201182	0.235008	0.35246	0.999971	1	0.867129
Ba1a3	S4R1K2	0.45	-2.26	0.14	-0.3	-0.28	-0.99	-1.01	0.17	0.34	-0.05	-0.73	0.52	-0.23	0.43	1.64	-1.14	0.035	0.3325	0.7375	0.953259	0.641776	0.338462	0.999971	1	0.8595	
Ba1	Q08734	0.33	0.33	-0.32	-0.5	0.87	0.91	-0.72	-0.37	1.23	1.21	-0.66	-0.09	0.54	1.25	0.94	0.31	0.1125	0.3825	0.23	0.812542	0.304784	0.647403	0.999971	1	0.933613	
Ban1	Q5A962	-1.12	-0.76	-0.79	-0.81	-0.56	-0.86	-0.28	-1.22	-0.55	-1.31	-1.6	-1.12	-0.21	-0.48	-0.55	-1.24	-0.28	-0.275	-0.25	0.406039	0.482925	0.348365	0.999971	1	0.866485	
Ban1	Q91V13	0.37	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	-0.17	-0.73	0.999971	1	0.866485
Bax	AD01B0G7	-0.01	0.81	-0.01	0.51	0.77	0.46	-0.08	0.24	0.7	0.4	0.55	0.24	0.96</													

Bnk1c	Q90CA5	-0.26	-2.17	-1.02	-1.46	-1.82	-2.57	-1.52	-1.47	-3.22	-1.99	-1.75	-1.39	-3.21	-2.41	-0.97	-1.27	-0.6175	-0.86	-0.7375	0.1894	0.127646	0.238393	0.999971	1	0.833594	
Bnk1c	Q91VY8	-1.61	-0.99	-1.86	-1.75	-0.34	-2.51	1.58	-2.47	1.3	-2.23	-1.39	-0.14	1	-2.51	-1.51	-1.74	0.7875	0.9375	0.3575	0.40925	0.215951	0.617538	0.999971	1	0.928581	
Bnk1c	Q3U1T3	0.16	0.09	0.94	-0.09	-0.44	-0.21	-0.37	-0.27	-0.34	-0.6	0.92	-0.13	-0.1	0.34	-0.3775	-0.4	-0.6975	0.23872	0.572124	0.188743	0.999971	1	0.78268			
Brok	BKXQ27	2.23	1.28	1.25	0.82	1.16	1.04	1.39	0.68	1.18	1.95	0.85	0.77	1.12	1.01	0.81	0.23	-0.275	-0.2075	-0.6025	0.336663	0.594788	0.114172	0.999971	1	0.78268	
Brkf1	AN0N45U	-0.83	2.72	2.38	1.12	4.19	1.76	2.52	1.76	4.48	0.05	4.09	4.68	5.71	0.57	3.07	1.21	1.21	1.9775	1.2925	0.194165	0.132005	0.163665	0.999971	1	0.85361	
Brkf1	Q5J9U5	-0.44	-0.7	-0.12	-0.26	-0.72	-0.63	-0.07	-0.09	-0.49	0.45	0.02	-0.16	-0.31	-0.72	-0.09	0.09	0.0025	0.11	-0.25	0.39182	0.614424	0.420454	0.999971	1	0.929305	
Bnk2	G3UWV4	1.4	-1.1	-0.98	-0.26	1.4	-0.73	0.34	-0.4	-0.21	0.04	-0.02	1.02	-1.09	-1	-0.72	1.11	-0.3225	-0.6125	-0.915	0.533931	0.361897	0.13679	0.999971	1	0.784848	
Bnk2_1	Q69Z98	0.4	-0.24	-0.1	0	-0.37	0.04	-0.18	-0.06	-0.14	0.01	-0.15	-0.19	-0.25	-0.27	-0.14	0.32	-0.1575	-0.1325	-0.1	0.4653	0.510531	0.668607	0.999971	1	0.938711	
Brdw1	Q921C3	1.92	-0.27	-0.05	0	0.14	0.48	0.93	-2.44	-0.35	1.63	-0.55	-2.9	1.2	-0.03	-1.6	-4.7	-0.6225	-0.9425	-1.6825	0.45484	0.336545	0.192406	0.999971	1	0.810547	
Bud2	AN0R42Z	-0.92	0.32	0.37	-0.32	0.17	0.63	-0.34	0.17	0.91	-0.64	-0.37	-0.07	1.78	0.47	-0.04	-0.01	0.48	0.465	0.8745	0.162745	0.262428	0.087823	0.999971	1	0.765196	
Bud2	Q8D7Y5	-0.99	-0.05	-0.64	-0.05	-0.48	-0.07	-0.44	-0.07	-0.44	-0.28	-0.45	-0.28	-0.45	-0.28	-0.45	-0.28	-0.45	-0.28	-0.45	-0.28	0.165859	0.250229	0.999971	1	0.882581	
Bug	K3WVQ8	0.61	-0.29	-0.11	-0.28	-0.69	0.03	0.87	-0.07	-0.75	0.43	-0.35	-0.57	-0.53	-0.48	-0.21	0.01	-0.0875	-0.4307	-0.813017	0.210455	0.126138	0.999971	1	0.783071		
Bun	B83737	-0.42	-1.38	-0.93	-0.01	-1.45	-0.95	-0.76	-1.27	-1.45	-0.88	-1.15	-1.3	-1.01	-1.29	-1.19	-0.94	-0.1725	-0.26	-0.1725	0.528436	0.323649	0.487294	0.999971	1	0.897906	
Buaf1	E9QAE3	-0.14	1	0.94	1.03	1	0.2	1.08	0.65	1.15	1.08	-1.11	1.08	0.98	0.35	0.63	1	0.99	0.19	-0.025	-0.04	0.577783	0.951371	0.908584	0.999971	1	0.991707
Bbbl1	P56544	3.95	0.18	-0.04	-1.03	-0.38	0.71	0.14	-0.43	-0.46	2.34	0.02	0.62	-1.37	-0.05	-0.31	-0.17	-0.755	-1.035	-1.24	0.459572	0.90433	0.52417	0.999971	1	0.835862	
Bbld10	E9Q6L8	0.92	-0.06	0.14	-0.06	0.14	-0.06	0.14	-0.06	0.14	-0.06	0.14	-0.06	0.14	-0.06	0.14	-0.06	0.14	-0.06	0.14	-0.06	0.14	0.984961	0.999971	1	0.878186	
Bbld11	Q66QW0	-0.46	-0.35	-0.98	-0.75	-0.64	-0.27	-1.13	-0.62	-0.84	-0.3	-1.01	-1.24	-0.72	-0.8	-1.1	-0.49	-0.30	-0.2125	-0.1425	0.905728	0.431823	0.339345	0.999971	1	0.910707	
Bbld17	Q90T62	-0.45	-0.26	-0.45	-0.57	-0.55	-0.25	-0.5	-0.71	-0.57	-0.22	-0.07	-0.86	-0.43	-0.37	-0.96	-0.39	-0.07	-0.1725	-0.105	0.708062	0.386166	0.61663	0.999971	1	0.928229	
Bbld8	Q3B7E0	-0.29	0.2	-0.43	-1.18	-0.29	0.19	0.07	-1.39	1.32	-0.55	0.41	0.87	1.26	-1.09	-1.33	-0.61	0.215	0.9375	-0.0175	0.640209	0.069031	0.976586	0.999971	1	0.95925	
Bbld9	B8C726	1.44	-0.06	-0.46	1.32	-0.09	0.36	-0.21	0.69	0.31	1.16	-0.65	-0.21	-0.31	-0.55	0.03	1.32	-0.3725	-0.4075	-0.1625	0.452134	0.461309	0.76808	0.999971	1	0.962635	
Bld	AN0R4U3	-1.23	-0.08	1.56	0.91	-0.18	0.88	0.88	0.66	0.24	-1.2	2.01	1.68	0.37	-0.32	1.25	1.1	-0.1125	0.2725	0.3125	0.861175	0.758482	0.630066	0.999971	1	0.932649	
Bf3	G64152	1.34	1.69	1.79	2.12	1.61	1.85	1.71	2.34	1.67	2.56	1.88	1.74	1.01	1.82	2.14	2.18	-0.3075	-0.2225	-0.3975	0.403007	0.559006	0.344374	0.999971	1	0.862346	
Bf34	Q9C0H7	0.5	2.33	2.26	2.39	2.28	2	2.05	2.31	2.27	1.35	2.48	2.63	2.28	2.02	2.21	2.84	0.29	0.3125	0.4675	0.512728	0.538998	0.324085	0.999971	1	0.85548	
Bf3	AD14QWU	3.38	3.17	3.08	3.27	2.89	3.45	3.62	2.46	3.26	3.34	2.79	3.31	1.9	2.67	2.36	1.93	-0.12	-0.3	-0.01	0.676627	0.277373	0.010096	0.999971	1	0.476373	
Bud13	B8R149	1.89	0.48	-0.04	-0.54	-0.14	1.36	-0.12	0.64	-0.07	1.99	0.89	0.14	0.91	0.11	0.16	0.21	-0.0125	-0.19	-0.1	0.982795	0.652701	0.846256	0.999971	1	0.579294	
Bud31	Q6F9H1	1.72	0.74	0.37	0.08	0.01	0.38	0	-0.07	0.2	1.11	0.66	-0.01	-0.27	0.55	0.38	-0.32	-0.4225	-0.2375	-0.6425	0.308199	0.571201	0.137434	0.999971	1	0.784948	
Byp1	Q5A825	-2.64	-0.19	-0.02	-1.44	-0.83	-0.92	-0.06	-1.11	-0.9	-3.39	0.1	0.12	-0.74	-1.92	-0.81	-0.24	0.3425	0.055	-0.4	0.569154	0.952561	0.55492	0.999971	1	0.91473	
Bz	AD08W7W	0.97	1.54	1.94	1.83	1.28	1.39	1.6	1.58	1.61	1.45	1.72	0.58	1.8	1.15	2.1	1.82	-0.1075	-0.23	-0.1025	0.675596	0.999407	0.76886	0.999971	1	0.968475	
Bwz	Q91VY1	1.2	2.03	1.14	0.96	1.24	2.04	0.91	2.03	0.92	1.07	1.34	1.85	2.01	1.31	1.26	0.75	0.5775	0.517464	0.22725	0.571464	0.411666	0.885041	0.999971	1	0.871816	
C0300061	Q8Y9E5	-0.4	-0.88	-0.23	0.11	-1.32	-0.65	-0.96	-0.02	-1.13	-0.78	-0.06	-1.25	-1.05	-1.03	-0.76	-0.73	-0.3775	-0.455	-0.5425	0.291864	0.198447	0.505484	0.999971	1	0.725348	
C1q	P90806	2.43	2.39	1.6	1.89	2.36	2.32	1.2	1.38	1.95	1.98	1.45	2.07	2	2.52	1.83	1.77	-0.2625	-0.215	-0.0475	0.468768	0.42585	0.865245	0.999971	1	0.983318	
C1q	P14106	2.25	2.74	0.8	0.99	2.45	2.67	0.99	1.1	2.9	2.65	1.49	1.37	2.64	2.39	1.49	1.46	0.1075	0.4075	0.3	0.855636	0.472927	0.568001	0.999971	1	0.931816	
C1q	Q8F5L1	-1.38	-0.57	-1.79	-0.46	-1.62	-0.39	-1.53	-0.76	-1.03	-1.03	-1.06	-0.76	-1.03	-1.06	-0.76	-1.03	-1.06	-0.76	-1.03	-1.06	0.785991	0.751591	0.12052	0.999971	1	0.917469
C1q	Q21015	0.63	1.28	0.87	1.04	1.04	1.1	1.17	0.89	0.98	1.11	0.78	0.94	0.25	1.24	1	1.34	0.095	-0.0025	0.0025	0.643915	0.990205	0.993196	0.999971	1	0.99925	
C1q	Q9E5N4	-0.84	-1.27	-0.8	-0.65	-0.98	-0.98	-0.56	-0.75	-0.91	-0.78	-0.83	-1.15	-1.04	-1.2	-0.62	-0.68	0.0725	-0.0725	0.005	0.736311	0.893635	0.982752	0.999971	1	0.99925	
C1q	Q8R066	-0.78	-0.92	-0.71	-0.81	-0.45	-0.99	-0.57	-0.48	-0.57	-0.9	-0.59	-0.18	-0.23	-0.67	-0.52	-0.62	0.1825	0.245	0.295	0.361874	0.250138	0.134859	0.999971	1	0.784848	
C1q	E9Q3C1	0.39	-0.27	-0.12	-0.06	-0.14	-0.06	-0.14	-0.06	-0.14	-0.06	-0.14	-0.06	-0.14	-0.06	-0.14	-0.06	-0.14	-0.06	-0.14	-0.06	0.551988	0.865147	0.830549	0.999971	1	0.917469
C1q	Q8X080	-0.19	-1.04	-0.78	-0.89	-0.85	-1.04	-0.76	-0.81	-0.88	-0.4	-0.72	-0.69	-0.42	-0.69	-0.72	-0.76	-0.14	0.0525	0.075	0.551285	0.280176	0.741114	0.999971	1	0.961064	
C2c45	Q5H22	0.62	-0.25	-0.19	-0.08	-0.56	-0.5	-0.23	-0.19	-0.23	-0.45	-0.25	-0.55	-0.07	-0.1	-0.09	0.14	-0.145	-0.17	-0.005	0.638212	0.574083	0.983522	0.999971	1	0.99925	
C2c45	Q7TP55	2.27	-1.72	-0.95	-0.94	-2.55	-2.04	-1.53	-0.79	2.46	3.22	-2.34	-1.2	-0.84	-1.83	-2.96	-1.88	-1.3925	-0.87	-1.5375	0.133503	0.552962	0.110029	0.999971	1	0.78268	
C2c5	AD0N44W	-1.14	-0.84	-0.63	-1.13	-0.86	-0.7	-0.81	-0.75	-0.77	-0.86	-0.74	-0.78	-0.37	-0.81	-0.73	-0.61	0.155	0.165	0.305	0.430096	0.952447	0.188987	0.999971	1	0.80174	
C2b	P10127	2	2.96	1.5	4.1	1.5	2.94	1.14	2.94	1.14	1.94	2.72	1.82	1.49	1.48	1.49	1.48	0.445651	0.862743	0.71	0.445651	0.862743	0.71	0.445651	0.999971	1	0.751348
C2b	P10129	0.88	-1.23	-2.53	-0.33	-1.16	1.15	2.04	0.99	1.52	1.26	0.48	1.36	1.56	1.17	-0.3	0.63	1.7975	1.9575	0.202822	0.018542	0.606854	0.999971	1	0.871816		
C2b	Q7F062	0.60	-0.42	-1.56	0.67	0.8	-1.37	-1.52	0.07	0.89	-1.61	-1.46	0.83	0.67	-1.5	-1.8	0.75	0.86	-0.355	-0.265	0.625297	0.734472	0.716354	0.999971	1	0.952576	
C2b	P13634	-0.35	-0.36	-1.34	1.03	-1.58	0.83	0.67	-0.6	-1.75	-2.52	-1.13	-0.45	-0.54	-1.76	-1.21	-0.64	0.21	-1.4575	-0.7825	0.795931	0.701433	0.1588	0.999971	1	0.788217	
C2b	P12115	-0.2	-1.37	-1.17	-0.17	-1.17	-0.17	-1.17	-0.17	-1.17	-0.17	-1.17	-0.17	-1.17	-0.17	-1.17	-0.17	-1.17	-0.17	-0.17	0.472826	0.620083	0.12999	0.999971	1	0.959925	
C2b	Q70354	2.11	0.59	-0.66	0.05	1.29	0.65	-0.28	-0.11	1.12	1.71	-0.1	0.31	1.45	0.22	-0.01	0.6	-0.1335	0.23								

Catpb.1	P47757	-0.36	-0.03	0.05	0.24	-0.18	0.09	0.55	0.51	0.21	-0.26	1.2	1.34	0.63	-0.05	0.68	0.75	0.2675	0.6475	0.5275	0.292221	0.125656	0.061717	0.999971	1	0.725348
Card19	O9D102	0.27	-0.3	0.28	-0.13	-0.26	-0.38	-0.52	-0.11	-0.82	0.41	0.2	0.03	-1.41	-0.4	0.79	0.39	-0.4475	-0.07	-0.1875	0.106014	0.809548	0.693268	0.999971	1	0.947174
Cardp1	Q5C886	-1.18	-0.85	-0.96	-1.35	-1.2	-1.69	-0.64	-1.24	-0.68	-0.75	-1.35	-1.31	-0.21	-1.23	-1.01	1.65	-0.1325	0.0825	0.035	0.616502	0.718196	0.91366	0.999971	1	0.992621
Card1	D3YU1P	-0.15	0.1	0.56	0.51	0	0.02	0.79	0.32	-0.1	-0.25	0.34	0.29	-0.12	0.08	0.24	0.04275	-0.185	-0.145	0.918804	0.465438	0.532209	0.999971	1	0.910609	
Cardm1	D3Z030	-1	-0.99	-1.06	-1.02	-0.94	-1.06	-0.89	-0.66	-0.78	-0.53	-0.73	-0.75	-1.01	-0.87	-0.8	0.07225	-0.3425	0.16	0.654548	0.058013	0.347288	0.999971	1	0.864164	
Cardm2	S00H18	0.17	-0.34	-0.65	-0.91	-0.64	-0.5	-0.84	-0.66	-0.49	-0.33	-0.68	-0.61	0.25	-0.27	-0.6	-0.82	-0.0275	-0.095	0.0725	0.923477	0.720198	0.825718	0.999971	1	0.976715
Cardm3	Q3UF08	-0.61	-0.5	0.69	-1.28	-0.37	-0.7	-0.33	-0.51	0.04	-0.21	-0.96	-0.42	-0.54	-0.5	-0.2	0.74	0.125	0.32	0.1075	0.586839	0.411869	0.768878	0.999971	1	0.959447
Cardm1	Q8OU1Y	4.48	1.47	2.06	1.18	0.07	1.77	2.27	1.45	1.43	1.39	1.7	1.64	-0.85	0.78	0.17	0.35	-0.9075	-0.38	-2.435	0.183172	0.63572	0.005726	0.999971	1	0.582734
Card1	Q9ER72	0.69	1.66	1.08	0.73	1.39	1.31	1.14	1.54	1.22	1.39	1.73	1.29	1.33	0.71	0.92	0.0275	0.43	0.0225	0.930729	0.135348	0.93688	0.999971	1	0.995618	
Card2	O8RYN8	0.04	0.48	0.12	0.26	0.53	0.15	-0.48	0.12	0.75	0.28	0.3	0.19	0.4	0.2	0.14	-0.145	-0.155	-0.1075	0.573637	0.461328	0.927019	0.999971	1	0.99417	
Cardp	P53385-2	-0.69	-0.30	-0.88	-0.42	-1.52	-1.13	-0.62	-0.47	-1.22	-0.72	-0.29	-0.68	-0.32	-1.27	-0.13	0.0225	-0.127	0.7275	0.819339	0.483405	0.405674	0.999971	1	0.989971	
Card1	Q8XW3	2.1	1.62	1.16	0.88	1.64	1.72	1.63	1.94	1.9	1.11	1.59	1.55	0.38	1.32	1.51	-0.09	-0.035	0.625	0.666612	0.877931	0.044891	0.999971	1	0.710102	
Card1	Q7TN73	0.91	1.18	0.16	-0.07	0.9	1.35	-0.57	0.7	0.98	0.9	0.25	0.59	0.1	2.05	0.67	0.91	0.05	0.135	0.3875	0.915856	0.690719	0.421978	0.999971	1	0.877992
Cask	1A1U45	-0.9	-0.67	-2.47	-1.35	-1.05	-1.09	-2.93	-1.57	-0.37	-3.86	-2.43	-0.49	0.86	-1.28	-2.78	-3.44	0.04775	0.1	0.9775	0.584511	0.916875	0.371702	0.999971	1	0.869526
Cask.1	Q70589	-1.62	-1.73	-1.09	-1.01	-1.54	-1.73	-0.93	-1.03	-1.59	-1.05	-0.84	-1.38	-1.48	-1.06	-0.89	0.05	0.01	0.16	0.840507	0.987425	0.355052	0.999971	1	0.910707	
Caskm1	Q6P9C8	-0.61	-1.57	-0.74	-0.74	-0.74	-0.71	-0.71	-0.95	-1.48	-0.85	-0.81	-1.17	1.4	-1.54	-1.06	0.19	-0.2375	-0.1625	-0.31	0.443274	0.569955	0.287524	0.999971	1	0.946941
Caskm2	Q8VHK1	-1.16	0.23	-0.06	-0.35	0.34	-0.57	-0.35	-0.35	0.33	-2.19	-0.08	-0.08	-0.06	-0.59	-0.34	-0.18	0.1025	-0.17	0.0725	0.771264	0.774193	0.825898	0.999971	1	0.976757
Casp1	P23452	-0.76	-0.99	0.04	0.62	-0.79	-0.35	-0.43	0.66	-0.84	0.04	0.73	0.57	-0.4	-0.93	0.3	0.045	0.235	0.1575	0.920886	0.612917	0.738362	0.999971	1	0.959976	
Casp1	P97677	-0.6	0.21	0.09	-0.03	0.35	0.31	0.07	0.2	0.52	0.49	0.41	-0.38	0.59	0.71	0.2	0.65	0.295	0.4425	0.695	0.221371	0.19722	0.022894	0.999971	1	0.652043
Casp2	O08738	-1.9	1.16	0.81	0.34	2.35	2.55	0.27	0.64	2.54	2.48	-0.15	0.05	1.1	-1.6	0.62	0.66	0.29	0.0675	0.0825	0.642922	0.527852	0.978655	0.999971	1	0.985412
Casp7	P97864	2.01	1.05	0.54	0.56	1.26	0.66	0.13	0.43	0.83	0.91	0.35	-0.11	-0.49	0.7	0.43	0.43	-0.42	-0.295	-0.7725	0.309097	0.565979	0.087848	0.999971	1	0.765196
Casp8	A0A087WC	1.31	-1.42	1.31	1.89	-1.23	-1.59	1.18	1.69	-1.15	-3.03	0.82	1.57	-2.46	-1.72	1.8	0.66	0.3425	-0.1175	-0.05	0.788561	0.932937	0.970404	0.999971	1	0.998787
Casp2	E92627	1.01	0.95	0.07	1.5	0.34	0.7	0.38	-0.13	-0.78	0.82	1.06	-0.28	-0.37	0.14	0.1	0.58	-0.56	-0.6775	-0.77	0.126237	0.194809	0.650278	0.999971	1	0.727376
Cast	Q8C281	0.73	0.94	0.81	1.09	1.37	0.54	0.93	0.58	0.83	0.31	0.5	1.11	1.05	0.79	0.07	0.86	-0.0375	-0.205	0.05	0.876132	0.302631	0.764365	0.999971	1	0.966376
Cast2	Q8CA88	1.1	0.86	0.17	-0.25	0.75	1.46	0.3	0.36	0.76	1.13	0.51	0.27	0.77	1.12	0.29	0.95	0.2475	-0.1975	0.3125	0.533085	0.580248	0.586435	0.999971	1	0.871816
Cat	P24270	-0.54	-0.89	-0.8	-0.79	-0.57	-0.41	-0.36	-0.33	-0.48	-0.37	-0.36	-0.83	-0.48	-0.73	-0.65	-0.67	0.3375	0.245	0.1225	0.082472	0.225048	0.495112	0.999971	1	0.901531
Cat1	P49817	-0.1	-0.51	0.32	0.33	3.71	0.71	0.84	-0.56	1.09	0.64	1.52	2.84	-0.87	-0.15	0.76	-0.3	1.165	1.5125	-0.15	0.184034	0.01167	0.694079	0.999971	1	0.947174
Cavm1	O54724	0.16	-0.16	-0.01	0.78	2.15	0.88	-0.07	-0.38	0.2	1.25	0.76	1.57	0.8	0.1	0.35	0.32	0.15	0.7525	-0.2	0.594849	0.000212	0.557793	0.999971	1	0.915051
Cavm2	Q63918	0.6	0.27	0.29	0.69	0.16	0.83	0.78	0.78	0.67	0.77	0.89	-0.78	0.06	0	0.21	0.29	0.23	0.08	-0.6825	0.65154	0.384311	0.096528	0.999971	1	0.959128
Cavm3	O5V172	1.95	0.67	-0.26	1.51	6.48	2.08	0.96	-0.1	2.5	0.43	2.57	3.74	-0.29	1.42	0.88	0.36	1.3875	2.2425	-0.375	0.320098	0.003807	0.505895	0.999971	1	0.969702
Charp	Q66144	1.67	-0.84	-0.5	-0.63	-1.41	-0.14	-0.34	-0.38	-1.13	-1.01	-0.41	-1.07	-1.03	0.1	-0.91	-0.55	-1.19	-0.5	-0.5625	0.451904	0.35414	0.355986	0.999971	1	0.868793
Charp.1	P9U606	-0.52	-0.34	-3.06	-3.35	-4.79	-2.52	-1.79	-1.49	-1.79	-2.72	-1.83	-5.5	-5.71	-2.47	-3.12	0.1	0.86	-1.3825	0.915431	0.274877	0.203879	0.999971	1	0.816167	
Chf2a12	A2A4D9	2.89	1.5	3.15	2.86	2.4	2.56	3.1	3.28	3.32	3.39	3.35	3.44	1.17	2.61	2.61	2.63	0.0275	-0.045	0.550908	0.996712	0.91377	0.999971	1	0.999971	
Chf	Q08024-2	-1.23	0.27	0.2	0.67	0.71	0.29	-0.18	0.71	0.17	0.01	0.18	-0.1	0.42	0.68	0.82	0.67	0.405	0.0875	0.67	0.368658	0.828283	0.125421	0.999971	1	0.78268
Cbl	P22682	-0.12	-0.01	0.04	-0.21	0.01	-0.17	-0.42	-0.26	-0.11	-0.5	-0.33	-0.19	0.2	-0.02	-0.11	-0.38	0.075	-0.2075	-0.0025	0.722904	0.260882	0.989802	0.999971	1	0.99925
Cbl	89K1K5	0.65	-0.93	0.29	-0.39	-0.31	-0.44	-0.51	0.11	-0.2	0.2	-0.84	-0.94	0	0.05	-0.47	0.09	-0.1925	-0.35	0.0125	0.603327	0.416655	0.972737	0.999971	1	0.99925
Cblm1	E9D414	-0.18	0.16	0.02	0.35	-0.13	0.05	0.97	0.47	0.4	0.61	0.09	-0.1	0.12	0.02	-0.12	-0.2875	0.538738	0.473327	0.455817	0.999971	1	0.999971	1	0.999971	
Cblm1	Q9R171	0.7	-0.48	-0.99	-0.85	-0.53	0.06	-0.01	-0.45	0.13	0.87	-0.52	-1.92	-0.59	0.63	-0.62	0.76	0.1725	0.045	0.07	0.663695	0.943434	0.881499	0.999971	1	0.986007
Cblm4	Q88M69	0.92	1.71	-0.14	-0.28	0.82	1.54	-0.32	0.01	1	0.35	0.12	0.01	1.17	2.54	-0.29	0.09	-0.04	-0.12825	0.325	0.944521	0.707932	0.650867	0.999971	1	0.999971
Clr1	P48758	0.5	-0.11	0.42	0.11	0.14	0.48	1.15	0.26	0.41	0.02	0.09	0.29	0.04	0.24	0.36	-0.23	0.2775	-0.0275	-0.1275	0.337183	0.896914	0.582907	0.999971	1	0.920364
Clr2	P80874	-0.14	-0.48	-0.47	-0.21	3.11	0.76	-0.52	-1.97	2.12	0.82	0.53	1.94	0.2	0.38	0.09	-1.13	0.43	14.375	-0.11	0.68132	0.007871	0.78224	0.999971	1	0.956041
Clr3	Q8C354	0.09	0.49	0.04	-0.22	0.4	0.6	0.1	0.32	0.27	0.25	0.12	0.25	0.1	0.12	0.25	0.11	0.270331	0.05	0.04	0.617861	0.46742	0.999971	1	0.999971	
Clr4	Q91V14	-0.14	-0.91	-0.02	-0.48	-0.57	-1.28	-0.08	-0.09	-0.47	-0.96	0.02	0.12	-0.46	-0.87	-0.07	-0.57	0.1325	0.135	0.145	0.715751	0.373895	0.836543	0.999971	1	0.93301
Clw	Q51W79-2	0.58	-0.17	0.11	0.41	0	0.16	0.08	-0.13	0.32	0.76	0.15	-0.05	0.39	0.06	0.19	0.58	-0.205	0.0625	0.0725	0.364583	0.81057	0.759762	0.999971	1	0.961116
Cbs1	Q8VH6	-1.36	-0.17	-0.9	-0.65	-0.11	-0.36	-0.64	-0.46	-0.08	-1.17	-0.56	-0.28	-0.29	-0.17	-0.83	-0.43	0.3775	0.245	0.34	0.200868	0.473409	0.70482	0.999971	1	0.847394
Cbs1	P83917	0.12	0.15	0.12	0.39	0.12	0.68	0.14	0.18	0.12	0.24	0.25	0.29	0.1	0.21	0.1	0.42	0.15	0.04	0.325	0.445708	0.450013	0.70027	0.999971	1	0.95128
Cbs3	Q9OC5	0.85	-0.57	0.16	0.37	0.25	0.38	-0.39	-0.17	0.58	0.44	-0.32	-1.18	0.22	0.34	0.28	0.36	-0.47	-0.3575	-0.1875	0.094455	0.224788	0.373226	0.999971	1	0.869526
Cbs5	P61686																									



Cdc42bpb	Q7T750	-0.09	0.12	0.07	-0.22	0.15	0.2	0.25	-0.14	0.42	0.1	0.31	0.23	0.34	-0.01	-0.16	-0.37	0.145	0.295	-0.02	0.446659	0.123815	0.926187	0.999971	1	0.99401	
Cdc42ap1	AD0K0405	-1.41	-0.27	-0.86	-1.36	-1.11	-1.17	-1.46	-1.81	-1.19	-1.69	-2.1	-1.35	-0.81	-1.25	-1.32	-1.49	-0.3	-0.495	-0.13	0.267258	0.105275	0.611108	0.999971	1	0.92673	
Cdc42ap2	Q8KZ8	-0.84	-0.27	-0.8	-1.17	-0.88	-1.71	-1.66	-1.44	-0.34	-0.76	-0.75	-0.52	0.3	-1.85	-1.71	-0.51	0.16	-0.66	0.225	0.075	0.20767	0.620166	0.987193	0.999971	1	0.963531
Cdc42ap4	Q9JM96	0.15	-0.39	-0.44	-0.34	-0.23	-0.67	0.2	-0.5	-0.2	-0.13	-0.26	-0.08	-0.19	-0.83	-0.71	-0.35	-0.045	-0.175	-0.265	0.88155	0.538858	0.28233	0.999971	1	0.844538	
Cdc42ap2	Q8BHG47	-0.16	-1.15	-0.69	-1.11	-0.79	-1.15	-1.49	-1.31	-1.11	-0.56	-1.26	-0.91	-0.71	-1.05	-1.17	-0.58	-0.4075	-0.1825	-0.1	0.180253	0.530366	0.725604	0.999971	1	0.956041	
Cdc5	Q6A068	0.09	0.16	-0.06	-0.37	0.42	-0.15	0.27	-0.65	0.37	0.05	-0.42	-0.53	0.16	0.29	-0.53	0.58	0.0175	-0.0785	-0.12	0.595471	0.738408	0.663247	0.999971	1	0.936388	
Cdc7	Q8JZM7	-0.73	0.58	0.66	0.63	0.47	0.32	0.66	0.93	0.52	-0.77	0.77	0.77	0.19	0.69	0.68	0.42	-0.145	-0.075	-0.195	0.484338	0.919480	0.396447	0.999971	1	0.960218	
Cdh10	P70408	-0.81	-1.16	-0.95	-0.92	-1.22	-0.96	-0.41	-0.76	-1.29	-0.68	-0.62	-0.65	-1.37	-0.99	-1.01	-0.49	0.1225	0.15	-0.005	0.590976	0.497425	0.982838	0.999971	1	0.99925	
Cdh11	P53288	-1.08	-1.06	-1.04	-1.02	-1.19	-1.08	-1.05	-0.86	-1.11	-0.97	-0.95	-0.72	-1.73	-1.19	-1.43	-1.37	0.005	0.1125	-0.38	0.762627	0.510602	0.067118	0.999971	1	0.733937	
Cdh12	Q5RHJ3	-0.96	-0.36	-0.74	-0.45	-0.89	-1.02	-1.1	-0.75	-0.88	-0.87	-0.7	-0.24	-1.09	-0.68	-1.32	-0.53	-0.3125	-0.045	-0.2775	0.159809	0.848574	0.292644	0.999971	1	0.847402	
Cdh13	Q9VHT5	-0.83	-1.15	-1.74	-1.36	-1.17	-1.46	-1.14	-1.38	-1.21	-1.36	-1.1	-1.24	-1.18	-1.06	-1.06	-1.06	-0.225	-0.075	0.1875	0.359579	0.739445	0.855519	0.999971	1	0.963531	
Cdh19	Q9V506	-0.26	-0.64	-1.15	-1.47	-0.39	-0.64	0.16	-1.26	-0.08	-0.31	-0.54	-0.64	-0.65	-1.35	-0.20	-0.75	0.1735	-0.7775	0.336868	0.364377	0.895163	0.999971	1	0.732688		
Cdh19	E9Q347	-0.61	-1.58	-0.72	-0.99	-1.48	-1.46	-1.2	-1.04	-1.65	-1.34	-0.98	-1.57	-1.28	-1.26	-1.18	-1.06	-0.22	-0.31	-0.12	0.509362	0.376714	0.707981	0.999971	1	0.950182	
Cdh2	Q3Y7T0	-1.02	-1.21	-1.2	-1.15	-1.07	-0.9	-1.18	-1.13	-1.03	-1.2	-1.32	-1.08	-1.23	-1.06	-1.54	-1.13	0.075	-0.0125	-0.095	0.606005	0.94045	0.613711	0.999971	1	0.927364	
Cdh20	Q9Z043	-0.29	0.61	-1.33	-1.73	-0.51	0.77	-0.47	-1.03	-0.67	0.42	-0.78	-1.2	-1.04	0.81	-1.19	-1.28	0.375	0.145	0.01	0.551294	0.801226	0.987878	0.999971	1	0.99925	
Cdh22	Q9VHT5	-0.75	-0.17	-0.15	-0.52	-0.49	-0.12	0.54	-0.24	-0.93	-0.72	-0.11	0.63	-0.91	-1.69	-0.39	-1.29	0.8575	0.27	0.205	0.247057	0.793706	0.748554	0.999971	1	0.991405	
Cdh23	P93038	-1.77	-1.92	-0.36	-0.37	-1.51	-1.71	-0.47	-0.49	-1.7	-1.34	-0.42	-0.15	-2.25	-1.87	-0.83	-1.01	0.06	-0.205	-0.385	0.945512	0.70024	0.455533	0.999971	1	0.882717	
Cdh5	P52844	0.41	0.49	0.34	0.1	0.74	0.54	0.07	0.12	0.81	-1.18	0.62	0.76	0.88	0.6	-0.01	-0.0125	-0.22	-0.385	0.971606	0.490218	0.326969	0.999971	1	0.856472		
Cdh6	P97326	-1.02	-1.28	-2.47	-2.35	-1.32	-1.66	-2.6	-2.56	-1.41	-1.13	-2.06	-2.54	-1.21	-1.43	-2.96	-2.61	-0.255	-0.000	-0.2725	0.581283	0.991281	0.60597	0.999971	1	0.926469	
Cdh7	Q8BMS2	-2.28	-2.57	-1.02	-1.58	-2.23	-2.57	-0.68	-1.48	-2.32	-2.16	-0.86	-0.40	-1.99	-2.4	-1.68	-1.36	0.1225	0.4115	0.045	0.80885	0.451177	0.906712	0.999971	1	0.991405	
Cdh9	P97291	-1.13	-0.72	-1.08	-1.83	-0.2	-0.66	-1.34	-1.08	-0.39	-1.04	-0.86	-0.64	-0.08	-1.06	-1.81	-1.66	0.37	0.55	0.0375	0.290323	0.115701	0.930695	0.999971	1	0.994744	
Cdh9	F8WHU6	-1.12	-0.97	-1.32	-1.01	-1.15	-0.74	-0.3	-1.08	-0.99	-1.01	-1.19	-0.71	-1.14	-0.88	-1.05	-0.91	0.2875	0.28	0.11	0.253198	0.240407	0.545379	0.999971	1	0.911398	
Cdip1	Q90875	-0.45	0.85	1.25	1.27	0.49	0.21	1.35	0.69	0.11	1.02	-0.12	-0.94	0.29	-0.15	0.41	0.23	-0.2775	-0.7	-0.5225	0.594763	0.208847	0.217317	0.999971	1	0.826893	
Cdip2	Q9VD96	-0.96	0.65	0.69	0.56	-0.08	1.13	0.55	0.94	-0.11	-0.48	0.93	-0.27	-0.4	1.39	0.58	0.79	0.4	-0.1525	0.355	0.336561	0.748432	0.489385	0.999971	1	0.898346	
Cdip1b	A2AP95	0.49	0.82	1.34	1.39	1.73	1.47	0.6	0.99	1.5	0.8	1.32	1.49	1.59	1.5	1.07	1.24	-0.0625	0.0175	0.09	0.863995	0.556884	0.71329	0.999971	1	0.963498	
Cdip3	Q69Z41	0.02	-2.15	-0.77	-0.85	-1.75	-2.95	-0.08	-1.22	-2.61	-1.35	-0.19	-0.52	-0.31	-2.14	-1.07	-1.81	-0.5625	-0.23	-1.145	0.414635	0.720847	0.808365	0.999971	1	0.755254	
Cdip4	Q35495	-1.18	0.21	0.09	-1.19	1.02	0.6	0.83	-0.89	-0.37	0.37	0.69	-1.47	-0.24	-0.62	0.73	0.9075	0.855	0.4875	0.117313	0.148589	0.451308	0.999971	1	0.876885		
Cdip5	Q40475	-0.40	-0.26	-0.56	-0.35	-0.51	-0.32	-0.52	-0.68	-0.32	0.13	-0.21	-0.53	0.01	-0.56	-0.88	-0.45	-0.1375	-0.115	-0.1225	0.489794	0.609444	0.626568	0.999971	1	0.930511	
Cdip7	Q8X020	-1.04	-1.28	-0.17	-0.15	-0.31	-0.02	-0.44	-0.13	0.13	-0.14	-0.07	0.17	0.3	0.79	-0.15	0.19	0.475	0.045	0.09	0.6625	0.41812	0.106516	0.999971	1	0.979991	
Cdip8	Q9W049	-0.72	-0.17	-0.74	-0.75	-0.27	-0.33	-0.78	-0.15	-0.15	-0.48	-0.9	-0.48	0.24	0.05	0.05	0.34	0.2125	0.0925	0.595	0.374729	0.700437	0.62633	0.999971	1	0.678474	
Cdip9	Q8BW08	1.6	1.82	1.72	0.94	1.27	1.32	0.33	1.52	1.26	1.49	1.59	1.77	1.32	1.86	1.11	1.24	-0.01	0.0075	-0.1375	0.235539	0.976106	0.620684	0.999971	1	0.929344	
Cdip20	Q9JHU3	1.04	0.64	0.41	0.58	0.19	0.44	-0.21	0.79	0.40	0.75	0.04	0.62	0.1	0.64	-0.43	0.59	-0.365	-0.325	-0.4425	0.197806	0.234839	0.158231	0.999971	1	0.798217	
Cdip21	F2Z8B1	1.99	2.71	2.49	2.06	2.68	2.17	1.94	2.42	1.97	1.94	2.52	1.91	2.27	1.16	1.87	1.16	-0.2075	0.67	-0.62	0.469898	0.471	0.0178854	0.999971	1	0.963531	
Cdip4	E9Q6E4	0.35	1.72	0.98	1.42	1.1	0.8	0.83	1.13	0.46	0.87	0.58	1.38	0.76	1.15	1.37	1.55	-0.1525	-0.299	0.09	0.629351	0.414664	0.79155	0.999971	1	0.968737	
Cdip5	P49615	0.16	-0.05	0.28	0.29	0.47	0.34	0.01	0.21	0.5	0.19	0.03	0.42	0.75	0.66	0.4	0.67	0.0875	0.115	0.45	0.649955	0.554819	0.035167	0.999971	1	0.69205	
Cdip5r1	P16809	-0.31	0.13	0.53	0.38	0.03	0.33	-0.41	0.39	-0.03	-0.06	0.01	0.42	0.7	0.39	-0.01	0.87	-0.0975	-0.0975	0.305	0.724771	0.690553	0.296221	0.999971	1	0.847402	
Cdip5r2	Q35926	-0.18	0.25	0.56	0.54	-0.18	-0.18	-0.67	-0.32	0.17	0.42	0.31	-0.09	-0.24	-0.6	-0.1	-0.0225	0.7899	1.07	-0.0225	0.7899	1.07	0.957328	0.999971	1	0.991405	
Cdip5kap3	Q9JH42	1.14	-0.29	0.19	0.39	-0.02	0.2	-0.17	0.4	-0.18	0.56	0.44	-0.07	-0.08	0.32	0.24	0.43	-0.255	-0.17	-0.113	0.430313	0.624203	0.685743	0.999971	1	0.944874	
Cdip7	AD0A28BYD	2.14	2.65	1.54	1.6	2.71	2.64	1.53	1.69	2.89	2.22	1.35	1.85	2.45	2.27	1.39	1.43	0.16	0.095	-0.0975	0.681719	0.81188	0.792217	0.999971	1	0.969163	
Cdip9	Q9J995	0.54	2.01	1.48	1.54	1.92	1.55	1.45	1.72	1.97	1.02	1.75	1.59	1.94	1.74	1.97	0.23	0.2675	0.19	0.5275	0.420108	0.600899	0.124166	0.999971	1	0.782628	
Cdip11	Q9JW6E2	1.39	1.58	0.29	0.41	1	1.01	0.15	0.35	1.02	0.75	0.61	-0.24	1.65	1.42	0.06	0.18	-0.29	-0.3825	-0.09	0.45714	0.362492	0.854758	0.999971	1	0.981225	
Cdip15	AD0AG2JG	-0.02	-0.63	-0.42	-0.41	-0.62	-0.41	-0.58	-0.7	-0.48	-0.75	-0.44	-0.75	-0.44	-0.75	-0.44	-0.75	-0.44	-0.75	-0.44	-0.75	0.359443	0.88349	0.999971	1	0.963531	
Cdip16	P46144	2.47	0.83	1.74	2.21	1.09	1.02	3.65	0.64	0.97	0.67	1.3	0.92	-0.13	-0.62	0.31	0.69	-0.2125	-0.4875	-1.75	0.763114	0.240724	0.029699	0.999971	1	0.575711	
Cdip21ap	Q8B172	1.87	2.08	1.49	1.66	1.98	2.08	2.04	1.71	1.99	1.57	0.93	1.26	1.04	1.64	1.4	1.06	0.0425	-0.3375	-0.49	0.875242	0.240724	0.059199	0.999971	1	0.725348	
Cdip22	Q80Z72	-0.63	0.73	1.73	2.08	0.73	-0.8	1.61	1.63	0.18	-2.69	2.44	1.93	0.25	0.19	1.41	1.67	-0.185	-0.125	-0.0975	0.805515	0.663439	0.881382	0.999971	1	0.986007	
Cdip2	A2AH71	1.07	1.76	0.33	0.89	0.4	0.55	0.28	0.61	0.54	0.67	0.62	0.34	0.64	1.59	1.52	0.16	0.45	-0.2075	-0.4025	0.143731	0.075434	0.20154	0.999971	1	0.963531	
Cdip5	P9B191	0.6	0.23	-0.4	-0.54	-0.22	0.32	0.18	-0.09	0.13	0.73	-0.3	-0.27	0.29</													

Cla2b2	C90I187	-0.04	0.49	0.08	0.45	0.51	0.02	-0.48	-0.39	0.35	-0.14	0.53	0.55	-0.15	0.21	0.19	0.67	-0.33	0.00775	-0.015	0.254787	0.746214	0.951198	0.999971	1	0.998056	
Cla2b3	O77MMW6	0.95	0.28	-0.03	-0.46	0.09	0.06	-0.19	-0.17	-0.11	0.36	-0.16	0.35	-0.11	-0.15	0.16	-0.09	-0.2775	-0.079	-0.2325	0.452407	0.81948	0.461712	0.999971	1	0.890095	
Cla2b1	Q8N7Y14	-0.92	1.13	0.92	1.13	0.92	1.17	1.13	0.76	1.07	1.17	1.31	0.91	1.2	1	1.35	0.07	-0.3625	0.3375	0.744481	0.117752	0.10228	0.999971	1	0.828257		
Cla1	AOA001RP	-0.01	-0.86	-1.23	-0.31	-0.17	-0.3	-1.33	-1.52	-0.58	0.04	-1.62	-1.06	-0.13	-0.32	-1.82	-0.57	-0.2275	-0.2025	-0.175	0.590035	0.632006	0.808037	0.999971	1	0.973362	
Cla1c	Q8B2P22	0.61	-0.56	0.89	0.8	0.32	0.1	0.95	0.85	0.01	0.34	1.02	0.53	-1.05	-0.04	0.57	0.17	-0.04	0.305	-0.5225	0.925695	0.927591	0.267322	0.999971	1	0.842677	
Cla1c	O924A42	2.38	2.56	2.56	3	2.25	1.99	1.9	2.57	2.45	2.53	1.38	1.98	1.3	2.13	2.06	2.27	-0.5975	-0.5525	-0.685	0.01662	0.102004	0.031537	0.999971	1	0.678474	
Cla1c	P6B2B41	2.15	0.98	1.05	0.84	0.23	0.95	1.46	0.71	0.67	0.48	0.41	0.81	0.19	0.43	0.97	0.11	-0.3325	-0.59	-0.9775	0.352697	0.113722	0.03242	0.999971	1	0.700838	
Cla1d	Q91W50	-0.64	0.58	0.04	0.55	0.91	0.74	2.03	0.31	1.66	0.46	0.41	1.63	2.16	0.69	0.24	-0.8	0.865	0.9075	0.44	0.074933	0.059837	0.483003	0.999971	1	0.896345	
Cla1d	O95C085	-0.16	0.1	0.27	0.16	0.23	0.23	-0.04	0.32	0.12	0.1	0.39	0.45	0.39	0.41	0.68	0.16	0.0825	0.1725	0.3175	0.626359	0.375882	0.138598	0.999971	1	0.784948	
Cla1d	Z4YKMW2	1.09	1.05	1.18	0.98	0.76	1.17	1.32	0.99	0.63	1.32	1.1	1.76	0.98	1.41	1.06	0.89	0.105	0.1475	0.03	0.646131	0.57792	0.876703	0.999971	1	0.985129	
Cla1	Q92C53	-0.62	-0.82	-1.31	-0.82	-1.17	-1.13	-0.77	-0.16	-0.17	-0.16	-0.17	-0.16	-0.17	-0.16	-0.17	-0.16	-0.17	-0.16	-0.17	-0.16	-0.17	-0.16	-0.17	0.999971	1	0.970455
Cla1	Q3JUVU0	0.38	-1.4	1.34	0.98	-2.21	-1.19	0.02	1.21	-0.32	-0.48	-0.63	0.02	-0.44	0.08	-0.01	0.14	-0.1575	-0.077	0.6375	0.858841	0.488844	0.933586	0.999971	1	0.863246	
Cla4p	Q8B8M4	0.85	0.5	0.22	0.46	0.63	0.19	0.64	0.44	1.09	0.87	1.01	0.89	0.96	0.28	0.24	0.77	-0.0325	0.4575	0.055	0.879645	0.042121	0.826004	0.999971	1	0.976757	
Cla5p	AOA004X0	-0.3	-0.63	-0.51	-0.61	-0.47	-0.6	-0.51	-0.52	-0.45	-0.5	-0.44	-0.39	-0.53	-0.65	-0.41	-0.39	-0.0125	0.0675	0.0175	0.941948	0.688539	0.932207	0.999971	1	0.993609	
Cla5p	Q30447	-0.25	0.29	0.41	0.37	-0.12	-0.19	-0.07	-0.33	-0.25	-0.75	-0.21	-0.07	-0.31	-0.06	0.26	0.32	-0.2175	-0.25	-0.1525	0.358291	0.055316	0.536883	0.999971	1	0.910107	
Cla1	AOA002PW	-1.2	1.1	4.35	1.83	0.89	0.41	2.72	1.32	1.74	1.43	1.66	2.44	0.81	0.64	1.62	1.29	-0.39	-0.2575	-0.8525	0.738875	0.073466	0.458803	0.999971	1	0.887127	
Cla1b	P30275	-0.25	-0.62	0.23	0.13	-0.88	-0.53	0.04	0.16	-0.78	-0.56	0.04	0.01	-0.55	-0.33	0.13	0.36	0.175	-0.195	0.03	0.582362	0.510718	0.919044	0.999971	1	0.992633	
Cla1b	Q6B871	1.53	4.15	3.58	3.4	3.01	4.09	2.25	3.66	2.56	2.93	3.07	2.36	2.03	4.42	3.2	1.48	0.0875	-0.2925	0.888851	0.434676	0.682339	0.999971	1	0.943204		
Cla1p	AOA087WF	1.52	1.92	0.63	-1.01	1.18	1.56	-0.1	-0.24	1.16	0.42	0.74	-0.33	1.52	0.37	1.04	0.51	-0.165	-0.2675	-0.425	0.817592	0.686241	0.576835	0.999971	1	0.931894	
Cla1p_2	E90KW0	-0.12	0.19	0.48	0.57	0.79	0.37	0.24	-0.45	-0.43	-0.22	0.01	0.77	0.5	0.88	1.42	0.61	-0.58	-0.27	0.3	0.070507	0.393418	0.072126	0.999971	1	0.840404	
Cla1p_2	AOA087WG	0.02	0.12	0.24	-0.43	0.18	0.17	0.85	-0.45	0.47	-0.14	0.15	0	0.36	-0.27	-0.41	-0.72	0.175	0.1075	-0.2725	0.56425	0.627266	0.337211	0.999971	1	0.858827	
Cla2p	Q0E0E85	1.79	3.81	2.18	2.42	3.02	3.86	2.89	1.61	4.19	4.16	2.91	2.74	5.47	3.37	1.37	2.11	0.295	0.95	0.53	0.616216	0.108768	0.55801	0.999971	1	0.915051	
Cla1p_1	Q0E0E81-5	-0.32	1.8	0.36	0.07	1.01	1.49	-0.15	-0.03	0.97	0.16	0.15	0.31	1.29	1.3	0.04	0.27	0.1375	-0.045	0.2825	0.80883	0.925139	0.999719	0.999971	1	0.92422	
Cla2p_2	Q0E0E8	-0.43	-0.64	-0.76	-0.84	-0.62	-0.6	-0.74	0.2	-0.35	-0.55	-0.55	0.02	-0.78	-0.73	0.65	0.0075	0.255	0.1325	0.566231	0.197074	0.585001	0.999971	1	0.920413		
Cla2p_3	F7DCH5	-0.6	-1.57	-1.35	-0.26	-1.42	-1.26	-0.65	0	-1.08	-0.41	0.19	-0.1	-0.37	-0.78	-0.46	0.51	0.1125	0.595	0.67	0.790645	0.158551	0.119035	0.999971	1	0.78268	
Cla1p	Q8CF7	0.56	-2	-1.41	1.36	-1.46	-2.38	-1.05	0.11	-1.62	-0.11	0.32	-0.17	-1.79	-1.78	0.29	0.16	-0.8225	-0.0025	-0.4075	0.346554	0.977946	0.646518	0.999971	1	0.933613	
Cla1p	O919J2	0.09	-1	-0.32	-0.19	-0.82	-0.71	-0.01	0.2	-0.75	-0.64	-0.02	-0.04	-0.22	-1.13	-0.25	-0.1	0.02	-0.0075	-0.07	0.952966	0.980491	0.832676	0.999971	1	0.979036	
Cla2c	AOA338P6	-0.84	0.07	-0.05	-0.08	0.04	-0.83	-0.61	0.06	-0.28	-0.89	-0.78	-0.62	-0.13	-0.78	-0.51	0.57	0.0425	-0.165	0.890979	0.953476	0.650609	0.999971	1	0.933842		
Cla3	Q8A4W6	-0.57	0.02	-0.75	-0.55	-0.31	-0.8	-1.42	-0.68	-0.09	-0.12	-0.17	-0.24	-0.49	-1.2	-0.73	-0.12	-0.405	-0.3075	0.398108	0.464208	0.980929	0.999971	1	0.981816		
Cla3_1	AOA60GQ7	-0.1	0	0.06	0.03	0.02	0.53	-0.22	0.06	-0.07	0.03	0.16	-0.06	0.29	0.52	0.29	0.34	0.1	0.0175	0.3625	0.63718	0.914228	0.548676	0.999971	1	0.725348	
Cla4c	Q3JRVV6	-0.37	-0.46	-0.77	-0.3	-0.14	-0.36	-0.87	-0.35	-0.5	-0.49	-0.49	-0.28	-0.45	-0.27	-0.23	0.4	0.045	0.3035	0.37375	0.842623	0.849208	0.190423	0.999971	1	0.810547	
Cla5c	O9VWV04	-1.83	-0.86	-0.82	-0.71	-0.84	-1.23	-1.08	-0.43	-1.07	-1.36	-1.28	-1.16	-1.73	-1.03	-1.1	-0.29	0.16	-0.1625	0.0175	0.615727	0.567639	0.963266	0.999971	1	0.998721	
Cla5c	A2J7F6	-0.65	-0.11	-0.35	-0.39	-0.61	-0.27	-0.47	-0.28	-0.43	-0.35	-0.28	-0.15	-0.38	-0.14	0.28	0.14	-0.345	-0.762105	0.348798	0.196013	0.999971	1	0.984044			
Cla7	F65UM42	1.93	0.03	0.21	0.07	0.05	0.32	0.06	0.29	0.39	0.91	-0.11	-0.46	-0.08	-0.62	-0.11	0.12	-0.405	-0.3775	-0.7325	0.36902	0.46552	0.134492	0.999971	1	0.784948	
Cla1c	Q8E851	-1.67	-0.36	1.43	1.32	-0.81	-0.71	0.55	0.45	0.3	-0.91	1.2	1.12	-3.53	-0.06	1.61	1.51	-0.31	-0.2475	-0.2975	0.678137	0.758465	0.812689	0.999971	1	0.974558	
Cla1d10	O92056-6	0.07	0.8	-0.28	0.5	0.64	0.27	-0.3	0.01	1.32	0.06	0.19	-0.11	1.4	-0.15	-0.73	-0.43	0.1125	0.3425	-3.93E-16	0.700294	0.415163	1	0.999971	1	1	
Cla1d11	Q077T1	-0.19	1.89	0.13	1.3	0.98	1.25	1.24	1.13	1.44	0.3	0.19	0.19	0.63	1.42	0.1	0.09	-0.55	-1.1725	0.174567	0.183025	0.020343	0.999971	1	0.986044		
Cla1d12	Q9ET43	-0.21	0.27	1.42	0.96	0.29	1.05	0.54	0.89	-0.25	0.52	0.33	-2.8	0.22	0.98	0.75	0.95	0.0825	-1.16	0.115	0.83032	0.571952	0.766951	0.999971	1	0.962472	
Cla1c	Q920G9-2	4.31	-4.74	-1.67	-1.57	-4.34	1.7	-1.6	-2.88	3.63	7.98	-6.04	-3.33	-5.46	-2.95	-3.19	-3.2	-0.8625	-1.4775	-2.7825	0.671251	0.657094	0.13974	0.999971	1	0.784948	
Cla1c	O54942	4.18	0.41	2.13	3.61	2.02	0.92	3.17	3.17	2.34	3.4	1.49	1.71	-0.89	-0.01	1.89	-0.01	-0.8625	-0.1125	-2.3375	0.351413	0.906418	0.209928	0.999971	1	0.678474	
Cla1c	O92C0X5	-1.48	-0.99	-1	-1.32	-1	-1.04	-0.97	-1.1	-0.93	-1.27	-0.71	-1.16	-0.54	-1.01	-1.5	-1.05	0.17	0.18	0.1725	0.348452	0.415344	0.506952	0.999971	1	0.905775	
Cla1d1	Z4YK1	0.3	0.25	0.04	0.04	0.4	0.4	0.18	0.79	0.1	0.19	0.19	0.19	0.19	0.19	0.19	0.01	0.605307	0.01	0.605307	0.494762	0.963238	0.999971	1	0.986724		
Cla2d	P0C7MM	0.23	0.53	-0.14	0.29	-0.34	0.21	0.13	0.53	-0.13	0.23	-0.04	-0.45	-0.04	0	0.21	0.34	0.105	-0.06	0.165	0.712076	0.816393	0.50174	0.999971	1	0.904573	
Cla1g	P52194	2.02	0.5	0.56	0.83	0	0.54	-0.34	-0.48	0.93	2.18	1.04	0.95	0.41	0.33	0.71	1.32	-0.8075	-0.2805	-0.065954	0.505522	0.484803	0.999971	1	0.896611		
Cla1g	O921205	0.61	0.8	1.43	1.45	0.67	0.7	1	0.93	0.65	0.71	1.11	1.09	0	0.99	1.12	1.33	-0.2475	-0.1925	-0.2275	0.349693	0.988192	0.52885	0.999971	1	0.910609	
Cla1g	O92V81	-0.21	0.25	-0.25	-0.45	-0.31	-0.8	-1.42	-0.68	-0.12	-0.17	-0.31	-0.26	-0.12	-0.27	0.07	0.0375	0.4625	0.013	0.127667	0.981074	0.991013	0.999971	1	0.986724		
Cla5c	AOA668K1	-0.86	0.64	-2.18	-1	0.86	-0.77	-2.62	-2.79	0.63	-1.02	-2.95	-1.24	-0.07	-0.21	-4.19	-0.23	0.045	0.23	-0.35	0.965971	0.815432					

Col18a1	E90PX1	-0.31	0.18	0.81	0.8	4.72	0.95	1.08	-0.24	2	1.47	2.93	4.52	-0.35	0.46	1.28	0.41	1.2575	2.36	0.08	0.224173	0.005915	0.845077	0.999971	1	0.979814
Col19a1	F8WHV4	-0.02	-0.53	0.33	-0.07	-0.62	0.32	0.12	-0.36	-0.84	0.35	0.3	0.52	-0.71	-0.52	-0.13	0.37	-0.0625	0.155	-0.175	0.829652	0.60906	0.569235	0.999971	1	0.91816
Col1a1	P11087	4.31	0.88	3.26	3.39	5.9	2.9	5.53	-0.98	2.23	5.35	2.1	4.69	-0.37	1.77	2.71	1.85	0.3875	0.6425	-3.135	0.801177	0.523457	0.07312	0.999971	1	0.75248
Col2a1	Q01149	1.27	0.54	1.01	0.58	0.53	1.86	0.45	-1.79	2.06	2.98	1.08	2.88	-1.11	1.46	0.62	-1.85	1.5625	1.4	-1.07	0.281547	0.016936	0.156638	0.999971	1	0.796008
Col3a1	V9GWA5	6.71	0.87	1.72	2.32	0.91	1.78	3.48	1.14	1.11	4.18	0.43	0.49	-0.83	-0.95	0.75	0.79	-1.0775	-1.3525	-2.965	0.40492	0.350023	0.30764	0.999971	1	0.700096
Col4a1	P08121	3.77	1.01	3.06	3.71	6.13	2.24	3.59	-0.29	2.85	5.26	6.47	8.76	-2.76	1.43	3.63	-1.64	0.03	2.9475	-7.2225	0.981842	0.40002	0.081388	0.999971	1	0.755254
Col4a1	P03451	1.16	0.55	0.33	1.25	1.3	0.9	0.36	0.01	1.56	2.21	0.95	1.83	0.73	0.37	0.6	0.01	2.99	0.8145	-0.39	0.58445	0.039736	0.157818	0.999971	1	0.812891
Col4a2	P08122	1.74	0.24	1	0.9	2.52	1.13	1.46	0.28	1.05	2.21	1.05	1.77	0.2	0.8	1.26	0.01	0.3775	0.55	-5.0075	0.469418	0.195063	0.262403	0.999971	1	0.842262
Col4a5	063ZW6	2.73	0.73	0.74	0.02	0.36	4.25	5.41	0.48	4.98	4.34	0.96	6.4	5.42	4.91	2.94	-0.56	1.38	2.115	1.1225	0.31344	0.157138	0.469417	0.999971	1	0.892481
Col6a1	Q04857	1.04	1.26	1.02	2.54	5.07	1.48	0.85	-0.01	1.76	3.17	2.54	4.29	-1.09	2.4	2.24	0.45	0.3825	1.475	-0.465	0.175531	0.032992	0.56984	0.999971	1	0.91816
Col6a2	Q02788	0.91	1.13	0.73	2.28	5.07	0.16	0.26	-0.36	2.26	4.84	0.7	1.03	0.77	1.71	1.85	0.3875	0.6425	-3.135	0.801177	0.523457	0.073123	0.999971	0.957886	1	0.91816
Col6a3	J30C16	1.05	0.55	1.08	5.27	1.63	0.57	0.53	-0.93	1.93	3.37	2.24	3.89	-1.02	2.31	1.61	-0.28	0.558	1.8025	-4.4	0.623297	0.005076	0.059465	0.999971	1	0.959555
Col6c12	AD0452J8C	1.08	0.29	0.59	0.87	1.15	0.17	0.59	0.91	0.32	0.6	0.47	1.13	-0.53	0.7	1.02	0.89	-0.0025	-0.075	-0.1875	0.993018	0.770695	0.625863	0.999971	1	0.930479
Col7a1	08KZ97	0.9	0.17	-0.17	0.18	0.46	0.54	-0.29	0.23	0.01	1.02	-0.18	0.32	0.24	0.52	0.02	0.7	-0.035	0.0225	-0.02	0.907318	0.947572	0.949662	0.999971	1	0.989038
Commnd1	08RV86	-0.33	-0.35	-1.15	-0.61	0.4	-0.07	-1.34	-0.92	0.02	0.16	-0.58	-0.59	0.49	0.09	-1.08	-1.66	-0.0725	0.3375	0.07	0.829557	0.270387	0.888102	0.999971	1	0.987465
Commnd2	0812V2	-0.64	0.89	0.49	0.44	0.07	0.35	0.05	0.38	0.78	-0.05	0.33	0.18	1.01	0.82	0.66	0.06	0.1075	0.0175	0.595	0.753932	0.961431	0.105567	0.999971	1	0.78268
Commnd3	088XV6	-0.27	-0.37	-1.44	-0.88	-0.27	-0.27	-0.6	-0.89	-0.47	-0.08	-1.44	-1	-0.3	0.24	-1.18	-0.58	-0.3225	-0.0075	0.285	0.465501	0.984524	0.466686	0.999971	1	0.891477
Commnd4	063Z829	-0.19	0.02	-0.1	0.42	0.2	-0.04	-0.37	0.39	-0.1	0.04	0.15	0.05	0.25	0.59	-0.11	0.71	0.00075	-0.0025	0.3225	0.975377	0.989949	0.227031	0.999971	1	0.828236
Commnd5	Q9C0C2	0.54	1.26	1.45	1.02	1.03	1.37	1.1	1.08	1.23	0.12	1.81	1.3	1.75	1.68	2.15	1.76	0.0775	0.0405	0.7675	0.747875	0.903346	0.031308	0.999971	1	0.613095
Commnd6	AD0A90A	0.46	0.16	-0.03	-0.14	-0.15	0.13	-0.4	0.07	-0.13	0.08	0.07	-0.26	-0.09	0.14	0.01	0.24	-0.205	-0.1775	-0.0425	0.370452	0.402184	0.837718	0.999971	1	0.979416
Commnd7	03V485	-0.18	-0.13	-0.18	0.01	-0.14	-0.14	-0.18	-0.11	-0.29	-0.61	-0.08	-0.07	-0.33	0.35	0.16	0.35	-0.0225	-0.1425	0.2525	0.889533	0.467881	0.259142	0.999971	1	0.839012
Commnd7	088G94	0.56	0.46	0.51	1.01	0.55	0.99	0.04	0.86	0.72	1.28	0.46	0.56	1.1	1.08	0.56	1.29	0.025	0.12	0.3725	0.925309	0.631793	0.141951	0.999971	1	0.784967
Commnd8	08ZC63	0.41	0.4	0.35	-0.18	0.6	0.33	-0.48	-0.13	0.2	0.26	-0.31	-0.03	0.85	0.6	0.09	0.11	0.0825	0.0325	0.415	0.785372	0.892371	0.150658	0.999971	1	0.793248
Commnd9	08KZ00	-1.77	0.03	0.08	-0.29	0.53	-0.45	0.14	-0.38	0.51	-1.6	0.41	0.13	0.82	-0.56	0.32	-0.24	0.4775	0.35	0.5725	0.345196	0.566196	0.2655	0.999971	1	0.842677
Comm9	088S87	-0.67	0.5	0.75	-0.18	0.52	0.51	-0.48	-0.78	0.49	-0.43	-0.63	0.7	0.72	-0.36	0.77	0.4675	0.26	0.5975	0.324767	0.54008	0.281934	0.999971	1	0.833594	
Comm9	088167	1.31	0.44	-0.1	0.24	0.57	0.92	0.69	0.14	0.67	1.28	-0.16	-0.13	0.98	0.67	0.33	0.19	0.1075	-0.0575	0.07	0.751658	0.894666	0.839259	0.999971	1	0.979728
Comm9	F8WHL2	0.79	1.27	1.88	1.69	1.26	0.92	1.76	1.89	1.39	0.97	1.87	1.87	1.31	1.2	1.91	2.06	0.05	0.175	0.2125	0.787947	0.718836	0.51814	0.999971	1	0.905815
Comm9	09197	-0.19	0.34	0.62	0.81	0.06	0.4	0.79	0.69	0.21	0.17	0.58	0.57	-0.53	0.59	0.76	1.04	0.09	-0.0125	0.07	0.753388	0.962954	0.585202	0.999971	1	0.987802
Comm9	055029	0.96	1.75	1.37	1.94	1.53	1.5	1.32	1.21	1.68	0.77	1.13	0.96	1.52	1.39	1.44	0.2225	0.04	0.17	0.346464	0.743713	0.700092	0.999971	1	0.876085	
Comm9	089079	1.17	2.23	1.75	1.6	1.47	2.59	1.16	1.8	1.68	1.96	1.77	1.73	1.48	2.49	1.64	1.22	0.0675	0.0975	0.27	0.857931	0.696284	0.415517	0.999971	1	0.987785
Comm9	09Q0X5	1.1	1.79	2.13	1.39	1.52	1.61	1.74	1.65	1.89	1.37	1.95	1.54	1.55	1.81	2.15	1.91	0.0275	0.0085	0.2525	0.91427	0.761469	0.371357	0.999971	1	0.869526
Comm9	09Q0X34	-0.36	1.2	1.11	0.53	1.46	0.38	1.81	0.85	1.11	-0.6	1.52	1.26	1.24	0.35	1.02	0.5	0.505	0.2025	0.1575	0.279325	0.715891	0.694089	0.999971	1	0.947174
Comm9	09C013	-0.19	0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	1	0.959415
Comm9	P61202-2	-0.46	0.33	-0.25	-0.81	0.68	-0.03	-0.1	-0.54	0.75	-0.62	0.12	0.33	0.87	-0.24	-0.24	-0.78	0.35	-0.4425	0.2	0.321126	0.244595	0.622005	0.999971	1	0.929641
Comm9	088543	-0.06	0.18	1.04	0.57	-0.07	0.32	0.77	0.56	0.17	0.06	0.5	-0.16	-0.19	0.08	0.76	0.45	-0.0375	-0.29	-0.1575	0.920648	0.329066	0.625817	0.999971	1	0.930479
Comm9	088544	-0.41	0.25	0.14	0	0.22	0.12	0.05	-0.13	0.26	-0.23	0.11	0.11	-0.15	0.05	0.01	-0.16	0.07	0.0675	-0.0575	0.741399	0.758298	0.782168	0.999971	1	0.965859
Comm9	035664	0.03	0.16	-0.53	-0.64	-0.15	0.24	-0.31	0.56	0.02	-0.08	-0.74	-0.69	-0.39	0.19	-0.62	0.14	-0.205	0.12	0.15	0.952124	0.515492	0.155646	0.999971	1	0.905815
Comm9	088545	-0.41	-0.19	-0.88	-1.06	0	-0.03	-0.78	-1.08	0.05	-0.18	-1.24	-0.9	0.2	0.22	-1.01	-1.02	0.1625	0.0075	0.1325	0.630563	0.849004	0.714062	0.999971	1	0.952527
Comm9	09Z04-2	0.84	0.78	0.35	0.2	0.63	0.74	0.28	0.23	0.74	0.41	0.51	0.37	0.86	0.55	0.07	0.33	-0.0725	-0.035	-0.09	0.759915	0.87317	0.726215	0.999971	1	0.956041
Comm9	08RV13	0.31	0.34	0.53	0.46	0.62	0.52	0.95	0.64	0.85	0.46	0.87	0.95	0.81	0	0.74	0.62	0.2275	0.3725	0.1325	0.24865	0.072206	0.569426	0.999971	1	0.91816
Comm9	08RV7	0.36	-0.28	-0.12	0.11	0.09	0.08	-0.58	-0.32	0.13	0.56	-0.93	-0.07	-0.41	0.28	-0.23	-0.13	0.2	-0.095	-0.14	0.423375	0.779653	0.538918	0.999971	1	0.915051
Comm9	03U898	0.25	0.22	0.82	0.55	1.23	0.46	0.86	0.27	0.71	-0.13	0.79	0.81	0.27	1.18	2.15	1.48	0.2075	-0.27	-1.45	0.20712	0.010317	0.047738	0.999971	1	0.907012
Comm9	P61924	-0.78	2.03	1.07	0.32	2.9	0.35	1.37	0.64	3.3	-0.5	1.58	2.38	-3.53	-0.23	0.8	0.3	0.655	1.03	0.44	0.388281	0.728661	0.634316	0.999971	1	0.93301
Comm9	091H99	0.91	1.09	1.7	1.84	0.97	1.01	1.45	1.88	0.87	1.18	1.72	1.53	-0.64	1.92	2.54	2.42	-0.0575	-0.31	0.175	0.855367	0.446234	0.804247	0.999971	1	0.971467
Comm9	AD0A10A	1.25	0.62	-0.43	-0.23	0.62	0.6	-0.57	0.08	0.75	1.13	-0.47	0.25	0.71	0.73	-0.27	-0.2	-0.145	-0.0125	-0.06	0.753846	0.880418	0.896373	0.999971	1	0.98828
Comm9	F7C9V2	0.48	1.02	-1.21	-1.35	-1.22	-0.4	-1.24	-1.21	1.68	0.77	1.48	0.4	1.53	-0.45	1.48	0.4	-0.0625	0.540007	0.455921	0.454547	0.999971	1	0.921427		
Comm9	088M54	-1.2	-1.84	-1.9	-1.66	-1.72	-2.34	-1.17	-1.87	-2.3	-1.48	-2.26	-3.28	-1.86	-2.16	-2.2	-2.11	-0.125	-0							

Cvyl1	Q99KP3	-0.03	1.05	0.59	0.14	0.89	0.91	1.1	0.33	1.15	0.23	0.94	0.83	0.25	0.93	-0.06	-0.2	0.37	0.35	-0.2075	0.240288	0.284883	0.552043	0.999971	1	0.913595		
Cvym	Q549H3	-0.02	0.07	0.49	0.68	0.44	0.25	0.67	1.29	0.49	0.27	0.37	0.53	0.11	0.42	1.09	0.61	0.5375	0.11	0.2525	0.241365	0.617424	0.379843	0.999971	1	0.871816		
Cvyr	P47199	-0.08	0.74	0.38	0.52	0.27	0.62	0.72	0.95	0.56	0.74	0.06	0.11	0.19	0.28	0.19	0.04	0.325	0.145	0.135	0.497764	0.70982	0.74644	0.999971	1	0.957874		
Cvyl1	Q921W4	-0.57	0.99	0.25	-0.8	0.77	0.93	0.2	-0.23	0.97	0.53	0.32	-0.01	0.93	0.47	0	-0.76	0.45	0.22	-0.925	0.338601	0.649954	0.704346	0.999971	1	0.950182		
Cvyl2	Q3JUN28	-0.34	-0.69	-1.09	-0.94	-0.57	-0.23	-0.95	-0.17	-0.48	-0.49	-1.4	-1.01	-0.05	0.03	-0.68	-0.86	0.285	-0.08	0.375	0.297915	0.78142	0.121263	0.999971	1	0.826893		
Cvyl2	Q92UJ6	-0.83	-0.95	-0.93	-0.82	-1.15	-1.09	-1.02	-0.77	-1.2	-0.98	-0.95	-0.98	-1.16	-0.84	-0.78	0.63	-1.25	-0.145	0.03	0.486261	0.38653	0.87306	0.999971	1	0.984109		
Cvyl2	Q90B09	-0.23	0.41	0.33	0.24	0.58	0.28	0.04	-0.82	0.66	0.11	0.07	0.16	0.39	-0.1	0.03	0.2	-0.34085	0.791921	0.121263	0.999971	1	0.955448					
Cvyl2	Q91Y03	0.07	0.24	1.78	1.01	0.27	-0.16	0.71	0.43	0.3	0.7	2.07	0.57	0.63	0.42	1.61	1.24	-0.4625	0.135	0.2	0.278606	0.794439	0.658574	0.999971	1	0.934638		
Cvyl2	Q91W50	0.33	1.07	1.2	1.17	0.84	1.12	1.13	1.39	1.1	0.85	1.46	1.38	0.92	1.31	1.41	1.6	0.1775	0.255	0.3675	0.498487	0.353241	0.197928	0.999971	1	0.813335		
Cvyl1	Q9R6K4	-0.03	0.71	1.01	0.58	0.79	0.64	0.98	0.56	0.91	0.18	0.93	1	0.67	0.48	0.84	0.7	0.16	0.1725	0.09	0.530083	0.558072	0.717387	0.999971	1	0.952711		
Cvyl1	P05S81	-0.02	0.15	0.61	0.74	0.12	0.12	0.17	0.67	0.73	0.78	0.38	0.11	0.7	0.18	0.91	0.20	-0.005	0.435	0.157429	0.490552	0.180347	0.999971	1	0.871816			
Cvyl1	P41241	-0.8	0.32	-0.81	-0.96	-0.21	-0.39	-0.17	-0.71	-0.13	-0.5	-0.63	-0.34	-0.04	-0.01	-0.42	0.17	0.03728	0.160077	0.060834	0.9325			0.999971	1	0.973937		
Cvyl1	Q80X68	-0.61	-0.78	0.36	-0.44	-0.83	-1.22	-1.08	-0.51	-0.53	-1.18	2.54	1.66	-0.42	-1.26	-0.05	-1.41	-0.0025	-0.09	-0.4175	0.996166	0.252191	0.308569	1	1	0.847402		
Cvyl1	Q923L3	0.08	-0.44	-0.4	-0.36	-0.58	-0.47	-0.83	-0.18	-0.48	-0.34	-0.29	-0.21	-0.14	-0.85	-0.06	-0.03	-0.235	-0.05	0.01	0.307881	0.795747	0.968766	0.999971	1	0.998787		
Cvyl2	V90X34	-0.25	-0.43	-0.77	-0.68	-0.48	-0.39	-0.43	-0.72	-0.59	-0.4	-0.5	-1.08	0.02	-0.55	-0.72	-0.58	0.0275	-0.11	0.075	0.889999	0.631683	0.752283	0.999971	1	0.961116		
Cvyl2	EP9W10	-0.01	-0.15	0.81	0.33	0.24	0.58	0.28	0.04	-0.59	-0.57	-0.22	0.04	-0.88	-0.99	0.12	-0.03	-0.48	-0.65	0.135	-0.185	0.0675	0.561204	0.535324	0.803229	0.999971	1	0.971467
Cvyl2	Q90467	-0.24	1.23	1.17	1.23	0.65	1.97	2.29	0.04	1.44	2.69	-0.29	0.04	2.7	-1.74	0.05	-0.3	0.37	0.1225	-0.67	0.542138	0.862084	0.459791	0.999971	1	0.889706		
Cvyl1	Q88K63-2	-0.6	-0.21	-0.1	-0.12	-0.12	-0.01	-0.37	0.02	-0.22	-0.37	0.26	0.2	0.39	0.02	0.17	0.37	0.1425	0.25	0.495	0.489868	0.340545	0.305188	0.999971	1	0.69205		
Cvyl1	Q90C2B-2	1.17	-1.19	-0.59	-0.81	-1.62	-1.35	-0.23	-1.03	-0.95	1.58	-0.25	0.13	-1.74	-0.92	-0.14	-0.38	-0.7025	0.4825	-0.44	0.22615	0.485041	0.455221	0.999971	1	0.887217		
Cvyl1	Q90C2B	-0.51	-0.54	-0.32	-0.37	-0.58	-0.66	-0.24	-0.19	-0.54	-0.85	-0.18	-0.89	-0.33	-0.56	-0.21	-0.04	0.0175	-0.18	0.15	0.527979	0.414303	0.38792	0.999971	1	0.883105		
Cvyl1	Q9IMK2	-0.27	-0.15	-1.25	-1.22	-0.26	-0.4	-0.76	-1.56	-0.64	-0.21	-1.05	-0.9	0.2	-0.49	-1.31	-0.78	-0.1575	-0.0075	-0.0075	0.728177	0.98665	0.987113	0.999971	1	0.99925		
Cvyl1	Q9A0U1RP	0.89	-1.45	-0.83	-0.81	-1.03	-1.91	-0.31	-1.01	-1.04	-1.24	-0.79	-1.21	-0.89	-1.77	-1.15	-0.47	-0.075	-0.075	0.843317	0.737342	0.812648	0.999971	1	0.974548			
Cvyl1	Q90778	0.83	-0.07	-0.54	-0.28	-0.33	0.39	-0.87	-0.65	-0.44	0.84	-0.7	-0.79	-0.15	-0.75	-1.06	-0.37	-0.35	-0.2575	-0.5675	0.379789	0.57387	0.135148	0.999971	1	0.784848		
Cvyl1	Q8C402	-1.52	-0.83	-2.07	-1.99	-0.99	-1.18	-2.07	-0.97	-0.93	-1.63	-2.04	-2.13	-2.74	-1.27	-1.99	-2.28	0.05	-0.08	0.0325	0.895452	0.833999	0.393241	0.999971	1	0.959609		
Cvyl1	Q92K67	-0.99	-1.01	-0.7	-0.78	-0.76	-1.06	-0.82	-0.61	-0.85	-0.86	-0.6	-0.61	-0.32	-0.91	-0.91	-0.62	0.0575	-0.14	0.18	0.761783	0.441844	0.404524	0.999971	1	0.87384		
Cvyl2	Q54833	-0.98	-0.43	-0.46	-1.05	-0.07	-0.6	-0.29	-0.73	-0.12	-1.37	-0.01	0.21	0.39	-1.06	-0.31	-0.94	0.3075	0.4075	0.25	0.239792	0.299681	0.497484	0.999971	1	0.902655		
Cvyl2	P67871	-0.39	0.01	-0.15	-0.15	0.15	0.15	0.15	0.09	0.39	-0.49	0.01	0.08	1.07	-0.07	-0.21	-0.1	0.23	0.1675	0.3425	0.231092	0.479707	0.795011	0.999971	1	0.847402		
Cvyl2	Q89YH0	-0.07	-0.88	-1.38	-1.01	-0.21	-0.89	-1.29	-1.22	-0.4	-0.42	-0.97	-0.48	-0.39	-0.57	-1.04	-0.8	0.1325	0.4525	0.335	0.846475	0.051383	0.163622	0.999971	1	0.800215		
Cvyl2	Q71M46	-0.29	0.39	0.35	0.84	-0.27	-0.35	-0.21	-0.58	-0.37	-0.28	-0.63	-0.28	-0.39	-0.57	-1.04	-0.8	0.1325	0.4525	0.02	0.309188	0.983839	0.969837	0.999971	1	0.998787		
Cvyl2	Q71M36	-1.05	0.36	-0.58	-0.65	-0.31	0.17	-0.76	-0.43	0.22	-0.08	-0.42	-0.52	0.71	0.12	-0.4	0.04	0.1475	0.28	0.5975	0.674152	0.410034	0.29945	0.999971	1	0.784848		
Cvyl1	D32738	0.08	0.78	0.84	0.16	-0.29	-1.07	0.33	1.28	-0.64	0.57	0.35	0.71	-0.62	0.89	0.83	1.43	-0.4025	-0.129	0.1675	0.426722	0.546916	0.712645	0.999971	1	0.951793		
Cvyl1	P97315	-0.48	1.11	0.9	0.57	1.49	1.66	0.49	0.68	0.07	1.02	0.98	0.65	0.83	1.02	0.49	0.5	0.1575	0.2255	0.281091	0.705513	0.543794	0.999971	1	0.911398			
Cvyl1	P97314	0.05	-0.15	0.8	1.35	1.48	2.17	0.88	1.57	0.65	1.17	0.48	0.55	0.77	-1.12	1.47	0.74	1.135	0.15	-0.3425	0.415171	0.00902	0.7075	0.999971	1	0.951793		
Cvyl1	P21460	0.62	0.09	-0.57	-1.18	0.76	0.09	0.6	0.46	0.78	0.48	0.39	0.57	0.1	-0.13	-0.47	-0.97	0.7375	0.815	-0.1075	0.091592	0.060602	0.803219	0.999971	1	0.971467		
Cvyl1	Q62426	1.11	0.71	1.26	1.22	0.27	0.75	0.44	0.65	0.3	1.07	0.23	0.79	-0.26	0.99	0.54	1.22	-0.5475	-0.8775	-0.4525	0.28576	0.092699	0.216274	0.999971	1	0.823897		
Cvyl1	Q90L9C2	0.75	1.41	1.62	1.49	1.34	1.37	0.82	1.62	1.32	1.36	1.39	0.38	0.44	1.71	1.17	1.8	0.03	-0.205	-0.0375	0.912851	0.520742	0.917013	0.999971	1	0.992633		
Cvyl1	Q89D5-2	-0.7	1.54	1.22	0.71	0.84	0.98	1.48	-1.57	0.65	0.65	1.17	0.48	-0.73	-0.39	-0.57	-0.1	0.075	0.866168	0.392707	0.999971	1	0.999971	1	0.999971			
Cvyl1	FEKX7	1.23	3.03	1.06	1.51	2.19	2.63	0.2	2.59	1.36	1.89	0.27	2.18	3.37	3.57	1.8	3.38	0.195	0.175	1.3225	0.760009	0.806611	0.040399	0.999971	1	0.790038		
Cvyl1	Q8C769	1.55	0.97	0.71	0.9	0.5	1.07	1.15	0.53	0.11	0.99	0.34	0.55	-0.1	0.73	0.49	0.22	-0.22	-0.535	-0.6975	0.423543	0.079619	0.029153	0.999971	1	0.678474		
Cvyl1	Q90917	0.69	1.99	1.74	1.48	1.86	1.57	1.43	1.3	1.79	0.92	2.02	1.65	1.83	1.63	1.43	1.9	0.065	0.12	0.2225	0.834504	0.739642	0.47631	0.999971	1	0.894333		
Cvyl1	Q89H88	0.21	0.16	-0.09	0.16	0.39	0.58	-0.46	0.23	0.25	0.34	-0.44	-0.16	0.8	1.04	0.17	0.59	0.04	-0.1125	0.54	0.887565	0.602828	0.043238	0.999971	1	0.701725		
Cvyl1	Q89L12	-0.54	-0.07	-0.64	0.03	-0.61	-0.98	-1.21	-1.29	-1.1	-1.44	-1.18	-1.4	-1.1	-1.1	-1.1	-1.1	-0.25	-0.1	-0.23	0.229741	0.265301	0.991725	0.999971	1	0.999971		
Cvyl1	Q91Y22	0.38	0.26	0.63	0.66	0.06	0.15	0.48	1.01	0.09	0.39	0.17	-0.01	-0.41	0.21	0.44	0.09	-0.0575	-0.3225	-0.4	0.82474	0.61785	0.1207	0.999971	1	0.78268		
Cvyl1	Q89R2-2	0.29	1.7	1.69	1.82	2.23	1.11	1.93	1.74	1.95	0.68	1.22	1.5	2.26	0.86	1.57	1.19	0.375	-0.0375	0.095	0.731342	0.92979	0.830693	0.999971	1	0.978535		
Cvyl1	Q50U9-2	0.41	1.93	1.38	1.94	1.52	2.26	1.77	1.8	1.59	2.7	1.63	1.3	0.63	2.15	1.21	1.38	-0.3275	-0.36	-0.8225	0.459331	0.42949	0.25997	0.999971	1	0.783071		
Cvyl1	Q61164	-0.13	0.17	-0.13	0.31	0.12	0.23	0.15	0.45	0.04	0.33	0.123	0.13	0.17	0.17	0.17	0.17	0.17	0.17	0.8675	0.191312	0.292519	0.79424	0.999971	1	0.999971		
Cvyl1	Q31P92	-2.28	0.73	0.05	-1.2	-0.79	0.21	-0.25	-0.01	-0.37	-1.51	1	1.34	2.72	0.17	0.13	-0.55	0.465	0.975	1.2925	0.472548							

Dnb2ip	G3UH7C	-1.06	-1.23	-0.98	-0.62	-1.31	-1.24	-1.05	-0.62	-1.29	-1.04	-0.87	-1.01	-0.87	-1.04	-1.06	-0.52	-0.8025	-0.08	0.1	0.72756	0.697795	0.655108	0.999971	1	0.934061	
Dnb2p	Q7TN08	1.75	-0.27	0.85	1.4	-0.12	-0.08	4.06	1.04	-0.72	0.08	1.63	1.19	-1.38	-0.19	0.76	1.84	0.5825	-0.3875	-0.675	0.518986	0.545057	0.371279	0.999971	1	0.869526	
Dnb3	Q9PHV7	1.91	-0.09	-0.1	-0.26	-0.57	0.03	0.45	-0.47	0.3	1.42	0.38	-0.39	-1.14	-0.43	-0.27	0.39	0.305	0.1	-0.375	0.602358	0.963731	0.900669	0.999971	1	0.904223	
Dnc1	P61804	0.23	0.4	0.51	0.69	0.28	0.96	0.07	0.52	-0.03	0.47	0.35	-0.08	0.5	1.26	-0.3	1.25	7.8561-17	0.28	0.22	1	0.210132	0.558688	1	1	0.915051	
Dnc1	Q62165	-0.44	-1.28	-0.21	-0.86	-0.74	-1.31	-0.02	-1.28	-0.36	-0.38	-0.71	-0.37	-0.98	-0.78	-0.56	-0.14	0.1	0.275	0.590667	0.120132	0.303548	0.999971	1	0.847402		
Dnla	Q6WQ11	-1.4	-0.49	-1.06	-1.13	-0.8	-0.78	-1.57	-1.29	-0.76	-1.45	-1.05	-1.43	-0.1	-1.13	-1.21	-0.9	-0.1525	0.185	0.753058	0.576305	0.567515	0.999971	1	0.91816		
Dnla	Q1WQ3	0.73	0.17	0.3	0.9	0.4	0.51	1.55	0.85	1.07	1.01	0.42	0.36	0.88	1.02	0.2425	0.145	0.48	0.530887	0.719973	0.378	0.999971	1	0.833594			
Dnld3	Q6P9N8	1.15	-0.04	0.2	1.2	0.07	0.21	1.04	1.01	-0.51	1.37	-0.07	-0.15	-0.85	0.64	0.1	0.8	-0.27	-0.3925	-0.455	0.478523	0.423789	0.337004	0.999971	1	0.858827	
Dnld3	AD0807FW	3.31	0.89	0.68	1.92	0.53	1.49	4.64	0.95	4.75	0.84	1.89	-0.12	-0.09	-1.46	0.68	-0.3	0.2025	1.1	-1.9925	0.838074	0.897597	0.015693	0.999971	1	0.613095	
Dnld3	G3X9M0	-1.2	-0.58	-0.81	-0.39	-0.52	-0.42	-0.44	-0.67	-0.45	-0.65	-0.83	-0.64	-0.26	-0.13	-0.61	0.2325	0.1025	0.32	0.315487	0.653803	0.822247	0.999971	1	0.827753		
Dnld3	Q8DTE7-2	-0.57	-0.21	-0.17	-0.16	-0.18	-0.44	-0.38	-0.58	-0.72	-0.17	-0.58	-0.61	-0.67	-0.66	-0.61	0.07	-0.03	0.688247	0.580414	0.88853	0.999971	1	0.869581			
Dnld3	Q54784	0.12	1.04	-0.64	-0.77	1.15	-0.44	-0.36	0.56	0.56	0.37	-0.37	-0.31	-1.36	-1.38	1.11	0.119	0.025	0.1175	0.744447	0.588285	0.866114	0.999971	1	0.878462		
Dnrs1	Q92282	0.08	0.89	0.91	0.88	1.02	0.83	0.84	1.31	1.19	0.59	1.11	1.32	1.01	1.09	1.16	1.55	0.31	0.3625	0.5125	0.247481	0.207996	0.075575	0.999971	1	0.898346	
Dnrs1	Q88R0	-0.78	0.19	-1.61	-1.94	0.07	-0.46	-1.44	-2.21	-0.04	-0.98	-1.53	-1.46	-0.32	-0.81	-2.4	-2.46	0.025	0.0325	-0.4625	0.968438	0.952195	0.489112	0.999971	1	0.788634	
Dnrx	Q5613	-1.82	-1.45	0.05	-0.33	-0.5	-1.88	-0.47	-0.1	-1.11	-2.34	0.29	0.34	-0.65	-0.73	-0.25	0.23	0.2	0.1825	0.5375	0.700826	0.797114	0.266278	0.999971	1	0.842677	
Dnrsq1	Q3UG85	0.97	0.01	1.53	0.89	1.87	2.21	1.35	2.74	1.95	1.56	1.99	2.14	1.37	2.35	2.19	1.48	0.2975	0.26	0.1075	0.390409	0.389591	0.577817	0.999971	1	0.918848	
Dnrx	Q64237	-1.43	-0.47	0.01	-0.7	-1.24	-0.29	-0.98	0.21	-1.14	-0.02	-0.42	-0.89	-0.22	-0.74	-1.31	-0.3	0.0725	-0.22	0.005	0.863626	0.51819	0.98944	0.999971	1	0.959925	
Dnrl	P31786	-0.36	-0.3	0.37	0.1	-0.09	-0.29	-0.22	0.46	-0.21	-0.29	-0.27	0.09	0.41	0.47	0.6	0.0125	-0.1225	0.32	0.962213	0.596199	0.29347	0.999971	1	0.847402		
Dnrl	Q9XQ56	-1.04	-1.1	-1.36	-1.52	-1.26	-1.02	-0.88	-1.52	-1.01	-1.23	-1.11	-1.27	-1.33	-1.45	-1.34	-1.57	0.085	0.1	-0.1675	0.703377	0.602041	0.39419	0.999971	1	0.871816	
Dnrl	AD0804UE	1.05	-0.43	-1.74	-1.4	-1.15	-1.06	-1.79	-1.18	-0.5	0.81	-1.85	-1.62	-1.46	-0.35	-1.07	-1.31	-0.65	-0.4175	0.278033	0.746564	0.501637	0.999971	1	0.904573		
Dnrl	H8K17	3.06	0.35	-0.53	-0.12	0.15	0.08	-0.41	-0.22	1.68	1.33	0.35	-0.38	0.52	0.32	0.01	-0.2	-0.79	0.055	-0.5275	0.301621	0.948086	0.485617	0.999971	1	0.897386	
Dnrl	Q5RC04	-2.18	0.19	0.02	-0.4	-0.63	0.93	-1.04	-0.64	-1.22	1.64	0.16	-0.85	0.33	0.95	0.48	-0.48	0.32	0.5675	0.8625	0.91	0.397974	0.210981	0.136376	0.999971	1	0.784948
Dnrl	Q62418	-0.45	-0.7	-0.63	-0.52	-0.52	-0.63	-0.55	-0.16	-0.49	-0.99	-0.53	-0.63	-0.6	-0.74	-0.62	0.47	0.11	-0.1875	-0.0325	0.562088	0.330245	0.850068	0.999971	1	0.981887	
Dnrl	Q92381	0.52	2.69	2.09	1.87	2.47	2.23	1.56	1.66	2.67	0.84	1.76	1.51	0.52	1.54	1.84	1.61	0.0175	-0.0975	-0.415	0.693568	0.859084	0.420184	0.999971	1	0.877678	
Dnrl	P53395	-0.96	-0.52	-0.25	-0.37	-0.75	-0.44	-0.41	-0.29	-0.58	-0.88	-0.67	-0.33	-0.47	-0.61	-0.46	-0.46	0.0525	-0.09	0.025	0.815353	0.694717	0.90551	0.999971	1	0.991091	
Dnrl	Q80TR8-4	3.2	2.44	0.89	1.02	1.85	2.73	0.77	0.85	1.64	2.54	-0.04	0.01	1.16	2.26	0.62	0.14	-0.4625	-0.08	-0.8425	0.455377	0.285788	0.221167	0.999971	1	0.8275	
Dnrl	A2AK89-2	0	0.87	0.42	2.07	1.11	0.58	1.14	1.68	0.68	0.44	1.41	0.89	1	1.08	1.07	1.56	0.2875	0.015	0.3375	0.542673	0.974106	0.44989	0.999971	1	0.885596	
Dnrl	Q91VU6	-0.37	0.07	2.54	-1.13	-0.1	-0.14	1.33	2.05	0.14	0.15	1.7	0.73	0.17	-0.03	2.5	2.48	-0.07	0.175	0.425	0.926119	0.794926	0.620072	0.999971	1	0.929296	
Dnrl	Q6PAC3	-1.62	0.34	-0.49	-1.56	-0.41	-0.56	-0.47	-0.47	-0.58	-0.57	-0.46	-0.47	-0.43	-0.41	-0.36	-0.4	-0.05	-0.1275	-0.445	0.800631	0.817919	0.999971	1	0.875437		
Dnrl	Q5G815	2.66	3.24	1.11	1.71	3.77	3.56	1.31	2.55	2.91	3.27	1.06	1.07	1.14	1.9	0.75	0.88	0.3675	-0.1025	-1.0125	0.61506	0.881839	0.707034	0.999971	1	0.735439	
Dnrl	Q9QC22	0.55	0.82	1.09	0.99	1.15	0.58	0.81	0.81	0.81	0.07	0.66	0.91	1.24	1.16	0.52	0.43	1.05	-0.025	0.1075	-0.0725	0.970551	0.618781	0.770789	0.999971	1	0.963498
Dnrl	P61963	0.16	0.13	-0.11	-0.25	0.06	0.25	-0.39	0.13	0.35	0.16	-0.11	-0.04	0.27	0.47	0.23	0.08	0.3	0.1075	0.28	0.889916	0.590349	0.171465	0.999971	1	0.804075	
Dnrl	Q8N7N5	0.57	0.81	1.53	0.89	1.87	2.11	1.35	2.74	1.95	1.56	1.99	2.14	1.37	2.35	2.19	1.48	0.2975	0.26	0.1075	0.390409	0.389591	0.577817	0.999971	1	0.918848	
Dnrl	Q8H8K4	-0.63	-1.08	-0.61	-1.11	-0.62	-0.9	-0.6	-0.44	-0.47	-0.51	-0.41	-0.22	-0.11	-0.71	-0.48	-0.28	0.2175	0.455	0.4625	0.325468	0.480708	0.069142	0.999971	1	0.733937	
Dnrl	P70211-3	-0.29	-0.76	-0.48	-0.44	-0.36	-0.19	-0.69	-0.37	-0.36	-0.26	-0.56	-0.05	-0.17	-0.02	-0.48	-0.21	0.09	0.185	0.2725	0.655771	0.364611	0.192702	0.999971	1	0.810547	
Dnrl	E9PVD03	0.35	-0.84	0.09	0.23	-0.35	-0.52	-0.32	0.04	-0.53	-0.26	-0.2	0.1	-0.46	-0.86	0	0.44	-0.245	-0.18	-0.1775	0.472562	0.560451	0.614047	0.999971	1	0.93301	
Dnrl	Q8V8N5	-0.27	0.1	1.07	1.56	1.02	0.87	1.16	1.81	1.64	1.31	1.82	1.55	1.67	1.82	1.82	1.82	0.005	0.32	0.1625	0.984721	0.526788	0.619517	0.999971	1	0.842536	
Dnrl	AD0802ZG	-1.85	0.44	-0.51	-0.96	-0.48	-0.18	-0.46	-0.87	0.1	-1.41	0	0.6	2.6	-0.35	-0.04	-1.64	0.5625	0.7925	1.1125	0.331673	0.246045	0.25937	0.999971	1	0.839154	
Dnrl	Q8QCNA	0.23	0.29	-2.09	-1.41	-0.78	-0.52	-1.63	-2.05	-1.48	-0.94	-1.45	-1.16	0.01	-1.3	-0.64	-0.73	-0.5	-0.5125	0.08	0.437678	0.374432	0.893561	0.999971	1	0.988828	
Dnrl	H7R3K6	-1.05	0.56	0.7	0.44	1.33	1.07	2.01	2.65	0.46	2.43	-0.49	2.61	0.99	0.86	-1.04	0.59	-1.03	1.055	-1.2225	-0.3175	0.053269	0.131594	0.998185	0.999971	1	0.92377
Dnrl	Q491M8	-0.88	-0.8	-0.53	-0.39	-0.59	-0.59	-0.13	-0.29	-0.34	-0.56	-0.01	0.11	0.1	-0.51	-0.17	0.27	0.31	0.1	0.6325	0.144893	0.038387	0.020397	0.999971	1	0.835388	
Dnrl	Q6P8N3-3	0.26	0.71	0.44	0.63	0.5	0.66	0.54	0.65	0.47	0.64	0.7	0.47	0.64	0.7	0.47	0.64	0.7	0.47	0.64	0.7	0.47	0.64	0.7	0.47	0.64	
Dnrl	P28564	1.26	0.74	0.47	0.33	3.06	0.41	-0.66	-0.43	0.38	1.51	-0.13	1.82	0.04	1.52	0.98	-0.63	-0.105	0.195	-0.2225	0.890403	0.119843	0.468836	0.999971	1	0.933842	
Dnrl	Q91Y03	0.38	0.72	0.68	0.62	0.53	0.61	0.06	0.92	0.37	0.36	0.63	0.89	0.79	0.76	0.9	0.91	-0.07	-0.0375	0.24	0.762522	0.851545	0.192609	0.999971	1	0.930479	
Dnrl	89X00	0.62	1.49	-0.29	0.03	0.43	0.85	-0.6	0.39	1.15	0.84	-0.53	-0.02	0.16	1.27	0	-0.67	-0.18	-0.8075	-0.2575	0.709119	0.84946	0.624471	0.999971	1	0.810547	
Dnrl	Q5CY65	0.58	0.53	0.81	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	0.57	0.58	
Dnrl	Q9OAR7	1.82	2.77	3.01	3.66	1.87	1.79	2.83	2.45	1.5	1.79	2.21	2.46	0.87	1.96	2.41	2.68	-0.455	-0.7	-0.71	0.322831	0.134448	0.200081	0.999971	1	0.813352	
Dnrl	E9O586	-1.23	0.0																								

Dhw17	ADAI1YVN	0.03	0.33	-0.42	0.02	0.68	0.57	-0.87	0.47	0.08	0.45	-0.5	-0.32	0.64	0.15	0.04	0.05	0.2225	-0.0625	0.23	0.562788	0.8219	0.355478	0.999971	1	0.868793	
Dhw17b	24YK1E	-0.44	-0.4	-0.88	-0.24	-0.64	-0.69	-0.89	-0.59	-0.89	-0.47	-0.85	-0.66	-0.71	-0.59	-0.91	-0.55	-0.2025	-0.175	-0.19	0.938806	0.31934	0.176133	0.999971	1	0.870465	
Dhw18	A2ATJ0	-2.12	-2.5	0.48	1.06	0.6	-1.1	3.99	1.58	-1.53	0.55	1.52	-1.61	-1.43	1.08	0.01	1.5625	1.435	0.8975	0.350595	0.295476	0.495066	0.999971	1	0.901531		
Dhw15	O35Z86	0.05	1.59	1.37	1.38	1.66	1.25	1.14	1.25	1.38	0.38	1.52	1.58	1.36	1.12	1.3	0.13	0.2275	-0.1175	0.18	0.534205	0.710373	0.611001	0.999971	1	0.926373	
Dhw16	G3XW80	5.49	1.26	0.1	0.16	1.36	0.47	-0.63	-0.44	2.55	2.07	-0.72	1.09	1.44	0.93	-0.03	-1.5625	-0.505	-0.16	0.216054	0.701073	0.338834	0.999971	1	0.860005		
Dhw29	OPGFC1	0.93	1	1.43	1.61	0.77	1.23	1.33	1.41	1.02	1.22	1.12	0.35	0.9	1.23	1.26	1.12	-0.0575	-0.115	-0.115	0.816427	0.267675	0.61287	0.999971	1	0.927664	
Dhw30	ADAO5XJ0	-0.21	0.42	0.05	-0.09	0.3	0.18	0.13	-0.03	0.33	0.11	0.09	0.28	0.67	0.37	0.22	0.46	0.1735	-0.085	0.4125	0.542488	0.372075	0.630283	0.999971	1	0.755254	
Dhw32	D3Z4E3	1.75	1.62	1.46	1.7	1.21	1.4	0.82	1.84	1.6	1.23	1.85	1.75	1.98	1.56	1.56	1.81	-0.315	-0.1125	0.1425	0.227606	0.578654	0.445561	0.999971	1	0.884152	
Dhw35	ORH1G9	1.21	0.68	0.6	1.02	1.27	0.79	0.49	1.34	0.3	1.99	0.86	0.69	1.96	0.91	0.45	1.08	0.095	0.0825	0.2225	0.232664	0.872747	0.522219	0.999971	1	0.90761	
Dhw36	ORVH98	0.62	0.57	0.67	0.61	0.5	0.62	0.46	0.88	0.46	0.63	0.81	0.89	0.54	0.72	0.79	0.79	-0.0025	-0.08	0.0925	0.988798	0.650331	0.582378	0.999971	1	0.920664	
Dhw38	Q8DQ88	1.32	1.32	0.48	0.48	1.06	0.6	-1.1	3.99	1.58	-1.53	0.55	1.52	-1.61	-1.43	1.08	0.01	1.5625	1.435	0.8975	0.350595	0.295476	0.495066	0.999971	1	0.901531	
Dhw37	OPGPD3	0.29	0.97	0.98	0.8	1.25	0.71	0.16	1.27	1.56	0.5	1.11	1.21	1.67	0.84	1.3	1.56	0.1975	0.3355	0.5875	0.458233	0.239094	0.051377	0.999971	1	0.723736	
Dhw8	A2AAP0	0.63	0.15	0.97	1.09	-0.01	-0.94	0.18	1	-0.36	-0.45	0.65	0.83	-1.11	-0.31	1.2	1.6	-0.6525	-0.5425	-0.365	0.515727	0.179394	0.554606	0.999971	1	0.915453	
Dhw9	E9DNN1	0.49	0.75	0.53	1.01	-0.82	-0.27	-0.22	0.13	-0.01	-0.39	0	0.19	-1.18	-0.56	-0.36	-0.4	-0.615	-0.3725	-0.945	0.15416	0.342922	0.041112	0.999971	1	0.700838	
Dhw10	ADAO87W	-0.3	-0.28	-0.22	-0.43	-0.26	-0.35	-0.31	-0.41	-0.31	-0.19	-0.23	0.34	-0.21	-0.12	-0.08	-0.09	-0.02	0.1475	0.708478	0.898212	0.389095	0.999971	1	0.869526		
Dhw11	Q9HJ3	0.91	-0.06	-0.35	-0.09	0.12	0.14	-0.32	0.14	-0.57	-0.35	0.2	0.53	0.64	-0.75	0.46	0.08	-0.62	-0.05	0.511095	0.608662	0.272166	0.999971	1	0.984109		
Dhw12	E9P4V1	-0.42	-1.05	-0.49	-0.5	-0.83	-0.89	-0.24	-0.86	-1.05	-0.87	-0.66	-0.96	-1.1	-1.09	-0.9	-1.14	-0.09	-0.27	-0.4425	0.713225	0.226321	0.508855	0.999971	1	0.727548	
Dhw13	Q6W4W7	-0.12	-0.45	-0.32	-0.26	-0.19	-0.23	-0.41	-0.32	-0.44	-0.34	-0.42	-0.3	-0.23	0.09	-0.29	-0.38	0	-0.0875	0.085	1	0.602439	0.657965	1	1	0.934638	
Dhw14	FRV554	0.78	-0.17	-0.4	-0.17	0.3	-0.42	0.69	-0.09	1.16	0.46	-0.03	0.44	1.1	3.61	1.18	0.27	0.11	0.4975	1.28	0.75519	0.18275	0.119434	0.999971	1	0.782628	
Dhw15	Q8C980	-1.6	2.13	2.06	2.65	2.39	1.68	0.9	2.31	1.93	1.32	2.06	1.6	1.85	1.18	1.69	2.45	-0.375	-0.4575	-0.6425	0.327668	0.110809	0.11751	0.999971	1	0.780368	
Dhw16	O9D004	1.54	0.69	0.53	1.04	0.65	1.15	0	0.23	0.34	1.94	-0.12	0.69	0.73	1.44	0.16	0.57	-0.4425	-0.2375	-0.225	0.208409	0.611994	0.518707	0.999971	1	0.905901	
Dhw17	FRW556	-0.54	-0.17	-0.19	-0.23	-0.32	-0.11	-0.6	0.04	-0.18	-0.33	-0.12	-0.45	-0.27	-0.13	-0.08	-0.12	0.015	0.0125	0.1325	0.941598	0.954582	0.465496	0.999971	1	0.891255	
Dhw18	B2RQC7	-1.37	-1.43	-0.39	-0.22	-1.27	-1.73	-1.15	-0.32	-1.02	-0.79	-0.8	-0.75	-0.41	-1.54	-0.3	-1.13	-0.265	0.0125	-0.2425	0.524887	0.96948	0.552837	0.999971	1	0.913595	
Dhw19	G3UH60	0.07	0.15	0.03	0.04	0.52	0.3	-0.02	0.27	0.05	0.35	0.14	-0.33	0.01	0.14	-0.19	0.13	0.215	0	0.065	0.270044	1	0.694274	0.999971	1	0.947174	
Dhw20	B2RQ71	0.08	-0.24	0.07	0.29	-0.41	-0.28	0.02	0.28	-0.19	0.07	-0.11	-0.46	0.3	-0.03	-0.05	0.03	-0.1475	-0.2225	-0.1375	0.523288	0.284536	0.487329	0.999971	1	0.897906	
Dhw21	B7ZM27	0.4	0.06	-0.59	0.2	-0.32	-0.02	-0.25	1	-0.25	0.29	0.01	0.29	-0.48	-0.27	-0.15	0.41	0.085	0.0675	-0.14	0.815327	0.801825	0.639115	0.999971	1	0.931301	
Dhw22	O9PM44	-0.3	0.48	-0.2	-0.05	0.85	0.82	-0.62	0.36	0.75	0.46	0.23	0.27	1.24	1.31	0.44	0.64	0.37	0.45	0.925	0.334949	0.091572	0.101057	0.999971	1	0.913601	
Dhw23	Q3U528	-1.68	-0.85	3.32	3.32	0.34	-1.41	-1.27	5.33	-0.66	-1.46	3.81	4.93	0.1	0.49	3.85	1.4	0.6425	0.8775	0.8275	0.347499	0.625027	0.485549	0.999971	1	0.920413	
Dhw24	O3Z165	-0.01	0.31	-0.11	0.02	-0.02	-0.09	-0.35	0.68	0.18	0.07	0.18	0.07	0.18	0.07	0.18	0.07	0.18	0.07	0.735	0.338896	0.236023	0.004353	0.999971	1	0.982774	
Dhw25	OPFR73	0.33	0.37	0.31	0.7	0.03	0.77	0.14	0.67	0.28	0.7	0.31	0.21	-0.11	0.34	0.29	0.88	-0.025	-0.0525	-0.0775	0.91697	0.79147	0.75282	0.999971	1	0.901161	
Dhw26	Q5C9H3	3.24	2.19	2.77	2.7	1.92	2.64	2.5	1.77	2	2.5	2.22	1.69	-0.17	1.14	2.12	2.21	-0.5175	-0.6225	-0.14	0.120545	0.054687	0.029099	0.999971	1	0.678474	
Dhw27	ORCT75-2	-0.01	0.52	-0.16	0.02	0.51	0.46	-0.13	0.02	0.44	0.31	0.26	0.23	0.68	0.72	0.43	0.49	0.1225	0.173	0.4875	0.621868	0.304586	0.045136	0.999971	1	0.710102	
Dhw28	Q8C9P5	-1.59	-0.7	-0.25	-0.41	-0.59	-1.24	-0.27	-0.11	-1.75	-0.15	-0.25	-0.43	-0.8	-0.4	-0.16	-0.16	-0.15	-0.373212	-0.157	0.17	0.328718	0.999971	1	0.916718		
Dhw29	ORH9Y3-7	-0.08	-0.79	-0.38	-0.53	-0.72	-0.85	-0.44	-0.42	-0.86	-0.53	-0.31	-0.3	-0.55	-1.06	-0.68	-0.61	0.0575	-0.055	-0.28	0.860608	0.812786	0.293335	0.999971	1	0.833594	
Dhw30	O9EXS5	0.18	-0.19	-1.01	-0.16	-0.1	-0.13	-1.33	-1.59	0.06	0.76	-1.36	-1.38	0.45	-0.24	-1.22	-0.26	-0.4925	-0.185	-0.0225	0.279716	0.73525	0.595878	0.999971	1	0.998056	
Dhw31	Q9QU99	1.49	1.97	1.64	1.51	1.77	2.23	2.13	1.65	1.43	1.49	2.01	1.12	1.25	1.24	1.18	1.53	0.2925	-0.14	-0.3525	0.208558	0.569493	0.101589	0.999971	1	0.782628	
Dhw32	Q8B8M4	-0.4	3.4	1.54	2.29	1.6	1.21	-0.55	1.19	0.82	0.4	0.01	1.17	0.22	0.35	-1.52	0.16	-0.25	0.534212	0.582035	0.959971	0.999971	0.999971	0.999971	1	0.981628	
Dhw33	ADAO8A117	0.4	-0.05	-1.25	-0.11	-0.19	0.89	-1.4	0.74	0.2	-0.01	-1.02	-0.8	-0.23	0.43	-1.26	0.13	0.1675	0.02	0.005	0.774488	0.964703	0.992392	0.999971	1	0.99925	
Dhw34	D08749	-1.16	-1.75	-1.27	-1.22	-1.46	-2.19	-0.83	-1.25	-1.2	-1.6	-0.96	-1.11	-1.67	-2.06	-1.37	-1.6	-0.8625	0.1325	-0.325	0.795361	0.565443	0.1886	0.999971	1	0.809276	
Dhw35	E9Q9H0	-1.54	-1.46	-1.48	-1.52	-1.46	-1.16	-1.2	-1.75	-1.5	-1.84	-1.41	-1.56	-1.62	-1.61	-1.76	-1.68	0.1075	-0.0775	-0.1675	0.589926	0.657587	0.313883	0.999971	1	0.850589	
Dhw36	H7BW94	-0.01	-0.87	-2.31	-2.32	0.11	-0.25	-1.97	-2.11	-0.21	-1.23	-2.6	-1.92	0.25	-0.98	-1.55	-2.4	0.3225	-0.125	0.2	0.658664	0.871507	0.782292	0.999971	1	0.965059	
Dhw37	Q8110D-2	-0.2	-0.2	-0.36	-0.23	-0.96	-0.23	-0.96	-0.23	-0.96	-0.23	-0.96	-0.23	-0.96	-0.23	-0.96	-0.23	-0.96	-0.23	-0.96	0.875	0.886788	0.879734	0.38134	0.999971	1	0.916718
Dhw38	D3Z388	0.33	-2.6	-2.6	-1.92	-2.49	-1.79	-1.39	-1.92	-2.27	-0.48	-1.72	-2.35	-3.43	-2.61	-2.31	-2.2	-0.2	-0.075	-0.94	0.763152	0.991929	0.18983	0.999971	1	0.810547	
Dhw39	ADAO33P6	-1.34	-1.84	-1.63	-1.65	-1.6	-1.66	-1.53	-1.64	-1.53	-1.3	-1.58	-1.66	-1.08	-1.7	-1.67	-1.63	0.0075	0.0975	0.095	0.967211	0.161124	0.57163	0.999971	1	0.935651	
Dhw40	O91XW6-9	-1.73	-1.01	-0.74	-0.48	-0.67	-0.73	-0.8	-0.53	-0.31	-1.01	-1.1	-0.25	0.01	0.39	0.54	0.71	0.5575	0.57	1.6475	0.057398	0.102666	0.000303	0.999971	1	0.247672	
Dhw41	ADAO57LB8	0.66	1.1	1.54	2.29	1.6	1.21	-0.55	1.19	0.82	0.4	0.01	1.17	0.22	0.35	-1.52	0.16	-0.25	0.534212	0.582035	0.959971	0.999971	0.999971	0.999971	1	0.981628	
Dhw42	P70175	-1.08	-0.84	-1.41	-1.28	-0.88	-0.67	-1.32	-1.28	-0.85	-0.91	-1.05	-1.07	-0.53	-1.01	-1.32	-1.2	0.065	0.1825	0.1375	0.767299	0.3590					

Dpfl1	D3YV66	2.04	2.54	1.36	1.44	2.8	1.4	1.95	1.23	2.94	1.3	1.63	1.45	1.81	0.78	0.93	1.2	-2.8E-16	-0.015	-0.665	1	0.972866	0.086423	1	1	0.759991	
Dpfl2	D3Z2N6	1.65	2.03	2.06	2.51	1.96	1.75	1.87	2.46	1.53	0.95	1.68	2.18	1.62	1.91	2.18	1.76	-0.025	-0.475	-0.195	0.938944	0.15248	0.431555	0.999971	1	0.882409	
Dpfl3	D3NC05	0.1	0.31	0.35	0.91	0.24	0.51	0.09	0.66	0.38	0.56	0.57	0.65	0.26	0.72	0.83	1.48	-0.335	-0.025	0.025	0.242261	0.93037	0.949399	0.999971	1	0.998038	
Dpfl4	D3CR25	-0.02	0.52	0.12	0.65	0.24	-0.04	0.31	0.22	0.05	0.23	0.61	0.13	-0.44	0.11	0.31	0.67	-0.135	-0.0625	-0.155	0.545469	0.7902	0.959594	0.999971	1	0.92422	
Dpfl5	D3CW00	0.41	0.04	0.58	0.61	0.33	-0.43	0.13	0.31	-0.37	0.22	0.47	0.48	0.31	0.21	0.67	0.39	-0.0325	-0.32	-0.015	0.929453	0.264272	0.943921	0.999971	1	0.99692	
Dpfl6	D3CQ22-8	0.53	1.19	0.41	0.5	0.75	0.52	-0.12	0.67	0.39	0.84	0.37	-0.02	0.13	1.11	0.56	0.32	-0.2025	-0.2625	-0.2875	0.4787	0.343079	0.419353	0.999971	1	0.87788	
Dpfl7	D3CY16	1.16	1.16	0.31	0.21	1.32	1.59	0.34	0.48	0.31	0.16	-0.2	0.34	0.35	-0.17	0.16	0.06	0.395	-0.445	-0.6425	0.414205	0.322402	0.135545	0.999971	1	0.784948	
Dpfl8	D3O152	-0.83	-1.01	-1.69	-1.73	-0.64	-1.14	-1.45	-1.58	-0.61	-0.99	-1.99	-1.55	0.3	-0.98	-1.47	-1.55	0.1125	0.03	0.24	0.72194	0.935537	0.511399	0.999971	1	0.905815	
Dpfl9	D3O104	-0.38	0.13	0.33	0.4	0.8	0.92	0	-0.25	0.6	0.51	-0.37	0.29	1.9	0.07	-0.02	0.17	0.2475	0.3875	0.41	0.469234	0.356786	0.384471	0.999971	1	0.871816	
Dpfl10	D38NXX7	-0.9	-0.52	-0.81	-0.92	-0.52	-0.36	-0.4	-0.98	-0.6	-0.77	-0.79	-1.01	-0.21	-0.67	-0.9	-1.06	0.2225	-0.005	0.0775	0.318288	0.97879	0.747959	0.999971	1	0.961064	
Dpfl11	D3ASFPMP	-0.65	-1.22	-0.45	-0.65	-1.04	-0.25	-0.47	-0.67	-0.47	-0.67	-0.47	-0.67	-0.47	-0.67	-0.47	-0.67	-0.47	-0.67	-0.47	-0.67	0.32846	0.760773	0.342408	0.999971	1	0.961064
Dpfl12	D39KX7	-0.47	-0.06	-0.3	0.01	0.03	-0.08	-0.11	0.06	0.12	0.47	-0.09	0.02	-0.24	0.17	-0.15	0.25	-0.055	0.1	-0.0125	0.971143	0.671143	0.958248	0.999971	1	0.998622	
Dpfl13	P28843	0.36	0.55	0.48	1.12	0.67	0.14	0.53	0.13	0.57	0.76	0.85	0.59	0.05	0.75	0.95	0.77	-0.26	0.065	0.0025	0.307935	0.769573	0.992811	0.999971	1	0.999925	
Dpfl14	EP9W11	-0.41	-1.94	-2.19	-2.15	-1.83	-1.9	-2.09	-2.12	-1.82	-1.76	-2.21	-2.07	-1.85	-1.78	-2.15	-2	-0.0625	-0.0425	-0.0225	0.786685	0.858837	0.923407	0.999971	1	0.993265	
Dpfl15	D3QVMS	0.74	0.61	1.54	0.9	0.14	1.76	0.52	1.56	0.22	2.18	0.67	-0.77	1.4	0.72	1.33	1.41	0.0475	0.375	0.2675	0.930171	0.535799	0.353504	0.999971	1	0.868675	
Dpfl16	Q5T212	-0.2	1.18	1.13	0.93	1.08	0.57	1.01	1.21	0.34	1.54	0.82	1.16	1.35	1.4	0.2275	0.3225	0.2975	0.446991	0.413277	0.368583	0.999971	1	0.869526			
Dpfl17	D3OYA7	0.32	0.41	-0.13	0.1	0.42	0.18	0.69	0.05	0.23	-0.06	-0.56	-0.18	0.09	0	-0.4	-0.39	0.16	-0.3175	-0.35	0.485424	0.201011	0.13392	0.999971	1	0.784948	
Dpfl18	D38V64	-0.39	-0.04	0.24	-0.04	0.02	-0.04	-0.35	-0.32	0.23	-0.51	-0.11	-0.15	-0.28	-0.07	-0.4	-0.55	0.06	-0.0025	-0.2675	0.79251	0.991703	0.230938	0.999971	1	0.830179	
Dpfl19	A60919	-1.3	-0.24	-0.9	-1.65	0.1	-0.41	-0.17	0.77	0.11	-1.12	-1.1	0.22	0.5	-0.18	-0.45	0.95	0.71	0.8	0.7525	0.067709	0.078999	0.09277	0.999971	1	0.765655	
Dpfl20	Q71807	-0.08	-0.26	1	-1.16	-0.21	0.04	1.65	-0.39	0.5	0.46	0.61	-0.17	0.15	-0.21	-0.98	0.0375	0.105	-0.0025	0.505041	0.574288	0.548233	0.999971	1	0.981195		
Dpfl21	A24Q3-2	0.85	0.59	2.67	2.12	0.55	0.96	2.41	2.76	1.15	1.79	2.19	0.62	0.04	0.53	1.53	1.37	0.1125	-0.37	-0.69	0.865865	0.563164	0.295533	0.999971	1	0.83365	
Dpfl22	D39L07	0.33	0.96	0.74	0.05	0.48	-0.06	-0.83	-0.14	0.41	-0.76	-0.13	0.3	0.3	0.48	0.58	0.39	0.16	-0.2875	-0.345	-0.0125	0.499708	0.408271	0.97409	0.999971	1	0.999925
Dpfl23	D38C86	-0.34	-0.4	-0.69	-0.78	-0.55	-1.11	-0.72	-0.9	-1.73	-0.87	-1.75	-1.2	-0.25	-0.85	-0.5	-1.06	-0.2675	-0.835	-0.1125	0.226337	0.010504	0.645454	0.999971	1	0.93301	
Dpfl24	D39C05	0.95	0.84	0.97	2.7	1.75	0.41	0.57	2.1	1.95	1.82	2.66	1.23	-0.59	2.22	2.53	2.54	-0.1575	0.55	0.31	0.7782	0.266589	0.686717	0.999971	1	0.947174	
Dpfl25	D38S53	-0.21	-0.09	-0.35	-0.06	-0.32	-0.42	-0.54	-0.16	-0.42	-0.57	-0.58	-0.28	-0.07	0.01	-0.13	0.1	-0.1825	-0.285	-0.0575	0.326473	0.130351	0.376566	0.999971	1	0.870465	
Dpfl26	D39PWE8	-0.83	-1.3	-1.08	-0.98	-1.26	-0.68	-0.64	-0.79	-0.75	-0.58	-0.56	-0.68	-0.82	-0.51	-0.56	0.1275	0.3725	0.4	0.572039	0.068845	0.060713	0.999971	1	0.725348		
Dpfl27	D3TJMU8	0.2	-0.02	-0.46	-0.3	-0.14	-0.23	-0.46	-0.37	-0.27	0.14	-0.56	-0.53	0	0.25	-0.52	-0.2	-0.155	-0.16	0.0275	0.471855	0.520549	0.911853	0.999971	1	0.992551	
Dpfl28	D39C46	-1.22	-1.14	-0.89	-0.38	-1.16	-1.83	-0.77	-0.46	-0.78	-1.11	-0.41	-0.24	-1.03	-1.27	-0.37	-0.43	0.0175	0.3875	0.2475	0.955653	0.190284	0.414421	0.999971	1	0.875239	
Dpfl29	D31VW0	-1.1	0.95	1.56	0.48	2.08	1.62	1.16	0.88	1.91	0.87	1.72	2.12	1.82	1.42	1.44	1.18	0.09	0.085	0.115	0.845001	0.495563	0.985	0.999971	1	0.861472	
Dpfl30	F6T9K1	0.74	2.61	2.12	2.56	2.41	2.07	1.97	2.52	2.02	2.73	2.47	3.18	3.43	3.12	3.18	0.475	0.2875	1.22	0.457495	0.93431	0.516677	0.999971	1	0.615351		
Dpfl31	A01Y1XV2	-1.22	-7.81	-2.48	-1.9	-7.65	-7.43	-1.19	-2.23	-7.59	-4.75	-3.58	-2.61	-9.28	-6.58	-2.59	-2.58	-0.9795	-0.805	-1.41	0.678842	0.604813	0.454833	0.999971	1	0.887217	
Dpfl32	P12323	0.82	1.69	1.19	1.15	1.65	1.64	0.93	1.1	1.65	1.26	1.38	1.49	1.58	1.69	1.2	1.35	0.1175	0.2325	0.2425	0.670809	0.304843	0.33248	0.999971	1	0.857921	
Dpfl33	D3CXB9	0.52	1.93	0.49	0.13	0.27	0.12	0.73	1.32	0.34	0.52	0.43	1.02	0.7	0.56	0.98	0.0375	0.05	0.4	0.823816	0.931436	0.949399	0.999971	1	0.857921		
Dpfl34	D3O5A6	-0.31	-0.44	-0.31	-0.08	-0.33	-0.22	-0.49	0.14	-0.39	0.25	-0.01	-0.43	-0.27	-0.23	-0.51	0.12	0.06	0.14	0.0625	0.771704	0.528383	0.761174	0.999971	1	0.961116	
Dpfl35	D39EC8	-0.31	-0.59	-0.79	-0.27	-1.42	-1.84	-0.71	-0.37	-1.77	-0.64	-0.08	-0.36	-1.45	-1.43	-0.59	-0.15	-0.595	-0.2225	-0.415	0.115692	0.560115	0.244173	0.999971	1	0.837316	
Dpfl36	D39P77	-0.34	-0.72	-0.19	-0.42	-0.38	-0.29	-0.13	0.2	-0.67	-0.21	-0.33	-0.62	-0.16	-0.34	-0.15	0.07	0.2225	-0.005	0.1925	0.325096	0.687202	0.339568	0.999971	1	0.860218	
Dpfl37	A0187W	-1.05	-2.17	0.8	0.49	0.13	0.1	0.27	0.73	1.32	0.34	0.52	0.43	1.02	0.7	0.56	0.98	0.0375	0.05	0.5475	0.212384	0.254549	0.420093	0.999971	1	0.857921	
Dpfl38	D34L15	-0.59	-0.73	-0.72	-0.67	-0.8	-0.76	-0.74	-0.78	-0.68	-0.57	-0.67	-0.61	-0.86	-0.78	-0.77	-0.0025	0.055	-0.0775	0.565855	0.726201	0.643403	0.999971	1	0.93301		
Dpfl39	D39R05	0.49	1.62	1.01	1.32	1.81	1.97	1.22	1.58	1.81	1	1.45	1.67	2.22	1.65	1.47	0.93	0.35	0.3725	0.4575	0.101437	0.242782	0.216899	0.999971	1	0.826893	
Dpfl40	A0187W	2.13	1.59	0.69	0.56	1.39	1.47	0.27	0.54	1.34	1.47	0.78	1.08	2.26	1.71	0.4	0.83	-0.325	-0.075	0.0575	0.477684	0.847215	0.911992	0.999971	1	0.992583	
Dpfl41	D3O01D8	2.39	0.09	1.04	1.02	-0.41	0.23	0.97	0.77	-0.89	0.78	0.76	0.5	-1.23	-0.62	0.51	0.37	-0.745	-0.8475	-1.3775	0.178773	0.162886	0.383832	0.999971	1	0.700538	
Dpfl42	D38H41	1.68	0.66	0.99	0.62	0.9	1.3	0.71	0.77	0.89	0.71	0.43	0.71	0.43	0.71	0.43	0.71	0.43	0.71	0.43	0.71	0.43	0.71	0.43	0.999971	1	0.956206
Dpfl43	D38CF5	0.42	0.14	0.47	0.04	0.54	0.29	0.68	0.33	0.11	0.48	0.54	0.18	-0.07	0.06	0.57	0.14	-0.0775	-0.065	-0.2175	0.71295	0.740124	0.322781	0.999971	1	0.855848	
Dpfl44	D31XU0	-1.44	-0.78	-0.59	-0.63	-0.6	-0.56	-0.87	-0.73	-0.57	-1.21	-0.91	-0.45	-0.35	-0.59	-1.1	-0.54	0.17	0.075	0.215	0.48794	0.786936	0.4338	0.999971	1	0.883105	
Dpfl45	D39JVV1	2.13	0.16	1.16	0.09	-0.17	0.4	1.5	1.36	-0.02	2.21	0.48	-0.86	0.17	-0.35	0.02	-0.0675	-0.3725	-0.195	0.908754	0.61719	0.059081	0.999971	1	0.725348		
Dpfl46	D3YV13	2.12	1.39	1.45	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	-0.03	0.511778	0.847928	0.943978	0.999971	1	0.857921	
Dpfl47	D39P30	-1.66	0.04	-0.62	-1.34	0.16	-0.25	0.03	-0.48	0.2	-1.44	-0.58	-0.51	0.49	-0.74	-0.78	-1.33	0.76	0.3125	0.305	0						

E2f2ak2	Q03963	3.27	-0.63	0.12	-0.51	0.97	1.07	-0.08	-0.43	0.96	0.93	-1.59	-0.21	-2.17	0.32	-1.48	-0.77	-0.18	-0.54	-1.5875	0.839263	0.587522	0.121641	0.999971	1	0.78268	
E2f2ak3	Q92285	1.56	-0.02	-1.63	-0.66	0.18	0.75	-0.94	-1.12	0.59	1.12	-0.91	-0.64	-0.08	-0.48	-0.48	-0.11	-0.0975	0.245	0.2475	0.893312	0.747325	0.721728	0.999971	1	0.955137	
E2f2ak4	A2AJU0D	0.97	-0.82	-0.12	0.43	0.48	0.57	-0.47	-0.47	0.31	0.85	-0.09	0.01	0.36	0.73	0.33	0.34	-1.86	-0.175	0.1775	0.624562	0.460762	0.999971	1	0.890303		
E2f2b1	Q99L08	0.15	-0.33	-0.16	-0.22	-0.29	-0.66	-0.33	-0.32	-0.15	-0.26	-0.28	-0.34	-0.75	-0.43	-0.44	-0.21	-0.26	-0.1175	0.073705	0.521324	0.149337	0.999971	1	0.793248		
E2f2b2	Q99L09	1.48	0.58	0.12	0.56	0.24	0.77	0.38	0.25	0.25	0.17	0.34	0.42	-0.65	-0.27	0.02	0.54	-0.275	-0.14	-0.775	0.393171	0.689799	0.061692	0.999971	1	0.725348	
E2f2b3	81AU02	-0.27	0.85	1.88	1.15	0.99	0.29	1.31	1.9	0.91	-0.32	1.83	1.87	-0.89	-0.15	1.77	1.46	0.22	0.17	0.165	0.671365	0.785331	0.755022	0.999971	1	0.96116	
E2f2b4	Q12780	1.23	0.06	0.74	1.33	1.27	0.8	0.52	0.99	1.13	0.64	0.84	1.03	1.23	0.45	0.72	1.03	1.25	-0.225	-0.15	-0.225	0.338116	0.506193	0.036392	0.999971	1	0.871616
E2f2b5	Q8CHW4	-0.16	-0.76	-0.31	-0.14	2.08	1.42	0.07	-0.07	0.21	0.48	-0.08	-0.11	2.47	1.41	-0.5	-0.28	0.5875	0.3625	0.4875	0.378992	0.600042	0.335054	0.999971	1	0.910077	
E2f2d1	Q62121	0.5	1.27	0.39	0.48	0.48	0.68	0.25	0.42	0.22	0.49	0.53	0.11	0.17	0.31	1.17	0.98	0.475	-0.0725	0.2475	0.793118	0.693629	0.373012	0.999971	1	0.869526	
E2f2z1	Q62W26	0.51	1.1	1.39	1.49	0.99	0.98	1.05	1.63	1.2	0.89	1.58	1.48	1.11	1.19	1.54	1.98	0.04	0.165	0.3325	0.888016	0.563311	0.291297	0.999971	1	0.847402	
E2f2z2	Q95445	0.97	1.56	1.28	0.94	1.45	1.93	1.39	1.36	1.72	1.5	1.15	1.12	1.48	1.39	1.17	0.345	0.205	0.1025	0.165373	0.388053	0.238317	0.999971	1	0.933031		
E2f2z3	Q920N1	0.63	0.8	0.77	0.82	0.74	1.08	1.01	0.93	1.17	1.07	1.23	0.45	0.33	0.75	0.5	0.18	0.335	0.1025	0.310707	0.056524	0.295101	0.999971	1	0.934061		
E2f2z3y	Q920N2	-1.71	2.25	1.76	-2.02	1.43	-1	-1.63	-1.76	-1.94	0.93	1.21	-2.23	0.21	0.25	1.73	-1.58	0.005	-0.5775	0.0825	0.996815	0.657677	0.943664	1	1	0.99692	
E2f3a	P21116	1.23	0.78	1	1.14	0.88	0.74	1.36	1.29	0.93	1.11	1.23	1.17	0.58	0.94	1.1	1.16	0.03	0.0725	-0.0925	0.829545	0.695506	0.665351	0.999971	1	0.93697	
E2f3b	Q8QZ09	0.33	1.14	0.85	1.01	1.05	1.14	0.79	1.11	1.23	0.83	1.08	1.04	1.11	1.36	1.17	1.27	0.19	0.2125	0.395	0.421544	0.368899	0.108995	0.999971	1	0.78208	
E2f3c	Q8R184	0.08	1.06	0.33	0.99	0.97	0.54	-0.69	-0.22	0.13	0.36	0.39	0.16	0.44	0.33	1.47	1.37	0.245	0.2825	0.405	0.413438	0.394395	0.192772	0.999971	1	0.810547	
E2f3d	Q70194	0.14	1.19	1.3	0.92	1.23	0.81	1.27	1.31	1.27	0.35	1.21	1.33	1.45	1.01	1.47	1.28	0.3375	0.2225	0.485	0.340418	0.569712	0.181126	0.999971	1	0.808532	
E2f3f	P60229	0.47	1.35	0.97	0.86	1.29	1.34	0.72	1.41	1.48	0.93	1.34	1.28	1.54	1.56	1.31	1.31	0.2775	0.3045	0.5175	0.306847	0.181685	0.049258	0.999971	1	0.715024	
E2f3f	Q9C0H4	-0.18	0.78	0.69	0.86	0.65	0.59	0.5	0.99	0.6	0.48	0.63	0.85	0.53	0.93	0.97	1.16	0.145	0.1025	0.36	0.606995	0.706322	0.233167	0.999971	1	0.831526	
E2f3g	Q92101	1.29	1.58	1.18	1.47	1.59	1.19	1.24	1.43	1.84	1.83	1.27	1.25	1.55	1.9	1.12	1.39	0.16	0.1675	0.111	0.461676	0.465664	0.29914	0.999971	1	0.932549	
E2f3h	Q91W02	0.41	1.13	1.3	0.98	0.79	1.33	2.23	1	0.96	0.63	1.04	1.37	0.99	0.82	1.46	1	0.4075	0.045	0.0975	0.271597	0.865277	0.711092	0.999971	1	0.950696	
E2f3h	Q9QZ09	0.9	1.45	1.34	0.62	1.25	1.43	1.38	1.12	1.38	1.12	1.38	1.69	1.58	1.33	1.34	1.04	0.2175	0.3025	0.2325	0.374027	0.259916	0.360848	0.999971	1	0.869526	
E2f3j1	Q3UGC7	0.87	1.52	1.25	1.11	1.07	2.03	1.43	1.13	1.48	1.42	1.57	1.86	1.35	1.36	1.36	1.21	0.2275	0.395	0.1325	0.410402	0.090266	0.513296	0.999971	1	0.905815	
E2f3k	Q9QZ05	0.51	0.85	0.38	0.89	0.67	0.84	0.33	0.97	0.66	0.66	0.67	0.6	0.99	1.47	0.98	0.55	0.045	-0.01	0.44	0.34284	0.957822	0.073125	0.999971	1	0.745482	
E2f3k	Q8QZV1	0.23	2.39	0.87	0.79	2.64	1.81	0.75	1.07	2.93	0.5	1.17	1.4	1.78	1.53	1.16	1.26	0.4975	0.4	0.8625	0.39528	0.503231	0.28973	0.999971	1	0.833594	
E2f3m	Q99J04	-1.1	1.44	0.79	0.75	1.17	1.28	0.8	1.07	1.4	-0.05	0.95	1.23	1.24	1.52	1.06	1.26	0.61	0.4125	0.8	0.254747	0.486904	0.145944	0.999971	1	0.791767	
E2f4a1	P60843	0.22	0.6	1.28	1.35	0.77	0.39	0.86	1.55	0.72	0.31	1.35	1.44	1.01	1.09	1.62	1.97	0.03	0.0925	0.56	0.932894	0.80365	0.13626	0.999971	1	0.789448	
E2f4a2	P10630	0.62	1.47	1.08	0.91	1.44	1.51	1.03	1.06	1.56	1.55	1.51	1.61	1.54	1.43	1.19	1.44	0.24	0.4375	0.38	0.343902	0.092905	0.206837	0.999971	1	0.781393	
E2f4a3	Q91VC3	0.43	0.48	0.47	0.25	0.33	0.06	-0.39	0.06	0.39	0.06	-0.04	0.37	0.13	0.01	0.44	0.33	-0.0175	0.708043	0.398622	-0.394117	0.999971	1	0.999971	1	0.999971	
E2f4a3	Q88G09	1.18	-0.34	0.95	1.15	-0.45	-0.11	1.16	0.95	-0.26	0.46	0.7	0.71	-0.87	-0.42	0.85	-0.98	-0.3475	-0.3325	-0.6	0.489979	0.425301	0.283809	0.999971	1	0.844538	
E2f4e	P63073	-0.28	1.61	1.37	1.1	1.53	1.36	0.86	1.74	1.11	0.17	1.49	1.83	1.66	1.61	1.66	1.89	0.4225	0.2	0.755	0.346148	0.688896	0.091907	0.999971	1	0.737739	
E2f4e2	Q12730	2.17	-0.2	0.24	0.36	-0.33	0.58	1.6	-0.07	-0.24	-0.49	0.47	0.29	-0.46	-0.19	0.49	-0.21	-0.1975	-0.39	-0.75	0.749263	0.453678	0.181498	0.999971	1	0.808532	
E2f4e2g	P70445	0.7	1.06	0.31	0.99	0.97	0.54	-0.64	-0.5	-0.36	-0.27	-0.91	-0.31	1.06	0.73	-0.22	0	-0.1225	-0.455	0.4	0.719913	0.13413	0.291008	0.999971	1	0.871616	
E2f4e4f1	Q9E5T3	0.25	0.23	-0.1	0.02	0.43	0.2	0.14	0.14	0.24	0.2	0.74	0.97	0.41	0.7	0.15	0.36	0.1275	0.4375	0.305	0.493465	0.094011	0.154502	0.999971	1	0.795578	
E2f4e4f1	Q6NZ16	0.87	1.12	1.34	1.39	1.27	1.06	1.34	1.32	1.29	1.27	1.43	1.55	0.97	1.14	1.24	1.43	0.0675	0.205	0.015	0.731828	0.306533	0.942159	0.999971	1	0.996889	
E2f4e4f1	D6RCH1	1.34	1.3	-0.66	0.88	1.04	0.87	-1.42	0.9	0.87	1.43	0.77	-2.62	-0.3	1.2	-0.64	0.64	-0.3675	-0.9875	-0.49	0.593914	0.301392	0.407895	0.999971	1	0.874911	
E2f4e4f1	Q6Z448	1.07	0.58	1.14	0.91	1.09	0.86	1.03	0.72	1.07	1.01	1.19	1.18	1.08	0.84	0.1	0.05	0.105	0.105	-0.112	0.935983	0.331881	0.148897	0.999971	1	0.999971	
E2f4e4f1	G3X1A1	-1.23	0.71	-0.12	-0.89	0.69	0.55	-0.05	0.5	td																	



Epn3	Q91W69	0.37	0.58	-0.32	0.17	0.38	-0.56	-0.46	-0.13	-0.59	-0.37	-0.43	1.04	1.09	-0.36	0.49	-0.18	-0.3925	-0.2875	0.06	0.207246	0.485709	0.872013	0.999971	1	0.984109	
Epn3	Q8CGC7	0.78	1.39	1.46	1.76	1.37	1.45	2.06	1.92	1.81	1.41	2.14	2.17	1.44	1.81	2.05	1.77	0.5325	0.585	0.42	0.231821	0.087175	0.137612	0.999971	1	0.784948	
Ep15	P42561	-0.15	-0.48	-0.48	-0.73	-1.24	-1.62	-0.62	-0.54	-0.28	-1.46	-0.91	-1.42	-0.27	-0.23	-0.1325	-0.1025	0.165	0.602125	0.750649	0.139549	0.999971	1	0.93101	0.764948		
Ep151l	Q60902	-0.47	-0.81	-0.4	-0.25	-0.75	-0.86	-0.54	-0.37	-0.74	-1	-0.32	-0.21	-0.75	-0.85	-0.34	-0.24	-0.1475	-0.085	-0.0625	0.490611	0.730596	0.786238	0.999971	1	0.967132	
Ep151l_1	Q60902-4	-0.49	-0.5	-0.73	0.26	0	0.38	-0.56	0.56	-0.12	-0.23	-0.17	-0.71	-0.29	0.56	0.82	0.45	0.095	-0.3075	0.385	0.801227	0.363728	0.3172	0.999971	1	0.853841	
Epn3	Q8S059	-0.18	-0.72	0.01	-0.85	-0.56	-0.73	-0.08	-0.19	-0.71	-0.55	0.01	0.28	-0.21	-0.84	0.11	-0.32	0.405	0.1925	0.12	0.870201	0.545422	0.687119	0.999971	1	0.945467	
Epn3	Q9K310	-0.5	0.86	0.96	0.68	0.79	1.21	-0.22	0.24	-0.12	-1.51	-1.22	1.44	0.98	-1.41	-1.66	-1.35	-1.05	-0.1175	-0.035	-0.119	0.63614	0.873953	0.16668	0.999971	1	0.94048
Era1	Q8ZU4	-0.09	-0.93	-0.61	-0.29	-1.09	-1.16	-0.36	-0.25	-0.88	-0.91	-0.39	-0.4	-0.85	-1.1	-0.01	-0.17	-0.235	-0.166	-0.0525	0.452055	0.525839	0.870833	0.999971	1	0.984109	
Era1	Q9EHQ2	-0.23	-0.47	-0.91	-0.7	0.68	0.15	-0.32	-0.72	0.32	0.05	-0.43	-0.09	0.12	0.29	-0.33	-0.85	-0.29	0.305	0.15	0.484922	0.381016	0.697563	0.999971	1	0.947479	
Ern3	Q61526	0.33	-0.06	-1.09	-1.41	-0.01	-0.34	-1.48	-1.47	-0.23	-0.34	-0.81	-0.93	-0.04	-0.24	-0.45	-0.63	-0.265	-0.02	0.2375	0.618813	0.962428	0.571782	0.999971	1	0.91816	
Ern3	Q61527-3	-0.73	-1.48	-0.48	-0.73	-0.23	-0.62	-0.64	-0.62	-0.64	-0.62	-0.61	-1.03	-0.49	-0.62	-0.61	-1.03	-0.49	-0.62	0.165	0.888738	0.607244	0.480096	0.999971	1	0.894428	
Ern3	Q8HT02-2	0.36	-1.2	-0.55	-0.4	-1	-1.21	-0.42	-0.73	-1.13	-0.22	-1.21	-0.85	-1.17	-1.32	-0.91	-1.07	-0.3575	-0.37	-0.635	0.309552	0.325118	0.707514	0.999971	1	0.735439	
Ercl	V96WT6	-0.04	-0.09	-0.22	-0.83	-0.05	-0.21	-1.07	-0.84	-0.8	-0.71	-0.46	-0.08	0.6	0.15	-0.33	0.11	-0.2475	-0.2175	0.1275	0.433784	0.418591	0.6447	0.999971	1	0.93301	
Ercl_1	V96XH3	-0.19	-0.91	-0.99	-0.93	-0.72	-0.76	-0.78	-0.85	-0.56	-0.21	-0.57	-0.53	-0.59	-0.98	-0.97	-0.65	-0.2285	-0.2875	-0.0425	0.52182	0.248267	0.862914	0.999971	1	0.982963	
Ercl2	Q3UH17	-0.9	-0.81	-1.39	-1.05	-0.47	-1.11	-2.04	-0.78	-1.23	-0.83	-1.49	-1.25	0.69	-0.53	-1.26	-0.85	-0.0625	-0.1625	0.55	0.88025	0.476579	0.120212	0.999971	1	0.822657	
Ercl_1	Q6PM08	-1.12	-1.59	-1.06	-0.94	-0.92	-1.45	-0.9	-1.21	-1.51	-1.22	1.44	0.98	-1.41	-1.66	-1.35	-1.05	-0.1175	-0.035	-0.119	0.63614	0.873953	0.16668	0.999971	1	0.94048	
Ercl3	Q08811	0.6	1.33	1.67	0.38	1.46	0.85	1.31	2.09	1.1	0.64	1.38	1.57	0.62	1.72	1.63	2.45	-0.0675	-0.3225	0.11	0.873988	0.433054	0.822847	0.999971	1	0.975901	
Ercl3	P49135	0.61	1.15	1.3	1.34	0.85	0.93	0.28	0.74	0.75	0.9	1.42	2.24	1.02	1.49	1.8	1.73	-0.15	0.2275	0.41	0.661335	0.539316	0.148888	0.999971	1	0.793248	
Ercl4	Q9QZ04	1.55	1.77	1.08	1.63	1.52	1.64	1.04	1.52	1.49	1.73	1.24	1.02	1.24	1.97	1.29	1.59	-0.06	-0.12	0.0325	0.79511	0.617693	0.895846	0.999971	1	0.988571	
Ercl	P70450	0.24	0.58	1.24	0.73	0.69	0.22	0.53	1.09	0.35	0.45	1.46	0.58	-0.02	0.45	0.59	1.03	-0.11	0.0125	-0.185	0.710051	0.969383	0.550871	0.999971	1	0.912169	
Ercl2	Q8RY9	-4.95	-3.09	-3.59	-3.91	-1.6	-3.44	-3.83	-3.39	-2.24	-4.57	-3	-2.59	-1.87	-3.13	-2.78	-4.35	0.82	0.786	0.8525	0.181888	0.209483	0.174351	0.999971	1	0.807788	
Ercl2	F6SLP4	-0.36	0.16	0.2	0.26	0	0.48	0.33	0.18	0.31	0.24	0.06	0.29	0.71	0.8	0.27	0.57	0.1825	0.16	0.5225	0.416369	0.44208	0.043007	0.999971	1	0.701725	
Ercl2	Q9C8R9	-0.33	1.06	0.99	0.89	0.7	1.14	1.05	0.98	0.86	0.51	0.88	0.14	1.92	1.2	0.49	0.93	0.315	-0.055	0.4825	0.366465	0.879771	0.271988	0.999971	1	0.843794	
Ercl2	Q9CGC7	0.04	0.42	1.17	0.06	0.71	0.52	1.7	0.54	0.75	-0.1	1.8	1.99	0.76	0.22	0.89	0.32	0.445	-0.6875	0.125	0.252558	0.204768	0.69278	0.999971	1	0.947174	
Ern	P84085	0.37	0.2	0.14	-0.2	0.05	0.56	0.21	0.85	0.04	0.48	-0.34	-1.29	-0.05	0.45	-0.21	-0.12	0.365	-0.405	-0.11	0.548419	0.305317	0.633843	0.999971	1	0.93301	
Ern1	Q8C460	1.44	1.45	1.08	1.15	1.14	1.7	0.84	1.2	1.33	1.56	0.88	0.64	1.86	1.57	1.28	1.38	-0.06	-0.1775	0.2425	0.80003	0.491187	0.268605	0.999971	1	0.842746	
Ern1	Q8VEH8	-0.37	0.44	0.18	0.09	0.37	0.42	0.46	0.54	0.35	-0.04	0.13	-0.04	0.73	0.63	0.54	0.56	0.3625	0.051	0.53	0.121323	0.947599	0.936553	0.999971	1	0.700096	
Ern1	Q91X78	-0.36	-1.06	0.34	0.55	-0.53	-1.08	0.33	0.56	-0.36	-0.51	0.86	0.66	-1.08	-0.65	0.62	0.77	-0.0475	-0.295	0.0475	0.242479	0.537372	0.300105	0.999971	1	0.959254	
Ern2	Q8BF29	-0.37	-0.15	-0.1	0.18	-0.02	-0.11	0.86	0.08	0.12	0.18	0.21	0.14	0.15	0.28	0.22	0.14	0.15	0.28	0.025	0.455869	0.272854	0.908033	0.999971	1	0.739337	
Ernn	Q5E84	-0.29	-1.08	-0.9	-0.94	-1.54	-0.94	-1.69	-0.92	-1.46	-1.02	-1.82	-1.33	-1.16	-0.97	-0.89	-0.98	-0.47	-0.605	-0.1975	0.121438	0.433758	0.392527	0.999971	1	0.871816	
Ernn	Q3UUV0	-0.09	-0.07	-0.58	-0.65	-0.44	0.12	-0.64	-0.29	-0.4	-0.01	-0.5	-0.18	-0.07	0.03	-0.3	0.19	0.035	0.075	0.31	0.889075	0.741671	0.195116	0.999971	1	0.811225	
Ernn	Q8L880	0.35	0.42	0.48	0.67	0.24	0.45	0.57	0.46	0.33	0.41	0.44	0.67	0.2	0.62	0.62	0.82	-0.05	-0.0175	0.085	0.77962	0.920607	0.78904	0.999971	1	0.942594	
Ernn	A0213B9	0.1	2.19	1.48	0.94	0.92	1.45	1.04	1.27	1.44	1.52	1.42	0.98	1.4	2.68	2.45	2.41	-0.0975	-0.17658	0.0975	0.17658	0.25112	0.18986	0.999971	1	0.959254	
Ernn	Q8R29	-1.33	-0.24	0.08	-0.09	0.06	-0.36	-0.08	-0.73	-0.48	-1.06	-0.25	0.42	0.45	-0.27	-0.61	0.23	0.0375	-0.0675	0.225	0.923417	0.879332	0.587254	0.999971	1	0.920758	
Ernn	P57759	-0.6	-0.01	0.19	0.25	0.08	0.16	0.13	0.37	0.2	-0.51	0.58	0.65	0.64	0.4	0.71	0.65	0.2275	-0.2765	0.6425	0.351956	0.146415	0.023662	0.999971	1	0.663563	
Ernn	Q9QZ06	0.43	0.87	0.53	0.68	1.17	0.77	0.65	0.85	1.48	0.69	0.76	1.14	2.01	0.77	0.89	0.81	0.2325	0.39	0.4925	0.269723	0.128264	0.146057	0.999971	1	0.791767	
Ernn	Q925F2	0.49	0.32	0.32	0.39	1.69	0.02	0.43	0.9	0.45	1.05	0.49	0.45	0.45	0.59	1.03	-0.11	-0.175	0.035	0.03	0.768074	0.601497	0.738822	0.999971	1	0.914169	
Ernn	H3L8	-0.27	1.93	1.61	0.72	1.49	1.82	1.14	1.21	1.91	-0.01	1.24	0.56	1.32	1.39	1.31	0.38	0.1475	-0.0725	0.1025	0.396633	0.902696	0.804577	0.999971	1	0.937975	
Ernn	Q3UW6	0.92	1.55	2.25	3.04	1.02	0.82	2.29	2.39	0.09	-0.55	2.35	1.41	-0.26	0.84	2.31	2.22	-0.31	-1.115	-0.6625	0.585595	0.14959	0.351679	0.999971	1	0.867656	
Ernn	Q3U7R1	-0.26	-0.27	-0.98	-0.65	0.14	-0.46	-1.46	-1.18	-0.25	-0.09	-0.91	-0.59	-0.57	-0.29	0.74	-0.75	-0.2	0.08	-0.0475	0.606204	0.766805	0.841843	0.999971	1	0.979814	
Ernn	Q3U7Z2	-1.37	-0.41	-0.65	-1.62	-0.03	-0.72	-0.71	-1.14	-0.07	-1.27	-0.57	-0.31	0.24	-0.75	-0.63	-1.29	0.3625	0.455	0.405	0.374708	0.243385	0.335408	0.999971	1	0.858827	
Ernn	Q8RY9	0.38	0.94	0.1	-0.02	0.53	0.55	0.72	0.67	0.16	0.68	0.1	0.17	0.62	0.18	0.12	0.115	0.63917	0.1	0.115	0.63917	0.186022	0.6472	0.999971	1	0.959254	
Ernn	Q9CL5	-1.18	-0.39	0.34	0.46	-0.78	-0.13	0.85	0.29	-0.71	0.67	-0.44	-0.55	-0.02	-0.4	-0.2	-0.23	-0.34	-0.555	-0.86	0.45045	0.213839	0.040339	0.999971	1	0.700838	
Ernn	Q9CQW4	-2.04	-2.27	-0.06	-0.11	-1.76	-2.57	-0.15	-1.72	-2.47	-0.15	-0.15	-0.16	-2.46	-0.13	-0.07	0.0375	-0.0025	0.0825	0.962299	0.997365	0.915453	0.999971	1	0.992633		
Ernn	Q9Z1G7	-0.12	-0.35	-0.39	-0.28	-0.56	-0.43	-0.72	-0.09	-0.43	-0.13	-0.58	-0.47	-0.34	-0.31	-0.43	-0.23	-0.105	-0.1175	-0.0425	0.424479	0.52494	0.802593	0.999971	1	0.917467	
Ernn	Q9CQW0	-0.16	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.165	0.938458	0.12717	0.874727	0.999971	1	0.959254	
Ernn	EQU04	-0.76	-0.93	-1.21	-1.31	-0.96	-0.9	-1.2	-1.43	-1.11	-0.89	-1.35	-1.61	-0.81	-1.05												

Fam8a1	G3UR04	2.69	-0.85	0.95	1.22	-0.09	-0.46	1.87	0.51	-1.34	0.67	0.28	-0.02	-2.28	-1.13	0.09	0.1	-0.7475	-1.105	-1.8075	0.391106	0.175597	0.053994	0.999971	1	0.725348	
Fam9a1a	G3IUV3	-0.63	-0.3	0.08	-0.21	0.01	-0.12	0.68	-0.14	-0.07	0.77	-0.11	-0.14	-0.81	-0.68	-0.09	-0.57	0.3725	0.01	-0.2725	0.182784	0.966368	0.284292	0.999971	1	0.844538	
Fam9a	Q3T126	0.01	0.76	0.13	0.63	0.01	-0.08	0.33	0.52	0.55	-0.13	0.82	0.86	0.74	-0.19	0.01	0.39	0.74	-0.1075	0.1725	-0.04	0.740731	0.608033	0.902172	0.999971	1	0.990759
Fam9b	Q8YV01	1.32	1.53	1.2	0.9	1.16	1.47	0.88	1.26	0.89	1.27	0.69	0.89	0.24	1.7	1.12	0.8	-0.0425	-0.3025	-0.2775	0.874878	0.192143	0.420483	0.999971	1	0.877788	
Fam9bC	E9P011	2.13	0.88	1.76	1.79	0.75	0.96	1.75	1.96	0.74	1.5	1.35	-0.12	-0.17	0.94	1.51	1.55	-0.285	-0.7725	-0.6825	0.464211	0.10097	0.157423	0.999971	1	0.797252	
Far1	OZ9239	-0.55	-0.94	-1.54	-1.21	-0.45	-1.09	-1.73	-0.97	-0.58	-0.42	-1.27	-1.12	0.6	-0.42	-1.27	-0.38	-1.18E-16	0.2125	0.6925	-1	0.486517	0.122544	1	1	0.78268	
Farp1	F8P012	-0.16	-0.42	0.76	-0.85	-0.37	-1.15	-0.65	-0.77	-1.19	-0.73	-0.57	-0.65	-0.81	-1.09	-0.38	0.54	-0.1375	-0.1625	-0.15	0.090185	0.462032	0.500825	0.999971	1	0.960123	
Farp2	O91V58	-0.91	-0.99	-1.57	-1.87	-0.81	-1.11	-1.08	-2.09	-0.8	-0.42	-1.56	-0.75	-0.32	-0.87	-1.74	-1.35	0.065	-0.4525	-0.265	0.855186	0.197073	0.483984	0.999971	1	0.896352	
Farp3	O99M01	1.08	-2.32	-0.42	-0.28	-2.44	-1.89	0.16	-0.3	-2.51	0.48	-0.3	-0.33	-2.75	-1.8	-0.43	-0.23	-0.6325	-1.8	-0.8175	0.458484	0.833779	0.359566	0.999971	1	0.558827	
Farsa	O8OC07	1.34	1.71	1.83	1.53	1.61	1.16	2.11	1.68	1.68	1.83	1.95	2.06	1.51	1.76	1.76	2.04	0.1475	0.2775	0.165	0.491458	0.176067	0.433035	0.999971	1	0.882137	
Farsb	Q3V0A2	0.01	0.28	0.02	0.1	0.01	-0.08	0.33	0.52	0.55	-0.13	0.82	0.86	0.74	-0.19	0.01	0.39	0.74	-0.1075	0.1725	-0.04	0.365531	0.418307	0.213129	0.999971	1	0.824551
Fasn	P19096	-0.26	-0.17	-0.05	-0.1	-0.33	-0.14	-0.13	-0.13	-0.21	-0.11	-0.08	-0.12	-0.16	-0.08	-0.1	-0.015	0.0275	0.01	0.388071	0.937522	0.551278	0.999971	1	0.989506		
Fastk2d	OZ92E6	1.08	-0.34	0.13	-0.17	-0.44	-0.62	-0.41	-0.16	-0.67	-0.35	-0.41	-0.21	-1.26	-0.73	-0.34	-0.05	-0.3575	-0.185	-0.545	0.112693	0.49596	0.959814	0.999971	1	0.78268	
Fastk5	OT7M/V3	-1.77	0.09	-0.25	-0.34	-0.22	-0.83	-0.13	-0.24	-0.4	-0.83	-0.3	-0.18	-0.29	-0.66	-0.63	-1	0.2125	0.14	0.0675	0.614321	0.7364	0.88438	0.999971	1	0.98711	
Fat1	P2ZAA3	-0.23	-1.09	-0.77	-0.79	-1.16	-1.19	-0.21	-0.95	-1.31	-0.63	-1.02	-0.94	-1.23	-1.17	-0.7	-0.56	-0.1575	-0.225	-0.195	0.603177	0.262314	0.471581	0.999971	1	0.892657	
Fat2	E9K016	-0.16	-0.42	0.76	-0.85	-0.37	-1.15	-0.65	-0.77	-1.19	-0.73	-0.57	-0.65	-0.81	-1.09	-0.38	0.54	-0.1375	-0.1625	-0.15	0.090185	0.462032	0.500825	0.999971	1	0.960123	
Fat3	OZ92L6	0.54	-0.87	-1.08	-0.27	-0.59	-0.97	-0.92	-0.84	-0.51	0.09	-1.6	-1.42	-0.52	-0.74	-0.93	-0.67	-0.125	-0.575	-0.43	0.818997	0.290393	0.294596	0.999971	1	0.847402	
Fauc	G3UM/P9	-0.84	-0.65	1.07	1.07	-1.17	-0.79	0.5	0.56	-0.83	0.18	1.33	1.68	0.23	-0.47	0.47	1.38	-0.3875	0.4275	0.24	0.539791	0.545212	0.687508	0.999971	1	0.945573	
Fbnc1	Q8C929	1.07	2.52	2.19	1.97	2.33	2.2	1.4	1.03	2.27	0.98	0.96	-0.03	1.26	1.17	1.44	1.23	-0.1975	-0.8025	-0.6625	0.630919	0.116555	0.063635	0.999971	1	0.725348	
Fbl	P31550	-1.38	-1.15	-2.3	-2.44	-0.83	-1.68	1.57	-2.63	-0.73	-1.26	1.66	1.46	1.48	1.28	1.71	1.09	0.2925	0.12	0.847167	0.50433	0.831941	0.999971	1	0.979036		
Fbl1	Q8WV53	-0.8	-1.24	-1.49	-1.6	-0.77	-1.49	-0.95	-1.82	-0.84	-0.98	-1.69	-1.73	-0.66	-1.16	-1.61	-1.7	0.025	-0.0275	-7.85E-17	0.934929	0.926991	1	0.999971	1	1	
Fbl2	O8879-2	2.2	1.57	0.98	1.32	1.96	1.62	0.85	0.81	1.96	2.94	1.39	1.29	1.52	1.55	1.21	1.45	-0.2075	0.3775	-0.085	0.581014	0.394739	0.764985	0.999971	1	0.962405	
Fbl5	AOA1Y7V1	0.19	-1.7	-2.45	0.53	0.63	1.34	1.44	-0.95	-0.95	0.42	4.91	6.09	7.93	-0.33	0.57	0.01	-0.22	2.75	6.595	0.19	0.090188	0.000129	0.844351	0.999971	1	0.19604
Fbln1	Q61554	0.74	0.29	0.49	1.54	4.96	0.43	0.7	0.06	1.3	3.14	3.69	7.02	-2.73	0.7	0.65	0.16	0.7725	0.3025	-1.02	0.469745	0.021493	0.220688	0.999971	1	0.827696	
Fbln2	O59M55	3.69	3.8	-0.14	0.97	5.95	2.77	-0.18	-0.96	2.74	4.6	0.97	3.37	-3.19	5.18	1.86	0.71	-0.185	-0.84	-1.295	0.910331	0.455195	0.481563	0.999971	1	0.858485	
Fblw15	O31W61	-0.27	0.51	1.56	1.58	0.11	0.32	0.95	1.49	0.34	0.17	1.55	-0.34	0.51	0.95	1.57	1.46	-0.1275	-0.015	0.2775	0.80124	0.46179	0.564226	0.999971	1	0.919708	
Fblw16	AJRT62	0.21	1.18	-0.33	-0.37	0.96	0.94	-0.32	-0.46	0.9	0.41	-0.38	-0.1	0.83	0.97	-0.48	-0.38	0.1075	0.035	0.0625	0.827115	0.935725	0.888758	0.999971	1	0.989644	
Fblw17	QZ92N1	1.22	1.52	-1.62	-1	-0.82	1.37	-0.89	0.34	-0.72	1.29	-1.17	-1.33	-0.28	1.4	-1.53	-1.45	0.43	-0.2525	-0.495	0.612686	0.869631	0.938717	0.999971	1	0.912377	
Fblw18	F8VQK6	0.01	0.86	0.1	0.08	0.1	0.64	0.1	0.2	0.69	0.83	0.16	0.1	0.51	0.88	0.4	0.015	-0.02187	-0.08954	-0.2725	0.646226	0.866027	0.754249	0.999971	1	0.960123	
Fblw19	O8H616	-0.8	1.53	-0.36	-2.31	0.53	1.25	-0.34	0.06	0.92	-1.03	0.74	-0.15	1.23	0.76	-1.75	-1.66	0.83	0.605	0.13	0.302397	0.592203	0.896137	0.999971	1	0.988571	
Fblw20	QZ9VZ8	0.32	1.56	0.48	0.34	1.27	1.67	-0.12	-0.49	1.58	0.96	0.18	-0.56	1.47	0.91	0.37	0.53	0.1525	-0.765	-0.145	0.743781	0.717226	0.689896	0.999971	1	0.947812	
Fbn1	Q8H710	1.48	1.63	-0.14	0.38	0.81	0.28	0.92	-0.73	-0.19	0.9	0.08	-0.5	-0.52	-0.07	-0.74	-0.51	-0.1575	-0.165	-1.2975	0.339252	0.144399	0.013559	0.999971	1	0.613095	
Fbn10	OT7QF2	0.15	0.75	0.27	0.26	0.22	0.15	1.26	1.37	-1.02	1.76	1.66	1.46	1.48	1.28	1.71	1.09	-0.2775	0.015	0.04	0.500221	0.972303	0.498165	0.999971	1	0.960123	
Fbnw11	OT7PD-3	1.99	0.5	0.78	1.37	0.27	0.84	0.48	1	0.05	1.68	0.56	0.37	-0.77	0.67	0.78	1.27	-0.1525	-0.495	-0.6725	0.180177	0.294822	0.209463	0.999971	1	0.822138	
Fbnw12	Q8DUW2	-0.12	1.01	-0.79	-0.9	-0.4	1.05	-1.19	-0.59	0.45	-0.18	-0.97	-1.23	1.16	0.9	-0.65	-1	0.1175	-0.2825	0.3025	0.846345	0.602844	0.636132	0.999971	1	0.93301	
Fbnw13	Q8VHD1	-0.49	0.43	0.36	-0.2	-0.11	-0.18	-0.32	-0.07	-0.05	-0.63	0.28	-0.22	-0.63	-0.38	0.25	0.15	-0.195	-0.18	-0.2525	0.45153	0.55211	0.409259	0.999971	1	0.875789	
Fbnw12	QZ1BES	1.2	1.15	-2.3	-2.44	-0.83	-1.68	1.57	-2.63	-0.73	-1.26	1.66	1.46	1.48	1.28	1.71	1.09	-0.2775	0.015	0.04	0.500221	0.972303	0.498165	0.999971	1	0.960123	
Fbnw3	O3OC63-3	-0.63	0.73	-0.05	-0.32	0.36	0.13	0.5	0.05	0.63	-0.37	0.43	0.56	0.59	-0.31	0.4	-0.13	0.2375	0.38	0.205	0.311	0.310794	0.566684	0.999971	1	0.919796	
Fbnw30	Q8B1L1	-0.14	-1.1	-0.22	-0.22	-0.29	-0.17	-0.1	-0.26	-0.68	-0.16	-0.37	-0.6	-0.46	-0.46	-0.09	0.03	0.1925	-0.0325	0.175	0.536874	0.90511	0.533024	0.999971	1	0.910609	
Fbnw31	Q3TQF0	2.3	-0.07	-1.07	-0.7	-0.16	0.59	-1.41	-0.88	-0.38	1.56	-0.48	-0.79	-0.63	0.18	-1.16	-0.53	-0.58	-0.1375	-0.65	0.467068	0.869546	0.383178	0.999971	1	0.871816	
Fbnw32	Q8BM00	1.78	0.06	0.03	0.06	0.4	0.27	0.69	0.54	-0.09	1.42	0.08	0.15	0.31	0.2	0.4	0.47	-0.2075	-0.0925	-0.1375	0.653487	0.857529	0.741327	0.999971	1	0.96105	
Fbnw33	Q8CH00	-0.01	-0.53	-0.12	-0.42	-0.16	-0.02	-0.05	-0.07	-0.06	0.3	-0.16	0.3	0.02	-0.1	0.16	0.3	-0.05	0.391615	0.01	0.823857	0.14449	0.999971	1	0.960123		
Fbnw34	O6NS60	-0.65	-1.13	-0.93	-0.84	-1.44	-1.07	-0.89	-0.95	-1.23	-0.76	-0.85	-1.01	-0.73	-0.97	-0.88	-0.43	-0.2	-0.075	0.135	0.353627	0.706239	0.512371	0.999971	1	0.907001	
Fbnw42	O6PD16	0.6	1.14	0.87	0.46	1.28	1.14	1.09	0.49	0.95	1.41	0.78	-0.23	1.39	1.02	0.48	0.31	0.2325	-0.04	0.0325	0.375049	0.913219	0.91357	0.999971	1	0.992621	
Fbnw44	AZAH75	-0.93	1.56	-0.4	-0.73	0.43	1.2	-0.73	-0.36	1.49	-0.59	0.12	0	1.53	2.37	0.05	-0.18	0.26	0.38	1.0675	0.690304	0.567841	0.180982	0.999971	1	0.808532	
Fbnw45	Q8A3B1	-0.18	-1.1	-1.1	-1.01	-0.52	-0.52	-0.14	0.33	-0.08	-0.17	0.66	-0.55	0.18	0.71	0.34	0.34	0.1175	-0.2025	-0.225	0.553029	0.835119	0.929205	0.999971	1	0.960123	
Fbnw6	OZ9QZ4	-0.07	-0.1	0.09	-0.21	-0.53	-0.52	-0.14	0.33	-0.08	-0.17	0.66	-0.55	0.18	0.71	0.34											

Foaj3	Q8URJ3-2	3.02	2.39	0.02	0.8	2.35	0.88	0.39	1.37	2.26	2.99	0.74	1.02	1.36	3.15	0.21	1.27	-0.31	0.195	-0.06	0.672668	0.805047	0.942308	0.999971	1	0.996889	
Foak1	P4J218	2.33	2.29	2.71	2.88	1.98	2	2.31	2.72	1.93	2.28	2.71	3.16	1.84	2.27	2.64	3.27	0.3	-0.0325	-0.0475	0.253757	0.915556	0.887027	0.999971	1	0.987485	
Foak2	Q3UCU1-2	0.26	0.88	0.99	1.33	0.71	0.6	0.75	1.39	0.4	-0.06	1.15	1.06	-0.22	0.74	1.12	1.91	0.015	-0.2275	0.0025	0.959013	0.527507	0.961307	0.999971	1	0.998721	
Foak1	Q9R10	0.55	1.33	1.97	1.07	1.41	0.03	1.1	0.96	0.33	1.14	1.01	1.08	1.33	0.98	1.35	-1.18	0.18	0.195	0.125	0.781396	0.975557	0.885258	0.999971	1	0.987111	
Foak3	Q9WVW4	2.99	-0.6	0.58	0.13	0.03	-0.02	0.12	1.18	-0.79	2.36	0.8	1.05	-1.64	-0.57	0.75	0.89	-0.4625	0.08	-0.9175	0.540682	0.929968	0.312388	0.999971	1	0.849367	
Foap1	Q8A0K428	-0.13	1.45	2.51	2.21	1.38	0.18	1.52	2.49	1.88	1.11	2.63	2.42	0.11	0.53	2.16	2.1	-1.1175	0.3	-0.2725	0.863745	0.431477	0.706588	0.999971	1	0.950182	
Foap1	Q3TQ82	0.09	-0.52	0.98	-0.76	-0.62	-0.67	0.94	-0.73	0.54	-0.56	-0.75	-0.41	-0.32	-0.78	-0.44	-0.18	0.225	0.046613	-0.295	0.846613	0.128913	0.961403	0.999971	1	0.965459	
Fras1	Q8OT14	-0.11	-0.36	-0.9	-0.22	-0.95	0	-0.71	-0.61	-0.6	-0.34	-1.14	-0.01	-0.48	-0.45	-0.26	0.34	-0.17	-0.125	0.185	0.550918	0.681049	0.508878	0.999971	1	0.905815	
Frg1	P97376	1.65	1.32	0.47	0.55	1.66	1.69	0.02	0.41	1.37	2.39	0.66	1.38	1.32	2.11	0.68	1.18	-0.0525	0.4525	0.325	0.913178	0.313472	0.422836	0.999971	1	0.878787	
FrmD3	Q8BH04	-1.11	0.7	-0.23	0.06	-0.53	-0.31	-1.63	-0.59	-0.45	-0.59	-0.14	1.52	0.35	-0.57	-0.03	-0.355	-0.125	0.4625	0.513515	0.749915	0.39855	0.999971	1	0.878186		
FrmD4a	H3BZ71	-0.44	-0.43	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	0.0055	0.808972	0.574255	0.968707	0.999971	1	0.979814	
FrmD4b	Q6ZD04	1.89	-1.58	-1.79	-0.77	-1.33	-0.43	-1.97	-0.57	-0.53	-0.84	-1.92	-1.84	-0.09	-1.04	-1.08	-0.76	-0.525	0.2	-0.1625	0.600005	0.863394	0.999971	1	0.907079		
FrmD5	A2AR56	0.46	0.47	-0.34	-0.41	-0.43	-0.17	-0.53	-0.17	-0.2	0.83	-0.74	-0.77	1.06	1.13	-0.47	0.03	-0.37	-0.265	0.1425	0.203478	0.536308	0.713375	0.999971	1	0.951793	
FrmD5	Q3JUF8	1.28	-1.21	-0.77	-1.16	-1.52	-0.68	-1.23	-1.26	-1.55	-0.41	-1.47	-1.29	-1.88	-1.39	-1.05	-1.25	-0.7075	-0.1	-0.9275	0.320953	0.463483	0.12809	0.999971	1	0.784371	
FrmD1	A2AX84	1.13	1.35	0.29	0.78	1.44	1.2	0.21	0.41	1.28	0.81	0.02	-0.39	0.32	1.21	-0.61	-0.44	-0.0775	-0.4575	-0.7675	0.843389	0.273892	0.311401	0.999971	1	0.782628	
FrmD3	AQ144QW	0.09	-0.64	-0.66	-0.74	-0.68	-0.74	-0.68	-0.74	-0.68	-0.74	-0.68	-0.74	-0.68	-0.74	-0.68	-0.74	-0.68	-0.74	0.295	0.846613	0.128913	0.961403	0.999971	1	0.965459	
FrmD4	AQAS85M8	0.58	0.42	-0.04	-0.11	0.5	0.61	-0.3	0.31	0.51	0.56	0.08	0.24	0.28	0.35	0.2	0.39	0.0125	0.08	0.0375	0.962722	0.719599	0.854103	0.999971	1	0.982125	
Frs12	BL1XW	0.99	-0.27	-0.36	-0.11	0.02	-0.19	-0.65	-0.09	-0.1	-0.1	-0.29	-0.24	0.03	-0.56	-0.73	-0.32	0.035	-0.245	-0.4575	0.922015	0.450698	0.721247	0.999971	1	0.823451	
Frs12	Q8C180	-0.98	-1.31	-1.32	-1.11	-1.42	-1.86	-1.52	-0.85	-1.43	-1.39	-1.2	-1.3	-0.52	-1.08	-1.11	-1	-0.2325	-0.15	0.2525	0.368633	0.401497	0.251642	0.999971	1	0.839012	
Frs3	Q91W10	-0.81	-1.1	-0.84	-1.1	-0.78	-0.62	-1.21	-1.13	-0.57	-1.1	-1.15	-1.16	-0.04	0.84	-1.24	-1.19	0.0275	-0.0325	0.115	0.89637	0.878545	0.652565	0.999971	1	0.934005	
Fry	AQAS85M8	-0.24	-0.03	0.14	0.14	0.04	0.01	0.1	0.29	0.04	0.17	0.26	0.38	0.28	0.17	0.24	0.56	0.1075	0.21	0.31	0.563822	0.270591	0.132422	0.999971	1	0.784948	
Fry-1	AQAD09YF	-0.08	-0.15	-0.68	-0.19	0.47	-0.43	-0.77	-0.1	0.06	-0.19	-0.07	0.68	0.53	0.15	0.03	0.35	0.0675	0.395	0.54	0.824585	0.153362	0.304534	0.999971	1	0.69205	
Fry1	F8V005	0.16	-0.11	0.03	0.41	-0.01	0.01	-0.18	0.36	-0.23	-0.2	0	0.09	-0.34	0.17	-0.17	0.23	-0.0775	-0.2075	-0.15	0.712182	0.300221	0.501859	0.999971	1	0.904573	
Frs1	Q61553	-0.77	-0.6	-0.92	-1.63	-0.51	-0.3	0.22	-1.45	-0.19	-0.81	-0.6	-0.53	0.9	-0.51	-1.2	-1.5	0.47	0.4475	-0.0475	0.256568	0.131801	0.87991	0.999971	1	0.905444	
Frs1	Q7TTPM6	-0.53	-0.64	-0.59	-0.65	-0.28	-0.42	-0.48	-0.64	-0.28	-0.21	-0.39	-0.27	-0.08	-0.12	-0.5	-0.21	0.475	0.315	0.375	0.399947	0.072832	0.062431	0.999971	1	0.725348	
Frs1d	EOCX21	-0.74	-0.52	0.08	0	-0.38	-0.34	-0.34	0.03	-0.27	-0.44	0.08	0.17	-0.11	-0.26	0.19	0.48	0.0375	0.18	0.37	0.880471	0.503318	0.202913	0.999971	1	0.816167	
Frs1d	Q5TE31	0.24	0.85	-1.15	0.19	0.81	1.7	-1	-0.2	0.39	0.02	-0.7	-0.28	0.62	0.26	0.18	0.59	0.295	-0.175	0.29	0.654981	0.700319	0.511149	0.999971	1	0.905815	
Frs1	P09528	1.36	2.01	1.18	0.44	1.34	3.23	0.48	1.05	0.52	0.71	0.99	-0.21	1.08	2.42	0.88	0.61	0.2775	-0.745	3.148-16	0.654576	0.087607		0.999971	1	0.999971	
Frs1	Q9CPW4	0.71	1.19	2.22	1.02	1.49	3.16	1.55	2.54	0.51	1.1	2.1	1.01	2.42	3.03	3.25	1.2	0.05	0.153	0.070994	0.542688	0.081815	0.999971	1	0.835388		
Frs1	Q8BWG1	1.28	1.49	2.12	2.08	1.4	1.34	1.5	2.13	1.16	1.46	1.77	2.19	1.25	1.57	2.04	2.35	-0.15	-0.0975	0.06	0.608136	0.753407	0.853273	0.999971	1	0.981887	
Frs1j	F6Q475	-1.66	0.53	1.44	-1.44	-0.29	0.82	-0.69	-0.82	0.16	-1.09	0.87	1.66	0.09	0.96	-1.94	-0.64	0.1825	0.6825	-0.1	0.812175	0.437243	0.908829	0.999971	1	0.991707	
Frs1j	Q9BOE8	-0.41	-0.98	0.06	-0.05	-0.74	-1.2	-0.69	-0.24	-1.07	-0.5	-0.55	-0.39	-1.22	-0.43	-0.2	0.17	-0.3975	-0.7075	-0.1	0.213238	0.3176	0.788482	0.999971	1	0.96741	
Frs1j	Q3TUE1	2.31	2.18	2.69	2.74	2.54	2.38	1.19	2.77	2.51	2.75	2.83	2.75	2.83	2.87	2.84	0.78	-0.02	0.045	0.854578	0.907715	0.452516	0.999971	1	0.982125		
Frs1j	A2A172	1.17	1.04	1.34	1.59	0.87	0.91	1.64	1.4	1.02	1.37	1.12	1.35	0.92	1.12	1.5	1.29	-0.08	-0.07	-0.0775	0.749996	0.727376	0.72721	0.999971	1	0.955528	
Frs1j	Q9O11	-0.51	0.43	1.29	0.06	0.36	0.01	1.24	1.33	-0.08	0.3	1.08	0.11	0.12	0.57	0.08	0.64	0.1475	0.035	0.035	0.381586	0.935316	0.928406	0.999971	1	0.994278	
Frs1j	H3BZ1	0.87	-1.03	-0.52	-0.32	-1.25	-0.59	-0.88	-0.58	-0.88	-0.27	-0.41	-0.88	-0.79	-0.87	-0.73	-0.575	-0.36	-0.5775	0.183776	0.393395	0.164283	0.999971	1	0.800215		
Frs1j	Q9O6K4	0.72	-0.1	-0.07	0.25	-0.24	0.49	-0.13	0.56	-0.34	0.11	0.55	-0.05	-0.32	0.24	0.78	-0.02	0.025	0.045429	0.894517	0.894517	0.760605	0.999971	1	0.942005		
Frs1j	Q8R2K1	0.29	0.56	0.92	0.78	-0.13	0.58	0.18	0.89	-0.29	-0.2	0.43	0.22	-0.47	0.91	1.51	1.01	-0.2575	-0.5975	0.0125	0.367122	0.036299	0.974177	0.999971	1	0.999925	
Frs1j	Q8C7Q9	2.11	2.43	2.73	2.38	2.19	2.33	2.81	2.34	2.1	2.5	2.21	2.21	2.06	2.37	2.37	2.34	0.005	-0.1575	-0.1275	0.982326	0.447953	0.536557	0.999971	1	0.910077	
Frs1j	Q8BH9C	1.43	-0.01	-0.07	-0.14	0.34	1.13	0.06	-0.15	0.45	1.68	0.39	0.1	-0.21	-0.08	0.03	0.11	0.0425	0.3525	-0.34	0.923319	0.470906	0.372848	0.999971	1	0.869526	
Frs1j	Q9W752	1.69	0.73	1.01	1.32	0.92	0.48	0.66	1.76	1.72	1.22	1.22	1.39	0.26	1.35	1.08	-0.2425	-0.005	-0.325	0.506363	0.838861	0.191719	0.999971	1	0.853993		
Frs1j	Q8B819	-0.27	-1.21	1.38	1.83	0.93	1.03	1.18	0.28	0.18	0.28	0.18	0.28	0.18	0.28	0.18	0.28	0.18	0.28	0.025	0.166511	0.236128	0.369695	0.999971	1	0.709796	
Frs1j	P70213	-0.78	1.65	1	0.73	1.06	2.08	-0.6	1.04	0.57	0.5	1.24	0.02	-1.48	-0.02	1.33	1.06	0.245	-0.0775	-0.7275	0.071075	0.868666	0.292351	0.999971	1	0.847402	
Frs1j	Cm	0.35943	-0.29	-0.56	-0.81	-2.88	-0.76	-1.08	-0.8	-2.27	-0.66	-1.79	-1.05	-0.6	-0.43	-0.6	-2.24	-2.78	-0.0925	0.36	-0.3775	0.826979	0.520801	0.61815	0.999971	1	0.925851
Frs1j	Q61584-3	0.43	0.08	1.03	1.12	0.39	-0.06	1.34	1	0.19	0.26	1.2	1.08	0.21	0.29	1.26	1.25	0.0025	0.015	0.0875	0.994798	0.664441	0.813852	0.999971	1	0.974326	
Frs1j	Q67585	0.41	0.5	0.45	0.44	-0.12	0.16	1.04	1.03	-0.52	0.76	1.42	0.41	0.63	0.51	0.46	-0.42	-0.05	0.1025	0.776372	0.905338	0.556813	0.999971	1	0.942146		
Frs1j	AQAD01UP	-0.58	-1.03	-0.55	-1.18	-1.55	-0.92	-1.08	-0.09	-1.7	-0.33	-1.95	-1.24	-1.75	-0.93	-0.91	-0.8	-0.325	-0.7	-0.5125	0.355299	0.808081					

Gemin5	A2AFQ9	0.81	1.48	1.65	1.47	1.26	1.42	1.28	1.64	1.18	1.15	1.48	1.33	1.28	1.69	1.66	1.91	0.0475	-0.0675	0.2825	0.842233	0.773081	0.283329	0.999971	1	0.844538	
Gemin7	G12684	1.48	1.13	1.64	1.72	0.68	1.59	0.6	1.37	1.2	1.84	0.31	1.39	-0.8	1.06	1.25	0.87	-0.4325	-0.3075	-0.8975	0.162527	0.380765	0.077483	0.999971	1	0.752509	
Gert1	Q8X0C7	-0.19	-0.39	0.28	0.53	-0.31	0.55	0.39	0.35	0.09	0.23	0.4	0.61	0.37	0.02	0.34	0.61	0.05	0.2875	0.08	0.0275	0.398255	0.818929	0.930606	0.999971	1	0.994744
Gert3	O54984	0.42	0.47	0.32	0.16	0.13	0.6	0.13	0.26	0.31	0.48	0.31	0.36	0.41	0.38	0.23	0.52	-0.0625	-0.2025	0.0425	0.747844	0.893321	0.809889	0.999971	1	0.973791	
Gert4	Q201H7	0.53	0.99	0.71	0.64	0.89	0.84	0.55	0.37	0.9	0.54	0.4	-0.01	0.98	0.81	0.39	0.37	-0.055	-0.26	-0.08	0.792464	0.298307	0.712688	0.999971	1	0.955155	
Gfap	P03995	-1.49	-1.33	-0.49	-0.77	-1.97	-2.94	-0.57	-0.9	-2.37	-1.96	-0.96	-0.73	-2.37	-2.17	-0.28	-0.9	-0.075	0.015	0.09	0.929474	0.982473	0.920432	0.999971	1	0.990739	
Gfap.1	P103995-2	-1.42	-2.02	-2.22	-2.22	-1.77	-2.58	-2.33	-2.96	-2.35	-1.4	-1.56	-0.96	-1.75	-2.4	-2.8	1.03	-0.19	0.075	0.225	0.558956	0.878057	0.547475	0.999971	1	0.930461	
Gfif	P56213	2.39	0.64	1.06	1.09	0.77	1.59	1.68	1.21	0.74	1.4	0.82	1.05	0.93	0.97	1.09	0.64	0.0175	-0.2925	-0.3875	0.966017	0.462624	0.320976	0.999971	1	0.854682	
Gfmlr	Q8X0D5	-0.64	-0.29	-0.11	-0.17	0.25	-0.33	0.36	-0.18	-0.16	-0.07	0.08	0.42	-0.27	-0.35	-0.01	-0.1	0.3275	0.37	0.12	0.19201	0.115087	0.553947	0.999971	1	0.913787	
Gfmo2	Q8X2K4-3	-0.25	-0.13	-0.3	-0.08	-0.18	-0.12	-0.33	-0.28	-0.29	-0.04	-0.37	-0.51	0.27	0.06	-0.43	0.17	-0.0375	-0.1125	0.1225	0.823705	0.539628	0.5643	0.999971	1	0.910787	
Gfmo3	Q3UH02	-0.17	-0.3	-0.1	-0.07	-0.12	-0.15	-0.1	-0.56	-0.08	-0.26	-0.53	-0.08	0.26	0.05	-0.4	0.15	-0.7189	-0.0625	0.215	0.713891	0.777857	0.196384	0.999971	1	0.871816	
Gfmo4	Q20YH5	-0.09	-0.68	-0.51	-0.35	-0.38	-0.7	-0.5	-0.16	-0.02	0.43	-0.71	0.51	-0.54	-0.63	-0.16	-0.28	-0.075	-0.1085	-0.482283	0.610312	0.924575	0.999971	1	0.985441		
Gfmo5	P47856-2	-0.13	0.49	0.41	-0.06	0.72	0.19	0.41	0.18	0.87	-0.07	0.75	0.92	1.28	0.31	0.36	0.35	0.1975	0.04	0.3975	0.414671	0.157006	0.200592	0.999971	1	0.813432	
Gfmo6	DE6R04	0.12	0.97	1.47	1.43	0.82	1.53	1.45	2.02	1.3	0.53	1.1	1.14	0.31	1.06	0.27	0.23	0.4575	0.02	-0.03	0.252947	0.954388	0.954341	0.999971	1	0.998056	
Gfmo7	Q80842	0.41	0.46	0.3	0.77	0.53	1.02	1.13	0.68	0.75	0.71	0.57	-0.01	0.43	0.53	0.48	0.52	0.355	0.02	0.005	0.130615	0.932291	0.978026	0.999971	1	0.919925	
Gfmo8	P12591	-1.01	0.07	0.04	-0.07	0.26	0.55	0.2	0.42	-0.55	0.52	-0.77	0.55	-0.05	0.5	-0.21	0.04	0.7475	0.5525	0.605	0.055534	0.215451	0.100073	0.999971	1	0.780268	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63	0.34	0.48	0.31	0.41	0.61	0.31	0.22	0.32	0.71	0.25	0.2725	0.21	0.226314	0.181335	0.355538	0.999971	1	0.858827	
Gfmo9	Q8X0H9	-0.08	0.07	0.47	0.26	0.38	0.37	0.63																			

GOLGA78	Q0428	-0.63	-0.63	-1	-0.91	-1	-0.44	-0.95	-1.35	-0.69	-0.63	-0.75	-0.88	-0.21	-0.78	-1.17	-1.13	-0.1425	0.055	-0.03	0.560019	0.761227	0.909609	0.999971	1	0.991822	
Golgbl1	E9P2V8	1.05	1.61	1.46	1.27	1.47	1.48	1.2	1.4	1.48	1.42	1.74	1.69	1.37	1.65	1.36	1.4	0.04	0.235	0.0975	0.839719	0.256261	0.627151	0.999971	1	0.930921	
Golgml4	D3YVW2	1.1	0.86	0.37	-0.1	1.41	0.13	0.79	1	0.79	0.94	0.95	0.61	0.52	0.77	1	0.85	0.14	0.18	0.085	0.74936	0.633495	0.82519	0.999971	1	0.975001	
Golgbl2	E9P2I6	0.59	0.59	1.59	1.24	0.61	0.38	1.35	1.91	0.67	0.53	1.68	1.63	0.59	0.38	1.46	1.63	0.06	0.125	0.0125	0.838298	0.743636	0.974027	0.999971	1	0.999925	
Golgph3	Q5CRA5	1.88	0.65	1.88	1.57	0.66	1.21	1	1.9	1.87	0.64	1.08	2.21	1.15	0.14	0.57	1.54	1.31	-0.085	0.0065	0.830699	0.959839	0.170014	0.999971	1	0.802438	
Golgph3	H3B0U7	-0.65	0.8	1.54	1.15	0.96	0.29	1.07	1.69	0.38	-0.26	0.56	1.33	0.18	1.1	1.17	0.18	0.2925	-0.2075	0.1225	0.57355	0.699983	0.80353	0.999971	1	0.971467	
Golgbl5	Q5CR60	-0.45	0.41	-0.11	-0.63	0.35	0.6	-0.82	0.17	0.66	0.31	0.02	0.54	0.05	0.52	-0.25	0.13	0.3625	-0.4125	0.4125	0.421785	0.352751	0.169219	0.999971	1	0.843504	
Golgbl6	Q8BHM0	0.73	1	0.54	0.72	0.86	0.96	0.56	0.84	0.88	0.06	0.69	0.9	1.18	1.24	0.54	1.1	0.0575	0.135	0.2675	0.765808	0.475852	0.258349	0.999971	1	0.839012	
Golgbl6	Q8BMA2	0.53	0.68	0.46	1.15	0.29	0.48	-0.04	1.12	0.08	0.34	0.58	0.17	0.29	0.4	0.62	1.53	-0.2425	-0.4125	0.005	0.425161	0.096704	0.987663	0.999971	1	0.999925	
Gorsap1	Q9X5X1	0.23	0.28	0.42	0.24	0.05	-0.25	-0.62	-0.37	-0.37	-0.02	-0.88	0.23	-0.41	0.22	0.49	0.48	-0.38	-0.3425	0.1125	0.150154	0.272929	0.693979	0.999971	1	0.947174	
Gorsap2	A2AT8	0.17	0.51	0.1	0.17	0.51	0.17	0.51	0.17	0.51	0.17	0.51	0.17	0.51	0.17	0.51	0.17	0.51	0.17	0.085	0.74936	0.633495	0.82519	0.999971	1	0.930921	
Gors1	Q8B620	0.72	0.82	0.83	0.91	1.14	1.14	2.12	0.91	1.2	0.81	1.15	0.38	0.21	1.13	1.06	0.27	0.5075	0.065	0.28	0.102044	0.77688	0.515904	0.999971	1	0.999925	
Gors2	A2A90	-0.64	-1.24	-2.3	-0.95	-1.19	-1.98	-1.81	-0.39	-0.6	-1.09	-0.85	-1.26	-1.05	-1.16	-1.06	-1.62	-0.06	0.3325	0.006	0.899438	0.388033	0.872431	0.999971	1	0.984109	
Gors1	P02021	-0.65	0.02	-0.69	-0.68	-0.24	-0.43	-0.38	-0.61	-0.09	-0.73	-0.5	-0.61	-0.48	-0.34	-0.62	-0.61	0.085	0.0105	-0.0125	0.710846	0.943849	0.959592	0.999971	1	0.999905	
Gors2	P05022	-1.65	-0.86	-0.12	0.46	-0.81	-1.01	-0.32	-0.25	-0.87	-1.4	-0.59	-1.18	-0.57	-0.6	0.25	0.14	-0.055	-0.4675	0.3475	0.9505137	0.62254	0.47289	0.999971	1	0.893778	
Gpaa1	Q9WTC3	-0.45	-0.18	0.08	-0.45	0.18	0.03	-0.5	0.19	-0.14	0.16	0.16	0.02	0.43	0.47	0.13	0.55	0.055	0.22	0.565	0.807348	0.268151	0.01925	0.999971	1	0.635388	
Gpaa1p1	G092C8	0.7	1.82	0.91	1.99	1.92	2.1	2.33	2.3	2.03	0.92	1.52	1.26	0.78	2.39	1.62	1.66	0.5075	-0.2225	-0.0425	0.350812	0.69491	0.943379	0.999971	1	0.999992	
Gpaa1	A0M494B4	-1.24	0.13	-0.66	-0.13	-0.46	-0.79	-0.47	0.69	-1.2	-0.85	-0.36	-0.06	-0.85	-0.63	0.66	0.13	0.2175	-0.1425	0.3025	0.608347	0.710124	0.494087	0.999971	1	0.901531	
Gpaa1	Q8C0N2	0.14	-0.06	-0.06	0.68	0.2	-0.72	-0.55	0.21	0	-0.57	0.25	-0.61	-0.64	-0.39	-1.3	-0.12	-0.39	-0.4075	-0.7875	0.222277	0.180358	0.030803	0.999971	1	0.678474	
Gpaa1	Q8C2C8	0.67	0.18	-0.11	-0.05	-0.53	0.2	-0.45	0.2	0	0.06	-0.01	-0.05	-1.17	-0.34	-0.04	-0.01	-0.025	-0.2475	-0.5375	0.740993	0.296809	0.127539	0.999971	1	0.783063	
Gpaa2h2	MQ0WY1	1.06	-0.41	0.65	0.34	-0.8	-0.06	0.45	0.79	0.64	1.56	-0.16	0.45	-1.02	-0.2	1.14	-0.03	-0.315	0.2125	-0.4375	0.478552	0.635843	0.395706	0.999971	1	0.871816	
Gpaa2h2	P06P65	1.1	0.05	1.19	-0.64	0.21	0.18	-0.08	0.36	0.12	1.35	-0.61	1.48	-1.13	0.45	0.3	0.96	-0.2575	0.1	-0.28	0.548516	0.873084	0.628672	0.999971	1	0.932176	
Gpaa2h8	A2A6A1	1.98	0.37	0.58	0.82	0.36	0.24	0.38	0.82	0.37	1.45	0.76	0.11	0.31	0.04	0.73	0.55	-0.4875	-0.265	-0.53	0.20994	0.549352	0.184822	0.999971	1	0.809025	
Gpaa1p1	Q8WVW3	2.26	0.36	-0.07	-0.59	-1.5	-0.53	0.91	1.03	0.54	0.94	0.26	1.43	0.3	0.76	0.23	-0.07	-0.5175	0.2975	-0.19	0.514354	0.632355	0.749482	0.999971	1	0.961064	
Gpaa1	Q902F2	-0.22	-0.92	-0.22	0.26	0.7	-0.51	0.03	0.1	-0.43	-0.37	-0.78	-1.21	-1.14	-0.57	-0.18	-0.49	0.005	-0.2425	-0.32	0.887381	0.201592	0.29135	0.999971	1	0.856525	
Gpaa1	P51655	-1.54	-1.58	-1.19	-1.12	-0.76	-1.79	-1.06	-1.36	-1.07	-1.88	-1.13	-0.94	-1.48	-1.74	-1.18	-1.3	0.115	0.1025	-0.0675	0.767037	0.697766	0.75597	0.999971	1	0.986116	
Gpaa1	Q8CAL5	0.93	-0.41	-0.26	-0.07	-0.3	-0.13	-0.26	-0.45	0.08	0.63	0.12	0.34	0.24	-0.46	0.05	0.1	-0.3325	0.245	-0.065	0.304658	0.179088	0.847054	0.999971	1	0.981295	
Gpaa1	Q8CRK6	-1.01	-0.87	-0.88	-1.17	-0.47	-1.7	-0.72	-1.5	-0.33	-1.36	-0.61	-0.96	0.19	-0.64	-0.07	-0.77	-0.85	0.135	0.4475	0.485	0.605266	0.34341	0.112316	0.999971	1	0.78268
Gpaa1p1	Q8CUL5	0.54	0.58	0.88	0.63	0.78	0.83	0.66	0.94	0.56	0.79	0.56	0.73	0.27	0.71	0.165	0.09	-0.24	0.460378	0.045	0.460378	0.59995	0.70664	0.999971	1	0.91918	
Gpaa1	P13707	0.51	0.61	0.61	0.58	0.28	0.65	0.39	0.34	0.14	0.27	0.3	-0.27	-0.44	0.35	0.11	0.3	-0.1625	-0.249	0.49	0.361192	0.036145	0.055133	0.999971	1	0.725348	
Gpaa1	Q3UJL0	0.4	0.74	0.57	-0.01	-0.48	0.95	0.61	0.36	0.66	0.54	0.73	0.57	0.65	0.79	0.23	0.2	0.175	0.2	0.0425	0.470169	0.357905	0.864217	0.999971	1	0.983079	
Gpaa1	P04521	-0.89	-0.46	-0.58	-0.65	-0.66	-0.62	-0.56	-0.81	-0.84	-1.01	-0.55	-0.68	-0.86	-0.89	-0.91	-0.74	-0.0175	-0.1125	-0.205	0.923262	0.523177	0.71658	0.999971	1	0.843794	
Gpaa1	A0IWT5	-0.45	-0.18	0.08	-0.45	0.18	0.03	-0.5	0.19	-0.14	0.16	0.16	0.02	0.43	0.47	0.13	0.55	0.055	0.22	0.565	0.807348	0.268151	0.01925	0.999971	1	0.635388	
Gpaa1	P06745	-0.52	-0.32	-0.87	-0.45	-0.38	-0.35	-0.23	-0.85	-0.43	-0.72	-0.98	-1.3	-0.33	-0.13	-0.98	-1.03	0.2025	-0.1375	-0.0775	0.460279	0.219966	0.78104	0.999971	1	0.965243	
Gpaa1	Q56A08	1.27	2.47	1.8	1.75	2.24	1.72	1.6	1.62	2.46	1.47	1.87	2.11	1.98	1.74	2.3	2.34	-0.0275	0.155	0.2675	0.264441	0.634023	0.37662	0.999971	1	0.870465	
Gpaa1	Q8VCUL	2.39	1.17	0.58	0.89	0.35	0.65	0.49	0.17	0.36	1.38	0.09	0.7	-0.1	1.14	0.47	0.39	-0.8425	-0.625	-0.7825	0.056463	0.194379	0.105629	0.999971	1	0.78268	
Gpaa1	P15802	0.1	1.05	-0.23	0.05	0.3	-0.45	0.2	-0.5	0.1	-0.19	0.71	-0.28	-0.55	-0.1	-0.4	0.1	-0.295	0.35	0.045	0.460378	0.436891	0.464038	0.999971	1	0.931979	
Gpaa1	A2A6G6	-0.67	-0.66	-0.43	-0.36	-0.62	-0.36	-0.67	-0.55	-0.33	-0.24	-0.48	-0.41	-0.35	-0.52	-0.73	-0.25	0.005	0.165	0.0675	0.789194	0.355704	0.703438	0.999971	1	0.956041	
Gpaa1p1	P15803-8	2.78	3.89	4.66	3.37	3.39	2.51	3.8	2.29	4.61	3.91	3.32	6.3	4.72	1.78	3.96	2.71	-0.6775	1.86	-0.3825	0.196237	0.822236	0.584205	0.999971	1	0.920364	
Gpaa1	Q8VCY2	2.28	0.62	-0.08	0.08	1.5	0.62	0.1	0.06	0.13	1.75	-0.7	-0.63	0.87	0.31	-0.28	0.35	-0.1555	-0.5875	-0.788823	0.419547	0.310507	0.999971	1	0.847402		
Gpaa1	P173N6	0.78	-0.85	-1.91	-0.71	-1.97	-0.59	-0.68	-0.57	-0.41	0.06	0.29	-0.88	-1.09	0.13	-0.03	-0.41	0.005	-0.245	0.536366	0.869268	0.36359	0.999971	1	0.931301		
Gpaa1	A2A9W2	1.46	0.61	0.36	0.69	0.1	0.37	0.1	0.37	0.1	0.37	0.1	0.37	0.1	0.37	0.1	0.37	0.1	0.37	0.1	0.37	0.1	0.37	0.999971	1	0.931301	
Gpaa1	Q8C1A9	-0.13	-0.71	-0.75	-0.73	-0.88	-0.5	-0.75	-0.91	-0.7	-0.35	-0.96	-1.3	-0.7	-0.72	-1.07	-1.09	-0.18	-0.2475	-0.315	0.432357	0.392988	0.186969	0.999971	1	0.809025	
Gpaa1	Q3UJL0	0.14	-0.14	-0.11	-0.42	-0.67	0.26	-0.67	-0.6	-0.39	0.62	-0.31	-0.78	0.27	-0.28	-0.4	-0.15	-0.2875	-0.0825	-0.0925	0.307441	0.796665	0.706849	0.999971	1	0.950182	
Gpaa1	Q8N555	0.34	-0.82	-0.06	0.3	0.5	-0.48	1.55	-0.45	-0.32	0.33	-0.3	-0.24	0.01	-0.36	-0.18	-0.44	0.09	-0.0725	-0.1825	0.864828	0.817446	0.543428	0.999971	1	0.911398	
Gpaa1	Q8WVW4	-1.55	-1.4	-1.23	-1.48	-1.35	-1.12	-1.32	-1.79	-1.71	-1.94	-1.01	-1.28	-1.07	-1.75	-1.18	-0.48	-0.445	-0.2715	-0.440757	0.12004	0.048	0.048	0.999971	1	0.911398	
Gpaa1	Q8RPS4	-0.09	-0.09	1.83	0.72	-0.26	-0.53	0.82	1.55	0.26	0.19	0.6	0.87	0.17	0.22	1.47	0.53	-0.1975									

Gf3c2	D3270	0.92	-0.32	-0.33	-0.12	-0.21	-0.23	-0.03	-0.03	-0.27	1.33	0.53	0.19	0.49	0.34	0.14	0.54	-0.1475	0.1425	0.34	0.636475	0.764666	0.297857	0.999971	1	0.847402	
Gf3c3	Q37MTP	-0.23	-0.81	-0.64	-0.12	-0.64	-0.88	-0.87	-0.59	-0.55	-0.37	-1.07	-0.65	-0.78	-0.51	-0.72	-0.37	-0.015	0.08	0.756017	0.95205	0.729785	0.999971	1	0.956041		
Gf3c4	Q8R402	-1.16	-0.13	-0.21	-0.7	1.8	-2.01	0.03	0.39	-1.65	-1.78	-0.02	-0.21	-2.57	-1.03	-0.43	-0.7	-0.055	0.065	-0.195	0.920735	0.80038	0.71587	0.999971	1	0.952676	
Gf3c5	Q8R278	0.33	0.02	-0.34	-0.25	0.53	0.06	0.12	-0.03	0.71	0.62	-0.51	-0.58	0.59	-0.07	-0.7	-0.62	0.23	0.12	-0.14	0.335541	0.746646	0.675957	0.999971	1	0.941711	
Gf3c6	Q80582	2.11	0.12	0.03	0.21	-0.03	0.59	0.39	0.66	-0.03	2.27	-0.42	0.13	-0.3	0.28	0.11	0.02	-0.215	-0.13	-0.59	0.659697	0.855363	0.28806	0.999971	1	0.833594	
Gf3c7	Q80113	-1.12	-0.33	0.98	-0.38	-0.51	-0.51	-1.08	-1.04	-0.5	-0.65	-0.13	-0.35	-0.37	-0.63	-1.13	-1.12	-0.58	-0.0275	-0.0475	0.270737	0.952322	0.36933	0.999971	1	0.959518	
Gf3c8	Q31U4	-0.43	-0.34	0.19	0.51	-0.81	-0.5	0.11	0.26	0.85	0.14	0.25	0.1	-0.58	-0.1	0.75	0.38	-0.4235	-0.35	-0.08	0.19883	0.272497	0.34025	0.999971	1	0.971467	
Gf3c9	EP9W7	0.09	-0.21	-0.15	-0.04	0.33	-0.35	-0.75	-0.66	-0.1	-0.26	-1.07	-0.9	0.77	-0.49	-0.98	-0.01	-0.28	-0.055	-0.1	0.31812	0.08458	0.766436	0.999971	1	0.967132	
Gf3c0	Q99ME9	-0.05	0.34	0.08	0.33	0.45	0.5	-0.17	-0.49	0.17	0.04	0.26	0.28	0.94	0.68	0.05	0.19	0.1425	0.0125	0.29	0.536854	0.94948	0.747372	0.999971	1	0.843794	
Gf3c1	Q31U65	0.06	-0.01	1.08	0.34	-0.37	-0.44	-0.3	0.29	-0.44	-0.17	-0.39	-0.78	-0.84	-0.41	0.16	0.39	-0.3225	-0.5625	-0.2925	0.468149	0.211565	0.546802	0.999971	1	0.971023	
Gf3c2	F80V95	-0.65	-1.05	-1.08	-1.05	-1.13	-1.08	-1.53	-1.1	-0.3	-0.39	-1.05	-1.13	-0.69	-0.76	-0.7	-0.6	-0.05	0.065	-0.155	0.920735	0.80038	0.71587	0.999971	1	0.970723	
Gf3c3	Q9R61	-0.44	0.5	-0.11	-0.1	0.76	0.15	0.21	0.34	0.49	-0.1	-0.18	0.23	0.08	0.02	0.39	0.09	0.4025	0.175	0.54	0.10221	0.585323	0.116473	0.999971	1	0.748368	
Gf3c4	F8VQK3	-0.44	-0.58	-0.66	-0.86	-0.52	-0.45	-0.51	-0.87	-0.56	-0.64	-1.04	-1	-0.17	-0.22	-0.67	-0.85	0.0475	0.1575	0.1575	0.806345	0.397906	0.497194	0.999971	1	0.902655	
Gf3c5	Q54865	-0.86	-1.02	-0.63	-0.48	-0.72	-0.97	-0.4	-0.35	-0.96	-1.16	-0.5	-0.42	-0.68	-0.73	-0.36	-0.42	0.1375	-0.0125	0.2	0.550068	0.959052	0.344951	0.999971	1	0.862993	
Gf3c6	Q8C3M4	-0.02	0.07	-0.77	-0.5	-0.36	-0.3	-1.03	-1.01	-0.36	-0.42	-0.81	-0.74	-0.39	-0.55	-0.95	-0.77	-0.37	-0.2775	-0.36	0.227455	0.290166	0.18812	0.999971	1	0.809025	
Gf3c7	Q64520-2	-0.27	-0.12	-0.29	-0.01	-0.41	0.06	0.05	-0.02	-0.34	-0.23	-0.57	-0.48	-0.42	0.11	-0.17	0.0025	-0.2325	-0.225	0.63484	0.209834	0.907182	0.999971	1	0.991405		
Gf3c8	Q8CXC5	-0.42	0.2	-0.61	-0.58	0.45	-0.22	-0.78	-1.1	-0.49	-0.37	-1.04	-0.76	-0.17	-0.63	-0.24	0.4	-0.06	0.065	0.1925	0.873239	0.859575	0.5193	0.999971	1	0.906123	
Gf3c9	Gub1	P12Z65	-1.86	-0.19	-0.47	-0.47	0.43	-1.04	-0.56	0.11	0.42	-1.63	-0.37	0.03	0.53	-0.55	-0.42	-0.17	0.0825	0.595	0.317668	0.509878	0.184887	0.999971	1	0.809025	
Gf3c0	W17451	0.56	1.35	0.44	1.13	0.11	0.66	0.3	0.22	1.46	0.78	1.53	1.68	2.04	2.74	0.2	1.29	0.2525	0.4925	0.6975	0.693298	0.131614	0.18721	0.999971	1	0.827064	
Gf3c1	Q9R062	-1.33	-0.8	0.02	-1.02	-0.25	-0.63	-0.77	-0.43	0.83	-0.38	-0.06	0.31	1.21	0.36	0.64	0.05	0.2325	0.9575	1.1675	0.413086	0.030095	0.02153	0.999971	1	0.562033	
Gf3c2	Gy5a	P14220	-1.57	-2.64	-2.59	0.36	0.57	-2.9	-1.66	-0.64	-1.71	-3.98	-1.17	-2.33	-2.9	-1.95	-1.17	-1.02	0.4525	-0.6875	-0.15	0.62165	0.421942	0.840127	0.999971	1	0.97975
Gf3c3	AO1A180G7	-0.63	-0.66	-0.67	-0.93	-0.89	-0.63	-0.48	-0.84	-0.84	-0.26	-1.36	-0.92	-0.97	-0.79	-0.93	-1.1	0.0125	-0.2725	-0.225	0.946873	0.209233	0.272312	0.999971	1	0.828563	
H1-0	P10922	-2.63	-2.87	-1.91	-2.19	-2.1	-3.01	-0.89	-2.75	-2.26	-2.97	-1.61	-2.49	-2.76	-3.34	-2.98	-3.23	0.2125	0.0675	-0.6775	0.661948	0.846935	0.03197	0.999971	1	0.681356	
H1-1	P43275	0.25	-1.45	-1.38	-0.58	-1.23	-1.04	-0.25	-1.33	-1.28	0.04	-1.42	-1.83	-1.72	-0.68	-1.73	-1.26	-0.1725	-0.3325	-0.5575	0.696573	0.532804	0.29273	0.999971	1	0.826867	
H1-2	P15684	-2.61	-4.38	-1.83	-1.89	-3.05	-4.17	-0.09	-1.6	-3.95	-3.74	-1.56	-2.01	-5.36	-4.58	-2.08	-2.89	0.45	-0.1375	-1.09	0.638713	0.857846	0.24303	0.999971	1	0.837316	
H1-3	A3XGR9	-0.2	0.64	0.15	-0.12	0.46	0.89	-0.1	0.17	0.72	-0.02	0.49	0.29	0.88	1	0.37	0.45	0.2375	0.2525	0.5575	0.428813	0.354545	0.062156	0.999971	1	0.725348	
H1-4	P43277	-0.66	-1.53	-1.28	-0.84	-1.95	-1.42	-0.29	-1.84	-1.99	-0.74	-1.13	-1.22	-1.4	-1.41	-1.3	-1.29	-0.2975	-0.175	-0.7725	0.472829	0.285485	0.288617	0.999971	1	0.842746	
H1-5	P43278	-0.14	-1.7	-1.75	-1.79	-2.03	-1.44	-0.76	-2.32	-2.47	-0.82	-1.98	-3.37	-2.44	-1.36	-2.26	-2.35	-0.2925	-0.15	-0.7575	0.556319	0.205388	0.118888	0.999971	1	0.78268	
H1-6	P43279	-0.12	-1.38	-1.52	-0.82	-1.18	-1.24	-1.25	-1.52	-1.14	-1.64	-1.5	-2.05	-1.65	-1.07	-1.52	1.81	-0.21	0.265	-0.425	0.386296	0.519009	0.138813	0.999971	1	0.748368	
H1F10	Q80ZM5	3.09	0.03	0.25	1.37	0.08	0.09	1.09	1.15	0.08	1.98	0.07	-0.2	-1.71	-0.43	0.17	-0.02	-0.5825	-0.7025	-1.6825	0.407151	0.371975	0.045822	0.999971	1	0.710102	
H2ac21	Q64522	-2.02	3.87	3.19	0.3	6.81	3.53	3.76	2.39	9.5	-2.64	5.66	6.49	15.82	1.91	-0.57	-2.3	2.8785	3.1475	3.28	0.084651	0.212325	0.539796	0.999971	1	0.910777	
H2ac22	P72661	0.22	-2.91	-2.06	-2.42	-3.18	-1.24	-1.47	-3.3	-3.44	-1.45	-2.73	-2.83	-4.7	-3.16	-2.58	-3.69	-0.73	-0.82	-1.7475	0.339773	0.282264	0.041989	0.999971	1	0.701725	
H2ac23	Q37HWS	-1.1	-1.93	-2.34	-1.36	-1.49	-2.21	-2.59	-1.91	-2.8	-1.91	-2.8	-1.96	-2.54	-1.7	-1.87	-1.61	-0.6725	-0.4225	-0.165	0.070197	0.227735	0.548924	0.999971	1	0.915525	
H2b2c15	P10B53	-1.39	-1.84	-2.27	-4.49	-1.69	-1.99	-1.04	-2.95	-1.93	-1.85	-2.61	-2.44	-1.48	-2.01	-2.78	-2.99	0.08	-0.21	-0.3175	0.855328	0.505647	0.443049	0.999971	1	0.883386	
H2b2u2	Q90ZU9	-3.08	-4.94	-2.12	-2.54	-4.28	-4.83	-1.74	-2.31	-4.49	-4.48	-2.63	-2.7	-4.83	-4.3	-2.33	-3.26	-0.12	-0.405	-0.51	0.890391	0.586945	0.503675	0.999971	1	0.905195	
H2D-01	P01899	0.64	0.18	0.23	0.9	1.74	0.15	-0.25	-0.26	0.14	0.19	0.44	1.4	-0.28	1.07	0.65	0.7	-0.2175	0.0055	0.054	0.65464	0.870388	0.86953	0.999971	1	0.983489	
H2C-11	AO1A08BA	-0.71	-1.31	0.59	1.1	1.1	0.29	0.35	-0.17	-0.51	-1.23	0.01	1.06	0.36	0.58	-0.1	-0.075	0.1335	-0.073299	-0.0175	0.103355	0.073299	0.196055	0.999971	1	0.960721	
H2C-10	P01898	2.39	3.73	1.18	3.29	3.01	0.72	2.06	0.08	0.64	0.32	1.41	1.64	0.21	1.97	1.5	1.13	-1.095	-1.52	-1.32	0.175099	0.019393	0.042297	0.999971	1	0.701725	
H3C14	AO1A1W2P7	0.1	-1.65	-1.18	-1.06	-1.5	-1.57	-2.08	-1.68	-1.63	-1.16	-1.85	-1.87	-1.51	-1.16	-1.45	-1.06	-0.605	-0.275	-0.1925	0.180121	0.619287	0.650571	0.999971	1	0.933842	
H3F3a	F8WV35	3.56	-1.3	-0.31	0.24	-0.79	-0.05	0.93	-1.52	-1.31	1.84	-2.54	-2.48	-2.31	-2.06	-1.49	-2.71	-0.905	-1.67	-2.69	0.398386	0.23629	0.202532	0.999971	1	0.635388	
H4b16	P62806	-2.91	-4.37	-3.46	-2.51	-4.15	-4.83	-3.18	-3.5	-4.52	-4.22	-3.33	-3.21	-4.82	-3.47	-2.92	-2.84	-0.6025	-0.415	-0.425	0.251297	0.373297	0.47821	0.999971	1	0.894448	
H4b2	Q8C7X1	0.02	0.34	0.63	0.32	0.63	0.63	0.25	0.4	0.63	0.25	0.4	0.63	0.25	0.4	0.63	0.25	0.4	0.63	0.25	0.434295	0.154513	0.469194	0.999971	1	0.955151	
H4b4	E9QK62	0.55	1.65	1.14	0.8	1.83	1.45	1.6	1.15	2.55	0.86	1.73	1.86	1.97	0.88	1.03	1.24	0.7275	0.7075	0.245	0.129353	0.104179	0.474372	0.999971	1	0.894044	
H4c2d1	Q903B1	2.43	-1.4	1.17	0.82	-1.49	-0.57	3.27	-0.24	-1.03	0.99	0.22	-1.06	-1.95	-1.94	-0.06	-0.47	-0.5125	-0.975	-1.68	0.66226	0.27023	0.051254	0.999971	1	0.723736	
H4c2d2	Q8XC29	-0.8	-0.76	-1.68	-1.52	-0.85	-0.76	-1.3	-1.38	-0.82	-0.69	-1.24	-1.42	-0.63	-0.56	-1.43	-0.22	0.1175	0.1475	0.235	0.693144	0.627168	0.473449	0.999971	1	0.894044	
H4c2d3	Q31U09	-0.49	-1.12	-0.77	-0.34	-0.44	-0.7	-0.44	-0.72	-0.45	-1.2	-0.45	-1.2	-0.45	-1.2	-0.45	-1.2	-0.45	-0.025	-0.025	0.025	0.025	0.025	0.999971	1	0.894044	
H4c2d4	D3V524	0.02	-2.66	-1.14	-0.97	-1.41	-1.86	-1.37	-0.32	-1.4	-1.37	-0.21</															

Hmx01	P14901	0.33	-0.33	0.42	0.04	0.25	-0.09	-0.04	0.1	-0.32	0.22	0.58	0.83	-0.47	0.02	-0.17	0.95	-0.06	0.1025	-0.0325	0.790799	0.757716	0.925034	0.999971	1	0.99401	
Hmx02	O70252	-0.3	-0.93	-0.32	-0.42	-0.76	-1.22	-0.02	-0.42	-0.86	-1.31	-0.13	-0.14	-0.92	-1.42	-0.3	-0.24	-0.1125	-0.175	-0.2275	0.710741	0.788881	0.482858	0.999971	1	0.896345	
Hmx03	Q91V12	0.07	0.71	0.56	0.15	0.57	1.73	0.22	0.93	0.07	0.26	0.01	0.64	-0.09	-0.28	0.58	0.33	0.2025	-0.5525	0.392263	0.52804	0.260236	0.999971	1	0.783071		
Hmrnp00	O5XEB8	0.34	0.97	1.27	1.1	0.82	0.52	1.27	1.21	0.98	0.45	1.14	0.92	0.28	0.4	1.22	1.13	0.0305	-0.0475	-0.1625	0.901493	0.819995	0.613734	0.999971	1	0.927364	
Hmrnp01	O5EBP8	-0.58	-1.3	0.17	0.49	-0.93	-1.09	0.12	0.73	-0.69	0.58	0.64	-1.08	-1.06	0.85	1.11	0.0125	0.2875	0.26	0.981608	0.571416	0.690959	0.999971	1	0.946786		
Hmrnp02	O8B569	-0.38	-0.11	-0.87	-1.04	-0.19	-0.44	0.06	-1.13	-0.24	-0.32	-0.85	-1.01	-0.53	-0.36	-1.06	1.19	0.175	-0.005	-0.185	0.601919	0.986239	0.545505	0.999971	1	0.931198	
Hmrnp03	A21A11	0.3	0.4	0.86	0.59	-0.08	0.36	1.23	0.61	-0.97	0.58	0.32	0.03	0.39	0.81	0.39	0.45	-0.5375	-0.54	0.332086	0.19981	0.16681	0.999971	1	0.800215		
Hmrnp04	O1QBG05-2	-0.27	-2.97	-3.01	-2.18	-1.43	-4.02	-1.49	-3.61	-2.67	-1.58	-2.32	-3.84	-2.61	-2.53	-2.55	-3.46	-0.53	-0.495	-0.68	0.533512	0.499632	0.289751	0.999971	1	0.847402	
Hmrnp05	O90201	0.76	-0.21	0.95	1.01	-0.71	0.02	1.59	0.38	-0.84	-0.11	0.72	0.92	-1.48	-0.61	1.12	0.9	-0.3075	-0.455	-0.645	0.554933	0.341016	0.31547	0.999971	1	0.852494	
Hmrnp06	O92204-2	-0.46	0.07	-0.03	-0.04	0.12	-0.33	-0.73	-0.45	-0.73	-0.05	-0.88	0.16	0.23	-0.13	0.14	-0.01	-0.23	-0.26	0.1725	0.357521	0.381937	0.400801	0.999971	1	0.871816	
Hmrnp07	O92041	-1.89	-2.31	-1.78	0.56	-0.15	0.52	-0.17	-0.75	-0.12	-0.97	-0.28	-0.14	-0.07	-0.02	-0.08	0.07	0.02	0.02	0.0175	0.741423	0.530152	0.831146	0.999971	1	0.896345	
Hmrnp08	O60658-3	-1.82	0.15	-0.95	-1.54	0.03	-0.05	0.09	-0.36	0.14	-1.76	-0.77	-0.74	-0.14	-0.1	1.28	0.7175	-0.2575	0.475	-0.187505	0.635751	0.933274	0.999971	1	0.860218		
Hmrnp09	O92130	0.25	0.71	-1.13	-0.59	0.37	0.18	-1.19	-0.75	0.39	0.63	-0.95	-0.8	0.3	0.71	-1.19	-0.56	-0.1575	0.0075	0.005	0.759761	0.988804	0.992699	0.999971	1	0.999025	
Hmrnp10	D13Y703	-0.57	0.15	-0.03	-0.02	0	0.15	0.3	-0.39	0.05	-0.65	0.16	0.02	0.28	-0.07	-0.19	0.05	0.1325	0.0015	0.165	0.592421	0.961955	0.462873	0.999971	1	0.890653	
Hmrnp11	O922K1	0.86	0.78	1.01	0.25	1.62	1.04	1	-0.07	1.64	1.18	1.15	1.53	1.42	1.18	0.4	-0.28	-0.0775	-0.45	-0.245	0.951187	0.712095	0.606817	0.999971	1	0.925135	
Hmrnp12	Q8C207	0.39	1.07	0.84	1.16	0.96	0.53	0.62	1.3	0.97	0.86	0.9	1.2	1.61	1.2	1.59	0.0625	0.075	0.446	0.802562	0.786186	0.676732	0.999971	1	0.748775		
Hmrnp13	O92008-2	0.8	1.79	1.03	0.84	1.46	1.08	1.53	0.8	1.35	1	0.99	1.4	1.46	1.29	1.05	0.74	0.2275	0.195	0.145	0.351827	0.357001	0.534487	0.999971	1	0.910077	
Hmrnp14	D332N4	-0.24	0.26	-0.11	0.31	0.34	-0.08	0.09	0.2	0.3	0.09	-0.38	0.15	0.27	0.3	-0.16	-0.15	0.0825	-0.0015	0.01	0.697787	0.948771	0.964817	0.999971	1	0.998721	
Hmrnp15	B2M1M6	0.85	1.18	1.1	1.41	1.21	0.78	1.16	1.32	1.03	0.95	1.25	1.42	0.89	1.35	1.18	1.33	-0.0175	-0.0275	0.0525	0.935051	0.893917	0.802074	0.999971	1	0.971467	
Hmrnp16	G55924	0.07	0.15	0.28	0.56	-0.11	-0.24	0.85	0.35	-0.19	0.23	0.33	0.3	0.4	1.13	0.44	0.41	0.0175	-0.0225	-0.045	0.953472	0.521773	0.866505	0.999971	1	0.983462	
Hmrnp17	O921F4	1.52	1.75	1.71	1.95	1.82	1.65	1.73	1.86	2	1.61	1.8	1.43	1.62	1.68	1.83	1.92	0.0325	-0.0225	0.03	0.856352	0.911551	0.871521	0.999971	1	0.984109	
Hmrnp18	O900E1-2	0.93	0.8	0.62	0.74	0.85	0.72	0.6	0.62	0.76	0.83	0.48	0.47	0.25	0.76	0.52	0.57	-0.075	-0.1375	-0.2475	0.667915	0.458922	0.217218	0.999971	1	0.826893	
Hmrnp19	Q8VHM5	-0.03	0.6	0.31	0.21	0.65	0.38	0.73	0.22	0.93	-0.27	0.33	0.06	0.85	0.24	0.29	0.31	0.2225	-0.01	-0.005	0.326336	0.972914	0.895988	0.999971	1	0.999925	
Hmrnp20	Q8VEK3	-0.36	-0.27	0.25	0.3	0.2	-0.08	0.33	0.34	-0.05	-0.14	-0.02	-0.05	-0.33	0.03	0.58	0.27	0.1175	-0.1	0.1575	0.630395	0.636552	0.571345	0.999971	1	0.91816	
Hmrnp21	Q8VDM6	1.62	1.8	2.15	1.58	1.61	1.63	1.77	1.77	1.57	1.28	1.82	1.89	1.36	1.52	1.61	1.52	-0.0025	-0.0775	-0.285	0.64148	0.723392	0.178056	0.999971	1	0.808532	
Hmrnp22	Q009P9	0.04	0.12	0.23	0.17	0.09	-0.2	-0.04	-0.05	0.09	0.09	0.1	-0.14	-0.27	-0.23	-0.07	-0.14	-0.19	-0.105	-0.3175	0.277976	0.529167	0.082946	0.999971	1	0.755254	
Hmrnp23	O92Y23	-0.71	-0.12	-1.3	-1.22	-1.12	-1.14	-1.39	-1.4	-1.3	-0.88	-1.02	-1.15	-1.28	-1.26	-1.41	-1.16	-0.2	-0.025	-0.215	0.344489	0.940024	0.299472	0.999971	1	0.847402	
Hmrnp24	O92Y23-5	-0.23	1.52	2.02	1.19	1.18	0.95	1.21	1	0.8	0.66	2.26	1.84	2.06	0.5	2.37	2.44	0.295	0.14	0.7175	-0.388971	0.827469	0.255739	0.999971	1	0.839012	
Hmrnp25	Q9CWM5	-0.56	-1.08	-0.31	-0.64	-1.18	-0.5	-0.12	-0.89	-0.4	-0.93	-0.28	-0.12	-0.88	-0.72	-1.22	-0.88	-0.1615	-0.11	0.31	0.61411	0.747347	0.17527	0.999971	1	0.860218	
Hmrnp26	O9J9P6-2	0.82	0.48	0.37	-0.18	-0.22	0.76	-0.21	0.29	0.17	0.1	-0.28	-0.35	0.08	-0.24	0.29	-0.21175	-0.4625	-0.2075	0.497456	0.108809	0.46632	0.999971	1	0.891431		
Hmrnp27	Q8BIL5	0.89	0.66	0.73	0.54	1.24	0.84	1.1	1.17	0.48	0.8	0.98	1.08	0.54	0.69	0.69	0.93	0.3825	0.13	0.0075	0.065245	0.525736	0.967493	0.999971	1	0.998787	
Hmrnp28	AD1A180G5	1.11	1.57	2.25	1.48	1.46	1.85	2.48	1.47	2.15	1.5	1.64	0.61	-1.57	0.56	1.24	1.63	0.2125	-0.1275	-0.1375	0.539874	0.741164	0.122552	0.999971	1	0.78268	
Hmrnp29	Q8BUX6	0.71	0.07	0.84	0.75	0.65	0.75	0.85	0.49	0.67	0.45	0.12	0.13	0.55	1.2	0.51	0.23	0.0825	0.075	-0.202	0.646994	0.894416	0.967493	0.999971	1	0.984774	
Hmrnp30	Q8RIH0	0.9	1.04	1.64	1.07	0.56	0	1.76	2.73	0.84	0.35	2.36	1.72	0.68	-0.05	2.14	1.26	0.1	-0.02	-0.155	0.862865	0.971584	0.373063	0.999971	1	0.955919	
Hmrnp31	G3TEA8-2	0.67	-0.41	-0.3	-0.23	-1.4	-1.47	-0.92	-1.73	-1.34	-0.84	-1.37	-1.02	-1.89	-1.35	-1.8	-1.96	-1.3125	-0.175	-1.6825	0.002027	0.004891	0.000326	0.999971	1	0.247672	
Hmrnp32	P84075	0.19	1.18	0.35	0.38	0.81	1.44	-0.2	1.05	0.82	0.64	-0.14	-0.27	1.35	1.57	0.43	0.74	0.25	-0.2625	0.4975	0.533313	0.457373	0.170888	0.999971	1	0.803758	
Hmrnp33	P82748	-1.01	-0.12	-0.17	0.38	-0.74	-0.87	0.6	0.05	-1.08	-0.11	0.09	1.2	-1.02	0.43	0.4	0.17	1.18	-1.05	0.259795	0.960827	0.960827	0.999971	1	0.983462		
Hmrnp34	Q8RGK2	-1.64	-1.74	-1.87	-1.88	-1.02	-1.25	-1.15	-1.56	-1.25	-1.62	-1.32	-1.32	-1.15	-1.23	-1.28	-1.52	0.5375	0.405	0.4875	0.019892	0.044645	0.022358	0.999971	1	0.652043	
Hmrnp35	Q9JHF7	0.83	2.63	0.46	-0.28	0.24	2.25	0.37	0.44	2.55	1.17	0.65	-0.07	2.97	2.15	0.14	0.14	0.255	0.165	0.44	0.763624	0.826542	0.607786	0.999971	1	0.925695	
Hmrnp36	P00493	-0.8	2.11	1.55	0.69	2.04	1.57	1.35	1.51	2.12	-0.5	1.52	1.64	2.4	1.41	1.53	0.87	0.73	0.3075	0.665	0.239593	0.693846	0.317403	0.999971	1	0.853841	
Hmrnp37	Hpg	Q91572	3.72	2.32	0.7	2.46	3.53	0.62	2.67	1.56	0.86	0.2	1.87	2.69	2.7	0.49	2.48	2.33	-0.205	-0.89	0.6	0.797327	0.533901	0.382494	0.999971	1	0.871816
Hmrnp38	Q61411	-1.97	-1.47	-1.46	-1.13	-0.88	-1.12	-0.94	-0.94	-1.53	-1.02	-0.77	-0.84	-1.09	-0.7	-0.4	0.77	0.40	0.4475	0.298238	0.495248	0.503819	0.999971	1	0.793248		
Hmrnp39	H9S	O95S83	2.83	3.48	1.24	3.61	4.37	2.1	4.39	0.47	2.48	0.62	1.49	2.24	2.14	0.52	-0.39	0.077	0.0425	-1.0825	-1.58	0.963565	0.212801	0.17155	0.999971	1	0.617356
Hmrnp40	H1	P70174	-1.1	-1.65	-1.2	-1.13	-1.22	-1.39	-1.05	-1.04	-0.84	-0.97	-0.97	-1.33	-1.07	-0.96	-1.68	-0.45	0.095	0.2425	0.455	0.646792	0.270242	0.215897	0.999971	1	0.826893
Hmrnp41	H9S	O91705	-1.1	-1.88	-0.79	-0.18	-0.94	-1	-0.03	-0.23	-1.57	-0.72	0.07	-0.51	-0.56	-0.21	-0.22	-0.1125	-0.245	0.3175	0.853486	0.760308	0.601914	0.999971	1	0.924543	
Hmrnp42	Q17C33	0.55	0.3	0.12	0.53	0.16	0.51	0.06	0.16	0.36	0.15	0.24	0.25	0.16	0.47	-0.18	0.28	0.25	-0.53	0.798801	0.180742	0.32387	0.999971	1	0.804975		
Hmrnp43	Q8RH77	-1.29	1.25	2.38	0.95	1.75	1.89	2.43	1.31	1.4	1.1	1.72	1.48	1.89	1.03	1.93</											

ik	Q921M8	-0.55	-0.37	1.12	1.23	-0.21	-0.29	0.67	1	-0.32	0	1.01	1.07	-0.75	-0.22	1.24	1.17	-0.065	0.0825	0.0025	0.901897	0.879897	0.996819	0.999971	1	1	
ik6b	A0AK040T	-0.08	0.59	-0.38	-0.46	0.36	0.7	-0.4	-0.29	0.48	0.11	-0.01	0.13	0.46	0.27	-0.28	0.01	0.175	0.26	0.1975	0.618509	0.359378	0.512494	0.999971	1	0.905815	
ik6g	E9Q2Y7	-0.46	-0.35	-0.43	0.01	0.37	-0.08	0.56	0.09	0.65	0.32	0.42	0.16	-0.48	-0.21	-0.56	0.17	0.0425	0.36	-0.1375	0.881307	0.240766	0.617007	0.999971	1	0.928413	
ik17a	Q60943	-0.94	-0.68	0.02	0.34	-0.95	-0.53	0.31	0.18	-1.2	0.19	-0.42	-1.12	-0.2	-0.66	-1.3	-1.34	0.1175	-0.6175	-0.51	0.759613	0.084453	0.191449	0.999971	1	0.810547	
ik17b	P70380	-0.67	-0.26	-0.97	-1.27	-0.09	-0.73	-1.26	-1.03	-0.2	-0.58	-1.03	-0.64	0	-0.05	-0.66	-1.48	0.015	0.18	0.245	0.963889	0.534468	0.536049	0.999971	1	0.910707	
ik19	A0AK07W5	-0.74	-0.74	1.26	1.69	1.2	-0.92	0.12	2.02	0.44	0.56	0.93	-0.46	1.36	1.36	1.4	2.84	-1.2325	-1.005	0.49	0.576162	0.634082	0.098916	0.999971	1	0.70268	
ik19ap	Q61370	-0.19	-1.02	-0.9	-0.24	-0.81	-0.63	-0.41	-0.21	-0.97	-0.58	-0.61	-0.6	-0.7	-0.83	-0.43	-0.14	0.0725	-0.1025	0.0625	0.78978	0.692688	0.82418	0.999971	1	0.976309	
ik19ap1	B1ASU0	-1.23	-0.7	-1.95	-1.7	-1.06	-0.85	-1.89	-1.79	-1.08	-1.16	-1.73	-2.06	-0.75	-0.77	-1.8	-1.59	-0.0025	-0.1125	0.1675	0.994573	0.751589	0.657898	0.999971	1	0.934638	
ik19ap2	Q9R56E	-0.04	0.41	0.71	0.29	-0.01	0.65	-0.08	0.56	-0.05	0.56	0.51	-0.14	0.53	0.91	0.4	1	-0.0625	-0.1225	0.3675	0.814129	0.489977	0.157718	0.999971	1	0.797252	
ik6i	Y6X000	-0.51	-0.45	-0.41	-0.21	-0.46	-0.35	-0.42	-0.38	-0.47	-0.72	-0.29	-0.45	-0.4	-0.4	-0.4	-0.32	-0.0725	0.0025	0.335166	0.262809	0.217837	0.599971	1	0.904803		
ik19	A0AK06VY	-0.25	-0.95	-1.05	-1.08	-0.88	-0.67	-0.88	-0.88	-0.87	-0.52	-0.99	-1.1	-0.63	-1.15	-1.4	-1.14	-0.04	-0.305	0.245	0.870149	0.609158	0.381346	0.999971	1	0.871816	
if2	Q9CYK6	0.65	0.89	0.62	0.53	0.86	0.93	0.4	0.52	0.72	0.65	0.4	0.47	0.35	0.48	0.29	0.59	0.005	-0.1125	-0.245	0.980481	0.535748	0.199309	0.999971	1	0.811335	
if3	Q921K4-3	0.72	0.53	0.18	0.4	0.45	0.6	0.03	0.53	0.72	0.77	0.48	0.33	0.62	0.73	0.71	0.66	-0.055	0.1175	0.2225	0.800019	0.568429	0.254848	0.999971	1	0.839012	
ifk	Q55222	0.03	0.5	0.44	0.43	1.32	0.86	0.65	0.32	0.83	0.54	0.18	0.73	0.46	0.43	0.31	0.17	0.3875	0.379	-0.0075	0.116576	0.07372	0.988917	0.999971	1	0.998787	
ikap	Q8R06E	3.22	2.16	1.57	1.81	2.7	2.33	2.25	1.41	2.77	3.24	1.63	1.27	1.48	0.7	-0.1775	-0.0075	-0.415	0.77159	0.895544	0.387616	0.999971	1	0.975578			
ikun	A0AK03W3	0.72	2.92	1.95	2.8	2.51	2.24	1.42	2.91	2	1.35	2.12	2.43	2.78	2.66	2.61	2.65	0.1725	0.1225	0.5775	0.753705	0.81264	0.244432	0.999971	1	0.837316	
ikvlb	Q8BU33	-0.29	-0.3	-1.09	-1.11	-0.35	-0.61	-1.25	-0.65	-0.55	-0.58	-0.88	-1.08	-0.21	-0.37	-0.71	-0.89	-0.0175	-0.0775	0.1525	0.954448	0.788465	0.603761	0.999971	1	0.924545	
ikmnp1	Q9CU18	0.73	0.92	-1.05	0.25	0.4	0.15	-0.48	0.26	0.48	0.79	-0.08	-0.83	0.96	0.03	-0.71	0.5	-0.21	-0.1225	-0.0175	0.666138	0.816423	0.973435	0.999971	1	0.99925	
ikmnp21	Q8R916	-1.62	-0.25	-0.55	-0.75	-0.6	-0.47	-0.59	-0.37	-0.71	-0.17	-0.15	-1.32	-0.95	-0.08	0	0.23	0.31	-0.4725	0.5425	0.308028	0.225204	0.155291	0.999971	1	0.995738	
ikmnt	Q9R000	0.01	0.97	-2.23	-1.71	1.3	1.32	-1.76	-2.26	-1.51	-0.05	-1.27	-1.94	-2.05	0.76	-2.43	-2	0.39	0.3025	0.335	0.719911	0.752226	0.774844	0.999971	1	0.963884	
ikmnt1	Q8CAQ8-3	-0.73	-1.23	0.44	0.39	-0.05	0.19	0.02	-0.14	-0.14	0.36	-0.32	0.57	-0.92	-1.18	-0.52	-0.81	0.2875	0.4	-0.575	0.481352	0.374766	0.191012	0.999971	1	0.810547	
ikmnt2	Q8CAQ8-2	-1.2	0.73	1.36	1.04	0.39	1.96	0.38	1.37	1.18	1.97	0.44	1.08	0.68	1.42	0.42	2.1	-0.0775	0.0025	0.0825	0.377444	0.382673	0.757734	0.999971	1	0.961116	
ikmnt3	Q8CAQ8	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	0.0825	0.377444	0.382673	0.757734	0.999971	1	0.961116	
ikmnt4	EP9V55	-4.67	-2.66	-6.8	-6.83	1.91	-1.96	-6.2	-1.51	-6.61	-5.89	-6.1	-6.93	2.65	0.39	-5.91	-1.77	2.505	-2.895	2.53	0.238883	0.03747	0.226167	0.999971	1	0.828225	
ikmp3	Q921Y2	-1.29	-1.57	-1.3	-1.67	-1.86	-1.12	-1.5	-1.35	-1.98	-0.78	-1.32	-0.37	-0.66	-2.26	-1.69	-1.3	3.93E-16	0.345	-0.02	1	0.344069	0.953812	1	1	0.998056	
ikmpa1	Q92480	-0.16	0.38	0.41	0.58	0.07	1.12	0.34	0.1	0.44	0.26	0.12	0.43	0.4	-0.12	0.5	0.41	0.45	-0.04	0	0.0075	0.856575	1	0.795697	0.999971	1	0.99925
ikmpa2	Q91U25	3.15	1.01	1.28	0.87	0.22	1.43	2.08	0.98	1.06	0.67	1.93	1.66	1.27	0.5	0.74	0.07	0.4	0.3525	-0.9325	0.511413	0.573786	0.12305	0.999971	1	0.78208	
ikmpa3	Q55011	0.24	0.56	0.56	0.28	0.72	0.38	1.06	0.42	0.92	0.17	0.61	0.38	0.23	0.59	0.2	0.0625	0.433876	-0.0325	0.433876	0.998187	0.862518	0.999971	1	0.999963		
ikmpd1	F70E16	0.46	1.22	0.74	0.59	1.03	0.74	0.56	1.27	1.04	0.96	0.93	1.28	1.13	1.09	1.03	0.56	0.1475	0.3	0.2	0.565599	0.201423	0.42169	0.999971	1	0.877992	
ikmpd2	P24547	-0.67	0.31	0.36	0.11	0.22	-0.32	0.13	0.25	0.46	-0.26	0.5	0.47	0.79	0.19	0.41	0.03	0.0425	0.265	0.3275	0.881899	0.398622	0.290825	0.999971	1	0.847402	
ikna	P46660	-0.61	-0.86	-1.12	-1.34	-1	-0.61	-1.57	-1.42	-0.95	-0.72	-1.4	-1.25	-1	-0.68	-1.25	-1.18	-0.1675	-0.0975	-0.2	0.55749	0.693848	0.504007	0.999971	1	0.905265	
iknfm2	A0A115T5	-0.12	0.15	0.17	0.18	0.77	0.33	0.25	0.44	0.17	0.4	-0.57	0.5	1.52	0.37	1.48	-0.01	0.2375	-0.0025	0.337	0.315188	0.582172	0.17028	0.999971	1	0.959926	
iknfr2	E9QIA5	0.23	0.62	0.04	0.01	0.47	-0.07	-0.15	0.12	0.44	-0.03	-0.16	0.13	0.3	0.28	0.06	-0.36	-0.1325	-0.1	-0.155	0.573341	0.571125	0.52519	0.999971	1	0.905927	
iknfr3	Q9SEK4	0.09	0.23	2.43	0.77	1.23	-0.84	2.45	0.61	1.68	-0.48	2.33	1.82	-1.87	0.04	1.24	0.33	-0.0175	0.4575	-0.945	0.982128	0.543874	0.23618	0.999971	1	0.832918	
iknfr4	Q3TXY3	1.7	1.95	1.79	1.68	1.6	1.25	1.83	1.45	1.28	1.22	1.26	0.78	0.7	0.74	2.25	1.02	-0.2475	-0.645	-0.6025	0.230823	0.088414	0.122842	0.999971	1	0.78268	
iknfr5	P45442	-1.07	-0.65	-0.56	-0.85	-0.64	-0.86	-0.26	-0.43	-0.16	-0.19	-0.46	-0.58	-0.04	-0.75	0.14	0.46	-0.0175	0.54	-0.0175	0.54202	0.387488	0.195071	0.999971	1	0.959926	
iknfr6	F6V2U0	-0.34	0.2	0.04	0.08	0.05	0.08	-0.03	-0.1	0.19	-0.1	-0.06	0.02	0.09	0.12	-0.06	0.01	0.0005	0.0795	0.0675	0.979044	0.920752	0.752666	0.999971	1	0.955916	
iknfr7	EP9VM1	-0.3	-1.03	-0.4	-0.08	-0.65	-0.99	-0.56	-0.17	-0.94	-0.56	-0.41	-0.16	-1.25	-0.53	-0.57	-0.21	-0.14	-0.065	-0.1875	0.619366	0.814271	0.544615	0.999971	1	0.911398	
iknfr8	Q7TNC9	-0.75	-0.49	-0.29	-0.25	-0.51	-0.29	-0.45	-0.03	-0.37	-0.42	-0.29	0.71	-0.01	-0.15	0.02	-0.08	0.125	-0.0025	0.395	0.552889	0.990019	0.063284	0.999971	1	0.725348	
iknfr9	Q8K337	0.16	-0.22	0.22	0.11	-0.23	-0.52	-0.03	-0.13	-0.09	-0.13	0.1	0.08	0.3	-0.41	-0.13	-0.22	-0.2425	-0.025	-0.28	0.755584	0.982808	0.16504	0.999971	1	0.800215	
iknfr10	Q9E532-3	0.01	0.34	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.075	0.400848	0.214204	0.929428	0.999971	1	0.994478	
iknfr11	Q9JH1	-0.34	-0.57	-1.3	-0.8	-0.65	-0.57	-0.22	-1.13	-0.86	-0.31	-0.97	-0.82	-1.16	-0.47	-1.23	-0.85	0.11	0.0125	-0.175	0.705265	0.963605	0.541687	0.999971	1	0.911042	
iknfr12	Q8CDA1	-0.07	0.02	0.06	0.03	-0.28	-0.07	-0.41	0.14	0.22	0.03	-0.36	-0.19	0.44	0.03	0.13	-0.15	-0.235	-0.085	0.1775	0.918428	0.676544	0.330645	0.999971	1	0.851707	
iknfr13	Y9P644	0.67	-0.19	0.32	0.58	-0.57	0.09	0.22	0.29	-0.12	0.59	0.17	0.02	0.06	0.01	0.25	0.52	-0.3375	-0.18	-0.14	0.260457	0.503448	0.848373	0.999971	1	0.920364	
iknfr14	Q8C5U1	-0.15	-0.43	-0.11	-0.43	-0.11	-0.43	-0.11	-0.43	-0.11	-0.43	-0.11	-0.43	-0.11	-0.43	-0.11	-0.43	-0.11	-0.43	0.025	0.172	0.681302	0.520719	0.072352	0.999971	1	0.928474
iknfr15	Q9P549	0.62	-0.01	0.2	0	-0.15	0.06	0.04	0.01	-0.16	0.66	0.25	0.07	0.05	0.2	0.13	0.6	-0.2125	0.0005	0.0425	0.320325	0.992085	0.853629	0.999971	1	0.981848	
iknfr16	A0A0U1RN	-1.06	-1.37	-1.01	-0.95	-1.51	0.16	-1.96	-0.45	-1.45	-1.13	-1.76	-0.63	-2.67													



Jph3k	Q9E777	0.43	-0.8	-0.31	-0.48	-0.89	-0.14	-0.34	-0.26	-0.78	-0.04	-0.22	-0.71	-0.33	-0.6	-0.36	-0.43	-0.1175	-0.1475	-0.14	0.708461	0.646891	0.622899	0.999971	1	0.929759	
Jph4k	Q8QW70	-0.92	0.3	0.1	-0.22	0.09	0	0.79	0.21	-0.03	-0.28	-0.34	-0.33	-0.88	0.07	-0.43	-0.17	0.5075	-0.01	0.7725	0.132691	0.971358	0.430596	0.999971	1	0.882419	
Jph1k	P97825	1.19	0.39	0.42	0.28	0.18	0.81	0.17	0.81	0.07	0.67	0.55	0.37	0.73	0.79	0.87	0.86	0.0375	-0.165	0.245	0.850881	0.603787	0.411653	0.999971	1	0.875847	
Jph2k	Q6PGH2	2.52	0.25	0.16	0.6	0.4	0.36	0.92	-0.13	0.8	0.22	0.1	0.49	1.52	0.69	0.77	0.56	-0.495	0.02	0.0025	0.376197	0.975745	0.996353	0.999971	1	1	
Jphb	D32401	2.12	1.95	1.37	1.32	1.94	3.02	0.54	1.14	2.44	3.06	0.31	1.12	2.44	3.21	1.51	1.8	-0.03	0.0425	0.05	0.954689	0.943622	0.201445	0.999971	1	0.815758	
Jmb	P90450	3.26	4.48	2.09	1.08	3.86	4.02	2.36	1.51	1.94	3.92	0.01	0.32	1.59	2.04	0.96	0.49	-0.04	-1.4	-1.7075	0.957436	0.161273	0.919528	0.999971	1	0.635338	
Jund	P15066	1.44	1.56	1.19	1.19	1.34	2.48	1.27	1.5	1.75	1.87	1.91	1.07	1.06	2.2	0.94	2.88	1.35	-0.1325	-0.0375	0.660486	0.603811	0.609211	0.999971	1	0.996787	
Jup	Q00257	-0.71	-0.77	-1.16	-1.29	-0.76	-1.02	-1.03	-1.34	-1	-0.8	-0.92	-1.06	-1.15	-1.02	-1.5	-1.53	-0.055	0.0375	-0.3175	0.807968	0.8543	0.19148	0.999971	1	0.810547	
Kalrn	D32534	-3.05	-1.64	-2.41	-2.15	-0.59	-3.21	-1.6	-3	-0.42	-0.01	-2.67	-1.06	-0.69	-2.16	-3.8	-1.81	0.2125	0.2725	0.5425	0.73325	0.727527	0.538806	0.999971	1	0.910077	
Kalrn_1	A2C649	-0.51	-0.4	0.38	-0.58	-0.66	-0.46	0.112	-0.87	-0.29	0.12	-0.29	-0.18	-0.77	-0.91	0.71	0.025	0.17	-0.175	0.918089	0.311554	0.424518	0.999971	1	0.878931		
Kalrn_2	A2C649-B	-1.99	-0.47	0.07	0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	0.025	0.67711	0.71152	0.161659	0.430735	0.999971	1	0.910256
Kank2	Q9231P	0.72	0.85	0.06	2.22	0.69	1.21	0.77	0.85	2.89	0.31	-0.71	-0.82	0.19	0.61	0.73	0.1	-1.0575	-1.56	-2.01	0.226468	0.178058	0.042953	0.999971	1	0.701725	
Kank3	Q8X802	1.01	0.34	0.15	0.59	0.21	0.23	0.5	-0.11	0.7	1.78	0.43	1.5	-0.35	0.81	0.46	-0.25	0.16	0.58	-0.355	0.743914	0.135986	0.30494	0.999971	1	0.847402	
Kank2	Q9231P	0.43	0.74	-0.27	0.96	0.66	0.52	-0.07	0.19	0.87	0.39	0.28	0.29	0.66	0.85	0.39	0.56	-0.14	-0.0075	0.15	0.66075	0.980528	0.614274	0.999971	1	0.927517	
Kank4	Q8P955	2.51	0.35	-0.64	0.5	0.21	0.18	-0.25	-0.46	0.69	2.43	-0.47	-0.96	-0.38	0.63	-0.38	-0.15	-0.76	-0.2575	-0.7525	0.240179	0.775864	0.25841	0.999971	1	0.839012	
Kars	Q8R2P8	0.57	1.36	1.19	1.31	0.91	1.29	1.13	0.96	1.48	1.59	1.38	1.59	1.62	1.88	1.59	1.62	0.1775	0.27	0.446	0.602094	0.320736	0.073832	0.999971	1	0.746089	
Kars1	Q99NM1	1.57	1.33	0.57	1.7	0.43	0.96	0.33	1.87	1.24	1.5	1.06	0.62	1.17	1.69	1.43	1.78	-0.395	-0.1875	0.225	0.351065	0.557144	0.457386	0.999971	1	0.887696	
Kat5a	Q6P238	0.45	0.09	0.02	-0.04	-0.27	-0.25	-0.13	-0.55	-0.79	0.56	-0.34	-0.32	0.05	-0.15	0.09	0.08	-0.455	-0.3525	-0.1125	0.045871	0.271198	0.560227	0.999971	1	0.915694	
Kat2a	AA04948A	5.53	2.21	0.48	0.27	1.76	2.74	-0.41	1.02	2.45	4.01	-0.12	-0.03	-1.38	0.94	0.12	-0.36	-0.845	-0.545	-2.925	0.498249	0.700367	0.076166	0.999971	1	0.748444	
Kat7	Q55VQ3-3	3.38	0.84	0.89	0.19	0.14	0.14	1.72	-0.22	0.22	4.49	-0.42	-0.49	-0.55	1.18	0.44	-0.16	-0.7825	-0.1	-1.2675	0.281573	0.619419	0.07743	0.999971	1	0.752059	
Katn1a1	Q8K074	0.42	-0.1	-0.03	0.21	0.14	0.15	-0.14	0.26	-0.03	0.29	-0.08	-0.02	0.31	0.32	0.17	0.58	-0.0225	-0.085	0.22	0.911444	0.671558	0.295383	0.999971	1	0.847402	
Katn1b	Q8HG40	0.05	0.19	-0.83	-0.76	0.13	0.08	-0.18	-0.59	0.24	0.01	-0.39	-0.68	0.54	0.29	-0.51	-0.63	0.1975	0.1325	0.26	0.536756	0.692706	0.500366	0.999971	1	0.904223	
Kazn	G3N774	-0.09	-0.66	-0.11	0.15	-0.34	-0.93	-0.21	-0.51	0.17	0.17	-0.34	-0.53	-1.17	-0.51	0.41	0.43	-0.32	0.045	-0.0325	0.233644	0.866008	0.936046	0.999971	1	0.995618	
Kazn_1	Q692S8-2	-0.13	0.09	-0.45	0.03	-0.02	-0.01	-0.2	-0.14	0.28	0.04	-0.24	-0.14	0.13	0.16	-0.24	0.55	0.0325	0.1	-0.01	0.867421	0.638087	0.966828	0.999971	1	0.998787	
Kb1b11	Q8BNNV	-0.1	0.08	-0.26	0.04	0.03	-0.26	0.34	-0.08	-0.04	-0.29	-0.64	-0.35	-0.47	0.03	-0.29	-0.46	-0.0825	-0.34	-0.2175	0.65553	0.083678	0.888613	0.999971	1	0.847402	
Kb1b2a2	G3X9X1	0.5	0.87	1.19	1.16	0.73	0.87	0.86	1.01	1.02	0.55	1.28	0.15	0.48	0.88	1.24	1.13	-0.0735	-0.18	0.0025	0.863049	0.557773	0.992262	0.999971	1	0.999525	
Kb1b3a3	Q8BH84	-1.04	-0.4	-1.09	-1.02	-0.59	-0.32	-0.9	-0.4	-0.57	-0.94	-0.95	-1.12	0	-0.38	-0.69	-0.44	0.335	-0.0075	0.51	0.187321	0.974352	0.064646	0.999971	1	0.726597	
Kb1b3a3	Q8B179-2	0.86	-0.84	0.57	0.29	-0.89	-0.43	-0.3	0.29	-0.63	0.05	1.06	0.93	0.24	-0.12	0.24	0.68	-0.5525	0.1325	0.04	0.211844	0.793933	0.131848	0.999971	1	0.995618	
Kb1b3a3	G55EC2	-0.16	-0.87	-0.72	-0.87	-0.72	-0.87	-0.72	-0.87	-0.72	-0.87	-0.72	-0.87	-0.72	-0.87	-0.72	-0.87	-0.72	-0.87	0.14	0.294857	0.766118	0.062967	0.999971	1	0.934005	
Kcmf1	Q8U0Y2	0.67	-0.24	0.28	0.72	-0.94	-0.4	2.34	1.02	-0.84	0.38	0.27	-0.26	-0.21	-1.06	-0.49	-1.14	0.1475	-0.47	-1.5825	0.832423	0.798383	0.003525	0.999971	1	0.977231	
Kcn1a1	P16388	-0.07	-0.46	-0.4	-0.54	-0.78	-0.62	-1.13	-0.7	-1.26	-0.83	-0.91	-0.73	-0.98	-0.5	-0.85	-1.1	-0.2825	-0.4075	-0.335	0.169517	0.059293	0.126302	0.999971	1	0.783071	
Kcn1a2	P63141	-0.85	-1.65	-1.41	-1.21	-1.81	-1.22	-1.82	-1.49	-1.85	-1.25	-1.99	-1.63	-2.44	-1.54	-1.53	-1.06	-0.305	-0.4	-0.3625	0.242439	0.145672	0.939842	0.999971	1	0.847402	
Kcn1a3	P16396	-0.55	-1.36	-1.17	-0.91	-1.29	-1.13	-0.95	-1.25	-1.85	-1.45	-1.95	-1.38	-1.59	-1.62	-1.88	-1.21	-0.1675	-0.16	0.425	0.72388	0.166115	0.09372	0.999971	1	0.995618	
Kcn1a4	Q61423	-0.74	-0.83	-1.55	-1.71	-0.94	-0.74	-2.58	-1.71	-0.55	-1.01	-2.96	-1.32	-0.52	-1.2	-2.81	-3.72	0.215	0.0475	-0.105	0.784366	0.956281	0.907755	0.999971	1	0.991405	
Kcn1a6	Q61923	-0.89	-1.07	-1.27	-1.18	-1.11	-0.76	-1.42	-1.23	-0.86	-0.7	-1.31	-1.28	-0.91	-0.76	-1.04	-0.93	-0.0275	0.065	0.1925	0.896274	0.763755	0.301743	0.999971	1	0.847402	
Kcn1a1	P63143	-1.01	-0.36	-0.7	-0.22	-0.19	-0.54	-0.72	-0.22	-0.58	-1.17	-0.53	-0.33	-0.14	-0.63	-0.37	0.32	0.155	-0.105	0.2075	0.536118	0.712227	0.394969	0.999971	1	0.871816	
Kcn1a2	P63142	-0.38	-0.6	-1.1	-1.55	-0.48	-0.53	-1.46	-1.28	-0.99	-1.45	-1.36	-0.56	-1.24	-1.1	-1.05	-1.36	-0.0275	-0.16	0.07	0.973651	0.511022	0.09372	0.999971	1	0.995618	
Kcn1a3	Q8V073	0.37	0.33	0.05	-0.37	0.13	0.35	-0.45	-1.49	0.6	0.15	-0.22	0.71	-0.51	-0.13	-1.13	-1.01	-0.21	-0.19	0.54	0.695997	0.661477	0.244613	0.999971	1	0.837316	
Kcn1b1	Q30717	-0.51	-0.87	-0.42	-0.62	-1.13	-0.72	0.09	-0.1	-0.97	-0.95	-0.86	-1.08	-0.31	-1.17	-0.98	-0.79	-0.0875	-0.36	-0.2075	0.770806	0.071591	0.400651	0.999971	1	0.941816	
Kcn1b2	A6H8H5	-0.76	-0.69	-0.07	-0.65	-1.34	-0.89	-0.64	-0.59	-0.88	-0.65	-0.17	-0.78	0.03	-0.82	-0.55	-0.39	-0.3225	-0.075	0.11	0.232264	0.756687	0.676169	0.999971	1	0.941816	
Kcn1c1	P51388-3	-0.17	-0.73	0.12	-0.03	-0.11	-0.08	-0.07	-0.44	1.2	-0.46	-0.4	-0.84	-0.79	-0.65	-0.35	-0.22	-0.1725	-0.4725	-0.25	0.588808	0.118495	0.343067	0.999971	1	0.861474	
Kcn1c2	Q14B80	-1.14	-0.47	-0.1	-0.03	-0.12	-0.03	-0.12	-0.03	-0.12	-0.03	-0.12	-0.03	-0.12	-0.03	-0.12	-0.03	-0.12	-0.03	0.5625	0.381685	0.747864	0.072903	0.999971	1	0.995618	
Kcn1c3	Q9K0K2	-0.52	-0.29	-0.68	-0.47	-0.09	-0.42	-1.42	-1.28	-1.09	-0.66	-0.99	-0.93	0.84	0.08	-1.45	-0.57	-0.1025	-0.7475	0.215	0.812581	0.045149	0.643621	0.999971	1	0.93301	
Kcn1c4	AA0571B6	-0.04	-0.64	-1.22	-0.82	-0.73	-0.06	-0.74	-0.47	-0.57	0.53	-0.96	-1.44	-0.1	-0.24	-0.72	0.03	0.21	0.07	0.4225	0.507571	0.878324	0.187334	0.999971	1	0.809025	
Kcn1d1	Q30719	-2.64	-1.57	-1.28	-1.18	-0.78	-2.53	-1.96	-0.93	-0.8	-2.59	-1.45	-1	-0.04	-1.99	-0.81	-0.97	0.1175	0.2075	0.715	0.813139	0.671845	0.166975	0.999971	1	0.800215	
Kcn1d2	Q920V2	-0.84	-0.87	-0.87	-0.54	-0.87	-0.54	-0.87	-0.54	-0.87	-0.54	-0.87	-0.54	-0.87	-0.54	-0.87	-0.54	-0.87	-0.54	0.05	0.805105	0.757373	0.718136	0.999971	1	0.963408	
Kcn1d3	Q920V1	-0.76	-1.28	-1.83	-1.8	-0.9	-1.05	-2.02	-1.37	-1.01</																	

KHdc8B	Q90209	-1.01	-1.29	-0.58	0.05	0.13	-0.81	-0.84	-0.52	-0.71	-1.3	-0.59	-0.65	-0.79	-1.3	-0.42	-0.55	0.1975	-0.105	-0.0575	0.586154	0.753106	0.688026	0.999971	1	0.983462	
KHdc9	QJ05L1	0.18	0.16	-1.58	-1.81	-0.57	-0.37	-0.65	0.06	-0.35	-0.9	-1.95	0.41	-0.61	0.35	-1.34	-2.02	0.38	0.065	-0.1425	0.474872	0.922578	0.832359	0.999971	1	0.979036	
KH11	QKCE13	-0.46	-0.35	1.21	0.98	0.06	0.22	0.77	0.61	-0.15	-0.36	0.52	0.47	0.03	0.11	0.43	0.63	0.13	-0.35	-0.26	0.739398	0.397383	0.956077	0.999971	1	0.905277	
KH13	Q80TTA-5	-2.11	1.02	-0.35	-1.28	0.9	0.04	-0.46	-0.43	0.14	-2.49	-2.89	-0.44	-2.6	-0.56	0.09	-1.24	0.6725	-0.74	0.9025	0.331344	0.422293	0.935867	0.999971	1	0.869526	
KH2	Q8ZP23	-3.88	-0.31	-0.41	-1.79	-0.29	-1.45	-0.4	-0.37	-1.26	-3.79	0.12	0.49	-0.35	-2.83	-0.59	-1.6	0.97	0.4875	0.255	0.238761	0.617937	0.977659	0.999971	1	0.964822	
KH20	Q9PKV5	4.41	-0.57	1.29	1.21	-1.28	-0.22	1.83	0.97	-0.65	2.7	1.08	0.25	-1.7	-1.74	0.32	-0.46	-1.26	-0.74	-0.225	0.272277	0.516643	0.061374	0.999971	1	0.725348	
KH22	Q9JN2	-0.35	0.12	0.26	-0.37	0.07	0.11	-0.3	0.39	0.99	0.18	0.01	-0.16	0.38	-0.31	0.17	-0.0375	0.1575	0.03	0.884334	0.503049	0.903284	0.999971	1	0.991035		
KH26	Q8BGY4	-0.61	-2.42	-1.59	-1.66	-2.18	-1.27	-1.02	-1.59	-1.85	-0.87	-1.34	-1.13	-2.62	-1.9	-0.95	-1.25	0.1555	0.3725	-0.01	0.721883	0.38373	0.983947	0.999971	1	0.959925	
KH26	QEC126	-1.29	0.1	0.02	-0.06	-0.27	0.26	0.04	0.28	0.09	-0.28	0.31	0.28	0.23	0.15	0.07	0.53	0.52	0.4075	0.5525	0.144293	0.263357	0.132292	0.999971	1	0.784948	
KH36	Q8R124	0.62	0.13	-0.36	1.37	0.5	0.83	-0.64	1.44	-0.54	0.98	-0.16	0.08	0.37	0.67	0.49	1.82	0.0925	-0.35	0.6475	0.886076	0.455434	0.177162	0.999971	1	0.808532	
KH4	Q8R16	-0.69	-0.39	-0.77	-0.31	-0.39	-0.06	-0.26	-0.43	-0.16	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	0.6375	0.338743	0.961823	0.103202	0.999971	1	0.782628	
KH41	A2AUC9	-0.39	-0.09	-0.55	-0.85	-0.76	-0.4	-1.04	-0.11	0.84	-0.28	-2.91	-0.22	-1.13	0.2	0.18	-0.03	0.41	0.3825	0.0125	1.15	0.601835	0.985834	0.132637	0.999971	1	0.784948
KH42	Q8BF09	1.29	1.88	0.04	-1.08	1.38	1.16	-1.08	-1.16	1.64	0.79	0.07	-0.41	-2.68	1.29	-1.17	0.09	-0.2325	-0.01	0.19	0.771507	0.988974	0.840646	0.999971	1	0.97975	
KH5	Q9JL12	-0.69	-0.54	-1.86	-1.2	-0.95	-0.52	-0.86	-1.97	-1.64	-0.12	-1.91	-1.32	-2.74	-0.31	-2.04	-1.19	-0.0025	-0.175	-0.4975	0.995139	0.707385	0.382223	0.999971	1	0.971816	
KH6	A2AHM0	-0.93	0.79	-0.16	-0.59	0.72	0.89	-0.36	-0.91	0.74	-0.72	-1.64	0.03	-0.25	0.6	-2.52	-1.14	0.0475	-0.065	0.495	0.440499	0.910171	0.483524	0.999971	1	0.896352	
KH9	Q8ZT11	0.18	1.27	1.19	1.04	1.34	1.5	1.22	1.15	1.99	0.23	1.58	1.64	1.99	0.3	1.6	1.47	0.1325	0.44	0.3525	0.677221	0.328615	0.565295	0.999971	1	0.887127	
KH9	Q51WNH-2	-1.51	-1.54	0.46	0.13	0.34	0.75	-0.06	0.31	0.74	0.13	0.08	0.08	0.94	-0.15	-1.12	1.2	1.015	0.975	1.1475	0.064703	0.084585	0.067961	0.999971	1	0.733937	
KH20a	P55200-2	-1.82	-0.74	-0.03	0.24	-0.86	-0.22	0.27	0.43	-0.71	-1.47	-0.25	-1.68	-0.19	-1.06	-1.2	0.28	0.2775	-0.44	0.045	0.567407	0.412923	0.932945	0.999971	1	0.959509	
Km1a	QCK055	0.67	0.38	0.9	0.82	0.19	0.58	0.62	1.08	0.32	0.96	0.39	0.27	0.32	1.09	0.65	0.7	-0.075	-0.2075	-0.0025	0.760252	0.381197	0.591416	0.999971	1	0.95925	
Km1a	QO867-2	3.26	1.55	0.43	1.31	3.25	1.28	3	1.18	1.01	0.74	0.65	0.95	1.06	1.42	0.91	0.76	0.0875	-1.2525	-1.0525	0.910829	0.670818	0.1207	0.999971	1	0.942648	
Km2	Q6S93	-1.03	-1.09	-1.24	-1.14	-1.19	-0.3	-1.74	-1.1	-0.97	-0.73	-1.61	-1.29	-0.48	-0.32	-0.89	0.71	0.0425	-0.025	0.525	0.889616	0.913808	0.203832	0.999971	1	0.664227	
Km2a	Q6S960	2.17	2.08	-0.1	0.46	1.44	2.6	0	0.43	1.81	2.69	0	-0.55	1.32	2.52	-0.19	-0.12	-0.35	-0.165	-0.27	0.961962	0.847652	0.729642	0.999971	1	0.956041	
Km2a	P52293	-0.41	0.52	0.54	-0.25	-0.33	0.09	-0.37	0.08	-0.1	-0.76	2.33	-0.44	-0.15	0.25	0.11	0.02	0.0375	0.4275	0.2275	0.889457	0.532614	0.411717	0.999971	1	0.878547	
Km3a	O35344	1.54	0.3	0.67	1.02	-0.21	1.02	0.76	0.01	1.11	0.64	0.33	-0.37	0.11	0.46	0.56	-0.2675	-0.21	-0.5425	0.551688	0.627398	0.217606	0.999971	1	0.826803		
Km3a	O35443	-0.16	0.61	-0.09	0	0.48	0.36	-0.34	0.3	0.16	0.07	-0.11	-0.32	0.4	0.49	-0.02	-0.1	0.11	0.14	0.1025	0.688141	0.555182	0.680311	0.999971	1	0.942525	
Km6a	O35345	0.56	0.4	0.43	0.5	0.14	0.89	0.65	0.55	0.14	0.56	0.57	0.24	0.28	0.81	0.56	0.72	0.085	-0.095	0.12	0.687752	0.607766	0.533026	0.999971	1	0.910609	
Km1b	P70168	0.52	-0.05	-0.1	-0.14	0.03	0.26	0.03	-0.24	0.01	0.04	-0.44	-0.07	0	0.22	0.14	-0.18	-0.3075	-0.1725	-0.0125	0.868278	0.455529	0.955073	0.999971	1	0.998056	
Km1b	Q3N8R1	0.68	-0.29	-0.2	0.1	-0.31	-0.35	0.23	-0.67	0.06	0.45	0.05	0.07	-0.13	0.37	-0.65	-0.51	-0.3475	-0.085	-0.3025	0.246919	0.745242	0.536377	0.999971	1	0.887893	
Km6	P12883-2	-1.57	-1.52	-1.11	-0.83	-1.28	-0.4	-0.41	-0.57	-1.38	-0.47	-0.68	-1.43	-0.9	-0.63	-0.7	0.0975	0.615354	0.778871	0.0975	0.615354	0.778871	0.0975	0.615354	0.999971	1	0.961064
Km1	V90XJ9	-2.73	0.78	0.69	0.68	0.82	0.47	0.04	0.8	0.79	-0.43	0.96	0.81	1.18	1.08	0.45	0.78	0.675	0.6775	1.0175	0.042354	0.424602	0.119697	0.999971	1	0.827064	
Kr1a	AOA0GZJG	0.14	-0.12	0.14	0.73	0	-0.19	-0.11	0.75	0.08	0.05	0.23	0.38	-0.27	0.02	0.31	0.71	-0.11	-0.0375	-0.03	0.707539	0.870624	0.912766	0.999971	1	0.992633	
Kr1	Q8BGA5	1.65	0.35	-0.39	-0.86	-0.3	0.28	-0.13	-0.44	-0.15	1.28	0.7	0.02	-0.98	-0.51	-0.64	-0.59	-0.235	-0.075	-0.8675	0.651809	0.641463	0.11997	0.999971	1	0.78268	
Kr12	24V09	0.15	-0.17	1.19	1.36	1.84	-1.5	1.22	1.15	1.99	0.23	1.58	1.64	1.99	0.3	1.6	1.47	0.1325	0.44	0.5475	0.825158	0.715702	0.1222	0.999971	1	0.942648	
Kr13a	Q8KY02	-0.73	-1.15	0.08	1.64	-1.28	-0.68	-2.34	-2.23	-1.42	1.39	1.12	-0.29	-1.73	6.48	-0.55	-0.08	-1.5925	-0.24	1.345	0.307565	0.767961	0.431814	0.999971	1	0.881643	
Kr176	Q3UV17	2.07	2.01	-0.54	-1.1	4.31	1.62	0.11	2.1	-1.49	-0.77	-0.47	-0.39	-2.49	5.39	-5.11	-2.41	-1.245	-2.375	-1.765	0.20654	0.044854	0.419005	0.999971	1	0.877788	
Kr18	Q9REZ2	-0.53	-8.22	2.46	3.3	-8.55	-8.41	-4.1	-5.16	-7.45	5.3	5.3	3.41	-1.56	13.07	4.35	1.23	-4.615	3.38	3.7125	0.115682	0.349508	0.478715	0.999971	1	0.894438	
Kr18a-1	A2AS91	0.27	-1.55	0.43	1.35	-1.49	-0.33	-3.8	-7.9	-1.05	1.39	4.63	0.27	-1.25	1.16	0.17	0.16	-0.4075	-0.216	0.1825	0.025898	0.34705	0.880675	0.999971	1	0.942648	
Kr18a2	AOA0A0M	-0.85	0.12	0.88	-1	-0.15	0.16	0.74	-0.23	-0.14	-2.03	0.43	0.19	-0.89	0.19	-0.1	0.04	0.425	-0.175	0.0225	0.464663	0.788288	0.961766	0.999971	1	0.998721	
Kr1	Q61097-2	0.09	0.71	0.42	0.27	0.25	0.44	0.35	0.53	0.1	-0.05	0.17	0.12	0.56	-0.04	0.43	0.23	0.02	-0.2875	-0.0775	0.920845	0.167829	0.732753	0.999971	1	0.956562	
Kr2	MOQW59	0.04	-0.26	0.17	-0.46	0.22	-0.1	-0.03	-0.12	0.07	0.21	0.35	0.45	0.38	-0.33	0.01	-0.23	0.12	0.3975	0.085	0.574848	0.086987	0.728754	0.999971	1	0.956041	
Ks12	Q9D1R2	0.87	-0.62	0.03	0.05	0.79	0.79	-0.38	-0.08	0.99	0.29	-0.14	-0.37	-0.31	0.63	-0.36	-0.28	-0.1125	-0.2	-0.4275	0.754046	0.979314	0.146844	0.999971	1	0.800215	
Ks1	AOA087W	0.17	0.13	0.17	-0.13	0.17	-0.13	0.17	-0.13	0.17	-0.13	0.17	-0.13	0.17	-0.13	0.17	-0.13	0.17	-0.13	0.0375	0.616202	0.120635	0.929412	0.999971	1	0.979737	
Km1_1	AOA087W	0.34	-0.06	-1.37	-0.83	-0.4	-0.11	-0.7	-0.74	-0.41	-0.95	-0.43	-0.14	0.2	-0.24	-1	-0.43	-0.0075	-0.0025	-0.3275	0.984777	0.595028	0.487321	0.999971	1	0.897096	
Ky1	E9Q4P0	-1.14	0.35	-0.1	1.05	0.36	-0.12	0.38	0.66	0.5	-0.03	0.65	0.24	0.04	0.08	0.01	-1.28	0.28	0.3	-0.3475	0.545393	0.514714	0.509751	0.999971	1	0.905815	
Ky1a	Q8BTY1	-0.36	0.13	0.65	0.32	0.32	0.28	-0.01	0.79	0.14	0.05	-0.02	0.27	0.26	0.27	0.09	0.57	0.11	-0.125	0.0625	0.695816	0.616983	0.898927	0.999971	1	0.973791	
Ky1a2	Q71R5-2	-0.17	-0.13	0.07	-0.16	0.04	0.73	0.03	-0.41	-0.18	0.4	0.87	1.04	1.2	0.26	0.62	0.11	0.168427	0.035646	0.045	0.783222	0.678322	0.999971	1	0.961064		
L1cam	Q6PG13	-1.05	-1.7	-1.75	-2.06	-1.46	-1.51	-1.22	-1.99	-1.06	-1	-1.29	-1.13														

Lmk2k	C37Y06	-1.29	-0.85	-0.58	-0.61	-0.85	-0.7	-0.59	-0.56	-1.04	-1.12	-0.48	-0.43	0.08	-0.86	-0.63	-0.16	0.1575	0.065	0.44	0.481321	0.806032	0.148259	0.999971	1	0.793248
Lmk3k	A043B2Wk	-0.33	-0.41	-0.45	-0.51	-0.57	-0.33	-0.26	-0.35	0.5	0.16	0.01	-0.46	0.15	-0.21	-0.29	-0.01	-0.11	0.0625	0.17	0.655445	0.819952	0.502428	0.999971	1	0.904373
Lmk3k_1	A041B003	-0.36	-0.42	-0.24	-0.01	-0.25	-0.23	0.36	-0.04	-0.52	-0.12	-0.47	0.37	0.01	-0.09	-0.33	-0.2	0.1275	0.1475	0.105	0.320351	0.412533	0.79296	0.999971	1	0.870465
Lmk3k_2	Q8C129	-0.14	-0.21	0.23	0.33	0.07	-0.05	0.02	0.51	-0.29	0.12	0.32	0.24	-0.26	-0.09	0.39	0.73	0.05	0.045	0.14	0.827806	0.842427	0.618444	0.999971	1	0.919202
Lmkp	Q77Q95	0.01	0.15	-0.54	-0.22	0.13	0.6	-0.6	-0.23	0.14	0.42	-0.18	-0.21	0.63	0.52	0.19	0.23	0.125	0.1925	0.4475	0.682442	0.433724	0.113739	0.999971	1	0.782628
Lmkp1	Q8CGK3	-0.35	-0.84	-0.75	-0.73	-0.9	-1.19	-0.69	-1.06	-0.62	-0.92	-0.84	-0.66	-1.29	-1.48	-1.23	0.81	-0.2925	-0.0925	-0.535	0.180351	0.6303	0.063773	0.999971	1	0.700096
Lmkp2	Q8N985	-0.58	-0.62	-1.11	-0.96	-0.69	-0.32	-1.19	-0.51	-0.93	0.16	-0.8	-0.53	-1.02	-0.16	-1.09	-0.5	1.14	0.2925	0.115	0.584091	0.323193	0.150707	0.999971	1	0.933842
Lmk2f	F62E64	1.74	2.41	2.27	2.66	1.53	1.75	4.36	2.48	2.2	1.16	1.92	0.16	1.16	2.17	2.21	1.52	0.26	-0.91	-0.505	0.672299	0.077972	0.144871	0.999971	1	0.79148
Lpcat1	P61793-2	2.27	0.75	0.98	0.82	0	0.566	0.6	1.19	0.71	1.72	0.31	0.36	0.26	0.18	0.13	0.65	-0.6175	-0.43	-0.675	0.15926	0.359193	0.129568	0.999971	1	0.782628
Lpcat1	C37F02	0.08	0.82	0.29	0.13	0.45	0.42	0.32	0.45	0.01	0.27	0.62	0.6	1.6	0.43	0.62	0.39	0.145	0.21	0.495	0.548763	0.405594	0.17604	0.999971	1	0.808532
Lpcat2	Q8BY61	0.75	-1.95	-0.13	0.32	0.3	0.35	0.04	0.37	0.07	0.41	-0.02	0.22	-0.1	-0.07	0.81	0.59	0.375	0.3225	0.53	0.506987	0.571218	0.376406	0.999971	1	0.870465
Lpcat3	Q8BYU01	0.08	0.4	-0.01	-0.8	-0.19	0.27	-0.2	0.18	-0.01	0.37	0.32	0.27	-0.09	0.57	0.23	0.0975	0.3075	0.3175	0.740828	0.292327	0.302188	0.9599971	1	0.847402	
Lpcat4	Q6NVG1	-0.83	0.02	-1.14	-0.94	0.37	-0.16	-0.82	-0.83	0.17	-0.71	-0.57	-0.44	0.54	-0.4	-0.89	0.53	0.3625	0.335	0.4025	0.345563	0.313799	0.310314	0.999971	1	0.847402
Lpcat5	E9Q080	-0.98	-1.03	-0.65	-0.56	-0.78	-0.6	-0.05	-0.6	-0.14	-1.22	-0.39	-0.28	-0.44	-1.28	-0.53	-0.24	0.2975	0.2975	0.1825	0.223559	0.308827	0.511379	0.999971	1	0.905815
lpm1	A041Y7VU1	1.69	0.7	-0.3	0.35	0.75	0.12	0.5	1.2	-0.03	1.37	0.03	-0.17	0.67	0.75	-0.3	-0.38	0.0325	-0.31	0.425	0.19417	0.548076	0.387406	0.999971	1	0.871816
lpm2	E9YVW0	-0.2	1.24	0.09	0.12	0.52	0.65	-0.12	-0.03	1.49	0.25	0.07	-0.04	0.62	0.89	-0.04	0.73	0.1725	0.13	0.7375	0.714492	0.722861	0.32401	0.999971	1	0.831121
Lrat1	Q8BFW7	0.54	-0.12	-0.14	0.06	0.232	0.09	-0.52	0.06	0.24	1.54	0.47	1.85	-0.26	-0.1	0.17	0.2	0.4025	0.94	-0.0825	0.50116	0.043786	0.72216	0.999971	1	0.955528
Lratd1	A00AKR4U1	-0.3	2.6	2.67	0.01	0.24	2.58	5.83	1.72	4.4	0.02	5.27	7.12	6.1	1.13	3.48	3.57	2.3475	2.9575	2.325	0.505472	0.037777	0.070442	0.999971	1	0.735439
Lratd2	D3YX5	0.46	0.61	-1.17	0.7	0.26	0.15	-0.98	-0.05	-0.75	-0.99	-0.82	-0.5	0.18	0.12	-0.45	-0.82	-0.255	-0.07	-0.0425	0.608728	0.900832	0.932753	0.999971	1	0.95417
Lrba	E9Q3V4	0.34	0.55	0.69	0.74	0.38	-0.01	0.53	0.47	0.37	0.42	0.28	0.53	-0.02	0.39	0.52	0.58	-0.2375	-0.18	-0.2125	0.263449	0.326249	0.33095	0.999971	1	0.857107
Lrch1	P62046	-0.12	-0.26	-0.25	-0.15	0.18	0.06	-0.93	-0.34	0.11	-0.21	-0.46	-0.26	0.01	0.37	-0.45	-0.23	-0.1925	-0.14	0.24	0.507849	0.509578	0.490307	0.999971	1	0.898612
Lrch2	F6VQ19	-0.7	-0.69	0.24	0.17	-0.87	-0.69	-0.3	0.3	-0.67	-0.57	0.16	0.45	-0.27	-0.15	0.51	0.43	-0.145	0.0875	0.375	0.687192	0.812222	0.271105	0.999971	1	0.843794
Lrch3	B2KXP1	0.18	0.51	-0.28	0.87	0.05	-0.07	-0.19	-0.4	-0.01	-0.21	0.8	1.19	0.19	0.12	0.58	0.99	-0.475	-0.1225	0.15	0.117129	0.757328	0.640802	0.999971	1	0.93301
Lrft1	Q2WYF1	-1.09	0.13	-0.96	-0.76	0.46	-0.54	-0.95	-0.77	0.58	-0.74	-0.88	-0.85	1.24	-0.88	-0.85	-0.48	0.22	0.1975	0.4278	0.585117	0.643816	0.42804	0.999971	1	0.880793
Lrft2	Q8B7Y3	-0.84	-0.93	-1.52	-1.12	-1.06	-1.22	-1.19	-0.7	-1.24	-1.06	-1.47	-1.23	-1.02	-1.29	-1.17	-0.19	0.06	-0.1425	0.215	0.72467	0.500134	0.399288	0.999971	1	0.871816
Lrft3	Q8B7Y3	-1.33	-1.32	-1.09	-1.12	-1.11	-1.29	-0.87	-1.08	-0.96	-1.37	-1.04	-1.03	-0.89	-1.27	-0.94	-1.07	0.1275	0.115	0.1725	0.491418	0.531595	0.358359	0.999971	1	0.869102
Lrft4	Q8BXU8	-0.29	-0.94	-0.91	-0.51	-1.19	-0.89	-0.99	-0.59	-1.29	-0.5	-1.1	-1.26	-0.7	-1.01	-0.67	-0.3	-0.2525	-0.375	-0.0075	0.301246	0.17858	0.975627	0.999971	1	0.99925
Lrft5	Q8BXU8	-1.25	-1.23	-1.66	-1.54	-1.05	-1.31	-1.17	-1.15	-0.81	-1.09	-1.37	-1.3	-0.76	-1.33	-1.87	-1.17	0.1625	0.2775	0.1375	0.428992	0.179236	0.616378	0.999971	1	0.928229
Lrft6	G5E8H8	-0.32	0.38	0.04	-0.28	0.05	-0.15	-1.2	-0.55	-0.71	-0.09	-0.33	-0.45	-0.16	-0.67	-0.41	-0.4125	-0.3375	0.2475	0.282296	0.633054	0.387876	0.999971	1	0.905815	
Lrft7	P70193	0.37	-0.79	-0.8	-0.78	-1.2	-0.97	-1.13	-0.85	-0.78	-0.31	-1	-1.12	-0.06	-0.45	-0.67	-0.9	-0.5375	-0.31	-0.27	0.107048	0.366981	0.411057	0.999971	1	0.875847
Lrft1	A00AKR4U1	-0.46	-0.31	-0.19	-0.34	-0.14	-0.18	0.05	-0.2	0.06	-0.31	-0.16	0	0.33	-0.27	-0.09	-0.14	0.2075	0.2225	0.2825	0.246245	0.228245	0.182749	0.999971	1	0.808532
Lrft11	Q8CB67	0.27	0.57	1.22	1.41	0.51	0.87	1.09	1.32	1.21	0.59	1.24	1.56	0.97	1.23	1.08	1.26	0.08	0.2825	0.0675	0.803265	0.041374	0.367623	0.999971	1	0.869526
Lrft1b	A2K4P5	-0.04	-0.3	-0.71	-0.72	-0.4	0.22	-0.17	-0.56	0.2	0.12	-0.36	-0.47	-0.38	-0.13	-0.28	-0.32	0.105	0.215	0.18	0.64665	0.381852	0.194129	0.999971	1	0.921007
Lrft1b	Q8C70	0.62	0.78	0.22	0.28	0.15	-0.06	-0.12	0.29	0.75	0.4	1.1	0.94	0.21	0.75	0.4	1.1	0.94	0.21	0.195	0.250288	0.658472	0.19525	0.999971	1	0.918194
Lrft6	Q8V5E2	1.04	-0.89	-0.71	-0.6	-0.85	-0.46	-0.27	-0.84	-1.14	0.43	-0.73	-1.1	-1.28	-1.13	-0.92	-0.92	-0.315	-0.345	-0.7725	0.482702	0.524595	0.100942	0.999971	1	0.782628
Lrft8	B1K4X4	0.57	0.01	-0.53	-0.22	-0.28	-0.11	-0.31	-0.41	-0.08	0.57	-0.37	-0.48	-0.38	-0.16	-0.52	-0.21	-0.0925	-0.0475	-0.275	0.750111	0.885493	0.319006	0.999971	1	0.853893
Lrftp1	P53202	-0.55	-1.13	-1.06	-0.87	-0.92	-1.08	-0.57	-0.68	-0.58	-0.6	-0.72	-0.86	-0.67	-0.67	-0.72	-1.09	0.1	0.1215	0.11	0.651483	0.302067	0.596373	0.999971	1	0.905815
Lrftpr	Q6P866	-0.7	-0.44	-0.13	-0.14	-0.52	-0.51	-0.12	-0.07	-0.22	-0.93	-0.09	0.14	0.09	-0.35	0.17	0.34	0.0825	0.0775							

Mag3	G5E8T6	-0.34	-0.43	-1.05	-1.11	-0.35	-0.38	-0.89	-0.83	-0.35	-0.45	-0.84	-0.79	0.05	-0.68	-1.19	-1.36	0.12	0.125	-0.0625	0.655853	0.630473	0.864427	0.999971	1	0.983079
Magph	P61327	-0.26	1.29	1.55	0.58	1.02	1.29	1.93	0.98	1.39	0.11	1.98	1.49	1.2	1.1	1.23	0.96	0.515	0.4525	0.3325	0.255629	0.40136	0.406864	0.999971	1	0.875014
Mag1	A2ADH1	-0.36	0.45	0.66	1.5	0.54	0.5	0.56	-1.27	0.84	0.56	-0.36	0.71	1.02	1.14	1.58	0.2775	1.05	0.2725	0.237803	0.05289	0.056522	0.999971	1	0.947174	
Mag1b	B8H387	-1.31	-0.57	0.27	0.25	-0.42	-0.16	0.24	0.34	-0.17	-1.06	-0.02	0.3	0.03	-0.47	0.62	0.37	0.34	0.1025	0.4775	0.404112	0.818967	0.278768	0.999971	1	0.843794
Mag1c	Q8B08	-0.71	-0.69	-1	-0.71	-0.49	-0.42	-1.11	-0.52	-0.86	-0.35	-0.89	-0.77	-0.59	-0.23	-0.8	-0.36	0.1425	0.06	0.2825	0.522297	0.764023	0.188224	0.999971	1	0.809025
Malu1	Q9CWC0	-0.36	-2.01	-0.71	-0.86	-1.21	-1.18	-1.33	-0.32	-0.76	-1.18	-1.54	-1.33	0.4	0.15	-0.84	0.14	0.225	-0.3725	0.875	0.608689	0.367107	0.064233	0.999971	1	0.726597
Man1a	P43700	1.02	1.16	1.15	1.36	1.15	0.96	1.1	1.34	1.29	0.88	1.13	1.28	0.5	1.33	1.46	1.15	0.4745	0.005	0.025	0.788701	0.846483	0.21848	0.999971	1	0.933049
Man1a2	P39098-2	-0.49	1.07	1.12	0.95	1.04	1.1	0.91	1.2	1.17	0.15	1.26	1.94	1.15	0.99	1.59	1.67	0.4	0.3925	0.6875	0.350003	0.473788	0.114675	0.999971	1	0.78268
Man1b1	A2A15	0.62	0.88	0.56	0.85	0.68	0.98	-0.21	1.03	0.91	1.38	0.64	1.04	0.84	1.25	0.69	0.9	-0.1075	0.265	0.1925	0.725326	0.240809	0.352477	0.999971	1	0.867768
Man1a21	P27406	1.26	-0.27	1.91	-0.52	0.49	0.6	-1.39	-1.02	0.27	0.7	-3.82	-4.15	-0.59	0.43	-1.96	-1.44	0.03	-1.39	-0.53	0.967833	0.300182	0.487439	0.999971	1	0.897906
Man1a22	Q8B809	0.71	1.03	0.95	0.1	0.54	0.5	0.4	1.19	0.48	0.98	1.18	1.1	0.8	0.08	0.60	0.60	0.60	0.60	0.1825	0.978005	0.761743	0.123812	0.999971	1	0.916548
Man1a23	Q90159	0.25	-0.03	-0.16	-0.12	-0.01	-0.2	-0.02	1.1	0.07	0.13	0.3	0.17	0.68	0.13	0.45	0.28	0.2335	0.1885	0.3465	0.467584	0.096784	0.999971	1	0.78268	
Man2b2	054782	1.07	0.39	-0.06	0.22	0.97	0.68	-0.22	0.57	0.96	0.93	-0.52	-0.44	0.82	1.03	0.16	0.39	0.095	-0.1725	0.115	0.783325	0.702223	0.743583	0.999971	1	0.961064
Man2c1	F8W1E1	1.08	0.44	0.61	0.58	0.25	0.16	0.37	0.08	-0.19	0.38	0.21	0.11	-0.31	0.2	0.29	0.47	-0.4625	-0.55	-0.515	0.048119	0.033549	0.063043	0.999971	1	0.725348
Manba	A04A0405	0.08	0.57	0.85	0.91	-0.02	0.66	0.67	1.05	0.27	0.03	0.41	0.14	-0.37	0.63	0.64	0.27	-0.1215	-0.39	-0.31	0.966786	0.177932	0.138007	0.999971	1	0.857107
Manbal	A2SG07	2.38	0.53	0.34	0.58	0.64	0.18	2.09	0.34	1.49	2.28	1.12	0.95	1.01	0.27	1.17	-0.145	0.5025	-0.6375	0.800165	0.348138	0.22556	0.999971	1	0.828025	
Manba	Q6XN12	-0.02	4.03	0.6	0.17	3.86	2.27	1.91	0.35	4.12	1.56	0.74	0.8	2.43	1.55	-0.29	0.54	0.2775	0.61	-0.4075	0.53068	0.58895	0.703273	0.999971	1	0.949575
Manf	Q6P10	2.61	1.32	0.49	0.83	1.01	1.53	1.1	1.04	1.16	3.06	0.74	0.61	-0.82	1.17	0.51	1	-0.1425	0.08	-0.8475	0.752464	0.904829	0.177152	0.999971	1	0.808532
Manf	Q8D298	-1.59	0.06	0.19	0.2	-0.01	0.03	0.27	0.27	0.33	-0.49	0.49	0.87	0.4	0.31	0.57	0.48	0.425	0.585	0.725	0.32846	0.25021	0.110465	0.999971	1	0.78268
Mano	Q6A113	-0.59	-0.09	-0.23	-0.57	-0.19	-0.17	-0.17	-0.04	0.48	-0.32	0.16	0.29	0.64	-0.18	-0.1	-0.26	0.345	0.5225	0.395	0.133425	0.054046	0.160839	0.999971	1	0.800215
Mano	Q8BW75	-0.64	-0.69	-0.63	-0.42	-0.36	-0.36	-0.64	0	-0.61	-0.7	-0.72	-0.97	-0.61	-0.61	-0.52	-0.43	0.255	-0.155	0.0525	0.226436	0.38741	0.758276	0.999971	1	0.961116
Manb	A2ARP8	0.78	0.98	1.24	1.17	0.85	1.04	1.59	0.95	0.93	0.64	1.22	1.18	0.59	0.62	0.92	0.52	0.065	-0.05	-0.28	0.779665	0.814969	0.182618	0.999971	1	0.808532
Mag1b	P14873	0.44	0.28	0.23	0.09	0.06	0.42	0.47	-0.08	0.27	0.57	0.08	0.32	0.1	0.29	0.15	0.09	-0.0425	0.05	-0.1025	0.838816	0.790367	0.560829	0.999971	1	0.91591
Mag1a3a	Q31VU7	-0.78	-0.23	-0.12	0.27	-0.21	0.24	-0.11	0	0.1	-0.09	-0.56	0.15	-0.53	0.35	-0.08	0.7	0.195	0.005	0.325	0.461533	0.815036	0.532565	0.999971	1	0.868675
Mag1b3c	Q9CVC6	1.71	1.01	0.46	0.69	-0.04	0.02	-0.01	0.39	0.27	0.77	0.25	0.66	0.47	0.6	0.48	0.76	-0.8775	-0.48	-0.39	0.015703	0.145783	0.204665	0.999971	1	0.81617
Mag1s	Q8C502	1.16	0.39	0.41	0.39	0.43	0.35	0.84	0.43	0.74	0.76	0.3	-0.13	0.2	-0.07	0.26	0.25	-0.075	-0.17	-0.4275	0.763744	0.566938	0.102084	0.999971	1	0.78268
Mag1c	G3UJ22	0.31	2.33	1.02	0.72	1.69	1.83	0.53	1.12	1.46	0.68	1.01	1.41	1.53	2.2	1.15	1.78	0.1975	0.045	0.57	0.688389	0.919739	0.235008	0.999971	1	0.832918
Mag2.1	A04A68K1	0.07	1.08	1.2	1.11	1.07	1.32	1.43	1.08	0.99	0.51	1.19	1.44	1.01	1.18	1.26	1.48	0.2025	0.01	0.1	0.326552	0.608263	0.137911	0.999971	1	0.853893
Mag2.1	P19398	-0.48	-0.85	-1.62	-0.18	-0.52	-0.18	-0.52	-0.12	-0.97	-0.78	-1.08	-1.12	-0.46	-0.11	-0.42	-0.25	-0.0375	-0.897393	-0.429332	0.888206	0.999971	1	0.853893		
Mag2k2	Q9YK57	0.02	0.13	0.4	0	1.08	-0.29	0.32	0.01	2.3	-0.19	0.29	0.39	1.8	-0.44	0.29	-0.01	0.1425	0.56	0.2725	0.650931	0.295577	0.561141	0.999971	1	0.91591
Mag2k3	Q9P10	-1.21	-2.9	-1.88	-0.86	-3.31	-3.22	-1.47	-1.05	-1.49	-1.78	-0.57	-0.61	-3.12	-3.11	-1.33	-0.91	-0.55	0.6	-0.405	0.419785	0.255651	0.548214	0.999971	1	0.911727
Mag2k4	P47809	0.43	0.28	0.36	0.36	0.46	0.58	0.84	-0.04	0.64	0.14	0.09	0.05	-0.51	0.43	0.12	0.21	0.1025	-0.1275	-0.145	0.63322	0.527744	0.505857	0.999971	1	0.905277
Mag2k5	Q9VU57	-0.07	0.52	0.34	0.58	0.64	0.18	2.09	0.34	1.49	2.28	1.12	0.95	1.01	0.27	1.17	-0.145	0.5025	-0.6375	0.800165	0.348138	0.22556	0.999971	1	0.828025	
Mag2k6	P70236	-0.89	0.46	1.06	0.68	0.18	0.44	1.31	0.9	0.55	-0.42	1.4	1.24	0.41	0.31	0.83	0.96	0.38	0.365	0.3	0.41893	0.510911	0.490499	0.999971	1	0.898612
Mag2k7	Q8CE90-2	-0.44	-0.44	0.19	0.12	0.05	-0.88	0.05	-0.31	0.07	-0.79	-0.01	-0.02	-0.67	-0.1	0.45	-0.13	-0.3375	0.0575	0.656427	0.893761	0.84667	0.999971	1	0.980253	
Mag2k10	D3YXK8	0.07	0.17	-0.13	0.08	-0.17	-0.1	-0.36	0.11	-0.01	0.31	0	-0.6	0.23	-0.01	0.06	0.06	-0.1775	-0.1225	0.0075	0.35461	0.602876	0.965979	0.999971	1	0.998721
Mag2k11	Q8D06	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	0.999971	1	0.998721
Mag2k12	Q60700	1.41	-0.53	-0.36	-0.72	-0.93	0.15	-0.25	-0.8	0.09	1.89	-0.47	-0.38	0.02	-1.68	-0.35	-0.62	-0.4075	-0.3325	-0.8675	0.433567	0.623537	0.127111	0.999971	1	0.783755
Mag2k13	Q1H2K5	-0.49	-1.34	-1.19	-1.2	-2.9	-2.89	-0.4	-0.7	-1.63	-1.36	-1.11	-1.77	-1.51	-1.77	-1.61	-0.97	-0.925	-0.4175	-0.41	0.132321	0.13877	0.162886	0.999971	1	0.800215
Mag2k3	G5E8L8	0.52	0.1	1.3	1.22	1.19	0.99	1.35	2.12	1.61	0.66	1.41	0.62	-0.18	-0.09	0.87	0.82	0.6525	0.29	-0.41	0.098505	0.445166	0.286395	0.999971	1	0.846095
Mag2k10	Q9S54-2	0.81	1.53	-0.02	0.75	1.43	1.56	-0.8	-0.17	0.03	0.07	-0.42	-0.05	1.76	1.32	0.63	-0.41	-0.625	-0.68	0.0875	0.667383	0.028508	0.912882	0.999971	1	0.995818
Mag2k4	Q8B648	-0.16	0.21	0.33	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.999971	1	0.995818
Mag2k5	EP9W69	-0.8	-0.06	0.15	-0.1	-0.35	-0.22	-0.09	-0.52	-0.61	-0.2	0.11	-0.22	-0.22	-0.04	-0.36	0.14	-0.0925	-0.0275	0.0825	0.715258	0.919165	0.75012	0.999971	1	0.961064
Mag2k7	Q62073	0.68	-1.3	-0.5	-0.02	-1.56	-0.76	-0.46	-0.14	-1.56	-0.13	-0.21	-0.38	-1.24	-1.48	-0.37	-0.05	-0.445	-0.285	-0.5	0.366002	0.570402	0.331783	0.999971	1	0.857152
Mag2k9	A0A11YV0	-2.17	-0.8	-0.48	-0.68	-1.17	-0.85	-0.95	-0.36	-1.19	-1.64	-0.3	-0.62	-0.27	-1.07	-0.43	0.22	0.2	0.095	0.645	0.621298	0.835888	0.16912	0.999971	1	0.80174
Mag4	E9Y43	1.24	1.59	2.1	1.16	1.66	2.4	1.6	1.29	1.56	1.4	0.96	1.22	0.6	0.48	0.49	0.4	0.4	0.4	-0.1125	0.938471	0.631638	0.78427	0.999971	1	0.944347
Mag4.1	P27546-2	1.24	0.61	0.9	0.89	0.51	0.9	1	0.93	0.77	0.79	0.73	0.77	0.55	0.67	0.72	0.81	-0.075	-0.145	-0.2225	0.728289	0.45471	0.282503</			

Mdh2	P08249	0.41	0.66	0.22	0.2	0.37	0.85	-0.21	0.29	0.08	0.64	0.09	-0.52	0.59	0.77	0.11	0.29	-0.0475	-0.3	0.0675	0.857092	0.293166	0.764308	0.999971	1	0.962405	
Mdk	P12025	2.76	2.35	1.52	1.64	1.21	2.42	1.92	3.45	1.29	2.27	1.63	2.03	1.53	1.46	2.27	0.75	0.4325	-0.0125	-0.315	0.418264	0.973356	0.463922	0.999971	1	0.890905	
Mdm1	E92081	1.71	1.89	1.36	1.49	0.19	0.36	0.95	1.8	1.57	1.89	1.28	1.55	1.13	1.17	1.41	0.45375	-0.325	-0.19	0.188796	0.547728	0.556569	0.999971	1	0.914901		
Mdm4	AA0807W	2.09	0.23	0.59	1.05	0.14	1.01	1.03	1.01	0.18	1.57	0.03	-0.5	0.81	1.3	0.14	0.87	-0.9295	-0.7	-0.31	0.605195	0.178915	0.475076	0.999971	1	0.894044	
Mdn1	J30CMCS	2.37	0.64	1.22	1.29	0.69	0.54	0.24	1.1	0.31	0.88	0.91	1.27	0.11	0.18	1.36	0.86	-0.7375	-0.5375	-0.755	0.088388	0.197787	0.113491	0.999971	1	0.78268	
Mdp1	Q90987	0.27	-0.03	-0.16	-0.06	0.03	-0.07	2.52	-0.52	-0.26	-0.23	-0.6	-0.37	-0.67	-0.05	-0.46	0.41	0.485	-0.37	-0.4025	0.449551	0.077683	0.062846	0.999971	1	0.755254	
Me1	P08001	0.27	-0.36	0.2	0.03	-0.37	-0.34	0.09	-0.23	0.5	-0.35	0.13	0.35	-0.67	-0.39	0.07	0.2	-0.0125	-0.1075	0.0275	0.958426	0.70349	0.21266	0.999971	1	0.939369	
Me2	O99K61	-0.01	-0.23	-0.27	-0.3	-0.7	-0.92	-0.74	-0.3	-0.6	-0.47	-0.78	-0.49	-0.36	-0.44	-0.69	-0.4625	-0.3825	-0.2925	0.045201	0.053206	0.128545	0.999971	1	0.784699		
Me3	O88MF3	0.18	0.11	0.09	0.23	-0.26	-0.63	-0.04	-0.19	-0.44	-0.43	-0.51	-0.36	-0.84	-0.63	-0.57	-0.49	-0.4325	-0.5875	-0.785	0.048911	0.001439	0.999971	1	0.437254		
Mea1	O64327	-1.64	-3.18	0.2	-1.19	-3.21	-2.42	0.46	0.07	-2.53	-2.35	0.84	1.05	0.72	-1.87	0.64	0.22	0.1775	0.705	0.27	0.861792	0.518482	0.80506	0.999971	1	0.971701	
Mea6	V92X42	-0.05	0.03	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	0.295	0.932097	0.453295	0.43418	0.999971	1	0.890905	
Meak7	Q80K93	-0.08	-0.92	-1.24	-0.43	-0.76	-0.91	-0.85	-0.43	-0.54	-0.4	-0.56	-0.3	-0.38	-1.11	-1.01	-0.2025	-0.0895	-0.165	0.383337	0.750899	0.808517	0.999971	1	0.943018		
Meq2	P92D26-2	-0.6	-1.36	-0.04	-0.08	-1.08	-1.3	-0.23	-0.38	-1.24	-0.84	-0.75	-0.6	-1.56	-0.96	-0.23	-0.45	-0.2275	-0.3775	-0.28	0.561317	0.268878	0.408112	0.999971	1	0.902911	
Meer	Q90CS3	-0.47	-0.15	0.01	-0.01	-0.14	-0.24	-0.51	-0.49	0.01	0.5	-0.38	-0.16	-0.05	-0.24	-0.59	-0.31	-0.14	-0.1225	-0.3575	-0.135	0.562954	0.661228	0.504872	0.999971	1	0.905277
Med1	Q9259	3.48	1.38	1.74	1.19	2.09	2.16	1.6	1.13	2.1	1.71	1.17	1.3	1.36	1.24	0.71	1.36	-0.2075	-0.1275	-0.78	0.697622	0.827475	0.149706	0.999971	1	0.793248	
Med12	A2JAGH8	3.11	1.53	1.7	2.76	1.67	1.6	2.5	2.02	1.35	1.38	1.54	2.29	1.62	1.65	1.13	-0.2375	-0.35	-1.21	0.368868	0.48438	0.020818	0.999971	1	0.635022		
Med13	AA00XUYU	0.6	-3.25	1.89	1.8	1.15	-1.13	-0.41	0.3	0.5	1.2	-0.03	1.97	-0.78	-0.13	-0.15	0.95	-0.2825	-0.6	-0.2875	0.807295	0.575249	0.797592	0.999971	1	0.970479	
Med14	A2ABV5	0.43	3.24	-1.06	0	1.59	1.69	-1.16	2.02	1.56	1.35	0.74	0.76	2.43	0.11	1.74	-0.13	0.3825	0.45	0.61	0.716224	0.599279	0.528278	0.999971	1	0.905812	
Med15	AA0338P7	1.36	0.73	1.69	0.87	-0.2	0.72	1.09	2.4	-0.15	0.85	2.04	1.45	-0.41	0.12	1.3	1.45	0.205	0.25	-0.1825	0.760609	0.70151	0.755516	0.999971	1	0.96393	
Med16	E92984	1.41	4.57	1.96	1.99	4.23	4.05	1.13	1.43	4.54	0.58	1.9	1.71	6.06	3.94	1.9	2.45	0.2275	0.2	1.1175	0.0151	0.832872	0.298366	0.999971	1	0.847402	
Med17	Q9VC05	1.37	2.59	1.27	2.03	2.02	1.73	1.27	1.72	1.77	2.26	1.76	1.68	1.57	2.55	1.57	1.91	-0.13	0.0525	0.085	0.704236	0.874996	0.820353	0.999971	1	0.975761	
Med18	Q8C150	-1.43	1.22	-0.21	1.44	1.97	1.64	0.8	0.33	1.25	0.99	0.06	0.79	1.7	1.18	0.42	0.78	0.93	0.5175	0.765	0.203731	0.438047	0.26385	0.999971	1	0.842533	
Med22	A2AL4A	2.75	0.88	0.85	0.27	0.9	1.34	0.23	0.7	0.76	2.45	-0.05	0.1	0.51	1.53	0.7	0.04	-0.395	-0.3725	-0.4925	0.471111	0.605265	0.398997	0.999971	1	0.871816	
Med23	FW8W80	-0.52	1.1	2.02	1.57	1.51	-0.71	1.51	1.72	2	-1.87	2.25	1.91	1.72	-0.43	1.85	1.65	-0.035	0.03	-0.55	0.961196	0.976381	0.82552	0.999971	1	0.976715	
Med24	AP6W47	1.55	2.28	0.53	-1.33	1.88	2.51	0.58	0.01	2.18	2.45	0.91	1.31	2.34	2.34	0.63	0.04	0.4875	0.955	0.58	0.578647	0.242014	0.532904	0.999971	1	0.910609	
Med28	O92003	2.62	4.73	1.55	1.99	4.75	4.91	0.86	1.7	4.81	4.41	0.73	0.25	7.97	4.83	1.32	1.65	0.3325	-0.1725	1.22	0.76643	0.889573	0.430319	0.999971	1	0.881611	
Med29	O92091	0.35	1.61	-0.12	0.78	2.12	2.34	-0.84	0.64	1.77	1.32	0.42	0.78	0.45	2.17	0.67	1.3	0.41	0.1745	1.3925	0.584525	0.361926	0.087904	0.999971	1	0.765196	
Med30	Q9C09	1.01	1.38	0.95	1.47	0.62	1.76	0.28	1.22	0.01	2.42	0.65	0.61	0.5	2.87	1.16	1.19	-0.2425	-0.28	0.1775	0.538844	0.578707	0.789523	0.999971	1	0.96741	
Med4	Q9C0A5-2	1.26	1.56	0.73	0.93	1.41	1.02	0.44	0.85	1.32	1.71	1.02	0.67	0.57	1.62	0.44	1.14	-0.0675	-0.1725	0.518515	0.818014	0.600167	0.999971	1	0.924246		
Med6	Q921D4	2.1	2.53	2.74	2.96	2.04	2	1.5	2.05	1.91	1.61	2.5	3.17	2.32	2.13	2.72	3.12	-0.685	-0.285	-0.01	0.022614	0.458486	0.973089	0.999971	1	0.99925	
Med8	A2ARC6	1.6	-0.12	1.23	-0.27	-0.67	0.48	1.57	1.96	-2.27	-0.19	2.25	1.79	-1.8	-1.48	0.96	2.61	-0.585	-1.025	-1.3425	0.46088	0.359392	0.240579	0.999971	1	0.834089	
Med9	Q9HVC6	-1.62	0.67	0.03	-2.3	0.74	-0.95	0.41	-1.37	0.34	-1.85	0.03	0.45	0.21	-1.3	-1.13	0.21	0.5125	-0.5475	-0.3025	0.514105	0.498682	0.605931	0.999971	1	0.947174	
Med12c	Q8C1V5	2.82	2.32	1.26	1.7	2.76	2.67	2.56	1.98	1.74	2.19	2.05	1.29	2.05	1.29	1.73	1.4	-0.1725	-0.075	-0.6075	0.088388	0.851376	0.425212	0.999971	1	0.701725	
Med12d	E90KT0	3.34	2.54	3.82	4.09	1.73	2.23	3.4	3.31	1.67	3.08	3.02	2.84	0.98	2	3.29	1.54	-0.78	-0.795	-0.995	0.141173	0.103824	0.138178	0.999971	1	0.784948	
Meq10	AA0410T8	1.93	1.25	3.39	1.02	0.62	1.34	0.85	1.35	1.22	1.5	0.12	0.27	0.15	0.79	0.13	0.22	-0.1075	-0.37	-0.6	0.744447	0.412009	0.137406	0.999971	1	0.784948	
Meq16	B18AH4	0.58	0.05	0.89	1.77	0.52	0.72	0.92	-0.36	0.7	1.97	1.14	0.13	-0.07	0.96	-1.83	2.05	0.0725	0.6075	-1.125	0.898979	0.341192	0.192856	0.999971	1	0.810547	
Meq18	P60B82	0.45	0.15	0	0.37	0.01	0.13	0.44	0.54	0.58	1.8	0.04	0.18	0.24	0.19	0.1	0.1	-0.1075	-0.075	-0.28	0.501670	0.8009	0.190399	0.999971	1	0.847402	
Meq19	O88H27	-1.12	-1.58	-0.37	-0.8	-1.78	-1.35	0.76	-0.91	-1.68	-1.3	-0.06	-0.28	-1.35	-2.02	-0.91	-1	-0.1475	0.1375	-0.3525	0.7502184	0.756115	0.319153	0.999971	1	0.857152	
Meis2	Q31YH4	1.86	2.42	0.72	1.72	1.77	1.37	0.54	1.2	1.95	2.74	0.29	0.83	1.47	1.61	1.08	0.67	-0.46	-0.2275	-0.4725	0.284896	0.706123	0.252085	0.999971	1	0.839012	
Meio1	Q91YH6	-1.09	0.15	-0.32	-0.61	0	0.31	-0.33	-0.28	0.05	-0.83	-0.17	-0.12	0.07	0.08	-0.01	-0.08	0.3925	0.2	0.4475	0.22041	0.542146	0.135564	0.999971	1	0.784948	
Men1	FW8H09	0.14	0.36	0.8	0.54	0.34	0.88	0.35	0.81	0.27	0.62	0.44	-0.31	0.34	0.93	0.99	-0.165	-0.2	-0.0725	0.534838	0.422901	0.836377	0.999971	1	0.979416		
Mepe	Q8C349	1.85	2.89	1.49	1.54	2.33	2.02	0.8	2.65	2.2	2.39	2.1	2.29	3.1	2.77	2.41	0.09	0.0932	0.025	0.3075	0.816384	0.929269	0.099342	0.999971	1	0.882419	
Meq6	O68085	0.16	-0.32	-0.22	-0.02	-0.72	-0.58	-0.13	-0.33	0.15	-0.65	-0.29	0.12	0.43	-1.39	-0.75	-0.51	-0.34	-0.0675	-0.455	0.143137	0.783534	0.250157	0.999971	1	0.839012	
Med	O9ER67	-0.79	2.16	0.96	1.08	2.36	2.11	1.04	1.41	2.76	0.15	1.49	1.64	1.55	1.53	1.6	1.46	0.8775	0.6955	1.1825	0.182009	0.383467	0.126233	0.999971	1	0.783071	
Meid	FW9L0	-0.49	1.15	-2.17	-2.76	1.08	1.71	-1.97	-1.38	2.2	1.02	-1.76	-1.58	2.46	0.92	-2.11	-1.62	0.6825	0.7975	0.735	0.556242	0.524597	0.571503	0.999971	1	0.91816	
Metap1	Q8B4V1	1.4	1.07	1.32	1.15	1.34	1.02	0.84	1.26	1.02	0.7	1.44	1.2	1.23	1.45	0.7	0.4	-0.1875	-0.145	-0.1875	0.345700	0.506055	0.560538	0.999971	1	0.912717	
Metap1d	Q9CPW9-2	5.77	-0.58	-1.62	0.51	-0.46	0.58	-1.22	0.04	-0.29	0.73	-1.31	-1.72	-1.26	-0.83	-1.39	0.48	-1.285	-0.6675	-1.355	0.399959	0.736237</					

Morf4d2	Q9R0Q4	0.76	1.72	1.42	2.62	1.77	2.18	2.42	2.01	1.88	1.52	1.55	1.16	1.31	1.61	1.47	1.18	0.465	-0.1025	-0.2375	0.255761	0.796376	0.540399	0.999971	1	0.910077	
Morf4d	Q9PFG2	0.37	0.12	0.59	1.02	-0.24	0.33	1	0.48	-0.08	0.29	0.57	-1.48	-0.19	0.21	0.64	0.69	-0.1325	0.7	-0.1875	0.686862	0.157135	0.526739	0.999971	1	0.909459	
Mosp11	Q8VEU0	-0.02	0.37	-0.2	0.07	-0.88	0.88	-0.07	0.65	0.67	0.33	0.51	-1.44	-0.57	0.05	0.48	-0.1275	0.33	0.205	0.72868	0.10912	0.615508	0.999971	1	0.927967		
Mosp2	B1AU74	0.21	0.09	0.31	-0.1	0.1	0.36	0.48	0.02	0.33	0.76	0.7	0.75	0.37	0.34	-0.29	0.12	0.1125	0.5075	-0.0525	0.574854	0.026371	0.817869	0.999971	1	0.974929	
Mosp10	D32Z88	2.17	0.67	-0.59	-0.95	0.95	0.45	-0.75	-0.52	1.94	-1.49	-1.99	-0.36	1.16	-0.26	0.02	-0.79	-0.2925	-0.055	-0.2925	0.020883	0.95737	0.693123	0.999971	1	0.947174	
Moxd1	Q9XK3	-0.66	-1.61	0.31	0.02	-0.2	-1.1	-1.34	-0.09	0.33	-1.16	-0.91	-1.14	0.02	-1.6	-0.9	0.17	0.44	-0.065	-0.0625	0.0125	0.903721	0.896654	0.982913	0.999971	1	0.99925
Mp1	D37WV9	-0.49	-0.13	0.59	-0.51	-0.25	0.83	-0.29	0.31	-1.22	0.74	0.14	0.28	-0.47	-0.72	0.37	0.8075	0.895	0.5825	0.016867	0.251786	0.960639	0.999971	1	0.974116		
Mp2	Q9O023	-1.4	-0.28	-1.13	-1.53	-0.33	0.1	-1.06	-1.38	-0.41	-0.84	-1.55	-2	-0.58	0.18	-1.58	-1.56	0.4175	-0.165	0.2	0.330598	0.718221	0.675634	0.999971	1	0.941576	
Mp3	Q8R0J2	1.17	0.79	0.61	0.41	-0.12	0.99	-0.01	0.84	0.99	1.72	0.5	0.08	1.26	1.26	0.6	1.54	-0.26	0.0775	0.42	0.404765	0.836634	0.152518	0.999971	1	0.795578	
Mp4	D37XJ2	0.08	-0.55	-0.73	-1.08	-0.95	-0.64	-1.08	-1.47	-0.32	-0.78	-0.48	-0.37	-0.67	-0.84	0.85	-0.4775	0.0975	-0.1125	0.143656	0.732087	0.696217	0.999971	1	0.947174		
Mphosp4	Q9D1D1	0.15	1.55	0.47	-0.37	-0.88	-0.88	-0.07	0.64	1.04	0.24	0.51	0.1	0.51	0.1	0.22	0.1775	0.35	0.116	0.463751	0.08824	0.273576	0.999971	1	0.947174		
Mphosp3	Q37Y46	2.06	2.95	3.66	2.41	3.42	3.02	1.07	3.34	1.53	3.28	3.38	4.59	6.1	2.92	3.62	1.37	-0.0575	0.915	1.16	0.232174	0.063186	0.088288	0.999971	1	0.766425	
Mp1	Q924M7	-0.05	0.89	0.51	0.25	0.62	1.18	0.26	0.51	0.78	0.56	0.2	-0.09	0.76	0.75	0.28	0.54	0.2425	-0.0375	0.1825	0.41292	0.896506	0.481587	0.999971	1	0.89485	
Mp1	P70290	0.4	-1.02	-1.04	-0.73	-1.14	-1.08	-0.33	-1.05	-1.19	-0.65	-1.44	-1.11	-1.63	-1.29	-1.31	-1.66	-0.3025	-0.5	-0.875	0.430836	0.19773	0.031691	0.999971	1	0.679598	
Mp2	Q9WV34	-0.09	-1.1	-1.05	-0.93	-1.4	-0.77	-0.39	-1.47	-1.06	-0.5	-1.25	-1.46	-0.96	-1.36	-1.18	-0.215	-0.275	-0.4875	0.538703	0.395739	0.11806	0.999971	1	0.78268		
Mp3	Q8E4D0	-0.49	-0.19	-0.59	-0.69	-0.49	-0.27	-0.81	-0.78	-0.31	-0.47	-0.78	-1.09	0.06	-0.54	-0.56	-0.43	-0.0475	-0.1725	0.1225	0.841262	0.471579	0.982759	0.999971	1	0.930758	
Mp7	G5E858	-0.23	-0.05	-0.42	-2.83	-0.4	0	-1.8	-1.51	-0.34	0.24	-1.88	-1.54	0.13	-0.48	-1.39	-0.7	0.205	-0.2525	0.5225	0.765675	0.719378	0.400133	0.999971	1	0.871816	
Mp2e1	E9PE1E	-1.22	0.54	0.78	1	1.16	0.48	0.89	1.17	0.51	0.68	0.95	0.58	-1.48	1.86	0.64	1.77	0.65	0.4025	0.210661	0.411386	0.614894	0.999971	1	0.927839		
Mp2e2	Q9CJ70	0.21	1.01	0.62	0.35	1.05	0.92	0.36	0.92	1.38	0.02	0.61	1.04	0.74	0.66	0.64	0.1	0.215	0.165	-0.0625	0.403546	0.623831	0.80221	0.999971	1	0.971467	
Mp3e	Q35WZ5	-0.36	-0.56	-0.69	-0.77	-0.62	-0.42	-0.5	-0.65	-0.52	-0.42	-0.37	-0.13	-0.49	-0.79	0.59	0.0225	0.2225	0.005	0.901053	0.244223	0.65844	0.999971	1	0.934638		
Mp1e	P97434	0.74	-0.4	0.05	-0.38	-0.34	-0.55	-0.35	-0.06	-0.21	-0.24	0.67	0.16	0.14	0.17	0.09	1.19	-0.3275	0.0925	0.395	0.284463	0.784592	0.297506	0.999971	1	0.847402	
Mp1e	Q9J959	0.24	-0.18	-1.1	-1.42	-0.08	-0.49	-0.58	-0.95	-0.19	-0.38	-0.8	-0.95	0.51	-0.54	-1.2	-1.26	0.09	0.035	-0.0075	0.824977	0.931511	0.988538	0.999971	1	0.99925	
Mp17	D37WV4	-0.84	-1.14	-0.29	-0.79	-0.08	-1.05	-0.66	-0.62	-0.06	-0.89	-0.92	-0.17	0.77	-1.37	-0.8	-1.54	0.2825	0.005	-0.22	0.484894	0.98657	0.670039	0.999971	1	0.938809	
Mp17	D32M43	-0.22	3.4	2.6	1.64	2.5	3.17	1.88	2.04	3.11	0.72	2.79	2.8	3.06	3.06	3.11	3.2	0.8425	0.5	1.262	0.285297	0.565349	0.097525	0.999971	1	0.78268	
Mp17e2	Q8VXK2	-0.28	-0.45	0.84	0.73	-0.15	-0.24	0.69	1.24	0.2	0.02	0.32	0.6	0.79	0.1	0.17	1.35	-0.025	0.3925	0.702264	0.945712	0.365157	0.999971	1	0.865526		
Mp1	A0A0A6YA	-1.94	-1.68	0.14	-0.8	-1.95	-0.94	-0.04	0.47	-0.93	-0.63	1.03	0.68	-0.7	-1.52	0.5	-0.11	0.455	1.1075	0.6125	0.487021	0.100707	0.310461	0.999971	1	0.847402	
Mras	O98989	-0.95	-0.91	-0.78	-0.66	-0.94	-0.88	-1.06	-0.8	-1.25	-1.28	-0.73	-0.75	-0.88	-0.57	-0.95	-0.34	-0.095	-0.1775	0.14	0.587735	0.410544	0.508076	0.999971	1	0.905815	
Mrc1	B01830	0.54	0.98	1.32	1.94	1.79	0.28	0.96	1.12	1.13	0.66	1.47	0.78	1.32	0.87	2.36	1.8	-0.1575	-1.08	0.3925	0.703846	0.535126	0.356519	0.999971	1	0.880793	
Mrc2	A24A49	0.3	1.1	0.75	1.24	0.75	0.52	0.51	0.53	0.451738	0.1	0.45	0.18	0.48	0.18	0.48	0.1	0.451738	0.1	0.451738	0.171039	0.93179	0.999971	1	0.99925		
Mrc1	Q61216-2	2.83	2.92	1.88	2.43	2.86	3.39	1.84	1.68	2.71	3.2	1.35	1.26	1.61	2.09	1.97	1.43	-0.0725	-0.385	0.74	0.870583	0.450209	0.308074	0.999971	1	0.678474	
Mrc1	Q9CJ71	0.5	0.35	0.25	0.39	0.07	0.36	0.61	0.05	0.29	0.37	0.24	0.19	0	0.09	0.13	0.27	0.1	-0.1	-0.25	0.620359	0.54349	0.169008	0.999971	1	0.80174	
Mrm1	Q9J925	-0.23	-0.19	-1.12	-0.6	-0.5	-0.43	-1.11	-1.48	-0.45	0.07	-0.84	-0.86	-0.47	-1.12	-1.12	-0.41	-0.345	0.015	0.005	0.310222	0.961507	0.987409	0.999971	1	0.99925	
Mrm3	Q2S025	-1.96	0.1	0.21	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.5425	0.911251	0.994215	0.999971	1	0.99925		
Mroh1	E0C222	-0.32	0.55	0.22	0.55	-0.02	0.49	0.18	-0.13	0.33	-0.03	-0.03	0.77	1.05	1	0.66	0.78	1.02	0.0175	0.24	0.665	0.939835	0.454346	0.012475	0.999971	1	0.613095
Mp1	Q9N956	-0.58	-0.55	-1.97	-1.75	-0.38	-0.53	-1.4	-1.17	-0.22	-0.92	-1.74	-1.27	0.12	-0.39	-1.59	-1.35	0.2675	0.175	0.41	0.551037	0.701499	0.430826	0.999971	1	0.881611	
Mp10	Q37BW2	0.26	0.95	-1.72	-1.08	-0.88	-0.92	-1.42	-1.2	-0.71	-0.44	-1.29	-1.11	-0.43	-0.71	-1.24	-0.98	-0.2325	-0.015	0.0325	0.573761	0.972727	0.393055	0.999971	1	0.995869	
Mp1	Q9CQD0	-0.36	-0.19	-0.07	-1.58	-0.01	-0.06	-0.03	0.55	-0.53	-0.15	-0.76	-0.49	-0.76	-0.17	-0.79	0.29	0.185	0.485	0.312	0.666748	0.299373	0.65874	0.999971	1	0.99925	
Mp10	Q9D815	-1.4	-0.71	-1.29	-1.55	-0.25	-1.08	-1.35	-1.11	-1.18	-1.34	-1.16	-0.97	0.26	-1.14	-0.35	-0.98	-0.29	0.325	0.435	0.359157	0.320758	0.283086	0.999971	1	0.844538	
Mp13	Q9J01P0	-0.28	-0.16	-0.8	-0.97	-0.12	-0.52	-0.35	-0.41	-0.17	-0.34	-0.47	-0.3	0.23	-0.25	-0.71	-0.47	0.2025	0.2325	0.2525	0.416859	0.341289	0.398151	0.999971	1	0.871816	
Mp14	Q9J016	-1.15	-0.34	-0.57	-0.59	-0.52	-0.69	-0.04	-0.69	-0.72	-1.12	-0.35	0.11	-0.13	-0.71	-0.3	0.08	0.1775	0.1425	0.1725	0.494011	0.6543	0.57454	0.999971	1	0.91816	
Mp15	Q9CP85	-0.54	-0.95	-0.17	-0.5	-0.76	-1.01	-0.87	-0.23	-0.59	-0.69	-0.44	-0.62	-0.78	-0.61	-0.18	-0.23	-0.1775	-0.145	0.09	0.497284	0.535125	0.76284	0.999971	1	0.952576	
Mp16	Q9N981	-0.62	-0.82	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	0.235	0.49844	0.601719	0.54136	0.999971	1	0.83937	
Mp17	Q9A046	-0.51	-0.93	-0.98	-1.05	-0.7	-1.03	-0.82	-0.86	-0.52	-0.79	-0.87	-0.91	-0.09	-0.69	-1.04	-0.6	0.015	0.095	0.2625	0.937898	0.402838	0.32124	0.999971	1	0.855075	
Mp18	Q9J035	-0.16	-0.12	-0.05	-0.06	0.04	0.18	-0.03	0.42	0.28	0.38	0.21	-0.22	0.7	0.61	0.4	0.64	0.25	0.68	0.190609	0.202062	0.00286	0.999971	1	0.575374		
Mp19	Q9J038	-1.02	-0.77	-1.13	-0.88	-0.75	-0.93	-1.2	-0.83	-0.74	-0.85	-1.48	-0.76	-0.61	-0.37	-0.73	0.03	0.005	-0.025	0.1525	0.979671	0.914538	0.498882	0.999971	1	0.717713	
Mp19	Q9J073	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.02	0.671662	0.971835	0.52425	0.999971	1	0.99925	
Mp20	Q9CJ4	-0.81	-0.81	-1.09	-1.86	-0.07	-0.84	-1.27	-1.17	-0.33	-1.74	-0.97	-0.66	0.3	-0.94	-0.97	-1.62	0.305	0.2175	0.335	0.405979	0.568822	0.458541	0.999971	1	0.8	

Mtm1	Q92ZC5	-0.01	-0.58	-0.32	-0.26	-0.44	-0.12	-0.72	-0.66	-0.44	-0.35	-0.68	-0.5	-0.68	-0.2	-0.38	-0.26	-0.1925	-0.2	-0.0425	0.396171	0.318377	0.849089	0.999971	1	0.98178
Mtmr	F6TH99	-0.74	-2.48	-0.19	0.89	-1.39	-1.93	-0.65	0.96	-1.22	-0.44	1	0.95	2.1	-1.16	1.14	0.81	-0.1225	-0.705	1.3525	0.884759	0.93969	0.15066	0.999971	1	0.793248
Mtmr1	Q92ZC4	-0.17	-0.49	-0.98	-0.96	-0.72	-0.31	-0.75	1.36	-0.98	1.13	-0.88	-1.03	-1.15	-0.89	-1.38	-1.15	-0.22	-0.2	-0.5775	0.559193	0.561127	0.10537	0.999971	1	0.78268
Mtmr10	Q7TPM9	-0.13	0.33	-0.68	-1.02	0.01	0.79	-0.8	-0.66	0.01	0.14	-1	-0.99	-0.21	0.39	-0.88	-0.77	0.21	-0.085	0.0075	0.637275	0.836085	0.985019	0.999971	1	0.99925
Mtmr14	Q80TAE	0.61	0.34	0.3	0.4	0.2	0.54	0.19	0.11	0.03	0.25	-0.02	0.07	0.51	0.18	-0.08	-0.07	-0.1525	-0.3	-0.2775	0.425425	0.082638	0.204987	0.999971	1	0.81617
Mtmr2	Q8VE12	1.67	0.17	-0.21	0.41	0.21	1.13	0.09	-0.54	0.09	1.37	-0.38	-0.67	0.56	0.85	-0.21	-0.32	-0.2875	-0.4075	-0.29	0.546963	0.474008	0.538717	0.999971	1	0.910077
Mtmr2	Q92Z01	-0.42	-0.23	-0.26	-0.24	-0.39	-0.05	-0.79	-0.08	-0.51	-0.77	-0.64	-0.24	-1.05	-0.34	-0.25	-0.24	-0.1225	-0.235	0.095	0.580406	0.492478	0.0454	0.999971	1	0.921377
Mtmr3	BIAT05	-0.07	-0.44	0.11	-0.08	-0.44	-0.29	0.62	0.18	-0.52	-0.34	0.41	0.46	-0.52	-0.4	0.23	0.05	0.1375	0.1225	-0.04	0.627412	0.672916	0.869919	0.999971	1	0.983917
Mtmr6	Q8VE11	-0.63	-0.14	-0.13	-0.45	-0.13	-0.54	-0.18	-0.28	-0.05	-0.55	-0.07	0.49	-0.2	-0.5	-0.59	-0.21	0.055	-0.3375	-0.789954	0.238674	0.858237	0.999971	1	0.982702	
Mtmr7	Q92ZC9	-0.56	-0.01	0.08	-0.33	-0.15	-0.17	-0.12	-0.09	0.02	-0.57	0.09	0.3	0.55	-0.06	0.1	0.18	0.1925	0.105	0.3975	0.388559	0.529721	0.115604	0.999971	1	0.78268
Mtmr9	Q92Z00	-0.37	-0.17	-0.09	-0.08	-0.06	-0.72	-0.31	-0.27	0.16	-0.20	-0.19	-0.62	-0.08	-0.13	-0.11	0.18	-0.1225	-0.085	0.1175	0.402801	0.64841	0.518866	0.999971	1	0.805901
Mtmr10	P03B88	-1.08	0.2	0.32	0.2	0.17	-0.07	0.2	0.47	0	-0.17	0.13	-0.12	0.36	0.54	0.52	0.36	0.3325	-0.0225	0.0405	0.349995	0.935981	0.342569	0.999971	1	0.984774
mt-No2	P03B93	1.24	0	1.11	1.38	-1.11	0.27	3.08	0.86	-1.44	0.22	0.18	-1.1	-0.07	0.08	0.76	0.51	-0.1575	-1.4675	-0.6125	0.849867	0.015702	0.117232	0.999971	1	0.78268
mt-No3	P03899	1.43	1.11	1.44	1.16	0.89	0.84	0.71	1.01	0.57	0.89	0.22	1.07	1.17	1.03	0.85	2.06	-0.4225	-0.5975	-0.0075	0.403077	0.031287	0.979629	0.999971	1	0.99925
Mtdn4	P03911	-0.75	-0.7	-1.63	-1.19	-1.16	-0.58	-1.11	-1.11	-1.84	-1.61	-2.04	-2.03	0.9	-2	-1.64	-0.04	-0.4	-0.6725	0.521746	0.234779	0.150143	0.999971	1	0.793248	
Mtdn4	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn5	P03921	-0.33	-0.21	-0.20	-1.28	-0.56	-1.18	-0.69	-1.78	-0.37	-0.67	-2.65	-3.02	-0.77	-0.24	-2.64	-1.13	0.16	-0.715	-0.2325	0.753434	0.339166	0.704598	0.999971	1	0.950182
Mtdn1	G5E889	0.76	-0.09	-0.05	0.19	-0.81	-0.23	0.22	0.05	-0.67	0.28	-0.53	-0.33	-0.74	-0.42	-0.23	-0.11	-0.395	-0.5575	-0.212773	0.109222	0.051885	0.999971	1	0.723736	
Mtdn1	Q9UN9	0.2	-0.27	-0.37	-0.65	-0.07	-0.42	-0.21	-0.67	-0.08	-0.25	-0.35	-0.24	-0.48	-0.5	-0.52	0.51	0.03	0.1425	-0.113	0.887769	0.443288	0.476791	0.999971	1	0.894348
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.6825	0.240533	0.08877	0.68024	0.999971	1	0.807768
Mtdn1	P03903	-1.35	0.1	-0.77	-1.19	-1.08	-1.07	-0.55	-1.81	-1.35	-1.96	-0.77	0.91	1.02	-2.87	-1.7	-2.8	0.8775	1.8225	-0.682						

Ncdm	Q920E0-2	1.96	0.79	1.16	3.17	2.02	0.57	1.48	2.4	-0.68	1.5	1.03	0.13	2.14	0.13	-0.14	2.15	-0.1525	-1.275	-0.7	0.800048	0.078249	0.354979	0.999971	1	0.868793	
Ncdm-1	Q920E0	0.38	0.87	0.89	0.65	0.74	0.9	0.85	1.03	0.68	0.37	0.89	0.48	0.85	0.78	1.3	0.86	0.1825	-0.0925	0.25	0.362831	0.064289	0.263234	0.999971	1	0.842677	
Ncdm1	Q8R1U1	-1.17	-0.19	0.12	-1.05	0.1	-0.15	-0.17	-0.43	-0.25	-1.34	0.22	0.35	0.44	0.25	0.29	-0.58	0.325	0.5225	0.6275	0.212323	0.337047	0.788026	0.999971	1	0.808532	
Ncdm1	Q90914	2.12	1.13	1.77	1.85	0.76	0.97	1.5	1.58	1.19	0.67	1.34	1.7	0.49	0.24	1.47	0.89	-0.515	-0.0075	-1.19	0.11195	0.984253	0.23929	0.999971	1	0.664905	
Ncdm1	Q70145	4.55	0.99	1.47	1.19	0.63	-0.06	0.75	1.38	0.14	2.67	1.49	0.77	-0.13	0.21	0.08	1.32	-1.375	-0.7825	-1.68	0.112678	0.395768	0.663744	0.999971	1	0.725348	
Ncdm1	Q99M51	-0.87	0.09	-0.27	-0.28	0.05	0.16	-0.59	-0.16	0.27	-0.41	-0.12	-0.01	0.24	0.15	0.02	0.19	0.1975	-0.265	-0.4825	0.480373	0.329283	0.06935	0.999971	1	0.733937	
Ncdm2	Q50313	-0.12	-0.58	0.44	-0.23	-0.46	-0.79	0.43	0.45	0.88	-0.23	0.51	-0.65	-0.75	-0.6	-0.02	-0.115	-0.13	-0.0025	-0.568813	0.568234	0.961545	0.999971	1	0.999925		
Ncdm2	A2Z598	-0.84	-0.42	-0.47	-0.65	-0.6	-0.66	-0.52	-0.52	-0.42	-0.73	-0.24	-0.34	-0.39	-0.63	-0.41	-0.35	0.02	0.1625	0.15	0.911544	0.420541	0.430557	0.999971	1	0.881611	
Ncdm2	Q8K1X4	1	1.72	1.38	1.46	0.86	1.84	1.15	1.49	1.05	1.62	1.38	1.25	0.84	1.77	1.43	1.57	-0.055	-0.0065	0.0125	0.842064	0.775331	0.963003	0.999971	1	0.998721	
Ncdm2	Q6GQX2	-0.44	-0.76	-0.17	2.66	-0.46	-0.12	0.12	-0.18	-0.17	-0.79	1.77	1.7	-0.17	-0.5	0.21	3.31	0.31	-0.555	-0.88	0.547783	0.956882	0.421214	0.999971	1	0.87788	
Ncdm2	Q9E5H4	0.26	0.34	0.15	2.02	2.07	1.57	1.15	1.23	2.04	2.25	1.21	1.48	0.08	1.66	1.00	0.11	-0.24	-0.2575	-0.335	0.873702	0.118884	0.103279	0.999971	1	0.782628	
Ncdm2	P0M405	1.26	1.34	1.5	2.02	2.07	1.57	1.15	1.23	2.04	2.25	1.21	1.48	0.08	1.66	1.00	0.11	-0.24	-0.2575	-0.335	0.873702	0.118884	0.103279	0.999971	1	0.782628	
Ncdm1	Q8VCM8	-0.61	0.6	-0.09	0.04	0.73	0.41	0.04	0.43	0.92	-0.12	0.26	0.23	1.27	0.53	0.32	0.89	0.4175	0.3375	0.7675	0.182076	0.320451	0.040396	0.999971	1	0.700838	
Ncdm1	P70365-4	0.89	1.4	1.2	0.39	1.22	0.89	1.44	0.89	0.77	0.54	0.5	0.7	1.59	1.38	0.12	-0.42	0.14	-0.3425	-0.3025	0.613477	0.199798	0.546561	0.999971	1	0.911398	
Ncdm1	Q81026	4.46	2.61	3.48	3.62	3.06	3.19	4.21	3.99	2.42	3.21	2.73	3.33	2.3	2.78	2.82	0.3	0.08	-0.82	-1.485	0.853514	0.160129	0.043526	0.999971	1	0.701725	
Ncdm5	B7ZC44	1.82	-0.58	0.44	-0.23	-0.46	-0.79	0.43	0.45	0.88	-0.23	0.51	-0.65	-0.75	-0.6	-0.02	-0.115	-0.13	-0.0025	-0.568813	0.568234	0.961545	0.999971	1	0.999925		
Ncdm5_1	Q1W399	0.15	-0.68	-0.1	-0.14	-0.54	-0.59	-0.01	-0.02	-0.58	-0.28	0.05	-0.13	-0.65	-0.63	-0.25	-0.05	-0.0975	-0.0425	-0.2025	0.708444	0.863132	0.435736	0.999971	1	0.882419	
Ncdm5_1	A0A1L555	-0.3	-0.27	-0.3	-0.59	0.07	-0.16	-0.24	-0.4	-0.09	-0.25	0.06	0.06	0.06	0.06	-0.27	-0.35	-0.4	-0.1825	0.31	0.125	0.35094	0.523256	0.999971	1	0.907797	
Ncdm1	Q5RM6	1.34	1.54	1.45	1.53	1.14	1.48	1.63	1.59	1.24	1.16	1.35	0.93	0.46	0.98	0.95	0.82	-0.005	-0.185	-0.6625	0.978876	0.367047	0.00729	0.999971	1	0.582714	
Ncdm2	F8VQJ0	1.46	1.43	0.98	1.26	1.14	1.62	0.95	0.98	1.39	1.59	0.69	0.24	0.72	1.18	1.39	0.59	-0.57	-0.0275	-0.11	-0.5275	0.873119	0.664713	0.071228	0.999971	1	0.737413
Ncdm1	Q8BNV6	-0.72	-0.01	-0.39	-1.14	-0.44	0.69	-0.8	-0.69	-0.35	-0.34	-0.6	-0.86	-0.29	0.78	-0.81	-0.47	0.255	0.0275	0.3675	0.528	0.922575	0.371603	0.999971	1	0.869526	
Ncdm1	P57716	0.11	-0.42	-0.07	-0.49	-0.71	0.02	-0.46	-0.14	-0.81	0.04	-0.42	-0.67	0.72	0.28	-0.56	0	-0.105	-0.2475	-0.0325	0.671463	0.349735	0.910091	0.999971	1	0.918822	
Ncdm1	Q8RCV1	-0.47	-0.84	0.13	0.09	-0.45	-0.57	0.77	0.01	-0.54	-0.86	-0.1	-0.27	-0.28	-0.47	-0.32	-0.6	0.2125	-0.17	-0.145	0.57069	0.568821	0.589408	0.999971	1	0.921872	
Ncdm1	Q9ZJAE-3	-0.04	-0.08	-0.02	-0.24	-0.47	0.12	-0.52	0.38	-0.17	0.41	-0.01	0.13	-0.02	0.08	-0.4	-0.26	-0.0275	0.185	-0.055	0.915588	0.349506	0.772276	0.999971	1	0.963498	
Ncdm1	Q9A66-1	-0.01	-0.35	-0.63	-0.42	-0.42	-0.34	-0.9	-0.46	-0.48	-0.07	-0.46	0.51	-0.38	-0.58	-0.51	-0.36	-0.1775	-0.0275	-0.105	0.433476	0.895364	0.601092	0.999971	1	0.92426	
Ncdm1	A0A494B4	-0.35	2.64	1.69	0.86	2.73	2.05	1	1.67	2.78	1.16	2.13	2	2.72	1.22	1.59	1.19	0.6525	0.4775	-0.47	0.338091	0.561567	0.484121	0.999971	1	0.896352	
Ncdm2	F6RT43	1.19	-1.34	0.26	0.31	-1.88	-1.02	0.56	0.14	-1.29	0.23	-0.13	-0.16	-1.67	-2.01	-0.05	-0.87	-0.655	-0.4425	-1.255	0.356604	0.447645	0.707915	0.999971	1	0.736129	
Ncdm1	P25233	0.13	-0.54	0.61	-0.03	-1.13	-1.47	0.84	0.03	-1.38	-0.53	0.28	0.6	-0.56	-1.27	0.42	0.21	-0.7775	-0.1025	-0.145	0.628761	0.840804	0.758677	0.999971	1	0.96116	
Ncdm1	A2A05	-0.85	0.168	0.64	0.04	0.58	-0.17	0.78	0.78	-0.37	-1.09	0.8	0.58	0.29	0.77	1.08	0.33	-0.08	-0.1725	-0.4325	0.876762	0.726404	0.46027	0.999971	1	0.808633	
Ncdm1	Q6Z433	-0.9	-0.57	-1.33	-1.7	-0.82	-1.22	-1.39	-1.62	-0.79	-1.49	-1.77	-1.22	-1.14	-1.19	-1.17	-1.66	-0.375	-0.0925	-0.065	0.889241	0.749732	0.795544	0.999971	1	0.970368	
Ncdm2	Q9YQ0	-1.76	-1.12	-0.45	-0.79	-0.66	-0.72	-0.35	-0.23	-0.6	-1.69	-0.46	0.08	-0.67	-0.97	-0.79	-0.68	0.655	0.3625	0.2525	0.807006	0.48626	0.406318	0.999971	1	0.874911	
Ncdm2	A0A31BQ3	-1.12	0.21	1.48	0.16	0.54	-0.97	0.6	2.41	-0.44	-1.04	0.62	1.4	-0.74	-0.85	1.15	0.9	0.5425	0.3035	0.0125	0.496792	0.916729	0.98396	0.999971	1	0.939925	
Ncdm2_1	Q9YQ0-2	-1.89	-1.35	-0.37	-1.29	-0.52	-2.02	1.3	0.57	-0.48	-1.32	1.9	-1.42	0.94	1.47	-0.61	1.24	0.65	0.240944	0.101178	0.156138	0.999971	1	0.939925			
Ncdm3	Q9YQ19	-1.64	-0.04	-0.3	-0.41	0.07	-0.28	-0.38	-0.17	0.25	-0.84	-0.12	0.09	0.45	-0.06	-0.12	-0.06	0.4425	0.4425	0.65	0.27562	0.297599	0.106418	0.999971	1	0.782628	
Ncdm4	Q8BTG7-3	-1.98	-1.06	-1.06	-1.08	-0.4	-0.61	-0.78	-0.83	-0.58	-1.5	-0.96	-0.44	0.13	-0.2	-0.41	-0.27	0.64	0.425	1.1075	0.038225	0.218083	0.002904	0.999971	1	0.755374	
Ncdm4	Q53683	-1.8	-0.53	-1.63	-1.54	-0.51	-1.57	-1.65	-1.62	-1.13	-2.29	-1.93	-1.19	-1.51	-0.94	-0.97	-1.59	0.0375	-0.26	0.1225	0.920252	0.509464	0.714534	0.999971	1	0.952364	
Ncdm4	Q9YC13	-0.91	-0.98	0.4	0.56	-1.08	-0.72	0.46	0.41	-0.87	-0.17	0.24	0.72	-1.18	1.39	0.59	-0.57	-0.0325	-0.3815	-0.1325	0.950559	0.432161	0.12	0.999971	1	0.973412	
Ncdm4	G5E814	0.42	1.47	1.2	0.87	0.16	2.67	1.94	1.49	0.23	0.96	0.58	-1.32	0.02	2.53	0.74	0.66	0.575	-0.8775	-0.0025	0.293819	0.31743	0.996294	0.999971	1	1	
Ncdm4	Q7TMF3	-1.01	-0.3	-0.29	-0.97	0.15	-0.63	0.71	-0.73	-0.58	-1.16	0.56	1.09	1.2	-0.65	-0.41	-0.59	0.5175	0.91	0.53	0.198008	0.09392	0.262682	0.999971	1	0.842381	
Ncdm4	Q9ER52	-0.28	-0.72	-0.99	-0.92	-0.86	-0.95	-1.2	-1.04	-1.22	-0.74	-1.09	-1.12	-0.94	-0.64	-1.05	-0.88	-0.285	-0.315	-0.15	0.216211	0.189897	0.508965	0.999971	1	0.905815	
Ncdm4	Q9CJ05	-0.62	-0.28	-0.93	-0.87	-0.55	-0.49	-0.89	-0.98	-0.29	-1.41	-1.44	-0.94	-0.65	-1.03	-0.97	-1.05	-0.0525	-0.345	-0.25	0.81935	0.284931	0.734448	0.999971	1	0.847394	
Ncdm4	Q9C201	-0.31	-1.14	0.1	0.57	-0.02	-1.3	0.55	-0.59	-0.23	0.94	0.9	0.75	0.41	0.45	0.45	0.94	0.665	0.468297	0.4325	0.468297	0.683787	0.463188	0.999971	1	0.956427	
Ncdm4	Q6Z425	-0.33	-0.56	-0.08	0.21	-0.78	-0.86	-0.59	-0.4	-0.94	-0.1	-0.42	-0.46	-0.22	-0.45	-0.37	0.23	-0.2675	-0.0925	-0.0125	0.069874	0.639923	0.604641	0.999971	1	0.998721	
Ncdm4	Q4T209	0.39	-0.49	-0.91	-0.25	0.08	-0.14	-1.09	-2.43	-0.32	0.91	-1.06	-1.87	-0.48	0.04	-1.65	-1.57	-0.58	-0.27	-0.6	0.330372	0.652789	0.21881	0.999971	1	0.827064	
Ncdm4	Q9CP96	0.08	-0.26	-0.67	-0.65	-0.66	-0.38	-0.71	-0.58	-0.72	0.04	-0.68	-0.68	-0.58	0.16	-0.66	-0.68	-0.2075	-0.13	-0.065	0.379437	0.634914	0.819022	0.999971	1	0.975353	
Ncdm4	Q9CQ25	-0.66	-1.15	-0.26	-1.15	-0.26	-0.23	0.28	0.62	-0.57	0.15	-0.21	-0.43	0.1	0.06	-0.77	1.18	0.66	0.36	-0.17	0.12	0.83587	0.348366	0.58407	0.999971	1	0.95638
Ncdm4	Q9Z1P6	-0.23	-0.62	-0.61	-0.74	-0.55	-0.95	-0.67	-0.89	-0.45	-0.88	-0.71	-0.93														



Nip7	E9I0109	1.66	-1.18	0.53	0.05	-0.45	0.08	0.13	0.45	-0.25	1.58	-0.04	0.33	-1.27	0.07	0.04	-0.14	-0.4625	-0.11	-0.84	0.293808	0.837492	0.109852	0.999971	1	0.78268
Nip8	Q8BHKL1	1.13	1.25	1.35	1.29	-0.03	1.53	0.73	1.08	1.06	0.94	1.07	-0.2	0.12	1.06	0.68	1	-0.4275	-0.5375	-0.54	0.218935	0.114274	0.054819	0.999971	1	0.725348
Nip9a1	Q8BGK5	0.4	-0.49	0.77	0.39	-1.29	0.48	0.4	-0.26	-0.41	0.11	-0.18	-0.7	0.1	-0.04	-0.17	-0.1	-0.1075	-0.035	0.15	0.808647	0.918336	0.29196	0.999971	1	0.932234
Nip9b	Q8CKD5	0.75	-0.67	0.39	0.09	-0.4	-0.41	-0.22	-0.09	-0.61	0.3	-0.7	-1.56	-0.49	-0.66	-0.44	-0.56	-0.225	-0.5875	-0.4825	0.490638	0.224871	0.155123	0.999971	1	0.795578
Nip9na1	O55125	-2.16	-0.48	0.39	0.5	-0.12	-0.74	0.64	-0.08	-0.01	-2.21	0.42	-0.38	0.23	-1.48	0.1	-0.93	0.6125	0.1425	0.1675	0.285672	0.842084	0.785505	0.999971	1	0.967053
Nip9na2	O55126	-2.22	-0.63	-0.45	-0.55	-0.28	-0.88	0.64	-0.07	-0.63	-2.17	-1.15	-0.96	-0.74	-1.16	-0.8	-1.4	0.32	-0.0625	-0.541687	0.598679	0.883182	0.999971	1	0.986597	
Nip9na3b O55127 -0.63 0.18 0.07 0.02 0.92 0.45 0.28 0 0.95 0.13 0.02 0.41 1.2 0.75 0.21 0.06 0.75 0.1275 0.2175 0.265 0.956211 0.65540 0.190688 0.999971 1 0.87778																										
Nis1	Q8QTM9	-0.1	0.34	0.4	0.37	0.37	0.29	0.75	0.58	0.29	0.27	0.59	0.75	0.27	0.42	0.56	0.6	0.245	0.2225	0.21	0.25958	0.309373	0.308595	0.999971	1	0.847402
Nis1b	Q8VDK1-2	-0.56	0.03	-0.04	-0.31	0.02	-0.3	-0.32	-0.4	0.03	-0.45	-0.6	-0.41	0.5	-0.07	-0.16	-0.16	-0.03	-0.1375	0.2475	0.887694	0.549666	0.32027	0.999971	1	0.853962
Ni2	Q89HW2	-0.38	-0.07	0.01	0.24	-0.09	-0.06	-0.12	-0.24	0.02	-0.32	-0.07	0.1	-0.47	0.07	0.13	-0.07	0.0425	-0.0175	0.2	0.838793	0.932336	0.371021	0.999971	1	0.869526
Ni4na1	Q89MG4	-0.67	-0.18	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	1	0.908959
Ni4na1a	Q8QEC5	1.06	0.93	0.66	0.96	0.64	0.83	0.7	0.96	0.77	0.65	0.97	0.16	0.7	0.76	0.61	0.1	-0.1075	-0.035	0.15	0.808647	0.918336	0.29196	0.999971	1	0.839012
Ni4na2	Q8CR56	-0.4	-0.95	-1.06	-1.21	-0.5	-0.82	-1.12	-0.72	-0.56	0.03	-0.63	-1.21	-0.76	-0.56	-0.83	-0.49	0.115	0.3125	0.245	0.644178	0.332045	0.306719	0.999971	1	0.847402
Ni4na3	AO4668KL1	-0.22	-0.22	-0.32	-0.1	-0.23	-0.12	-0.33	-0.07	-0.2	0.1	-0.04	-0.35	0.15	0.21	-0.17	0.25	-0.0825	-0.0175	0.215	0.67249	0.931426	0.31207	0.999971	1	0.849271
Ni9n1	E9K3K4	-1.33	-0.71	-1.47	-1.18	-0.89	-0.6	-1.56	-1.15	-1.06	-1.06	-1.11	-1.33	-0.78	-0.66	-1.08	-0.8	0.1225	0.1475	0.3425	0.666377	0.560308	0.15832	0.999971	1	0.798902
Ni9n2	Q8QZ90	-0.89	-0.17	-0.29	-0.45	-0.41	-0.36	-0.55	-0.58	-1.09	-0.74	-0.6	-1.4	-0.59	-0.9	-0.53	-0.37	0.075	0.14	0.225	0.737919	0.574565	0.330316	0.999971	1	0.87778
Ni9n3	A2AG12	-1.28	-1.26	-1.3	-1.05	-1.12	-1.17	-1.47	-1.05	-1.01	-1.1	-1.23	-1.31	-0.74	-1.04	-1.3	-0.94	0.02	0.06	0.2175	0.91323	0.727076	0.281018	0.999971	1	0.844538
Ni9n4	807B24	1.83	-1.82	-0.71	-0.48	-1.95	-1.45	-0.4	-1.01	-1.44	0.09	-0.76	-1.25	-1.89	-1.64	-1.13	-0.73	-0.9025	-0.545	-1.0525	0.246899	0.480427	0.174773	0.999971	1	0.808161
Ni9n5	AO5499	-0.56	0.03	0.65	-0.98	-0.21	0.27	0.1	-0.45	-0.12	-0.41	-0.26	-0.86	-1.09	-0.44	-0.87	-0.71	0.1425	-0.1975	-0.3125	0.700078	0.603597	0.421267	0.999971	1	0.87778
Ni9n6	Q81V92	-0.12	-0.72	-0.29	-0.83	-0.47	-1.81	-0.27	-1.09	-1.25	-1.33	-0.93	-0.65	-1.7	-0.87	-0.35	-0.23	0.105	0.3025	0.0625	0.658846	0.262628	0.761384	0.999971	1	0.961126
Ni9n7	Q81V44	-0.47	0.13	-0.23	-0.08	-0.36	-0.15	-0.53	-0.33	-0.48	-0.29	-0.32	-0.2	-0.14	-0.41	-0.27	-0.14	-0.18	-0.16	-0.0775	0.387705	0.423253	0.700523	0.999971	1	0.948664
Ni9n8	Q89L48	0.48	1.8	0.87	1.14	1.38	1.92	0.86	0.97	1.58	0.69	1.01	0.91	0.06	0.63	0.93	0.82	0.21	-0.025	-0.4625	0.562045	0.940341	0.193254	0.999971	1	0.810547
Ni9n9	P15532	-0.38	0.73	-0.66	0.38	0.27	0.31	0.02	-0.23	0.13	-0.07	-0.62	-0.87	0.06	0.97	-0.62	0.37	0.075	-0.3375	-0.0075	0.828807	0.343618	0.886637	0.999971	1	0.99925
Ni9na1	Q89V45	0.86	0.09	-0.23	-0.15	-0.04	0.37	-0.1	0.2	0.51	0.75	-0.15	-0.18	1.13	0.89	0.4	0.55	-0.035	0.18	0.6	0.802217	0.578576	0.076433	0.999971	1	0.748444
Ni9na2	Q8JUM6	0.17	0.27	-0.03	0.69	0.12	0.54	0.02	-0.59	0.28	0.32	-0.27	0.25	0.28	0.53	0.51	0.71	0.0425	0.005	0.2325	0.860372	0.980377	0.307014	0.999971	1	0.847402
Ni9na3	Q89P47	-0.07	0.9	1.94	1.65	0.54	-0.11	0.44	1.58	0.52	0.01	2.09	2.36	-0.66	0.39	2.44	1.89	-0.4925	0.14	-0.09	0.361828	0.833933	0.950589	0.999971	1	0.919091
Ni9na4	Q89N13	1.12	-0.31	-0.07	0.11	-0.33	0.04	0.47	0.91	0.35	0.68	0.33	0.79	-0.54	0.37	0.18	0.14	0.06	0.15	-0.175	0.879437	0.702259	0.633222	0.999971	1	0.93301
Ni9na5	Q89N86	-0.34	-0.41	-0.88	0.16	-0.46	-0.78	-0.96	-0.15	-0.89	-0.58	-1.12	-0.85	-1.25	-0.86	-0.3	-0.55	-0.22	-0.4425	-0.2475	0.455362	0.122588	0.434265	0.999971	1	0.882419
Ni9na6	O3YU11	0.35	0.4	0.67	0.48	0.38	0.04	0.06	0.08	0.06	0.09	0.55	-0.1	-0.14	-0.09	-0.11	-0.18	0.0668	0.086205	0.118	0.60686	0.586205	0.873636	0.999971	1	0.899717
Ni9na7	O70310	2.39	2.19	1.48	1.75	2.13	2.46	1.87	1.62	2.34	2.75	1.45	1.68	2.26	1.47	1.59	0.0675	0.1025	-0.2175	0.814902	0.777587	0.545481	0.999971	1	0.887217	
Ni9na8	O70311	0.78	0.63	0.55	-0.01	-0.45	0.69	0.14	0.32	0.59	0.3	0.71	0.61	0.33	0.19	0.54	-0.09	0.1625	0.005	-0.245	0.550289	0.777121	0.359394	0.999971	1	0.858827
Nnt	Q61941	-4.99	-6.87	-5.39	-5.09	-6.74	0.71	0.02	0.37	0.22	0.39	0.01	3.74	-2.73	0.71	3.74	3.66	4.175	6.675	6.93	0.028476	5.24E-05	0.009098	0.999971	0.095451	0.365812
Nn1	Q81G98	-0.89	-0.17	-0.29	-0.45	-0.41	-0.36	-0.55	-0.55	-0.47	-0.74	-0.6	-1.4	-0.59	-0.9	-0.53	-0.36	-0.075	0.14	0.225	0.737919	0.574565	0.330316	0.999971	1	0.87778
Nn1b	Q8BW10	-1.72	-2.84	-5.49	-4.57	-1.92	-2.82	-4.41	-2.44	-2.55	-2.56	-2.65	-3.28	-2.21	-1.64	-2.81	-3.2	0.7575	0.895	1.175	0.408435	0.271736	0.178977	0.999971	1	0.808532
Nn2a1	J30K52	-0.6	-0.82	0.21	-0.63	-0.83	-1.1	-0.27	-0.56	-0.19	-0.45	-0.36	-0.85	-0.52	-1.06	-0.2	-1.18	-0.23	-0.0025	-0.28	0.449122	0.92921	0.400324	0.999971	1	0.871816
Nn2b	Q89V84	-0.36	-1.12	-1.41	-0.52	-0.55	-1.26	-0.83	-0.33	-0.29	0.33	-0.25	0.43	-0.16	-1.06	-0.68	0.67	0.8825	0.485	0.189756	0.019777	0.136472	0.999971	1	0.833415	
Nn2c	Q89H92	-0.17	-0.72	-0.29	-0.83	-0.47	-1.81	-0.27	-1.09	-1.25	-1.33	-0.93	-0.65	-1.7	-0.87	-0.35	-0.23	0.105	0.3025	0.0625	0.658846	0.262628	0.761384	0.999971	1	0.961126
Nn2d	O35710	-0.79	-0.13	0.27	0.57	0.02	-0.88	-0.5	-0.59	-0.14	-1.09	-0.1	-0.69	-0.46	0.03	0.1	-0.27	-0.4675	-0.485	-0.113	0.197428	0.209932	0.689188	0.999971	1	0.945805
Nn2e	O58U10	-0.23	-0.84	0.34	0.64	-1.34	-0.79	0.76	0.35	-1.41	-0.15	-0.34	0.64	-1.61	-0.27	0.29	0.42	-0.2325	-0.2925	-0.27	0.66853	0.560685	0.609419	0.999971	1	0.926373
Nn2f	O88RW5-2	2.69	-0.77	-0.34	-0.4	-0.13	0.9	0.47	0.35	-0.75	1.78	-0.58	-0.61	-2.37	0.46	0.79	-0.61	-0.1325	-0.335	-1.1225	0.863591	0.713193	0.2288	0.999971	1	0.828687
Nn2g	O89D100	1.42	1.41	2.1	2.17	0.74	1.52	2.41	1.84	1.07	1.16	1.61	-0.3	-0.74	1.84	1.69	2.03	-0.1475	-0.78	-0.2	0.700078	0.121411	0.570884	0.999971	1	0.91816
Nn2h	F78N10	3.1	2.31	2.17	2.36	2.14	1.52	1.36	1.07	1.27	1.74	1.24	1.74	1.42	1.74	1.82	1.72	-0.1225	0.073218	-0.1225	0.073218	0.263206	0.308974	0.999971	1	0.949714
Nn2i	Q88K54-2	-0.58	-0.38	-0.21	-0.39	-0.67	-0.06	-0.2	-0.95	-0.98	-1.18	-0.41	-0.67	-0.87	-1.11	-0.01	-0.0875	-0.3875	-0.1675	0.71971	0.183155	0.560131	0.999971	1	0.915694	
Nn2j	O50723-2	-1.29	-0.25	-0.87	-0.98	-1.04	-1.36	-1.05	-0.66	-2.45	-0.78	-3.22	-2.98	-2.22	-1.46	-1.11	-0.65	-0.18	-0.51	-0.5125	0.521433	0.12991	0.203852	0.999971	1	0.81617
Nn2k	Q89K01	0.64	-1.09	-0.56	-0.41	-0.36	0.15	-0.66	-0.35	0.14	-0.24	-0.56	-0.4	-1.43	-0.9	-0.07	-0.74	0.05	-0.21	-0.43	0.896453	0.599091	0.335001	0.999971	1	0.858827
Nn2l	Q3T2A-2	0.16	0.4	0.87	1.08	1.37	0.17	0.86	1.08	-0.12	-0.56	0.78	0.91	-0.9	-1.14	-0.7	-0.6	-0.1875	-0.147	-0.1475	0.221236	0.594843	0.859745	0.999971	1	0.846151
Nn2m	AO4289Dv	1.47	-0.0																							

Nubp1	Q9R060	1.1	0.57	0.45	0.28	0.83	1.16	-0.31	0.12	1.06	1.12	0.16	0.52	0.47	1.12	0.68	0.02	-0.15	0.115	-0.0275	0.688984	0.70035	0.926608	0.999971	1	0.99401
Nubp2	A0A3QAL2	-0.02	-0.19	-0.11	0.05	0.61	-0.9	-0.43	-0.74	-0.61	0.49	0.11	0.07	-0.01	-1.11	-0.04	0.3	-0.2975	0.0885	-0.1475	0.391995	0.74719	0.64189	0.999971	1	0.93101
Nubp3	Q5CV08	-0.14	-0.18	-0.57	-0.44	-0.96	-0.71	-0.17	0.1	-1.26	0.55	0.66	0.61	-0.75	-0.6	0.04	0.13	-0.1425	-0.35	0.065	0.959691	0.143456	0.768672	0.999971	1	0.96174
Nucb1	Q02819	0.45	2.85	1.65	1.47	2.54	2.66	1.65	1.53	2.42	1.08	1.61	1.64	3	2.46	1.72	1.7	0.49	0.0825	0.615	0.365673	0.874716	0.715566	0.999971	1	0.843794
Nucb2	P81117	0.85	0.73	1.08	1.22	0.72	0.87	0.87	1.3	1.1	0.79	1.18	1.28	0.81	0.63	0.95	1.62	-0.03	0.1175	0.0235	0.888870	0.567925	0.902322	0.999971	1	0.990759
Nucb3	A0A08FW7	2.87	3.03	2.83	3.74	2.41	2.08	2.68	2.77	2.29	2.73	2.47	2.04	1.74	2.87	2.28	2.55	-0.6325	-0.735	-0.704	0.04221	0.023667	0.040585	0.999971	1	0.700838
Nucd	O35685	-0.62	0.34	0.44	0.15	0.2	0.57	0.63	0.54	0.34	0.45	0.51	0.72	0.76	0.46	0.61	0.42	0.0475	0.4025	0.184871	0.461804	0.172653	0.999971	1	0.761268	
Nucd1	Q6P95	-1.41	-0.56	0.08	0.43	-0.83	-0.91	-0.07	0.08	-0.86	-0.92	0.02	0.22	1.6	-1.05	0.17	-0.05	-0.0675	-0.02	-0.2675	0.880388	0.965968	0.620244	0.999971	1	0.925296
Nucd2	Q5CQ48	0.42	1.03	0.86	0.19	1.84	-0.06	0.74	0.07	2.4	-0.7	0.91	0.64	2.94	-0.41	-0.1	0.47	0.0225	0.1875	0.1	0.959808	0.758783	0.887961	0.999971	1	0.987485
Nucd3	Q8R194	-0.37	-0.21	-0.16	0.07	-0.06	0.18	0.56	0.09	-0.18	0.36	0.25	0.64	0.05	-0.01	0.34	0.42	0.37	0.3175	0.087692	0.179327	0.19731	0.999971	1	0.812891	
Nucd11	P0C2D3	-0.24	-0.27	-0.17	-0.17	-0.1	0.11	0.16	-0.14	-0.19	0.16	0.53	0.46	0.46	-0.1	0.19	0.1225	0.2975	0.1525	0.517147	0.320291	0.517322	0.999971	1	0.965815	
Nucd12	Q5DCV1	0.85	-0.38	0.36	0.02	-0.28	0.52	0.67	0.44	0.2	0.45	0.36	-0.38	-0.45	0.34	0.66	0.44	-0.05	-0.5675	0.760892	0.837479	0.513332	0.999971	1	0.748448	
Nucd13	Q8ZU0	-2.47	-1.31	0.62	0.78	-1.91	-1.65	3.76	0.54	-2.92	-0.7	-1.18	-0.91	-1.93	-1.97	-0.5	-2.23	0.78	-0.8325	-1.0625	0.568883	0.338057	0.201657	0.999971	1	0.815758
Nucd14	Q5O142	-0.78	-0.29	0.97	0.45	2.39	-0.44	0.55	1.59	0.53	-0.09	0.2	0.6	-0.74	0.3	0.44	0.77	0.935	-0.045	0.180916	0.583055	0.925741	0.999971	1	0.99401	
Nucd15	Q8B9G3	1.39	0.74	1.14	0.86	0.36	0.71	0.88	0.32	0.58	1.55	0.59	0.2	-1.17	0.95	0.39	0.36	-0.46	-0.2975	-0.895	0.07777	0.570957	0.73348	0.999971	1	0.746069
Nucd16	Q6P200	-0.36	0.79	0.09	-0.08	0.82	0.33	0.09	0.32	0.84	0.1	-0.01	0.32	0.84	0.04	0.62	0.15	0.42	0.2175	0.4025	0.188481	0.461804	0.172653	0.999971	1	0.761268
Nucd161	Q8VNH8	-0.01	0.94	1.1	0.75	1.28	0.56	0.68	0.68	1.16	0.61	0.78	1.38	1.22	1.18	1.32	1.28	1.05	-0.2975	0.555	0.728978	0.361966	0.064377	0.999971	1	0.726597
Nucd17	Q5CW03-2	1.56	0.59	0.55	0.52	-0.19	0.75	0.91	-0.36	0.18	1.16	-0.12	-0.37	-0.32	0.31	-0.64	-0.68	-0.5275	-1.1375	0.201892	0.166081	0.080109	0.999971	1	0.602121	
Nucd18	Q3U2V3	-0.57	0.05	0.26	0.24	0.73	-0.46	0.16	0.11	-0.43	-0.86	0.1	0.54	0.24	-0.24	-0.14	0.15	0.24	-0.075	0.1075	0.525053	0.888662	0.735649	0.999971	1	0.958637
Nucd19	P11930	-1.24	-0.15	-0.08	-1.64	-0.59	-1.16	-0.28	-1.11	-0.64	-1.95	-0.16	-1.27	-1.18	-1.14	-0.54	-1.76	0.0025	-0.1275	0.081225	0.793888	0.952396	0.999971	1	0.968064	
Nucd21	P56380	-0.13	1.08	0.48	-0.31	0.97	1.13	0.81	0.95	0.86	0.02	0.66	0.97	1.3	1.08	0.67	0.05	0.685	0.3375	0.455	0.059455	0.37903	0.237453	0.999971	1	0.833594
Nucd22	Q5CF03	0.53	2.36	2.59	2.39	2.97	1.96	2.34	2.32	2.41	1.36	2.62	2.6	1.45	2.09	2.38	2.55	0.285	0.28	0.15	0.540292	0.597607	0.764948	0.999971	1	0.962405
Nucd31	1E1K47	-0.4	1.63	1.19	0.08	2.97	0.13	3.67	-0.27	3.77	-0.96	2.22	2.03	1.04	-1.88	-0.84	-1.49	1	1.14	-1.4175	0.322712	0.266079	0.077281	0.999971	1	0.752059
Nucd4	Q8R2U6	-0.04	0.2	-0.57	0.33	-0.22	0	-0.8	-0.23	0.34	-0.24	-0.65	-0.42	-0.17	0.36	-0.8	0.22	-0.2925	-0.2225	-0.0775	0.308674	0.463148	0.813202	0.999971	1	0.974559
Nucd5	Q5XK06	0.57	0.72	1.5	0.82	0.72	0.9	0.89	0.83	0.81	0.87	0	1.12	0.56	0.96	0.92	0.8	-0.0675	-0.2025	-0.0925	0.780347	0.531627	0.714813	0.999971	1	0.952456
Nucd7	Q9P9P0-3	-0.33	-0.93	-1.15	-0.82	-0.38	-0.29	-0.91	-0.26	-0.31	-0.19	-1.38	-1.14	-0.35	-0.64	-1.18	-1.06	0.3475	-0.05	-1.03E-16	0.197523	0.877727	1	0.999971	1	1
Nucd8	Q5CR24	-0.35	0.03	-0.17	-0.59	-0.33	0.07	-0.62	-0.16	-0.43	-0.4	-0.78	-1.25	-0.36	0.08	-0.23	-0.29	0.01	-0.445	0.07	0.965702	0.114142	0.743323	0.999971	1	0.961064
Nucd9	Q8BV05	0.93	0.16	1.25	0.87	0.11	0.19	0.98	1.12	0.38	0.12	1.62	1.41	-0.29	0.6	0.7	0.7	-0.0205	0.07	0.557475	0.847628	0.067983	0.999971	1	0.739397	
Nucp2	Q5Z27	0.13	1.53	1.62	1.73	1.51	1.48	1.47	1.51	1.56	1.53	1.56	1.7	1.46	1.81	1.56	1.72	0.175	0.78289	0.179126	0.791276	0.439004	0.999971	1	0.961064	
Numa1	Q9T670	0.29	-0.39	-0.34	-0.37	-0.28	-0.54	-0.17	-0.72	-0.43	0.07	-0.71	-0.83	-0.41	-0.49	-0.84	-0.93	-0.225	-0.2725	-0.465	0.359708	0.335881	0.808954	0.999971	1	0.755254
Numb	Q9Z253-4	0.52	-0.58	-0.76	-0.63	-0.44	0.23	-0.05	-1.46	-0.28	0.34	-0.51	-1.09	-0.68	-0.51	-1.01	-1.23	-0.0675	-0.0225	-0.495	0.879551	0.955256	0.16628	0.999971	1	0.801253
Numn1	Q8B919	-0.51	-0.24	-0.62	-0.9	-0.08	-0.2	-0.4	-0.6	-0.2	-0.52	-0.68	-0.83	0.39	-0.02	-0.8	-0.72	0.2475	0.01	0.28	0.280719	0.964998	0.932045	0.999971	1	0.871816
Nup107	Q8B1Y4	-0.86	-1.17	0.27	-0.41	-1.33	-0.37	-0.34	-0.05	-1.12	-0.32	0.37	-1.84	1.04	0.62	0.15	0.42	0.0175	0.08	0.78005	0.915091	0.921815	0.999971	1	0.808121	
Nup133	Q8R0G9	-0.08	-0.22	-0.55	-0.38	-0.19	-0.13	-0.79	-0.51	-0.37	-0.01	-0.46	-0.59	0.13	0.01	-0.5	-0.32	-0.0975	-0.05	0.1375	0.665905	0.81039	0.539155	0.999971	1	0.910077
Nup153	Q5G368	-0.11	-0.24	-0.6	-0.2	-0.26	-0.11	-0.69	-0.26	-0.31	-0.26	-0.3	-0.5	0.01	-0.03	-0.09	0.03	-0.0425	-0.055	0.2675	0.842131	0.767735	0.173152	0.999971	1	0.806803
Nup155	A0A2R2H8	-1.13	-0.86	-0.88	-0.78	-1.05	-1.18	-0.69	-0.92	-1.14	-1.16	-0.91	-0.79	-1.06	-0.7	-0.69	-0.84	-0.0475	-0.0875	0.09	0.806037	0.637594	0.623536	0.999971	1	0.93301
Nup160	Q2D2V3	-0.78	-1.15	-0.85	-1.26	-1.34	-1.32	-0.88	-1.18	-1.59	-1.05	-0.89	-0.79	-1.25	-1.13	-1.26	-1.07	0.005	0.035	0.029	0.602748	0.907913	0.488414	0.999971	1	0.801253
Nup188	Q5OZK8	0.73	-0.06	-0.33	-0.26	0.33	-0.01	-0.23	-0.16	-0.08	0.34	-0.34	-0.53	0.21	0.02	-0.39	-0.6	-0.0375	-0.1775	-0.211	0.895831	0.583471	0.505933	0.999971	1	0.905277
Nup205	B9E154	-0.8	-0.12	0.04	-0.3	-0.01	-0.31	-0.25	-0.22	0.13	-0.85	0	-0.18	0.53	-0.29	-0.33	-0.3	0.0975	0.07	0.1975	0.674321	0.811662	0.501767	0.999971	1	0.904573
Nup210	Q5QY81	-0.39	-0.25	-0.6	-0.57	-0.37	-0.19	-1.01	-0.65	-0.39	-0.17	-0.41	-0.63	-0.22	-0.13	-0.42	-0.09	-0.1025	0.0525	0.2375	0.661649	0.780526	0.220247	0.999971	1	0.827096
Nup214	Q8U0U5	-0.56	-0.29	-0.43	-0.38	-0.34	-0.63	-0.35	-0.45	-0.27	-0.71	-0.32	-0.41	-0.02	-0.31	-0.55	-0.48	-0.0725	-0.125	0.075	0.874801	0.945316	0.701392	0.999971	1	0.949019
Nup317	Q8R486	-0.47	-0.12	-0.47	-0.12	-0.37	-0.12	-0.43	-0.17	-0.29	-0.43	-0.18	-0.65	-0.11	-1.1	-0.15	-0.65	-0.138423	-0.4178	-0.18	0.65	0.917259	0.999971	1	0.961064	
Nup317	Q5CWU9	1.2	0.05	0.65	0.74	-0.23	0.43	0.97	0.26	-0.07	0.57	0.36	-0.63	-0.31	-0.24	-0.07	-0.46	-0.3025	-0.6025	-0.93	0.383269	0.112335	0.007073	0.999971	1	0.582714
Nup43	P53235	1.22	0.32	-0.73	-0.96	0.01	0.16	-0.95	-1.23	-0.2	0.67	-0.68	-1.12	0.35	0.5	-0.99	-0.37	-0.465	-0.295	-0.09	0.415632	0.614282	0.872399	0.999971	1	0.984109
Nup45	Q5YHJ2	0.3	-0.43	-0.11	-0.42	-0.63	-0.39	0.09	-0.2	-0.38	-0.21	-0.42	-0.4	-1.11	-0.21	-0.08	-0.36	-0.1175	-0.1875	-0.275	0.647005	0.402934	0.367518	0.999971	1	0.869526
Nup45	Q8B754	-0.97	-0.85	-0.86	-0.68	-0.61	-0.39	0.09	-0.2	-0.38	-0.21	-0.42	-0.4	-1.11	-0.21	-0.08	-0.36	-0.1175	-0.1875	-0.275	0.647005	0.402934	0.367518	0.999971	1	0.869526
Nup58	Q8R332-4	-0.5	-2.37	-1.5	-1.26	-1.84	-2.16	-1.27	-1.49	-2.13	-1.02	-1.27	-1.22	-2.29	-1.82	-1.34	-1.12	-0.2825	-0.225	-0.235	0.4					

Pac52	AO1Y1VU2	0.2	-0.6	0.48	-0.08	-0.43	-0.23	0.44	0.27	0.04	-0.03	0.45	-0.44	-0.05	-0.57	0.15	-0.47	0.0125	0.005	-0.235	0.968075	0.986734	0.43725	0.999971	1	0.882419
Pac51n1	Q81644	-1.01	-0.84	-0.74	-0.8	-1.22	-1.06	-0.27	-0.86	-0.97	-1.27	-0.62	-0.89	-1.46	-1.19	-0.88	-0.95	-0.005	-0.09	-0.2725	0.983741	0.65386	0.299387	0.999971	1	0.811335
Pac51n2	AO42NRW6	-1.12	-1.15	-0.76	-1.86	-1.49	-0.97	-1.13	2.33	0.77	-3.42	-0.13	0.47	-0.46	-1.46	-1.88	-0.71	-0.7275	0.01	0.1175	0.456442	0.988569	0.760205	0.999971	1	0.961116
Pac51n3	Q91688	0.98	-0.7	0.07	-0.03	-0.99	-0.54	-0.06	-0.39	-0.82	0.15	-0.24	-0.92	-0.5	-0.09	-0.08	-0.08	-0.575	-0.3575	-0.4375	0.15733	0.366097	0.196338	0.999971	1	0.845133
Pac51n4	Q93988	-0.91	-0.35	0.24	-0.1	-0.38	-0.38	-0.74	0.16	-0.64	-0.58	-0.43	-0.5	-0.44	-0.16	0.16	0.12	-0.055	-0.2575	-0.22	0.859298	0.346278	0.46418	0.999971	1	0.890905
Pac52	Q80642	-0.87	-1.01	-0.3	-0.65	-1.07	-0.61	-0.46	-0.79	-0.84	-0.8	-0.68	-0.32	-0.95	-0.76	-0.45	-0.61	-0.025	-0.0475	0.015	0.913967	0.836395	0.947523	0.999971	1	0.997651
Pa1	Q82278	1.23	0.7	0.87	0.99	0.91	0.81	0.73	0.95	0.84	1.53	0.91	1.23	0.71	1.17	0.35	0.25	-0.0975	-0.18	0.0205	0.860232	0.440839	0.294639	0.999971	1	0.826867
Pa1a1b1	PE0005	-0.32	-0.23	-0.31	-0.27	-0.19	0.04	-0.31	-0.13	0.12	0	-0.18	-0.07	-0.37	-0.01	-0.16	0.07	0.135	0.25	0.35	0.436044	0.15208	0.087414	0.999971	1	0.763848
Pa1a1b2	AO41LSV9	-0.94	0.35	0.15	-0.09	0.61	0.38	0.42	-0.23	0.51	0.03	-0.01	-0.03	-0.86	-0.07	-0.22	-0.76	0.4275	0.2575	-0.345	0.22336	0.422767	0.32699	0.999971	1	0.856472
Pa1a1b3	Q81205	-0.31	-0.55	0.18	-0.33	-0.27	-0.52	0.86	-0.61	0.47	-0.09	0.39	0.79	-0.6	-0.23	0.05	0.16	0.1175	0.6425	0.0975	0.476783	0.03352	0.703747	0.999971	1	0.949793
Pa1a2	EQ2N26	-1.44	-1.32	-0.75	-1.65	-1.41	-1.1	-1.24	-1.11	-1.24	-1.17	-1.18	-1.06	-0.76	-1.27	-1.33	-1.13	0.1775	0.3725	0.285	0.407956	0.021646	0.193775	0.999971	1	0.811335
Pa1a3	Q13U19	-1.44	-1.34	-1.26	-1.5	-1.42	-0.86	-1.37	-1.47	-1.18	-1.06	-1.04	-1.06	-0.76	-1.27	-1.33	-1.13	0.1775	0.3725	0.285	0.407956	0.021646	0.193775	0.999971	1	0.811335
Pa1a4	Q9C019	-0.08	-0.05	-0.3	-0.41	-0.23	-0.43	-0.38	-0.19	-0.13	-0.38	-0.15	-0.7	-0.5	-0.43	-0.53	-0.66	-0.0975	-0.13	-0.32	0.594038	0.534934	0.102772	0.999971	1	0.782568
Pa1a5	F0V616	0.21	-0.26	0.18	-0.13	-0.31	-0.3	-0.53	-0.13	-0.53	-0.14	0.42	-0.03	-0.53	-0.25	0.01	-0.1	-0.0525	-0.07	-0.2175	0.837147	0.781529	0.233582	0.999971	1	0.855548
Pa1a2b	Q91W45	1.88	0.47	0.03	0.9	1.21	1.66	1.29	-0.03	1	1.23	0.31	-1.11	0.96	1.2	-0.98	-0.29	0.1215	-0.4625	-0.5975	0.672488	0.452006	0.32993	0.999971	1	0.856787
Pa1a3	G5E884	-0.78	-0.16	-0.17	-0.02	-0.16	0.04	-0.29	-0.31	-0.54	-0.13	-0.22	-0.16	-0.15	-0.07	0.04	0.0425	-0.08	0.0205	0.860232	0.749862	0.702128	0.999971	1	0.946019	
Pa1a4	Q91C05	0.91	1.09	2.98	2.76	1.36	1.34	2.74	2.52	1.03	1.14	2.7	2.55	0.03	1.51	2.54	2.33	0.055	-0.08	-0.3325	0.929662	0.900843	0.642437	0.999971	1	0.93301
Pa1a5	Q8C194	-0.35	-0.51	-0.64	-0.72	-0.47	-0.54	-0.8	-0.9	-0.58	-0.5	-0.57	-0.53	-0.63	-0.14	-0.28	-0.41	-0.1225	0.01	0.19	0.532745	0.952842	0.344354	0.999971	1	0.862346
Pa1a6	Q81036	0.95	0.53	-0.32	-0.38	0.23	0.71	0.06	0.54	-0.49	0.41	0.01	0.06	1.02	1.08	0.34	0.61	-0.3937	-0.1425	0.3775	1	0.635418	0.257333	1	1	0.839012
Pa1a7	Q8B7W9	0.17	0.03	0.35	1.23	1.47	-0.83	1.75	-0.26	-0.32	0.7	0.31	-0.12	0.4	0.31	-0.09	-0.57	0.0875	-0.3025	-0.805	0.888505	0.304814	0.042018	0.999971	1	0.701725
Pa1a8	Q8C105	-0.08	-0.3	-0.6	-0.79	-0.7	-0.68	-0.69	-0.98	-0.53	-0.62	-0.61	-0.09	-0.77	-1.25	-0.86	-0.32	-0.13	-0.3	0.167675	0.535702	0.32883	0.999971	1	0.856472	
Pa1a9	Q3UL85	0.25	-1	-0.61	-0.43	-1.18	-0.29	-0.34	-0.02	-1.09	0.02	-0.17	-0.12	-0.09	-0.67	-0.38	0.34	-0.01	0.1075	0.2925	0.977481	0.763322	0.403796	0.999971	1	0.873348
Pa1a10	F7A426	-0.47	-0.94	-0.88	-0.85	-1.06	-1.06	-0.81	-0.84	-0.97	0.19	-0.76	-0.86	-0.92	-1	-1.03	-1.03	-0.1575	0.185	-0.21	0.421238	0.536871	0.773309	0.999971	1	0.843794
Pa1a11	AO40R400	0.05	0.74	0.17	0.83	0.31	0.21	0.04	0.78	0.69	1.1	0.33	0.46	0.77	0.78	0.74	0.81	-0.1125	0.1975	0.3575	0.68011	0.480048	0.157105	0.999971	1	0.797246
Pa1a12	EQ5T4-3	-0.51	-0.35	-0.38	-0.73	0.97	1.31	-0.51	1.09	1.11	0.86	2.11	0.08	-0.85	0.61	-0.63	-0.5	1.6625	3.2825	0.15	0.150025	0.000822	0.656518	0.999971	0.409699	0.934061
Pa1a13	Q920P4-2	-1.26	-2.27	-2.73	-2.16	-1.57	-1.02	-2.05	-2.17	-1.98	-0.92	-1.78	-1.83	-1	-1.4	-2.32	-1.5	-0.4025	0.4775	0.55	0.314905	0.227658	0.189853	0.999971	1	0.810547
Pa1a14	Q920P4	-0.82	-1.66	-1.78	-1.56	-1.88	-1.58	-1.48	-1.55	-1.63	-1.34	-1.57	-1.23	-1.39	-1.85	-1.86	-1.61	-0.0765	-0.2125	-0.29	0.521311	0.463681	0.195363	0.999971	1	0.847402
Pa1a15	Q8B802	-0.83	-1.21	-1.03	-0.97	-1.41	-1.39	-0.61	-1.45	-1.46	-0.92	-1.41	-1.08	-1.25	-1.37	-1.47	-1.21	-0.205	-0.0705	-0.315	0.414947	0.322257	0.108807	0.999971	1	0.78208
Pa1a16	A217V	-0.74	-2.24	-1.58	-1.38	-1.37	-1.53	-0.85	-1.35	-0.63	-1.13	-1.22	-1.22	-1.49	-0.9	-0.9	0.73	0.4808	0.25048	0.3775	0.48008	0.25048	0.290637	0.999971	1	0.847402
Pa1a17	AO40R400	0.1	-0.35	0.33	0.37	-0.37	0	0.58	0.31	-0.33	-0.13	0.37	0	-0.7	-0.36	0.23	0.55	0.0175	-0.135	-0.1825	0.949906	0.928655	0.808981	0.999971	1	0.920364
Pa1a18	Q91B82	-0.71	-0.8	-0.6	-0.67	-1.08	-0.8	-1.25	-1.3	-0.62	-0.49	-0.27	-0.43	-0.67	-0.65	-0.55	-0.64	-0.4125	0.2425	0.1175	0.051189	0.177327	0.485139	0.999971	1	0.896688
Pa1a19	Q91B82	-1.03	-1.41	-0.56	-1.45	-1.63	-2.2	-1.68	-0.78	-1.21	-1.34	-1.94	-1.64	-1.71	-1.16	-1.23	-0.17	-0.46	-0.42	0.295	0.214066	0.157088	0.487688	0.999971	1	0.897906
Pa1a20	Q91B82	-1.36	-1.65	-0.37	-0.83	-1.26	-1.44	-0.99	-0.41	-1.55	-0.88	-0.79	-1.15	-1.34	-0.8	-0.6	0.05	-0.0475	-0.1175	0.984534	0.867357	0.43687	0.999971	1	0.897906	
Pa1a21	P97467	-0.22	-0.41	-0.18	-0.5	-0.55	-0.62	-0.26	-0.38	-0.15	-0.48	-0.74	-0.25	-0.04	-0.26	-0.08	-0.43	-0.125	-0.0775	0.165	0.504432	0.703853	0.414375	0.999971	1	0.876329
Pa1a22	Q9CQV1	0.74	-0.89	-0.66	0.29	-0.82	-0.82	-0.54	-0.17	-1.14	-0.18	-0.28	-0.8	-1.15	-1.01	-0.75	0.13	-0.4575	-0.38	-0.565	0.268569	0.413361	0.312831	0.999971	1	0.831513
Pa1a23	Q8BGF7-2	0.28	0.09	0.54	0.5	-0.39	-0.91	1.15	-0.04	-0.52	-0.5	0.38	-0.09	-0.78	-0.46	0.63	0.3	0.4	-0.49	-0.43	0.359674	0.092706	0.227901	0.999971	1	0.828598
Pa1a24	H18B71	0.64	0.03	0.13	-0.08	0.21	-0.48	-0.06	0.05	-0.18	0.3	0.16	0.4	0.31	-0.09	-0.07	0.04	-0.126373	0.164549	0.04	0.126373	0.164549	0.04	0.999971	1	0.897906
Pa1a25	Q8K466	-0.89	2.27	1.86	0.86	1.07	1.05	1.19	1.57	1.61	0.55	2.08	3.34	3.35	0.22	0.21	0.99	-0.055	-0.87	0.6175	0.936159	0.306742	0.487207	0.999971	1	0.897906
Pa1a26	Q7M753	-0.1	0.02	-0.64	-0.85	-0.37	-0.38	-0.68	-0.68	-0.29	-0.28	-0.74	-0.58	0.34	-0.33	-0.94	-0.79	-0.06	-0.08	-0.0375	0.810815	0.758549	0.914717	0.999971	1	0.992633
Pa1a27	Q8BYV4-2	-0.55	0.79	0.17	0.04	0.91	0.66	-0.12	-0.31	0.8	-0.02	-0.17	0.19	0.83	0.6	-0.09	-0.25	0.1725	0.0875	0.16	0.658232	0.799112	0.666471	0.999971	1	0.937524
Pa1a28	Q91P94	-0.89	-1.67	-1.38	-1.36	-1.08	-1.18	-1.69	-1.21	-1.52	-1.05	-1.22	-0.92	-0.17	-1.15	-1.43	0.035	-0.1474	0.3875	0.888255	0.540123	0.336352	0.999971	1	0.836827	
Pa1a29	Q9M4M-2	-0.28	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	0.1275	0.627093	0.413254	0.464655	0.999971	1	0.939301
Pa1a30	Q8C0L6	0.18	0.84	0.91	0.83	1.01	1.04	0.69	1.18	0.86	0.58	0.8	0.74	1.62	1.17	0.76	1.37	0.29	0.055	0.54	0.23779	0.380751	0.707163	0.999971	1	0.739418
Pa1a31	Q9A183	0.67	0.81	2.37	2.01	0.99	0.62	1.83	1.93	0.61	0.65	1.88	1.74	0.13	1.15	1.96	2.07	-0.1225	-0.245	0.1175	0.804491	0.631916	0.80886	0.999971	1	0.937362
Pa1a32	Q6M2N8	1	1.96	1.73	1.47	1.96	1.55	1.59	1.92	1.82	1.02	1.95	2.16	2.11	1.95	2.19	1.72	0.215	0.1975	0.4525	0.41247	0.64947	0.105002	0.999971	1	0.78208
Pa1a33	AO40R400	-0.21	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.245	0.228445	0.410478	0.25186	0.999971	1	0.847402
Pa1a34	Q91E4	-2.64	-1.12	-0.68	-1.06	-2.15	-0.61	-0.03</																		

Pde1c	Q8CDV2	0.54	-0.11	0.89	1.25	0.11	-0.47	0.58	2.94	0.51	0.43	0.64	2.07	0.45	0.59	3.01	2	0.1475	0.27	0.87	0.838564	0.557785	0.182112	0.999971	1	0.808632
Pde2a	Q5P872	-1.42	-1.2	-0.96	0.03	-1.54	-0.77	0.45	-0.35	-0.84	-0.55	-0.79	-1.01	-2.52	-1.99	-0.42	-1.63	0.535	0.29	-0.5525	0.342834	0.494375	0.344126	0.999971	1	0.862346
Pde3b	E9QLC3	-0.13	-0.11	0.15	0.96	0.34	-1.57	1.27	-0.21	0.62	0.08	0.4	1.36	0.17	0.18	-0.3	0.08	-0.245	0.375	0.1725	0.68839	0.342847	0.74071	0.999971	1	0.953135
Pde4b	Q8B984	-0.42	-0.79	-1.03	-0.55	-1.09	-1.13	-0.91	-0.73	-0.98	-0.29	-1.15	-0.92	-0.77	-0.91	-0.59	-0.56	-0.2675	-0.1375	-0.01	0.238311	0.592796	0.961929	0.999971	1	0.998721
Pde4b	Q8BVL5	-0.89	-0.7	-0.82	-0.87	-0.88	-0.93	-0.78	-0.96	-0.66	-0.66	-0.72	-0.73	-1.01	-1.21	-0.69	-0.58	-0.0675	0.1275	-0.0525	0.683326	0.428625	0.798896	0.999971	1	0.970479
Pde4b	E9PVU7	-0.13	-0.17	-0.67	-0.68	0.75	-0.12	-0.69	-0.67	1.01	-0.02	-0.59	-0.5	1.89	-0.54	-0.58	-0.47	0.23	0.3875	-0.0475	0.529011	0.327125	0.404069	0.999971	1	0.873784
Pde4b	Q8DVT7	1.1	1.59	1.88	1.36	1.63	1.57	1.56	1.3	1.79	3.5	2.08	1.68	1.65	1.17	1.85	1.47	1.52	-0.06	0.75	-0.1125	0.1674	0.737047	0.999971	1	0.927066
Pde5a	A0A0G2JF	1.74	0.05	-0.23	0.12	0.42	1.08	-0.26	1.19	0.62	1.12	0.52	-0.96	0.26	0.25	0.49	0.18	0.1875	-0.0095	0.125	0.717148	0.870284	0.750545	0.999971	1	0.963498
Pde5b	O5S057	-1.58	0.11	-0.19	-0.83	0.68	-0.68	-0.33	-0.42	1.36	-1.5	0.4	0.37	1.6	-1.18	-0.54	-0.94	0.435	0.58	0.3575	0.346607	0.383509	0.596338	0.999971	1	0.921377
Pde7a	P70453	-0.37	-0.37	1.37	1.89	0.28	-0.55	1.12	1.47	0.07	-0.09	1.43	0.95	-1.22	-0.55	1.26	1.76	-0.045	-0.295	-0.3125	0.948636	0.685937	0.707869	0.999971	1	0.950182
Pde7b	E9PW23	0.19	-0.17	0.16	0.86	-0.85	-0.15	0.64	0.23	-0.68	-0.25	0.68	0.1	0.08	-0.1	-0.23	-0.44	-0.2625	-0.2625	-0.545	0.603935	0.523441	0.559178	0.999971	1	0.963236
Pde8a	O8B502	-2.84	-1.87	-0.84	-3.74	-2.48	0.1	0.91	-3.48	-2.97	0.61	-0.35	-0.55	-2.91	1.08	-0.58	-0.5475	-0.46	-0.8375	0.170848	0.650708	0.618335	0.999971	1	0.925851	
Pde8b	E9Q86E	0.79	-1.92	-1.77	-0.62	-1.92	-1.88	1.28	-1.09	-1.74	-0.75	-1.56	-1.43	-3.12	-1.52	-1.94	-1.38	-0.025	-0.49	-1.11	0.97776	0.430005	0.126288	0.999971	1	0.783071
Pde8b.1	E9PXK8	-0.96	-1.65	0.7	-0.14	-1.47	-1.98	0.15	0.34	-1.91	-0.55	1.08	0.84	-1.68	-1.41	0.58	0.49	-0.2275	0.3775	0.0075	0.746466	0.629791	0.991607	0.999971	1	0.999525
Pde8a	A0A948BA	-0.01	-0.33	-1.45	-0.8	-0.7	-0.72	-1.8	-1.59	-0.35	-0.72	-1.7	-0.79	0.53	-0.41	-1.06	-0.82	-0.56	-0.4475	0.2025	0.152088	0.548451	0.650571	0.999971	1	0.933842
Pdf	S452X0	0.02	-0.96	-0.55	-0.71	-0.76	-0.67	-0.96	-0.16	-1.01	0.56	-0.47	-0.62	-0.17	-0.39	-0.45	0.001	-0.0875	0.165	0.305	0.757604	0.666577	0.588072	0.999971	1	0.838012
Pdghb	P2G618	-0.26	-0.86	-0.19	-0.37	-0.18	-1.19	-0.08	0.28	-0.7	-0.08	0.11	0.43	-0.68	-0.47	-1.18	-0.0575	0.1775	-0.0525	0.881992	0.611642	0.688466	0.999971	1	0.983462	
Pdghb	E9QN12	-0.24	0.88	-0.62	-0.79	0.97	0.79	-1.07	-0.94	0.91	0.48	-0.64	-0.52	0.95	0.21	-0.84	-0.7	0.13	0.25	0.0975	0.829721	0.617818	0.851413	0.999971	1	0.98187
Pdghb	P35486	-1.33	-0.83	-0.69	-0.67	-0.87	-0.93	-0.59	-0.68	-1.04	-1.47	-0.57	-0.86	-1.27	-1.02	-0.77	-0.89	0.1125	-1.0075	0.609162	0.691629	0.639266	0.999971	1	0.93301	
Pdhh	Q5D051	-1.09	-0.69	-0.87	-0.72	-0.69	-0.92	-0.95	-0.78	-0.99	-1.21	-0.94	-0.86	-0.83	-0.92	-0.71	0.0075	0.1575	0.055	0.957445	0.404344	0.764165	0.999971	1	0.961405	
Pdhh	Q8BZ9	-0.28	-0.9	-0.28	-0.14	-1.27	-0.93	-0.58	-1.18	-1.16	-0.55	-0.18	-0.21	-1.2	-0.86	-0.48	-0.17	-0.34	-0.125	-0.2775	0.272064	0.671847	0.356149	0.999971	1	0.868793
Pdhh	P27773	-0.77	-0.43	-0.17	-0.08	-0.35	-0.37	0.04	0.05	-0.12	-0.57	0.14	0.25	-0.13	-0.37	0.15	0.34	0.205	0.2875	0.36	0.386455	0.287052	0.173001	0.999971	1	0.806514
Pdha	A0A0R4M0	-0.26	-0.21	0.05	0.2	0.1	0.03	0.24	0.18	0.4	-0.04	0.54	0.52	0.57	0.09	0.24	0.45	0.1925	0.41	0.3925	0.320252	0.085317	0.084699	0.999971	1	0.758256
Pdha5	Q52135	0.61	0.46	-1.3	0.26	0.17	-0.47	-0.09	1.01	1.03	-0.61	0.02	1.23	0.59	0.75	1.21	0.0775	0.355	0.9425	0.880167	0.524553	0.059218	0.999971	1	0.752348	
Pdha5	Q3JTM0	1.91	0.7	0.55	0.88	0.24	0.85	1.08	0.71	0.49	1.23	0.55	0.55	0.5	0.66	0.61	0.77	-0.29	-0.305	0.375	0.415362	0.392312	0.555505	0.999971	1	0.839012
Pdha1	Q8BFF9	-1.16	-0.39	-0.03	-0.1	-0.5	-0.32	0.38	-0.73	-0.86	-1.22	-0.19	-0.42	-0.49	-0.94	-0.47	-0.68	0.1275	-0.2225	-0.225	0.714145	0.467272	0.449703	0.999971	1	0.885596
Pdha1	Q9K4K2	-0.77	-0.5	-0.56	-0.72	-0.38	-0.11	-0.22	-0.25	-0.21	-0.69	-0.35	-0.41	0.29	-0.18	-0.33	-0.3	0.3975	-0.2525	0.5	0.044581	0.250044	0.039413	0.999971	1	0.700838
Pdha1	Q9ZHQ2	-0.51	-0.29	-0.49	-1.04	-0.45	-0.47	-0.46	-0.95	-0.48	-0.8	-0.93	-0.55	-0.33	-0.91	-0.84	-1.17	9.81E-17	-1.0075	-0.28	0.63941	0.33486	1	1	0.858827	
Pdha	O75571	-1.62	-2.41	-0.99	-0.78	-0.75	0.13	-0.1	-0.58	-0.65	-0.49	-0.27	-1.47	-0.62	-0.72	-0.42	-0.125	0.77885	-0.0075	-0.4125	0.77885	0.441137	0.680072	0.999971	1	0.842957
Pdihm1	P70400	-1.06	-0.42	-1.27	-1.69	1.59	0.07	-0.8	-1.25	-0.05	0.54	0.16	0.52	-0.3	-0.05	-0.72	-0.58	1.0125	-0.4025	0.6975	0.12857	0.00148	0.047836	0.999971	1	0.620353
Pdihm1	O70209	-0.7	-0.68	-0.97	-0.89	3.67	0.07	-0.36	-1.75	0.19	0.37	0.92	3.44	-1.08	-0.82	-0.43	-1.81	1.1825	2.04	-0.225	0.271285	0.019148	0.469984	0.999971	1	0.892481
Pdihm1	P70721	-0.03	-0.22	0.98	1.32	0.24	-0.49	0.86	2.15	-0.7	0.19	1.46	1.58	-0.67	0.23	1.28	1.68	0.1275	0.07	0.0675	0.840276	0.910588	0.912386	0.999971	1	0.992618
Pdihm1	Q8C551	0.17	0.13	0.57	0.03	0.52	0.68	0.19	1.01	0.56	-0.47	0.14	1.04	0.4	0.39	0.31	0.4045	0.8675	0.0625	0.113832	0.03789	0.03789	0.999971	1	0.961405	
Pdihm1	Q3J7D0	-0.79	-0.69	-1.4	-1.03	4.84	0.5	-0.01	-2	0.92	3.16	3.63	5.98	-1.67	0.38	-0.94	-1.1	1.81	4.4	0.145	0.183623	0.001298	0.740048	0.999971	1	0.620353
Pdip1	A2A1P9	-1.18	-0.68	-0.82	-0.85	-0.8	-0.94	-0.95	-0.87	-1.31	-1.14	-0.89	-0.75	-1.04	-0.7	-1.07	-0.86	-0.0075	-0.14	-0.035	0.967577	0.511201	0.859596	0.999971	1	0.982702
Pdip2	O5Q4M2	-0.37	-1.14	0	-0.75	-0.9	-1	-0.09	0.21	-1.08	-0.65	-0.42	-0.01	-0.57	-0.61	-1.18	0.42	0.165	0.0025	0.42	0.671288	0.930995	0.532316	0.999971	1	0.839012
Pdip2	O522A0	0.61	0.25	-0.05	-0.54	-0.05	-0.55	-0.35	0.03	-0.18	-0.56	-0.15	-0.45	-0.15	-0.45	-0.15	0.025	0.1	0.0825	0.553407	0.655319	0.748453	0.999971	1	0.961405	
Pdip2	P70528	-0.65	-0.44	-0.9	-1.05	-0.24	-0.48	-0.46	-0.57	-0.67	-0.84	-0.89	-0.92	-0.33	-0.45	-1.23	-1.25	-0.325	-0.007	-0.055	0.143146	0.726475	0.851016	0.999971	1	0.98187
Pd5a	O6A026	1.32	1.8	1.88	2.5	1.8	1.41	1.63	1.95	1.53	1.44	1.42	2.06	1.08	1.78	2.22	2.48	-0.1775	-0.2625	0.015	0.535053	0.384366	0.968327	0.999971	1	0.998787
Pd5b	F8WHU5	-0.32	0.85	0.6	0.68	1.03	0.47	0.57	0.44	0.73	-0.21	0.57	0.76	0.56	0.58	0.175	0.01	0.16	0.567897	0.97675	0.574244	0.999971	1	0.91816		
Pd5b	A0A0R4G3	0.78	1.78	1.46	0.97	1.65	1.34	1.38	1.15	1.58	0.91	1.48	1.85	1.4	1.49	1.38	1.26	0.1575	0.0075	0.135	0.562919	0.905228	0.603759	0.999971	1	0.934544
Pdha	Q8B181	-0.59	-0.36	-0.1	0.36	-0.28	0.02	-0.09	-0.01	-0.29	-0.01	-0.42	-0.55	-0.29	-0.01	-0.23	-0.555	-0.1775	0.394463	0.175628	0.056268	0.999971	1	0.961405		
Pdhp	P60487	0.12	1.49	0.6	0.61	1.19	1.37	0.35	0.96	0.91	0.6	0.6	1.62	1.33	0.93	1.1	0.2625	-0.2025	0.54	0.46605	0.835914	0.122856	0.999971	1	0.78268	
Pdyn	O3S852	-0.08	-0.79	-1.59	-0.65	-0.26	-0.51	-0.93	-0.39	0.16	-0.39	-1.46	-0.42	0.54	-0.15	0.2	-0.76	0.385	0.25	0.735	0.328585	0.569428	0.09342	0.999971	1	0.776565
Pdhd11	Q9C9J9	-1.08	-1.31	-1.61	-1.45	-1.17	-0.89	-1.35	-1.13	-1.13	-0.43	-1.52	-1.63	-0.57	-0.88	-1.32	-1.11	0.2275	0.185	0.3925	0.279581	0.543154	0.119602	0.999971	1	0.78268
Pdhd1	E9J1M1	-0.01	-0.16	-0.1	-0.16	-0.18	-0.15	-0.1	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.1225	0.560291	0.707442	0.699972	0.999971	1	0.961405
Pdhd4	A2AFG3	1.07	-0.46	-1.34	-1.63	-0.62	-0.41	-0.84	-0.98	-0.67	-1.14	-1.17	-1.39	0.06	-0.33	-1.43	-2.44	-0.1225	-0.0675	-0.445	0.829159	0.528894	0.555933	0.999971	1	0



Prim8A8	Q80V48	-0.15	-0.89	-1.74	-1.41	-0.86	-1.02	-1.33	-1.84	-1.15	-0.25	-1.67	-1.14	-1.05	-0.72	-1.35	-1.28	-0.215	-0.005	-0.0525	0.586165	0.990742	0.885697	0.999971	1	0.98711	
Prim8B0	G33X93	1.78	0.77	0.94	1.19	1.05	0.9	1.61	1.39	0.94	1.18	1.05	1	0.48	0.68	1.14	1.11	0.0675	-0.1275	-0.3175	0.813822	0.615016	0.280857	0.999971	1	0.846151	
Pnn	G35691	2.12	0.67	-0.15	0.43	-0.73	-0.45	0.48	-0.12	-0.56	1.56	-0.07	-0.19	-0.75	-0.19	-0.67	-0.33	0.11	-0.7625	-0.1	-1.6025	0.280435	0.613203	0.121433	0.999971	1	0.78268
Prim01	Q80V37	0.16	-1.82	-1.13	-0.56	-0.81	-2.76	-0.62	-1.24	-1.81	-1.01	-0.9	-1.53	-2.35	-2.6	-1.38	-1.16	-0.52	-0.475	-1.535	0.386436	0.303196	0.051369	0.999971	1	0.613095	
Pnc	Q64387	-0.49	-0.21	-0.67	-1.71	0.3	0.22	-1.56	-1.49	-0.08	0.21	-0.73	-0.35	-0.08	1.01	-0.06	-1.1	0.1375	0.5325	0.7125	0.806264	0.178554	0.180516	0.999971	1	0.808532	
Prim02	Q54K39	0.54	0.4	0.47	0.23	0.41	0.43	0.69	0.68	0.07	0.35	0.66	0.48	0.05	0.16	0.44	0	0.6	0.1425	-0.02	-0.0975	0.437419	0.919015	0.630157	0.999971	1	0.932649
Prim03	Q80J56	3	-1.76	-5.49	1.29	2.44	-1.52	-5.49	3.56	1.18	-0.07	-4.61	0.86	1.19	3.8	-5.91	0.31	1.25	0.1235	-0.2875	-0.6525	0.006259	0.899434	0.738097	0.999971	1	0.963877
Prim04	A01A02H1	-0.18	-0.37	-0.19	-0.2	-0.34	-0.18	-0.24	-0.32	0.4	-0.15	-0.35	-0.16	-0.43	0.01	-0.02	-0.12	-0.035	-0.3	0.105	0.831929	0.857564	0.577298	0.999971	1	0.918236	
Prim05	A2A18B-2	-2.44	-0.96	0.68	0.05	-0.66	-0.88	0.12	0.65	-1.54	-0.06	-0.24	0.97	-1.4	-1.3	0.78	0.91	0.495	0.07	0.415	0.478753	0.937399	0.621999	0.999971	1	0.929641	
Prim06	Q8K1N1	-0.67	-0.91	0.54	-0.68	-0.75	-0.79	-0.32	-0.35	-0.71	-0.26	-0.66	-0.54	-0.22	-0.46	-0.44	0.15	0.1475	0.1575	0.3825	0.474816	0.414761	0.063772	0.999971	1	0.725348	
Prim07	Q31XV0	-0.27	-0.71	-0.55	-1.26	-1.21	-1.19	-0.45	-0.48	-0.12	-0.56	-0.16	-0.79	-1.29	-0.67	-0.33	0.11	-0.7625	-0.1	-0.75	0.75	0.8441	0.330566	0.999971	1	0.979416	
Prim08	Q8K1B3	-0.18	-0.78	-0.68	-0.8	-1.07	-1.02	-0.77	-0.95	-0.37	-0.52	-0.5	-0.78	-0.46	-0.78	-0.46	0.79	-0.145	0.18	0.02	0.478985	0.401708	0.051369	0.999971	1	0.85633	
Prim09	Q90R04	-1.44	-1.33	1.2	0.83	2.57	1.22	1.04	1.03	2.18	-0.9	1.79	1.77	2.71	1.34	0.81	0.95	0.985	0.7	1.2225	0.170376	0.410106	0.100319	0.999971	1	0.78268	
Prim10	G33X93	-0.5	-0.74	-1.43	-1.19	-0.69	-0.34	-0.89	-1.37	-0.29	-0.39	-0.89	-0.94	0.83	0.12	-0.51	-0.67	0.1425	0.3375	0.9075	0.646569	0.252015	0.041114	0.999971	1	0.700838	
Prim11	A2AMC3	-1.85	-1.24	-1.03	-1.32	-0.32	-1.13	-0.66	-1.03	-0.89	-1.52	-1.52	-1.08	-0.92	-0.24	-0.73	-1.23	0.55	0.1075	0.58	0.077311	0.678784	0.068177	0.999971	1	0.737897	
Prim12	Q8H1D2	-0.12	-0.02	-1.02	-0.44	-0.13	1	-0.53	1.29	1.23	1.21	1.18	2.28	1.1	0.89	1.14	0.225	1.4875	1.69	0.440035	0.000568	0.001025	0.999971	0.448430	0.999971	1	0.944340
Prim13	Q8H1B9	-0.1	0.59	1.42	1.26	0.54	1.03	0.77	1.48	0.91	-0.99	1.42	1.69	1.34	1.1	1.37	1.39	0.1625	0.46	0.5075	0.675491	0.246772	0.170999	0.999971	1	0.803758	
Prim14	G5E887	-1.98	-0.59	-0.08	0.5	-0.45	-0.8	-0.3	-0.07	-1.11	0.3	0.27	-0.89	-0.53	0.59	0.98	0.1325	0.2	0.575	0.795301	0.735777	0.373437	0.999971	1	0.869657		
Prim15	D31VU8	0.8	-0.04	-0.21	-0.28	-0.04	-0.2	-0.17	-0.33	-0.04	-0.41	-0.68	-0.45	-0.84	-0.08	-0.23	-0.2	-0.2525	-0.2575	-0.43	0.368732	0.458995	0.184667	0.999971	1	0.809025	
Prim16	Q8K409	1.83	2.03	1.72	2.06	1.91	1.89	2.01	2.05	1.41	2.16	1.78	1.88	2.04	1.77	1.72	2.34	0.055	-0.1525	-0.0175	0.754446	0.489189	0.946932	0.999971	1	0.907851	
Prim17	A8Y57	0.24	-0.32	0.43	0.95	-0.41	-0.71	1	1.64	-0.08	-0.44	1.76	2.01	-0.31	-0.19	0.92	1.65	0.08	0.4875	0.1925	0.889332	0.441123	0.700476	0.999971	1	0.948864	
Prim18	G31V46	0.09	-0.17	-0.39	-0.6	-0.21	-0.22	0.09	-0.72	-0.33	-0.37	-0.53	-0.63	-0.39	-0.45	-0.51	-0.57	0.0025	-0.1975	-0.2125	0.99205	0.359969	0.019498	0.999971	1	0.853962	
Prim19	Q8G881	1.32	0.47	0.74	1.1	0.7	0.53	0.61	1.39	0.35	1.13	0.85	0.94	0.32	0.68	1.05	1.02	-0.1	-0.09	-0.14	0.727424	0.739023	0.611307	0.999971	1	0.92673	
Prim20	Q75VX0	-1.16	-0.64	2.73	2.39	-1.43	-2.02	2.49	2.6	-1.4	-2.16	2.38	1.38	-2.86	-1.7	1.38	3.05	-0.42	-0.78	-0.8625	0.767045	0.560213	0.569862	0.999971	1	0.91816	
Prim21	Q50XK2	4.96	2.17	3.84	3.4	2.79	2.98	4.71	0.87	2.13	1.4	-0.31	0.35	-0.89	0.26	2.89	-0.69	-0.78	-2.225	-3.225	0.383646	0.037336	0.007166	0.999971	1	0.582714	
Prim22	P52432	3.53	0.64	0.13	0.34	0.39	0.15	0.02	0.91	-0.1	1.87	0.37	0.42	1.04	0.23	0.67	1	-0.7925	-0.52	-0.425	0.300222	0.529497	0.569037	0.999971	1	0.91816	
Prim23	P73P04	3.11	0.71	2.2	1.89	-0.46	0.46	1.98	1.48	0.06	1.98	0.95	-1.51	-1.79	0.14	1.73	0.41	-1.1125	-1.6075	-1.855	0.12214	0.070884	0.041224	0.999971	1	0.700838	
Prim24	J73Y17	-0.53	0.33	-0.67	-1.16	-0.05	-0.28	-1.29	0.06	-0.16	-0.37	0.11	0.47	0.2	-0.02	-0.44	-0.78	0.1175	0.52	0.2475	0.757329	0.165974	0.380133	0.999971	1	0.905815	
Prim25	A04M04V0	0.66	0.24	0.66	0.22	0.07	0.04	0.11	-1.03	-1.41	-0.97	-1.32	1.11	-1.17	-1.13	-1.26	0.19	-0.1275	-0.0025	0.515708	0.847004	0.988832	0.999971	1	0.885546		
Prim26	Q8C717	0.46	0.6	0.92	0.86	0.67	0.42	0.82	0.81	0.74	0.63	0.89	0.68	0.4	0.22	0.88	0.92	-0.03	0.025	-0.105	0.881152	0.893543	0.662617	0.999971	1	0.936148	
Prim27	P73P07	0.37	0.11	0.2	0.42	0.12	-0.51	0.31	0.65	-0.41	0.9	0.22	0.69	1.5	0.63	0.24	0.66	0.0925	0.075	0.4825	0.781376	0.806161	0.121356	0.999971	1	0.78268	
Prim28	Q97M88	0.55	0.97	0.25	0.5	0.63	1	0.03	0.15	0.2	0.97	0.05	0.2	-0.82	1.49	0.49	0.72	-0.115	-0.2125	-0.0975	0.688048	0.441231	0.833864	0.999971	1	0.979185	
Prim29	Q8UW48	0.36	0.15	0.69	0.21	0.4	-0.13	0.67	0.59	0.09	0.23	0.55	0.08	0.4	0.68	0.8	0.41	0.08	0.14	0.2	0.423765	0.991251	0.131219	0.999971	1	0.979185	
Prim30	PE4288	0.4	0.46	0.14	-0.08	0.67	0.3	-0.26	-0.26	0.88	0.24	-0.35	0.31	1.45	0.7	-0.07	0.02	-0.1175	0.04	0.295	0.672305	0.890645	0.428123	0.999971	1	0.880793	
Prim31	Q923G2	0.81	0.9	0.76	0.87	1.48	2.22	0.63	0.94	1.02	1.01	1.08	0.01	0.62	0.61	0.86	0.64	0.4285	-0.055	-0.1525	0.185723	0.841503	0.376	0.999971	1	0.870465	
Prim32	D31Z20	-0.01	-0.26	1.13	-0.19	-0.39	-0.3	0.97	1.41	-0.55	0.12	0.64	0.36	-0.41	0.35	1.22	0.06	-0.37	-0.35	-0.2175	0.895989	0.418033	0.648173	0.999971	1	0.933842	
Prim33	PE4278	-0.27	0.19	-0.43	0.26	-0.06	-0.8	-0.11	0.63	0.18	0.1	0.43	0.78	-0.89	-0.1	0.31	0.175	0.0875	0.0075	0.0825	-0.500817	0.757884	0.602889	0.999971	1	0.979185	
Prim34	Q8M26	1.56	-0.63	-0.37	-0.19	0.07	0.1	0.83	-0.24	0	1.18	-0.1	-0.43	-1.65	-0.74	-0.47	-0.61	0.0975	0.07	-0.56	0.847246	0.900788	0.93366	0.999971	1	0.776565	
Prim35	A0A3B2WE	0.42	1.17	0.76	0.62	1.72	1.7	1.33	-0.03	1.66	0.8	0.74	1.71	2.25	0.4	0.54	0.8	0.4375	0.485	0.255	0.312619	0.147098	0.557244	0.999971	1	0.915051	
Prim36	B2RKC6	-0.45	1.19	1.45	1.24	1.37	0.7	1.1	1.76	0.51	-0.62	1.57	1.51	0.29	0.71	1.22	1.52	0.375	-0.115	0.0775	0.425183	0.852928	0.872284	0.999971	1	0.984109	
Prim37	PE5470	-0.16	0.6	1.53	1.4	0.62	1.16	1.12	1.44	0.35	0.58	1.41	1.43	-0.02	0.44	1.36	1.75	-0.0925	0.055	-0.045	0.820726	0.976071	0.925965	0.999971	1	0.98401	
Prim38	Q8C485	1.38	2.1	1.75	1.25	2.27	2.14	4.39	1.92	0.46	2.53	0.27	0.91	0.38	1.21	0.27	0.2	0.040625	0.297442	0.02	0.040625	0.297442	0.980822	0.999971	1	0.979185	
Prim39	Q91W01	-2.48	3.48	0.79	0.37	0.43	2.64	0.79	0.82	3.28	-0.92	0.67	1.27	4.59	2.83	0.29	0.49	1.525	0.53	0.505	0.254296	0.698284	0.302646	0.999971	1	0.847402	
Prim40	Q9C274-2	1.24	0.46	1.3	1.36	0.95	0.02	0.75	1.67	1.01	0.71	1.35	1.69	1.19	0.34	1.29	1.46	-0.2425	0.1	-0.02	0.533187	0.743846	0.951316	0.999971	1	0.998056	
Prim41	Q9ZC11	-0.28	1.21	1.03	1.64	1.63	0.81	1.05	0.81	1.1	0.51	1.35	1.3	1.44	1	1.07	1.15	0.165	0.265	0.688017	0.70385	0.919068	0.999971	1	0.905934		
Prim42	Q8K451	-0.27	-0.18	-0.38	-1.13	-1.23	-1.44	-1.03	-1.41	-1.31	-0.97	-1.32	1.11	-1.17	-1.13	-1.26	0.19	-0.1275	-0.0025	0.515708	0.847004	0.988832	0.999971	1	0.885546		
Prim43	Q8K329	1.45	-1.04	0.09	0.69	-0.76	-0.39	0.2	-0.06	-0.74	-0.53	-1	-0.79	-0.73	-0.76</												

PppSc	Q60676	-0.78	0.72	0.77	0.51	0.6	0.85	0.6	0.71	-0.29	-0.64	-0.06	-1.41	-0.55	-0.32	-0.06	-0.12	0.385	-0.905	-0.5675	0.302963	0.068122	0.152857	0.999971	1	0.795578	
PppSc	Q9C0R6	-0.57	-1.21	-0.11	-0.45	-1.12	-1.03	-0.23	-0.32	-0.62	-0.96	-0.06	-0.2	-1.42	-1.13	-0.23	-0.29	-0.0925	0.1225	-0.185	0.77289	0.696627	0.018008	0.999971	1	0.925881	
Pppd1	Q7T51	0.02	0.53	0.34	0.43	0.07	0.5	0.78	0.56	0.74	-0.22	0.1	0.51	0.59	0.23	0.38	0.77	0.3	0.1625	0.141378	0.90645	0.51303	0.999971	1	0.878186		
Pppd2	Q8R3Q2	-0.33	0.03	0.21	0.02	0	0.02	0.09	0.26	-0.07	-0.45	0.06	-0.03	0.19	0.09	0.25	0.11	0.11	0.1775	0.571233	0.615527	0.539865	0.999971	1	0.869526		
Pppd3	G588R4	0.06	0.55	0.17	0.09	0.38	0.27	-0.02	0.12	0.32	0.03	0.3	0.52	0.6	0.24	0.15	0.35	-0.03	0.1175	0.881147	0.71259	0.56997	0.999971	1	0.918186		
Pppd3	A0A28BVC1	-0.05	1.01	0.58	1.62	-0.44	0.09	0.63	1.23	0.15	-1.72	0.38	1.84	1.31	-1.06	1.22	1.43	-0.4125	-0.065	0.389794	0.404238	0.917895	0.999971	1	0.99233		
Pp1	Q8E531	-0.52	0.11	-0.31	-0.35	0.08	1.39	0.26	0.63	0.25	-0.61	-0.46	-0.23	1.67	1.34	0.65	1.2	1.1075	0.4575	0.90425	0.59431	0.000456	0.999971	1	0.312308		
Pp67	Q8NV9P	-1.43	0.25	0.78	0.37	0.53	0.18	0.82	1.19	0.71	-0.84	0.94	1.39	0.9	0.03	1.02	0.49	0.6875	0.5075	0.188166	0.386663	0.23624	0.999971	1	0.832198		
Ppww1	Q8CEC6	0.94	1.3	-0.44	-0.7	1.02	0.81	-0.33	-0.3	0.89	0.63	-0.48	-0.35	-0.01	1.16	-0.38	-0.53	-0.025	-0.215	0.964414	0.854119	0.709236	0.999971	1	0.950625		
Ppbg1	Q8NV45	1.53	1.97	1.38	1.59	2	1.04	0.69	1.55	1.47	1.59	1.23	1.32	1.65	1.7	1.43	1.89	-0.3075	-0.215	0.5	0.34231	0.301739	0.811415	0.999971	1	0.973864	
Ppdc1	A0A0N4V8	-0.51	-0.58	-0.87	-1.18	-1.77	-1.18	-0.37	-0.58	-1.01	-0.48	-0.53	0.54	-0.74	-0.54	-0.74	-0.54	-0.74	-0.54	-0.74	-0.54	-0.74	-0.54	-0.74	1	0.978186	
Pp2	Q8U6C8	0.26	-0.56	-0.19	-0.24	-0.27	0.39	0.36	0.3	-0.12	0.65	0.0	0.33	0.46	0.29	0.07	0	0.1975	0.4075	0.3875	0.477184	0.144361	0.126204	0.999971	1	0.878186	
Pp1	Q5714	0.77	-0.46	-0.18	-0.48	-0.59	-0.02	-0.38	-0.61	-0.76	0.34	-0.38	-0.79	-0.44	-0.38	-0.62	-0.67	-0.3125	-0.31	-0.5175	0.34931	0.425405	0.124284	0.999971	1	0.78268	
Ppcc	Q9EQC8	3.48	2.3	2.89	3.4	1.83	2.07	3.16	2.48	1.74	2.45	2.35	1.96	0.64	1.9	2.32	2.67	-0.5925	-0.8525	-1.0925	0.140753	0.021484	0.045493	0.999971	1	0.710202	
Ppdp	Q7TMM0	0.23	1.59	1.09	1	0.69	0.68	0.68	1.15	0.18	0.88	0.85	0.4	0.63	0.45	0.28	0.79	-0.1775	-0.45	-0.44	0.569916	0.181856	0.178133	0.999971	1	0.805532	
Ppdm2	A2A7B5	-4.12	-0.33	-1.6	-0.27	-0.06	-0.12	-0.18	-0.38	1.8	-1.69	-1.59	0.2	1.06	-1.75	1.18	-0.8025	-0.2225	-0.735	0.472588	0.884367	0.569077	0.999971	1	0.918551		
Pp1	P35700	-0.16	0.15	0.24	0.44	-0.05	-0.49	0.21	0.97	-0.07	-0.44	0.49	0.7	0.07	-0.07	0.67	1.1	0.0675	0.0775	0.35	0.845158	0.800036	0.282945	0.999971	1	0.844538	
Pp2	G61171	0.19	0.34	0.48	0.52	0.5	0.68	0.34	0.48	0.28	0.33	0.24	0.41	0.01	0.92	0.56	0.65	0.1175	-0.0675	0.1475	0.520338	0.691468	0.566631	0.999971	1	0.911398	
Pp3	P20108	-0.75	-0.49	-0.22	-0.42	-0.6	-0.38	-0.25	0.08	-0.81	-0.83	0	0.39	-0.28	-0.42	0.12	0.01	0.1825	0.1575	0.3275	0.420041	0.5287	0.153066	0.999971	1	0.795578	
Pp4	Q08807	-0.35	-0.55	-0.11	-0.26	-0.24	-0.4	0	-0.33	-0.02	-0.19	-0.17	0.1	0.09	0.2	0.26	0.19	0.2375	0.5275	0.353919	0.240507	0.02621	0.999971	1	0.678474		
Pp5	P99027-2	-1	-0.23	0.2	-0.22	-0.21	-0.66	0.73	-0.02	-0.54	-1.11	0.09	0.67	0.16	-0.51	-0.06	-0.32	0.2725	0.09	0.13	0.469685	0.836187	0.665749	0.999971	1	0.937078	
Pp6	G6G724	-1.37	-1.96	-0.07	-0.05	-1.6	-1.93	-0.1	-0.03	-1.79	-2.32	-0.21	0.14	-2.56	-1.86	-0.21	0.03	-0.0525	-0.1825	-0.2875	0.93318	0.793629	0.689199	0.999971	1	0.945805	
Pp7	Q9WU02	0.32	-0.16	-0.02	-0.07	-0.19	-0.01	0.12	-0.41	0.17	0.08	-0.09	-0.37	0.04	-0.03	0.26	0.015	-0.08	-0.0425	0.93761	0.705809	0.843673	0.999971	1	0.979814		
Pp8	A0A0N4B9	-0.24	-0.64	-0.41	0.16	-0.64	-0.65	0.09	0.39	-0.66	-0.49	-0.3	-0.7	-0.11	-0.13	-0.34	-0.02	-0.015	-0.225	0.1325	0.557632	0.281021	0.558527	0.999971	1	0.915051	
Pp9	Q9K53	0.81	1.79	0.12	0.7	5	1.41	0.28	0.91	1.46	2.17	0.63	2.29	-1.06	2.01	0.8	0.76	0.59	0.7825	-0.6075	0.618189	0.132226	0.407779	0.999971	1	0.874911	
Pp10	Q9UR6	-0.01	0.21	0.07	0.08	0.26	0.3	0	0.41	0.48	0.16	0.25	0.18	0.45	0.37	0.26	0.47	0.155	0.18	0.3	0.39624	0.307166	0.101063	0.999971	1	0.78268	
Pp11	Q8C167-2	-0.05	1.44	0.96	0.49	1.41	1.54	0.82	1.07	1.32	-0.11	0.76	0.86	2.31	1.74	1.43	1.13	0.5	-0.0025	0.9425	0.17951	0.995204	0.037055	0.999971	1	0.700096	
Pp12	Q8U6C8	-0.46	-0.15	0.19	-0.11	0	-0.5	0.85	-0.21	0.16	-0.23	0.41	0.55	0.17	-0.41	0.08	0.05	0.0675	0.3575	0.105	0.797287	0.170569	0.645372	0.999971	1	0.93301	
Pp13	Q3AC4	-1.02	0.6	-0.69	-1.6	-0.4	-0.51	0.1	-0.08	-0.21	-0.49	-0.47	0.36	-0.22	-0.29	0.1	0.1	0.22	0.078478	0.142177	0.1	0.5637	0.999971	1	0.878186		
Pp14	Q913U7	0.1	-1.49	-1.65	-1.95	-1.71	-1.02	-1.57	-1.33	-1.57	-0.4	-1.47	-1.91	-1.26	-1.11	-1.84	-1.32	-0.16	-0.09	-0.135	0.74889	0.862395	0.767703	0.999971	1	0.962472	
Pp15	G61171	-0.68	-1	-0.88	-0.97	-1.16	-0.81	-0.9	-0.59	-1.12	-0.43	-0.71	-0.97	-0.69	-0.82	-0.75	-0.62	0.0175	0.075	0.1625	0.295968	0.725281	0.362152	0.999971	1	0.869526	
Pp16	Q3UT07	-1.08	-0.41	-0.53	-0.65	-0.67	-0.66	-0.91	-0.58	-0.15	-0.86	-0.61	-0.95	-0.66	-0.16	-0.55	-0.84	0.73	0.1125	0.1	0.175	0.660303	0.677634	0.153551	0.999971	1	0.910707
Pp17	Q8R9K8	-0.48	-0.9	-0.4	-0.9	-0.4	-0.9	-0.4	-0.9	-0.4	-0.9	-0.4	-0.9	-0.4	-0.9	-0.4	-0.9	0.1775	0.3115	0.1775	0.3115	0.1775	0.3115	0.999971	1	0.869526	
Pp18	Q8R9K8	-0.47	-0.35	-0.47	-0.72	-0.27	-0.52	-0.53	-0.49	-0.47	-1.1	-0.48	-0.19	-0.07	-0.54	-0.71	-0.83	0.05	-0.0575	-0.035	0.78055	0.809503	0.876715	0.999971	1	0.985129	
Pp19	G6PAM0	-2.29	-2.45	-1.36	-1.44	-1.49	-2.78	0	-1.3	-1.24	-2.34	-0.95	-0.59	-1.33	-2.53	-1.4	-1.18	0.4925	0.6075	0.275	0.406314	0.197737	0.499347	0.999971	1	0.903717	
Pp20	P05132	0.28	-1.49	-0.28	-0.29	-1.61	-0.58	1.32	-0.62	-0.98	-0.48	-0.47	-0.62	-1.5	-1.6	-0.28	-0.13	0.0725	-0.1925	-0.6825	0.911213	0.614009	0.155484	0.999971	1	0.795578	
Pp21	P61819	-0.09	-0.25	-0.51	-0.13	-0.22	-0.72	-0.46	-0.36	-0.39	-0.02	-0.14	0.02	0.1	0.07	0.1	0.1	0.0475	0.145	0.3625	0.850246	0.213495	0.682236	0.999971	1	0.869526	
Pp22	Q5A950	-0.11	0.36	0.22	-0.13	0.15	0.39	0.05	0.06	0.01	-0.02	0.47	0.49	0.23	0.22	0.1	0.43	0.0525	-0.1525	0.16	0.799669	0.501841	0.431499	0.999971	1	0.881643	
Pp23	Q91W05	-0.44	-0.28	-0.23	-0.81	-0.46	-0.34	-0.51	-0.56	-0.39	-0.46	-0.51	-0.25	-0.48	-0.32	-0.47	-0.59	-0.0275	-0.035	0.88992	0.849784	0.90102	0.999971	1	0.990759		
Pp24	Q90B07	-1.28	-1.92	-0.1	-0.03	-1.76	-1.87	-0.27	-1.66	-1.79	-0.08	-0.59	-2.6	-2.04	-0.01	-0.1	-0.1975	-0.1975	-0.3325	0.739101	0.730789	0.6549	0.999971	1	0.934601		
Pp25	P12489	-0.03	1.18	1.44	0.36	0.66	0.78	1.15	0.2	1.04	1.48	1.1	-0.65	0.58	0.23	0.56	0.65	-0.04	0.0005	-0.2325	0.915477	0.949235	0.513193	0.999971	1	0.905815	
Pp26	Q8C1M3	-0.87	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	0.11	0.487127	0.780347	0.79947	0.9061	0.999971	1	0.905815		
Pp27	Q8C1M3	-0.87	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	0.11	0.487127	0.780347	0.79947	0.9061	0.999971	1	0.905815		
Pp28	Q8C1M3	-0.87	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	0.11	0.487127	0.780347	0.79947	0.9061	0.999971	1	0.905815		
Pp29	Q8C1M3	-0.87	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	0.11	0.487127	0.780347	0.79947	0.9061	0.999971	1	0.905815		
Pp30	Q8C1M3	-0.87	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	0.11	0.487127	0.780347	0.79947	0.9061	0.999971	1	0.905815		
Pp31	Q8C1M3	-0.87	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	0.11	0.487127	0.780347	0.79947	0.9061	0.999971	1	0.905815		
Pp32	Q8C1M3	-0.87	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08	-0.07	-0.08</																

Pume3	P61290	0.96	2.51	2.11	2.46	2.33	2.11	1.86	1.95	2.32	1.52	2.28	2.49	2	2.09	2.24	2.47	0.0525	0.1425	0.19	0.885692	0.724363	0.606485	0.999971	1	0.925106	
Pume3p1	Q91WE2	1.1	2.27	1.94	2.22	2.07	1.91	1.54	1.94	2.03	1.62	2.17	2.12	1.73	2.01	2.06	2.11	-0.0175	0.1025	0.095	0.953882	0.737064	0.747818	0.999971	1	0.961064	
Pume4	Q55SW2	0.06	0.26	0.43	0.56	0.05	-0.08	-0.5	-0.46	-0.29	0.2	-0.16	-0.06	0.4	-0.22	-0.31	0.29	0.14	0.38	0.2175	0.624976	0.199125	0.43615	0.999971	1	0.882149	
Pumf1	Q91H8L	-0.49	1.03	0.43	0.46	0.7	0.9	0.42	0.3	0.46	0.66	0.26	0.31	0.59	0.81	0.72	0.57	0.68	0.095	0.3	0.27	0.784288	0.929304	0.422978	0.999971	1	0.878787
Pumg1	Q91K23	0.88	1	-1.35	-1.12	1.07	0.99	-1.07	-0.83	0.62	0.86	-0.89	-0.98	0.12	1.09	-0.85	-1.25	0.1875	0.5	-0.075	0.807015	0.944835	0.915192	0.999971	1	0.992633	
Pumg2	Q9E5T4-3	0.66	0.49	0.78	0.99	0.6	0.68	0.35	1.12	0.44	0.49	0.2	0.43	-0.09	0.88	1.03	0.67	-0.0425	-0.34	-1.075	0.851337	0.097357	0.706641	0.999971	1	0.950182	
Pumj1	Q9CJH3	-0.76	1.99	0.39	0.34	2.33	0.38	0.51	-0.47	1.31	-0.37	0.31	0.09	-0.09	-0.44	1.46	-0.49	0.31	0.097123	0.1	0.097123	0.848764	0.7148	0.999971	1	0.952527	
Pupc1	Q8R326	1.12	2.24	2.44	2.3	2.53	1.66	2.09	2.36	2.14	1.3	2.26	2.3	2.44	2.15	2.29	2.27	0.135	-0.025	0.2625	0.702345	0.946631	0.414059	0.999971	1	0.876329	
Puph	Q91SL3	-0.3	0.21	-0.33	0.08	-0.01	-0.31	-0.48	0.04	-0.35	-0.87	0.09	-0.17	-0.5	-0.14	-0.31	-0.33	-0.105	-0.24	-0.235	0.642194	0.375062	0.757669	0.999971	1	0.843794	
Purc1	A2AEF3	0.81	0.51	0.23	0.96	1.21	0.59	1.72	1.33	1.49	0.09	-0.23	0.01	-0.78	-0.81	-0.48	-0.93	0.585	-0.2875	-1.3775	0.073884	0.483076	0.000219	0.999971	1	0.247672	
Purc2	A04A48B9	-0.26	0.23	0.06	0.96	0.15	0.57	0.77	0.05	0.77	0.08	-0.26	-0.48	-0.87	0.18	0.26	-0.48	0.075	0.356701	0.0875	0.936701	0.376769	0.913282	0.999971	1	0.900158	
Pupb1	Q8BGU3	0.53	0.26	1.13	0.97	0.5	0.08	1.85	0.44	0.31	0.35	0.85	0.83	0.04	0.33	0.91	0.02	-0.005	-0.175	-0.4175	0.990378	0.605939	0.192324	0.999971	1	0.810547	
Pupb2	Q91Z131	2.03	2.07	2.06	2.4	1.77	1.82	2.24	2.2	1.64	1.66	2.09	1.62	1.52	1.67	2.03	1.78	-0.1325	-0.3875	-0.39	0.523407	0.7	0.0765	0.999971	1	0.748444	
Pupb2_1	A0A0G2JF	1.12	2.2	0.73	1.71	2.73	-1.65	1.32	1.58	1.44	1.7	2.83	2.01	1.63	1.75	-0.35	2.97	-0.445	0.555	0.06	0.617251	0.210178	0.930472	0.999971	1	0.994444	
Pupb3	Q81T4	2.38	1.37	1.13	0.95	1.22	1.89	1.08	1	1.58	2.39	0.92	0.86	0.87	1.01	1.14	1.17	-0.16	-0.02	-0.435	0.664807	0.964623	0.205323	0.999971	1	0.816588	
Pcd1	Q8C154	-0.32	0.56	0.03	-0.49	-0.16	-0.47	-0.38	-0.74	0.14	-0.12	-0.53	-0.3	0.02	-0.18	-0.55	0.05	-0.1225	-0.0025	-0.12	0.439537	0.736079	0.581896	0.999971	1	0.928851	
Pcd2	Q8R3K3	0.2	0.62	-0.3	-0.2	0.37	0.41	-0.47	-0.12	0.29	0.26	-0.56	-0.62	0.77	0.82	-0.25	0.04	-0.0325	-0.2375	0.265	0.914871	0.473986	0.405074	0.999971	1	0.883277	
Pcd3	Q14C51	-0.12	0	-0.55	-0.57	-0.01	-0.16	0.32	-0.59	-0.01	-0.67	-0.7	-0.34	0.29	-0.27	-0.28	-0.32	0.2	-0.12	0.165	0.452426	0.627851	0.494781	0.999971	1	0.902907	
Pcd31	Q9H412	-1.48	1.36	-2.5	-2.47	1	0.73	-1.6	-0.24	1.01	-0.69	-2.27	-1.87	0.41	1.17	-1.92	-2.06	0.795	0.317	0.6725	0.469494	0.762863	0.541931	0.999971	1	0.911197	
Pcd32	Q921K2	-1.6	0.02	0.29	0	0.36	0.17	0.29	0.98	0.49	-0.08	0.88	-0.25	0.36	0.52	0.71	0.71	0.7725	0.575	0.9	0.106649	0.325251	0.056187	0.999971	1	0.725348	
Pten	Q08S86	-0.52	0.16	0.21	-0.08	0.22	0.52	0.26	0.14	0.16	-0.24	0.39	0.05	-0.02	0.15	0.22	0.02	0.3425	-0.1475	0.15	0.155422	0.54558	0.502079	0.999971	1	0.904573	
Pter	A2AUR3	0.18	0.13	-0.43	0.04	0.12	-0.12	-0.5	-0.14	-0.45	0.22	-0.4	0.11	-0.41	0.05	-0.32	0.06	-0.12	-0.09	-0.115	0.600924	0.717072	0.613607	0.999971	1	0.927364	
Pgds	Q09114	2.15	3.3	3.12	3.31	3.36	3.17	2.94	3.11	3.34	3.09	3.21	-1.13	1.73	3.6	3.27	3.37	0.175	-0.8425	0.0225	0.561945	0.413173	0.962185	0.999971	1	0.998721	
Pgds2	Q8BVM0	-0.84	-1.04	-0.27	-0.1	-1.07	-1.09	-0.06	-0.28	-0.52	-0.67	-0.33	-0.39	-1.33	-1.22	-0.44	-0.58	-0.0625	-0.015	-0.33	0.855737	0.956855	0.174788	0.999971	1	0.853845	
Pgds3	Q8R007	-0.3	1.38	1.84	1.41	1.58	1.51	2.46	1.88	1.12	0.09	2.66	1.54	0.68	1.61	2.45	1.51	0.775	0.25	0.73	0.135741	0.33179	0.15745	0.999971	1	0.797252	
Pgflm	Q9WV01	-0.64	-0.85	-0.66	-0.36	-0.79	-0.6	-0.23	-0.37	-0.65	-0.49	-0.2	-0.51	-0.02	-0.6	-0.46	0.06	0.13	0.165	0.3725	0.540687	0.40836	0.132134	0.999971	1	0.784948	
Pgflm	Q8RXC0	0.53	1.56	-1.35	-0.43	4.66	1.11	-1.29	-1.09	1.24	0.94	1.82	2.92	1.97	1.12	2.04	-1.61	0.77	2.1525	0.3525	0.570867	0.011788	0.69227	0.999971	1	0.947174	
Pgflr	Q91YH9	-0.17	0.78	0.26	0.23	0.03	0.02	0.06	0.25	-1.13	-0.23	0.99	-0.13	-0.31	-0.06	-1.33	-0.1725	-0.305	-0.5775	0.477167	0.505709	0.685414	0.999971	1	0.800215		
Pgflr2	Q8VDC1	-0.21	0.12	0.16	0.06	-0.05	0.45	-0.41	-0.28	-0.74	-0.17	0.58	0.35	0.61	0.06	-0.11	-0.49	0.06	-0.0025	-0.1175	0.085	0.962864	0.860162	0.999971	1	0.982702	
Pgflr3	Q8RGC4	-0.01	-0.47	-0.49	-0.27	-0.57	-0.47	-0.8	-0.49	-0.6	-0.22	-0.66	-0.47	-0.37	-0.24	-0.63	-0.27	-0.7225	-0.1175	-0.0675	0.188794	0.388317	0.737869	0.999971	1	0.892851	
Pgflr3	P22437	0.09	0.53	-1.26	-1.18	0.64	1.05	-1.27	-1.49	0.61	0.4	-0.97	-1.05	-1.26	1.33	-0.4	-0.77	0.1875	0.2025	0.56	0.793008	0.72795	0.35532	0.999971	1	0.868793	
Pgflr2	Q9S769	0.75	-0.39	-0.5	-0.54	-1.34	-1	-0.69	0.19	-1.37	-0.02	-0.76	-1.55	-1.59	-0.63	-0.76	-0.45	-0.54	-0.755	-0.6875	0.226158	0.117796	0.101358	0.999971	1	0.78268	
Pd17	A0A5F8MP	-0.17	0.45	0.03	-0.49	-0.16	-0.47	-0.38	-0.74	0.14	-0.12	-0.53	-0.3	0.02	-0.18	-0.55	0.05	-0.1225	-0.0025	-0.12	0.439537	0.736079	0.581896	0.999971	1	0.928851	
Pd2b2	Q9CV99	0.36	0.79	0.68	0.62	0.87	0.78	0.49	0.79	0.66	0.35	0.61	0.31	0.83	0.78	0.68	0.76	0.12	-0.13	0.15	0.533426	0.498846	0.411146	0.999971	1	0.875847	
PdK7	Q8RKG3	0.56	-0.2	-0.54	-0.51	-0.38	-0.58	-0.5	-0.6	-0.84	0.18	-0.62	-0.44	-0.56	-0.34	-0.42	-0.46	-0.3425	-0.2575	-0.2725	0.237126	0.446489	0.339525	0.999971	1	0.860218	
Pma	P23530	3.84	2.97	3.08	3.63	3.15	3.21	3.33	2.69	3.26	4.17	2.7	2.35	1.82	2.52	2.78	2.29	-0.285	-0.26	-1.0275	0.30992	0.546679	0.007544	0.999971	1	0.582714	
Pms	Q9D0U1	0.56	2.13	3.57	3.26	2.54	2.35	0.45	0.46	2.5	-0.07	3.94	3.29	0.8	3.31	2.7	2.67	0.22651	0.300311	0.247	0.228561	0.300311	0.25936	0.999971	1	0.725348	
Pm1	P63089	1.21	-0.11	1.32	1.2	0.47	0.7	2.51	1.48	3.11	0.69	1.48	0.36	0.88	0.01	1.77	0.77	0.385	0.505	-0.0475	0.472324	0.430289	0.918393	0.999971	1	0.992633	
Pto1v	Q91VL8	1.55	2.41	1.13	0.86	2.32	2.37	1.4	0.72	2.64	1.49	1.19	1.04	1.44	0.89	0.8	0.215	0.1025	-0.3025	0.659056	0.825874	0.435222	0.999971	1	0.882419		
Ptpd41	P63739	0.78	-0.83	-0.32	0	-0.71	-1.37	-0.08	-0.79	-1.19	-0.18	-0.56	-0.76	-1.72	-0.74	-0.74	-0.61	-0.645	-0.58	-0.86	0.140381	0.925997	0.093938	0.999971	1	0.725348	
Ptpd42	Q90724	-0.08	0.07	0.95	0.67	0.35	0.18	1.06	0.61	0.49	-0.12	0.23	0.08	0.71	0.15	0.19	0.89	0.1475	-0.2325	-0.21	0.640033	0.24541	0.491896	0.999971	1	0.89587	
Ptpd43	Q90558	-0.07	-1.47	-0.11	-1.27	-1.14	-1.64	-1.38	-0.24	-1.63	-0.2	-1.72	-1.15	-1.37	-0.15	-1.08	0.09	0.337064	-0.29945	-0.08	0.337064	0.29945	0.328819	0.999971	1	0.795478	
Ptpa	P54839	-0.29	-0.27	-0.09	-0.25	0.15	-0.29	0.95	-0.29	0.6	-0.57	0.08	0.3	0.29	-0.04	-0.25	-0.49	0.355	0.373	0.1025	0.260534	0.245415	0.640157	0.999971	1	0.93301	
Ptpdc1	A0A5F8MP	-0.51	-0.47	0.13	-0.37	-0.31	-0.71	0.09	0.55	-0.24	-0.34	-0.11	0.1	-0.38	-0.51	0.34	0.55	0.02	-0.0275	-0.12	0.953619	0.91585	0.724258	0.999971	1	0.955044	
Ptpm1	Q8GGT5	-0.03	-0.69	0.67	0.72	-0.96	-0.69	-0.23	0.39	-1.27	-0.32	-0.57	0.02	-1.12	-0.47	0.49	0.75	-0.555	-0.175	-0.27	0.200147	0.107762	0.956032	0.999971	1	0.921377	
Ptpn1	P15821	-0.02	-0.12	-0.03	-0.02	-0.03	-0.04	-0.21	-0.88	-0.74	-0.17	0.3	0.58	0.35	0.61	0.06	0.01	-0.0025	-0.1175	0.3125	0.90494	0.965216	0.450526	0.999971	1	0.745448	
Ptpn11	P15235-1	0.25	0.37	0.47	0.3	0.39	-0.17	0.6	0.08	0.69	-0.2	0.48	0.5	0.21	-0.26	-0.02											



Rab13	Q90D03	-4.43	-4.77	-0.83	-1.5	-2.36	-5.57	-0.21	-1.54	-0.95	-5.5	-1	-0.13	-2.34	-8.02	-1.27	-1.83	0.4625	0.9875	-0.4825	0.732038	0.490258	0.70356	0.999971	1	0.963498	
Rab14	Q91V41	-1.08	-1.06	-0.75	-1.01	-0.83	-0.87	-0.8	-0.74	-0.99	-1.21	-0.68	-0.44	-1.18	-0.82	-0.62	-0.91	0.165	0.145	0.0925	0.350668	0.527278	0.644463	0.999971	1	0.93301	
Rab15	Q37Y62	0.25	-0.35	-0.52	-0.66	-0.78	-0.12	0.79	0.24	-0.75	0.15	0.79	0.73	0.09	-0.15	-0.43	0.01	-0.0775	-0.2	0.235	0.780942	0.470833	0.95171	0.999971	1	0.869526	
Rab18	Q31293	1	-0.04	-0.69	-0.82	-0.04	-0.02	0	-0.37	-0.47	0.21	-0.55	-0.59	-0.02	0	-0.64	-1.01	0.03	-0.2125	-0.28	0.940933	0.625586	0.54222	0.999971	1	0.911119	
Rab1a	Q55W88	-0.87	-0.71	-0.65	-0.62	-0.66	-0.6	-0.54	-0.63	-0.53	-0.81	-0.42	-0.42	-0.92	-0.94	-0.6	-0.72	0.105	-0.0675	-0.0825	0.530951	0.363753	0.648322	0.999971	1	0.933842	
Rab1a	P62821	-0.95	-0.09	-0.61	-0.08	-0.53	-0.15	-0.74	-0.18	-0.36	-0.41	-0.43	-0.48	-0.19	-0.14	-0.42	-0.0075	-0.26	0.979748	0.915466	0.174207	0.999971	1	0.87301	1	0.87301	
Rab1a	Q90161	0.54	-0.44	-0.54	-0.85	-0.84	0.14	0.11	0.87	-0.55	-0.24	-0.86	-0.94	-0.5	-1.02	-0.85	-0.06	-0.0325	-0.315	-0.5	0.934561	0.364446	0.15012	0.999971	1	0.793248	
Rab21	P31282	1.82	0.22	2.98	0.4	-0.27	-0.14	-0.27	-0.67	-0.33	2.54	-0.86	-2.03	-0.16	0.3	-0.67	-1.17	-0.9075	-1.325	-1.73	0.318499	0.25241	0.038072	0.999971	1	0.700838	
Rab22a	P31285	0.93	0.05	-0.11	0.06	0.13	0.74	-0.38	0.07	0.23	1.05	-0.08	-0.01	-0.57	0.61	0.33	0.49	-0.0925	0.065	0.2675	0.778894	0.850849	0.32841	0.999971	1	0.856472	
Rab23	Q90409	-0.42	-0.26	-0.97	-1.12	-0.23	0.06	-1.28	-0.9	-0.35	-0.23	-0.81	-1.07	0.28	-0.16	-1.1	-0.91	0.105	0.0775	0.22	0.771616	0.793328	0.559246	0.999971	1	0.915051	
Rab24	P31290	-0.42	-0.44	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	-0.12	-0.42	0.999971	1	0.915051	
Rab25	Q50M48	-1.73	-1.45	-0.36	-1.21	-0.61	-1.36	0.33	0.77	-0.81	-1.93	-0.1	0.92	-0.1	0.92	-0.1	0.92	-0.1	0.92	-0.1	0.92	-0.1	0.92	-0.1	0.92	1	0.910609
Rab27a	Q9ER12	0.09	0.07	-0.64	-0.47	0.49	0.61	-0.34	-0.45	0.69	0.22	-1.43	-1.15	1.62	0.99	-0.69	-1.14	-0.08	-0.415	0.1975	0.820531	0.437502	0.756942	0.999971	1	0.961116	
Rab27b	Q9P958	-0.41	-1.14	-1.57	-1.01	-0.86	-0.95	-1.4	-1.37	-1.23	-1.02	-1.69	-1.26	-1.11	-0.92	-1.36	-1.21	-1.1125	-0.2675	-0.1175	0.689561	0.366629	0.670611	0.999971	1	0.939891	
Rab28	Q9P947	1.37	0.39	0.5	1.52	0.39	0.58	0.05	1.08	0.21	0.97	0.1	0.42	-0.17	0.65	0.72	1.18	-0.42	-0.52	-0.35	0.255235	0.157602	0.380231	0.999971	1	0.871816	
Rab29	E9QL07	-0.04	-0.56	-0.62	0.44	-0.64	0.12	-0.24	-0.16	-0.41	0.07	-0.12	0.16	-0.98	-0.04	-1.1	1.07	0.0025	0.05	0.0255	0.950224	0.863979	0.986102	0.999971	1	0.901341	
Rab2a	P50994	-1.19	0.04	-0.2	-0.85	0	0.39	0.51	0	0.07	-0.13	0.51	0.8	1.11	0.23	0.33	-0.19	0.775	0.375	0.92	0.034674	0.192038	0.036405	0.999971	1	0.700906	
Rab2b	P50979	-1.47	-1.75	-1.16	-1.62	-1.51	-1.44	-0.8	-1.04	-1.02	-1.62	-1.51	-1.44	-0.59	-1.54	-1.39	-1.49	0.3025	1.0025	0.2475	0.223546	0.646141	0.739308	0.999971	1	0.871816	
Rab30	Q92359	-0.33	-0.97	-0.94	-0.53	-1.18	-0.72	-1.3	-0.41	-0.9	-0.32	-0.92	-0.9	-0.41	-0.39	-0.53	-0.39	-0.21	-0.065	0.2625	0.454671	0.781975	0.123456	0.999971	1	0.832918	
Rab31	Q37W44	0.2	-1.36	-0.23	-0.34	-1.65	-1.44	-0.3	-0.05	-1.47	-0.58	-0.23	-0.25	-1.74	-1.51	-0.46	-0.2	-0.2075	0.2	-0.545	0.381472	0.633133	0.266094	0.999971	1	0.842477	
Rab33a	P97500	-0.11	-0.45	-1.26	-1.27	-0.31	0.64	-1.04	-0.88	0.34	-0.17	-1.03	-1.12	0.79	0.08	-1.07	-0.83	0.305	0.025	0.29	0.584026	0.918841	0.605743	0.999971	1	0.924649	
Rab33b	Q35963	1.26	-0.32	-0.81	-1.21	0.26	-0.41	-0.33	-0.96	0.05	0.1	-0.76	-0.34	0.6	-0.3	-0.85	-1.54	-0.09	0.0325	-0.2525	0.869485	0.951479	0.695164	0.999971	1	0.947174	
Rab34	Q9P020	0.72	0.43	0.36	0.44	0.33	0.66	-0.02	0.62	0.34	0.49	0.29	0.2	0.56	0.43	0.52	0.53	-0.065	-0.1575	0.0225	0.767329	0.382916	0.897067	0.999971	1	0.988737	
Rab35	Q9P949	-0.86	-1.01	-1.74	-1.76	-1.12	-0.8	-0.98	-1.84	-0.47	-1.02	-1.44	-1.7	-1.11	-1.07	-1.8	-1.02	0.1575	0.185	-0.1575	0.633966	0.601987	0.641792	0.999971	1	0.93301	
Rab36	Q8CMA5	1.69	-1.04	-0.83	-0.83	-1.16	-1.1	-1.63	-0.95	-1.07	0.82	-1.55	-1.53	-1.44	-0.56	-0.75	-0.6	-0.9575	-0.58	-0.358	0.141112	0.338234	0.358772	0.999971	1	0.869526	
Rab37	Q88Q00	0.97	-0.41	-0.78	-0.19	-0.15	0.07	-0.05	-0.48	0.31	0.97	0.15	-0.54	-0.57	-0.24	-0.72	0.3	-0.05	0.1	-0.2925	0.895665	0.719675	0.518131	0.999971	1	0.905815	
Rab37	Q54E48	2.83	2.69	0.19	0.45	-1.82	1.1	0.7	0.41	-0.92	0.3	-1.09	-1.38	-2.28	1.31	-0.72	-0.06	-1.8175	-2.8125	-1.9775	0.057554	0.014682	0.566633	0.999971	1	0.725348	
Rab39b	Q8BH11	-0.32	-0.32	-1.36	-0.89	-0.78	-0.28	-1.19	-0.93	-0.53	-0.22	-1.04	-1.12	0.2	-0.07	-1.03	-0.56	0.0775	0.145	0.4075	0.739827	0.930924	0.209796	0.999971	1	0.822623	
Rab3a	P62011	-1.92	-0.8	-0.18	-1.7	-0.44	-0.12	-0.54	-0.48	-0.51	-1.26	-0.93	-1.14	-1.64	-0.93	-1.1	-1.72	-0.15	-0.1325	0.05	0.244442	0.749457	0.404045	0.999971	1	0.842477	
Rab3c	Q9CZ78	-0.63	0.16	0.24	0.4	-1.48	-1.06	-0.62	-1.73	0.78	0.08	0.16	0.3	-1.49	-1.67	-1.08	-1.63	-1.265	0.1375	-1.51	0.004185	0.676708	0.004098	0.999971	1	0.912108	
Rab3c	P62823	-0.71	-0.77	-0.98	-1.67	-0.36	-0.39	-0.22	-1	-0.36	-1.31	-0.68	-0.97	-1.16	-0.87	-0.81	-1.55	-0.54	0.2025	0.185	0.09199	0.512679	0.60331	0.999971	1	0.924545	
Rab3c	P31276	-1.5	-1.29	-1.21	-1.79	-1.63	-0.87	-1.19	-1.28	-1	-1	-1.28	-1	-0.5	-0.84	-2.01	-0.94	-1.48	-0.87	0.25	0.4245	0.310228	0.046373	0.688001	0.999971	1	0.945733
Rab3ap1	Q8BU17	-0.36	-0.16	-0.37	-0.44	-0.66	-1	-0.39	-0.16	-0.86	-1.08	-0.41	-0.38	-0.49	-0.38	-0.21	-0.19	-0.075	-0.05	-0.4175	0.740511	0.818625	0.169312	0.999971	1	0.842477	
Rab3ap1	AD015SRU	-0.02	0.19	-1.11	-1.08	-0.27	0.5	-0.7	-1.09	-0.46	0.25	-1.06	-1.06	-0.47	0.31	-0.92	-0.98	0.25	0.1525	0.225	0.603534	0.760342	0.64353	0.999971	1	0.93301	
Rab3ap2	AD00A0YU	-0.27	-0.17	0.21	0.21	-0.03	-0.02	-0.02	-0.22	-0.11	-0.2	0.1	0.31	-0.06	0.21	0.41	0.58	0.0425	0.03	0.29	0.830913	0.888403	0.22315	0.999971	1	0.827753	
Rab3b1	Q31Z86	0.41	0.41	2.28	0.27	0.21	-0.21	0.21	0.72	0.62	-0.03	0.31	0.17	0.94	0.79	0.4	0.99	-0.16	0.54	-0.0625	0.796291	0.490094	0.893437	0.999971	1	0.988828	
Rab3b	Q8E8F0	-0.47	-1.36	-2.03	-1.53	-0.51	-0.54	-0.2	-0.07	0.06	-0.74	1.83	-1.02	0.86	1.14	-1.22	1.34	-0.2075	0.2	-0.2025	0.740615	0.885565	0.609095	0.999971	1	0.842477	
Rab40c	E9P9K4	0.66	2.33	-0.3	-0.53	0.95	2.41	0.16	-0.55	0.73	1.88	-0.36	0.22	2.06	-0.23	0.75	-0.2025	0.0275	0.165	0.800407	0.970031	0.742878	0.999971	1	0.961064		
Rab43	Q8C500	-0.36	-0.27	0.09	-0.07	-0.29	-0.16	0.38	0.22	0.15	-0.33	0.31	0.46	-1.56	0.71	-0.05	0.19	0.3	-0.1125	0.411786	0.219124	0.804653	0.999971	1	0.971467		
Rab4a	P56371	-2.9	-0.51	-0.58	-0.59	0.07	-0.45	-0.46	0.15	-0.03	-1.75	-0.15	-0.05	0.29	-0.51	0.11	0.29	0.9725	0.65	1.19	0.108578	0.336804	0.906082	0.999971	1	0.725348	
Rab4b	Q91K21	-1.79	-0.27	-0.5	-1.11	0.2	0.23	-0.48	-0.43	-0.03	-1.62	-0.5	-0.57	0.3	0.31	-0.18	-0.56	0.685	0.1025	0.75	0.15111	0.841779	0.127599	0.999971	1	0.788363	
Rab4b	Q9C001	-0.52	-1.32	-0.57	-0.68	-0.77	-1.21	-1.05	-1.29	-1.83	-1.25	-1.38	-1.25	-1.45	-0.95	-1.4	-0.95	-0.7475	-0.26	-0.1425	0.743232	0.373874	0.008571	0.999971	1	0.842477	
Rab5b	P61021	-0.41	-0.77	-1.06	-1.07	-0.77	-0.58	-0.91	-0.91	-0.78	-1	-0.98	-0.88	-0.87	-0.75	-0.98	-1.04	-0.035	-0.2825	-0.0825	0.872888	0.69575	0.703394	0.999971	1	0.949598	
Rab5c	Q9CZ78	0.14	-1.31	-1.17	-1.36	-1.11	-1.03	-1.03	-1.17	-1.17	-1.04	-1.03	-1.02	-1	-1.15	-1.28	-1.38	-0.16	-0.1125	-0.0775	0.651268	0.692399	0.476723	0.999971	1	0.885146	
Rab5f	Q9C019	-1.74	-1.15	1.1	0.98	-1.12	-1.76	-0.22	-0.74	-1.58	-1.13	0.78	0.83	0.21	0.74	1.25	1.88	-0.2775	-0.025	0.740033	0.933447	0.32199	0.999971	1	0.855458		
Rab6a	Q9CZ78	-0.84	-0.68	-0.55	-0.66	-0.55	-0.66	-0.55	-0.66	-0.55	-0.66	-0.55	-0.66	-0.55	-0.66	-0.55	-0.66	-0.55	-0.66	0.1725	0.75382	0.582977	0.528485	0.999971	1	0.871217	
Rab6a_1	Q9CZ78	-0.72	0.96	-0.96	-0.92	-0.19	-0.05	-1.2	-0.25	-0.24	-0.15	-1.21	-0.12	1.39	0.37	-0.42	-1.26	-0.1215	0.1	0.64							

Rbm14	QBZCQ3	1.27	1.01	1.47	1.5	1.14	1.17	1.15	1.47	1.23	1.32	1.09	1.02	0.59	1.57	1.34	1.46	-0.08	-0.1475	-0.0725	0.687513	0.44992	0.78807	0.999971	1	0.96724	
Rbm15	QOVBLS-2	0.32	-0.05	0.68	0.57	0.2	-0.3	0.45	0.73	-0.01	-0.19	0.83	0.72	0.1	-0.37	0.54	0.87	-0.11	-0.0425	-0.095	0.701074	0.89209	0.765487	0.999971	1	0.962405	
Rbm15b	QBPMS	1.14	1.34	0.24	0.08	-0.32	0.56	-0.19	0.15	0.26	0.1	0.6	0.24	0.08	-0.02	0.36	0.28	-0.175	-0.0675	-0.2675	0.153983	0.83423	0.40133	0.999971	1	0.971816	
Rbm17	QBZKX4	1.26	1.59	1.91	1.25	1.58	1.63	1.18	1.25	1.37	1.34	1.73	1.15	1.3	1.46	1.26	1.06	-0.0925	-0.105	-0.2325	0.69051	0.65306	0.309372	0.999971	1	0.847402	
Rbm21	QBRC36	-0.59	-1.69	-0.29	-0.16	-1.42	-2.17	2.59	-1.21	-1.9	-1.25	-0.87	-1.03	-1.97	-2.22	-0.85	-2.19	0.13	-0.58	-1.125	-0.88907	0.170568	0.031251	0.999971	1	0.678474	
Rbm22	QBH53	1.34	0.61	0.56	0.86	0.56	0.64	0.6	0.5	0.49	1.15	0.26	-0.08	0.66	0.79	0.35	0.3	-0.2675	-0.3875	-0.46	0.24973	0.242561	0.102687	0.999971	1	0.78268	
Rbm25	BZVY56	1.75	0.55	1.72	2.09	1.17	1.22	1.88	1.63	0.94	1.39	1.72	1.16	1.4	1.23	0.62	1.63	1.85	-0.0325	-0.115	-0.445	0.886021	0.755002	0.999971	1	0.869526	
Rbm26	E9Q640	1.7	2.35	2.41	2	1.87	1.95	2.07	2.16	1.98	1.81	2.58	2.81	1.67	2.02	2.12	2.23	-0.0525	-0.23	-0.055	0.803899	0.437819	0.811446	0.999971	1	0.973864	
Rbm27	Q55FM8	0.98	2.56	1.84	1.07	2.14	2.61	1.22	1.3	2.22	0.45	1.48	1.69	-0.22	1.22	1.04	0.67	0.205	-0.1525	-0.935	0.662377	0.755811	0.068004	0.999971	1	0.733937	
Rbm28	Q8CG66	0.58	0.09	1.02	0.81	-0.06	0.25	0.49	1.2	0.43	0.24	0.8	1.2	-0.03	0.01	0.6	1.02	-0.155	-0.0405	-0.175	0.643295	0.887008	0.603446	0.999971	1	0.924545	
Rbm3	Q8S086	1.05	1.34	0.8	0.32	1.34	0.56	0.12	0.54	0.34	0.1	0.19	0.28	0.02	0.36	0.28	0.715	-0.738556	-0.424073	0.173565	0.41	0.78945	0.999971	1	0.925632		
Rbm34	AOA15SRU	0.76	0.19	-0.56	-0.63	-0.73	-0.22	-0.66	-0.12	0.45	0.01	-0.43	-0.27	0.2	0.38	-0.99	-0.18	-0.1275	-0.1475	-0.1175	0.279058	0.1	0.814742	0.999971	1	0.974918	
Rbm39	QBHV51-2	0.25	0.65	0.73	0.44	0.94	0.73	0.57	0.8	0.99	0.41	0.68	0.92	1.07	1.23	1.1	0.7	0.2425	0.2325	0.5075	0.23464	0.294268	0.035895	0.999971	1	0.699952	
Rbm42	Q3VYW8	0.61	1.41	1.22	1.13	0.84	0.57	1.58	0.48	0.89	0.79	0.84	1.01	0.52	0.49	0.34	0.99	-0.1725	-0.21	-0.5075	0.581786	0.350161	0.068618	0.999971	1	0.733937	
Rbm45	QB8HNS	0.82	0.71	1.67	0.97	0.87	0.46	1.17	1.47	0.25	1.11	0.36	1.75	-0.23	1.16	1.49	0.89	-0.05	-0.175	-0.265	0.871928	0.65595	0.254637	0.999971	1	0.95068	
Rbm46	QBVE32	-1.14	-1.9	-0.45	-1.76	-1.61	-1.13	-1.08	-1.59	-1.82	-1.58	-1.18	-2.45	-0.05	-0.46	0.46	1.17	-0.54	-1.095	1.0075	0.495347	0.24474	0.71291	0.999971	1	0.804075	
Rbm5	Q51VEY-2	0.7	0.74	1.04	1.37	0.69	0.39	2	0.93	0.46	0.8	0.3	0.42	0.59	0.88	0.63	0.67	0.04	-0.4675	-0.27	0.914216	0.664516	0.232194	0.999971	1	0.831121	
Rbm6	S4R1W5	2.36	1.26	1.37	1.56	1.17	1.02	1.42	2.17	1.68	1.58	1.57	1.73	0.89	0.75	1.49	1.43	-0.1925	-0.0075	-0.4975	0.585622	0.992594	0.141527	0.999971	1	0.784967	
Rbm7	Q9CQ72	3.7	1.25	1.45	2.11	1.18	1.48	1.33	1.21	1.79	3.42	1.11	1.16	-0.23	0.09	0.58	0.55	-0.8275	-0.2075	-1.925	0.138139	0.715562	0.060412	0.999971	1	0.582714	
Rbm8a	Q5CW33	0.83	1.2	0.79	0.64	2	0.97	0.92	0.89	0.9	1.18	0.87	1.1	2.58	1.27	0.38	0.96	0.133	-0.4975	0.4325	0.290921	0.166284	0.351409	0.999971	1	0.867656	
Rbm8c	G3UJZ9	2.56	1.82	1.56	1.03	1.5	1.63	1	1.72	1.14	2.38	1.58	1.17	1.47	1.98	1.11	1.24	-0.28	-0.2	-0.2925	0.432547	0.61762	0.429178	0.999971	1	0.881196	
Rbm9	Q9VW02	0.55	0.19	-0.14	0.25	-0.36	-0.34	0.92	-0.32	0.1	-0.49	0.19	-0.15	-0.74	-1.11	-0.36	-0.31	-0.2375	-0.3	-0.8425	0.427264	0.2299	0.095099	0.999971	1	0.613095	
Rbm9a	Q8R0F5	1.25	0.51	1.59	0.11	-0.93	-0.76	0.304	1.28	0.97	1.38	2.38	3.09	0.1	1.1	1.1	0.66	-0.2075	1.09	-0.125	0.816469	0.071652	0.752915	0.999971	1	0.961116	
Rbm1	Q30915	-0.26	0.69	0.01	0.04	1.26	0.14	0.4	0.64	0.85	0.12	-0.7	0.07	0.28	0.43	0.23	-0.69	0.49	-0.035	-0.0575	0.147466	0.923726	0.595952	0.999971	1	0.982702	
Rbm2	Q8Y056	-0.14	-0.15	0.02	0.02	0.07	-0.16	0.25	-0.18	-0.22	-0.18	-0.12	-0.26	0.3	0.04	-0.1	0.0575	-0.1325	0.045	0.756803	0.41	0.83527	0.820263	0.999971	1	0.957561	
Rbm1	P62788	0.52	-0.77	-0.5	-0.65	-0.67	-0.6	-0.16	-0.35	-0.87	0.51	-0.93	-1.47	-1.47	-1.47	-0.27	-0.45	-1.05	-0.095	-0.34	-0.46	0.766841	0.486688	0.256521	0.999971	1	0.839012
Rc3h1	Q4VGL6	1.2	-0.31	-0.2	-0.05	0.2	0.4	0.38	-0.07	-0.5	0.78	-0.62	-0.28	0	-0.44	-0.59	0.06	0.0675	-0.315	-0.1825	0.850763	0.488023	0.645239	0.999971	1	0.93301	
Rc2h2	A2AVP4	0.98	0.89	2.07	2.4	0.7	1.14	2.62	2.4	0.81	0.87	2.18	1.88	1.15	1.33	2.08	1.53	0.12	-0.0625	0.851505	0.674203	0.879248	0.999971	1	0.985441		
Rc2h1	Q9H565	0.76	0.25	0.12	0.07	0.46	0.17	0.14	0.13	0.11	-0.27	0.17	0.83	1.4	1.78	0.25	0.05	0.381129	0.377857	0.162	0.78251	0.68251	0.999971	1	0.962535		
Rbm2	AOA2R8V0	0.62	0.17	0.62	-0.15	-0.74	-0.69	2.02	-0.09	-1.12	-0.98	2.03	1.33	-2.84	-0.61	-0.47	-1.13	0.235	0.425	-1.1525	0.751177	0.621176	0.11401	0.999971	1	0.78268	
Rbm3	Q91K00	-0.85	0.06	-0.48	0.52	-0.21	-0.45	0.35	0.74	-0.11	-0.4	-0.48	1.02	0.29	0.03	0.39	0.66	0.295	0.195	0.53	0.454729	0.655542	0.133437	0.999971	1	0.780488	
Rcbt31	AOA0R4002	-0.54	-0.06	1.42	-0.51	0.27	-0.6	-1.26	-0.19	0.33	-1.38	-0.81	-0.76	0.05	0.4	-1.09	-0.4	-0.0375	-0.0225	0.1725	0.921881	0.958495	0.634977	0.999971	1	0.93301	
Rcbt32	EQ3J81	-0.12	0.19	0.43	0.52	0.13	0.89	-0.43	0.33	0.16	-0.2	0.17	0.1	-0.05	0.47	0.1	0.55	0.50504	0.362413	0.11847	0.999971	1	0.784967				
Rc1	QBVE37	-0.33	0.26	0.12	0.39	0.28	0.38	0.09	0.42	0.16	0.07	0.13	0.03	-0.32	0.14	0.57	0.37	0.1825	-0.0125	0.08	0.412515	0.951941	0.765954	0.999971	1	0.962472	
Rc2	Q8H657	2.52	2.6	2.79	3.03	2.1	2.34	3.18	2.18	1.91	2.44	1.98	1.66	1.02	2.47	2.23	1.53	-0.285	-0.7375	-0.9225	0.333401	0.101084	0.24322	0.999971	1	0.669611	
Rch13	Q3UW08	1.11	1.16	1.22	1.55	1.43	1.66	1.01	2.05	1.95	1.48	1.45	0.64	1.92	1.73	1.42	1.59	0.1675	0.01	0.295	0.51749	0.97373	0.186918	0.999971	1	0.809025	
Rch2	Q9UT07	-0.02	0.15	0.43	0.52	0.13	0.89	-0.43	0.33	0.16	-0.2	0.17	0.1	-0.05	0.47	0.1	0.55	-0.0175	0.498073	0.11791	0.999971	1	0.998056				
Rbm1	Q05186	-0.8	-0.25	-0.73	-0.51	0.26	-0.71	0.01	0	0.99	-0.15	0.33	1.02	1	0.3	0.08	0.14	0.4625	1.12	0.8825	0.107542	0.057799	0.031313	0.999971	1	0.613095	
Rbm2	Q8B992	-1.07	-0.08	0.13	-0.67	-0.45	-0.27	1.24	0.22	1.1	-1.16	0.9	1.41	1.36	-0.63	0.07	-0.94	0.7925	0.94	0.3475	0.078893	0.141866	0.526869	0.999971	1	0.909459	
Rc1	AOA140T8	2.1	1.47	1.34	0.97	1.06	1.18	0.98	1.03	1.67	0.98	1.22	0.52	1.57	1.07	1.15	-0.48	-0.245	-0.3925	0.104044	0.412342	0.242587	0.999971	1	0.837316		
Rcd13	Q3UZAT-2	2.43	0.61	1.27	1.71	1.35	0.87	2.27	0.38	1.02	1.64	0.65	0.1	-0.55	0.88	0.34	-0.7	-0.2875	-0.6525	-1.575	0.578883	0.189552	0.039323	0.999971	1	0.613095	
Rch13	Q9R186	-1.17	-1.57	-0.66	-1.74	-0.78	-1.07	-1.33	-1.64	-1.1	-0.77	-1.46	-1.27	-1.46	-1.27	-1.46	-0.1225	-0.0275	-0.595	0.301778	0.051492	0.12917	0.999971	1	0.784967		
Rch13	QBCEE7	1.02	-0.23	-0.44	-0.42	-0.23	-0.19	-0.67	-0.47	-0.18	-0.19	-0.27	-0.62	-0.13	-0.75	-0.79	-0.42	-0.1475	-0.225	-0.28	0.505665	0.925154	0.256958	0.999971	1	0.839012	
Rch14	Q9R616	0.07	-0.77	-0.24	-0.48	-0.44	-0.52	0.03	-0.25	-0.2	0.17	-0.09	-0.51	-0.08	-0.16	-0.23	0.06	0.1975	0.0375	0.807483	0.441657	0.887247	0.999971	1	0.987485		
Rhd	P20403	-0.83	-1.05	0.57	0.49	-0.7	-0.65	1.09	-0.07	-0.54	-1.05	-0.13	-0.22	-0.59	-0.85	0.27	0.07	0.1225	-0.28	-0.105	0.821362	0.536671	0.821336	0.999971	1	0.975333	
Rheq35	QBVD1	1.2	1.2	2.78	1.8	1.1	1.55	2.08	1.62	1.74	1.91	2.54	1.61	2.09	1.07	1.41	1.48	0.41	0.185	0.3875	0.397818	0.070758	0.1787	0.999971	1	0.849714	
Reep3	QB8G44	-0.31	-1.29	-0.83	-0.85	-1.21	-1.43	-0.93	-0.61	-0.93	-0.47	-0.44	-0.59	-0.99	-0.91	-0.36	-0.55	-0.225	-0.2105	0.1325	0.43395	0.412245	0.620982	0.999971	1	0.925388	
Reep3	QBVC06</																										

Rnsel2b	A0338P71	-3.4	-3.35	-3.92	-4.59	-3.33	-3.5	-3.09	-3.84	-2.82	-3.69	-3.23	-3.93	-4.52	-3.21	-3.53	-4.41	0.375	0.3975	-0.1025	0.271856	0.298838	0.804257	0.999971	1	0.971467
Rns2	Q92QW5	-1.46	-1.38	-1.42	-1.39	-1.33	-1.46	-1.64	-1.63	-0.98	-1.22	-1.1	-0.86	0.5	-0.67	-1.25	-0.99	-0.0025	0.4275	0.61	0.988437	0.031312	0.019929	0.999971	1	0.635388
Rns3	E92B07	-2.41	-2.01	-2.42	-1.84	-1.29	-1.5	-1.24	1.39	-2.29	-2.17	-2.36	-1.61	-1.61	-2.08	-0.47	1.69	0.325	-0.2025	0.8925	0.150975	0.601425	0.914748	0.999971	1	0.731779
Rns10	F7AN16	-0.65	1.31	1.41	1.32	1.17	1.05	1.23	0.68	3.27	-1.87	0.58	0.77	0.73	-3.88	-0.03	-0.38	0.935	-1.6	-1.7375	0.198811	0.782307	0.115092	0.999971	1	0.78268
Rns11	Q92YK7	-0.43	-1	-1.21	-0.63	-1.41	-1.05	-1.43	-1.33	-1.42	-0.71	-0.93	-1.46	-1	-0.74	-1.04	-0.4875	-0.0025	-0.2425	0.061901	0.992334	0.357298	0.999971	1	0.686793	
Rns12	Q96YD5	0.24	1.24	0.57	-0.59	1.53	0.75	-0.55	-0.46	1.99	0.36	-0.44	-0.46	-0.37	0.45	-0.59	0.25	0.2375	0.8285	0.765	0.695052	0.669394	0.440226	0.999971	1	0.883105
Rns13a2	Q14B01	2.15	2.58	2.54	1.68	2.44	2.39	1.93	0.66	1.53	1.6	3.48	2.98	2.27	3.01	2.98	0.41	0.38	0.906331	0.149738	0.175622	0.999971	1	0.808332		
Rns14	Q9ET26	1.38	0.75	0.97	-0.06	0.89	1.39	0.18	1.45	0.71	1.59	0.2	-1.39	-0.18	1.46	1.15	0.42	0.2175	-0.4825	-0.0475	0.593260	0.455661	0.915712	0.999971	1	0.992633
Rns15	Q90OC1	2.09	0.29	-1.74	-1.34	-0.05	1.74	-0.8	1.14	0.29	2.1	-1.38	-1.35	0.72	0.6	-1.69	-1.99	0.6825	-0.9	-0.415	0.471623	0.933479	0.68361	0.999971	1	0.943718
Rns121	Q8R129	1.56	2.2	-0.47	0.39	1.38	1.95	0.112	0.59	1.54	2.02	1.75	1.3	0.75	2.13	1.54	1.21	0.09	0.7325	0.4875	0.895997	0.218684	0.429572	0.999971	1	0.881563
Rns123	Q92P71	-0.06	0.11	0.07	0.16	-0.02	0.05	0.07	-0.12	0.05	-0.12	0.07	-0.12	0.05	-0.12	0.07	-0.12	0.05	-0.12	0.07	0.158459	0.004578	0.009278	0.999971	1	0.725348
Rns124	Q92Y12	0.07	0.11	0.83	0.47	-0.1	-0.12	0.78	0.15	-0.22	-0.11	0.94	-0.78	-0.58	-0.36	-0.25	-0.34	-0.0325	-0.1478	-0.6723	0.424843	0.677486	0.056749	0.999971	1	0.725348
Rns13	Q8C4F9	-0.1	1.86	0.96	0.47	1.78	1.81	0.61	1.32	1.67	0.22	1.17	0.22	2.86	2.04	0.56	0.48	0.5825	-0.0225	0.6875	0.233779	0.964886	0.30609	0.999971	1	0.847402
Rns130	Q55VR5	-0.73	0.54	0.86	-0.11	0.51	0.08	-0.67	1.15	-0.4	-0.04	0.49	0.98	0.71	0.95	0.86	0.1275	-0.0925	0.735	0.792479	0.81032	0.062786	0.999971	1	0.725348	
Rns14	Q92W90	-0.4	0.93	1.59	1.43	0.67	1.26	2	1.56	0.78	0.86	1.72	0.81	1.07	1.23	1.68	1.25	0.265	-0.04	0.005	0.454844	0.896584	0.990048	0.999971	1	0.919925
Rns141	H3B8U4	0.14	0.32	-0.12	-0.5	-0.41	-0.04	0.71	-0.51	1.24	0.51	1.06	0.88	2.39	-0.19	0.45	0.25	0.13	0.745	0.5875	0.68732	0.059006	0.311899	0.999971	1	0.795578
Rns146	Q9C2W6	-0.21	1.54	0.85	0.35	2.5	1.94	2.63	0.71	2.91	0.93	2.4	2.43	2.58	0.71	1.44	0.77	1.3125	-1.535	0.7425	0.033055	0.016576	0.184122	0.999971	1	0.809025
Rns149	Q3U2C5	0.9	-0.24	0.85	0.16	-0.43	-0.58	-0.11	-0.28	-0.54	-0.05	0.22	0.47	-0.58	-0.06	0.19	-0.11	-0.7675	-0.3925	-0.5575	0.029769	0.274914	0.111056	0.999971	1	0.78268
Rns150	Q50T26	0.37	-0.26	-2.45	-1.63	0.16	-1.18	-1.33	-1.65	1.17	0.24	-1.38	-2.2	2.32	-0.1	-1.9	-1.38	0.2425	0.45	0.7275	0.730129	0.618923	0.480971	0.999971	1	0.89485
Rns157	A2A4P0	3.08	-1.0	0.46	1.58	-0.12	0.5	0.15	2.37	0.39	-0.24	-0.36	1	1.42	0.83	0.7	0.54	0.145	-0.0025	-0.7325	0.827344	0.996364	0.155066	0.999971	1	0.795578
Rns168	EP9PW4	3.88	2.26	3.07	2.17	1.35	3.61	3.26	1.95	1.08	2.09	2.74	1.83	-0.21	1.18	1.25	1.86	-0.3025	-0.91	-1.825	0.621373	0.09216	0.00381	0.999971	1	0.602121
Rns170	A0A180G8	2.23	0.14	0.64	1.44	0.26	0.33	0.49	1.06	0.59	1.59	0.07	-0.23	-0.52	-0.77	0.01	-0.38	-0.5775	-0.6075	-1.5275	0.231756	0.295721	0.00839	0.999971	1	0.602121
Rns181	Q9CYC2	0.86	0.81	-11.31	-12.03	1.14	1.48	-6.85	-9.95	0.68	0.47	-13.01	-14.47	1.11	1.28	-11.65	-13.27	1.8725	-11.65	-0.215	0.647456	0.811791	0.963729	0.999971	1	0.998721
Rns185	Q91Y72	2.02	-0.03	1.4	1.34	0.01	0.79	2.66	0.91	0.37	1.85	0.3	-0.47	-0.62	0.23	0.35	-0.09	-0.67	-1.32	0.888464	0.279336	0.018914	0.999971	1	0.635388	
Rns186	Q9CQ4	1.57	0.68	0.95	1.2	0	0.39	0.57	0.67	0.84	0.64	0.54	0.73	1.06	0.31	0.84	0.68	-0.05	-0.1425	-0.3775	0.058852	-0.104565	0.182613	0.999971	1	0.808532
Rns20	Q50T88	1.18	1.96	2.36	2.21	1.99	1.44	1.87	2.36	1.59	1.33	2.26	2.47	1.43	1.99	2.64	2.28	-0.0125	-0.05	0.1575	0.96925	0.967349	0.662363	0.999971	1	0.936148
Rns213	A0A849C4	1.63	0.18	0.41	-0.27	-0.22	0.11	-0.17	-0.54	0.39	0.93	0.02	0.52	-2.22	0.6	-0.09	-0.14	-0.6925	-0.0225	-0.95	0.116355	0.957748	0.17787	0.999971	1	0.808532
Rns214	Q8BFU13	-0.17	0.78	0.84	0.47	0.76	0.86	0.86	0.76	0.91	-0.11	0.74	0.54	0.77	0.5	0.72	0.83	0.29	0.05	0.225	0.289496	0.878584	0.386028	0.999971	1	0.871816
Rns214.1	Q8BFU2	-2.39	1.11	0.03	-0.1	0.72	0.86	0.83	1.17	0.78	-1.66	0.86	0.96	0.73	0.86	0.51	0.75	0.16	-0.05	0.7125	0.102327	0.499132	0.172938	0.999971	1	0.869526
Rns216	P58B23.2	2.41	0.84	1.42	1.59	1.15	1.27	1.34	1.55	1.11	2.23	1.34	1.28	0.02	0.73	0.84	1.13	-0.2375	-0.075	-0.885	0.482488	0.849184	0.045003	0.999971	1	0.710102
Rns220	Q92U46	1.87	2.07	2.32	2.85	1.72	2.04	2.01	2.56	2.11	2.32	2.44	2.64	2.15	2.34	2.23	3.03	-0.195	0.1	0.16	0.503117	0.702179	0.598093	0.999971	1	0.92377
Rns25	E92446	0.47	0.04	0.59	0.99	0.11	0.34	0.72	0.51	0.09	0.53	0.34	0.33	-0.41	0.09	0.25	0.92	-0.1025	-0.2	-0.31	0.693878	0.142238	0.367727	0.999971	1	0.869526
Rns26	A0A115Q9	0.14	0.32	-0.12	-0.5	-0.41	-0.04	0.71	-0.51	1.24	0.51	1.06	0.88	2.39	-0.19	0.45	0.25	0.13	0.745	0.5875	0.68732	0.059006	0.311899	0.999971	1	0.795578
Rns31	Q92477.2	0.31	-0.38	-0.64	-0.23	-0.12	-0.33	-0.57	-0.05	-0.29	-0.02	-0.12	-0.47	0.1	0.08	-0.18	-0.14	-0.0325	0.01	0.15	0.899289	0.967995	0.538994	0.999971	1	0.910777
Rns34	Q9XK86	0.42	0	0.52	0.39	0.34	0.14	0.12	0.88	0.58	0.74	0.05	0.39	1.15	0.55	0.85	0.63	0.375	0.1075	0.4625	0.876999	0.634953	0.061599	0.999971	1	0.725348
Rns40	Q3U319	1.49	1.02	2.03	2.75	1.46	0.97	1.71	1.68	1.4	0.89	2.3	2.13	0.21	0.37	2.19	2.14	-0.3675	-0.1425	-0.596	0.31295	0.759912	0.136094	0.999971	1	0.858827
Rns41	Q8BY75	3.08	-1.0	0.43	0.11	-0.07	0.15	0.37	0.25	0.34	1.61	-1.52	2.76	-1.98	-0.38	-1.67	0.34	-0.575	-0.1	-2.46	0.523321	0.414044	0.059125	0.999971	1	0.795578
Rns5	O35445	4.98	1.8	-4.34	-4.48	2.58	3.86	-2.77	-3.88	2.11	4.88	-3.11	3.78	1.29	2.16	-0.08	-5.16	0.2075	-0.285	-0.9375	0.936002	0.916089	0.70801	0.999971	1	0.950182
Rns7	Q9WT71	1.82	2.36	-1.9	-1.41	1.51	2.13	-1.18	-1.88	1.49	2.15	-1.5	-0.58	1.18	2.55	-1.56	-2.16	-0.8975	-0.1725	-0.215	0.95566	0.887684	0.999971	1	0.985139	
Rns12	Q3U6F4	1.65	1.32	2.28	1.61	1.11	1.25	2.4	1.21	1.58	2.58	1.37	1.24	1.55	1.61	2.68	-0.25	-0.03	0.055	0.497365	0.933337	0.880025	0.999971	1	0.985139	
Rns12	Q92C11	2.12	2.15	2.66	0.01	2.01	1.86	2.68	2.34	2.04	2.07	1.13	1.85	1.27	0.99	1.2	2.09	0.95	-0.2625	-0.9275	0.383737	0.052773	0.083003	0.999971	1	0.700838
Rns1	Q91V71	0.23	0.08	0.72	0.64	0.72	0.64	0.88	0.62	0.66	-0.19	0.17	0.56	0.6	0.17	0.56	0.17	0.56	0.17	0.045	0.728787	0.202527	0.066425	0.999971	1	0.700838
Rns1	Q92D08	1.03	2.91	2.85	2.47	2.8	2.15	2.44	2.7	2.62	1.34	2.83	2.92	2.26	2.2	2.54	2.6	0.2075	-0.1125	-0.085	0.636387	0.832269	0.842239	0.999971	1	0.979814
Rns1	Q9C7C3	0.44	0.3	0.18	0.21	0.28	0.25	0.06	-0.11	0.44	0.21	0.13	0.38	0.13	0.59	0.36	0.32	-0.1625	-0.0075	0.3675	0.385732	0.965429	0.176381	0.999971	1	0.952576
Rns1	Q9XN28	0.47	0.62	0.38	-0.09	0.75	0.6	0.73	-0.03	0.86	-0.17	0.41	0.37	0.75	0.11	-0.54	-0.53	0.1675	-0.0225	-0.3975	0.572409	0.935006	0.262403	0.999971	1	0.842622
Rns1	Q80848	0.56	0.47	0.57	0	0.75	0.6	0.73	-0.03	0.86	-0.17	0.41	0.37	0.75	0.11	-0.54	-0.53	0.1675	-0.0225	-0.3975	0.572409	0.935006	0.262403	0.999971	1	0.842622
Rns1	G5E843	0.11	-1.53	-1.7	-1.24	-0.65	-1.32	-1.04	-1.12	-0.78	-0.78	-1.4	-1.15	-0.61	-1.27											

Rpusd4	Q9CWX4	-0.27	0.2	-0.46	-0.02	-0.06	-0.87	0.36	-0.03	0.03	-0.59	-1.08	-0.27	0.01	-1.12	0.16	-0.06	-0.0125	-0.34	-0.115	0.967082	0.25841	0.72605	0.999971	1	0.956041	
Rrag	Q8DX95	0.92	0.29	0.2	0.57	-0.88	-0.92	0.83	-0.27	-0.79	1.06	1.71	-0.8	-1.66	-0.07	-0.57	0.95	-0.805	0.2	-0.8325	0.0880401	0.74249	0.18516	0.999971	1	0.784948	
Rragb	Q8NT44	0.61	1.08	0.44	0.57	0.49	1.57	0.62	0.79	0.79	0.4	0.56	0.61	0.46	1.74	1.01	0.54	0.1	-0.625	0.17	0.738978	0.45301	0.61109	0.999971	1	0.916795	
Rragc	Q9K70	0.99	0.64	-0.09	-0.1	0.46	0.91	0.19	-0.05	0.73	0.5	-0.04	-0.41	0.31	1.03	-0.08	-0.08	0.0175	-0.165	-0.005	0.958664	0.653702	0.859731	0.999971	1	0.982702	
Rragd	BLIAW72	1.21	0.56	1.62	2.25	0.6	1.15	2.14	1.92	0.52	0.82	1.54	1.04	-0.42	0.5	1.31	0.17	0.0425	-0.43	-1.02	0.927675	0.296973	0.056	0.999971	1	0.725348	
Rras	P10B33	-1.5	0.33	-0.91	-0.99	1.01	0.4	-1.11	-0.95	0.47	-0.83	-0.82	-0.41	0.91	-0.34	-1.05	-1.06	0.605	0.37	0.3825	0.31061	0.94505	0.497462	0.999971	1	0.902055	
Rrs2	PE0271	-1.26	-0.93	-0.8	-0.89	-0.38	-0.72	-1.14	-0.71	-0.43	-0.88	-0.57	-0.27	-0.46	-1.06	-0.67	0.81	0.235	0.45	0.3575	0.311177	0.64031	0.124059	0.999971	1	0.82325	
Rrbp1	AZAV17	0.79	-0.5	-0.07	-0.12	-0.11	0.1	0.88	-0.01	0.21	0.84	0.1	0.09	0.04	0.12	0.15	0.16	0.19	-0.295	0.0925	0.588283	0.37499	0.748143	0.999971	1	0.961064	
Rrm1	P07742	-0.42	0.36	0.02	-0.06	-0.65	-0.53	-0.12	-0.97	0.39	0.2	-0.51	-0.56	0.14	0.4	0.23	-0.26	-0.2175	-0.099	0.1525	0.559176	0.75132	0.356968	0.999971	1	0.910077	
Rrm2b	Q6PEE3	1.09	0.75	0.61	0.04	1.79	1.56	0.4	0.77	1.69	0.99	0.87	0.79	0.77	1.58	0.69	0.34	0.2575	-0.128	-0.0275	0.579904	0.59815	0.948318	0.999971	1	0.997766	
Rrp1	PE5183-2	1.1	1.1	1.78	1.12	1.76	3.63	0.85	0.15	-0.47	0.72	0.4	-0.72	0.4	-0.72	0.4	-0.72	0.4	-0.72	-1.14	-0.47	0.72	0.4	-0.72	0.999971	1	0.987095
Rrp1b	Q6P8B0	0.54	0.34	0.11	-0.12	0.56	0.02	-0.24	0.21	0.33	0.21	-0.1	0.29	0.12	-0.13	-0.23	0.62	-0.19	-0.18	-0.435	0.470941	0.94155	0.101643	0.999971	1	0.873468	
Rrp5	Q9CYK7	-1.6	-0.28	-0.25	-0.16	-0.14	-1.53	-0.38	0.01	-1.08	-0.71	-0.11	-0.28	-0.69	-1.11	0.12	-0.56	-0.0475	-0.0825	-0.0975	0.90557	0.797672	0.776439	0.999971	1	0.964475	
Rrp5b	Q91WM3	0.16	0.01	-0.29	-0.22	0.08	-0.11	-0.83	-0.77	-0.42	0.83	-0.14	-0.27	-0.62	-0.3	-0.83	-0.46	-0.4325	-0.025	-0.5775	0.188277	0.941859	0.04819	0.999971	1	0.710102	
Rrs	Q8YH96	-0.73	-0.93	-0.34	-0.08	-0.44	-0.87	-0.63	-0.49	-1.14	0.4	0.05	-0.73	-0.93	-0.75	-0.71	-0.72	-0.0875	-0.005	-0.2575	0.712157	0.912054	0.289103	0.999971	1	0.847402	
Rrf1	ESPWW5	-1.37	-0.37	-1.47	-1.49	-1.12	-1.18	-1.25	-1.81	-1.13	-1.43	-0.85	-1.65	-1.5	-1.31	-0.92	-1.3	-1.02	-0.23	-0.45	-0.005	0.466657	0.448269	0.931669	0.999971	1	0.992098
Rrtd1	Q8BYV0	2.15	0.39	2.3	1.82	-0.38	0.9	2.19	2.14	-0.6	0.89	2.68	2.63	-0.26	0.39	2.78	1.84	-0.4525	-0.265	-0.4775	0.510153	0.542581	0.521909	0.999971	1	0.907417	
Rr2d41	ESPYP5	-0.89	0.72	-0.25	-1.18	0.11	0.6	0.59	-2.17	0.41	-0.09	-0.91	-1.5	0.62	0.43	-1.64	-0.26	0.1825	-0.1225	0.1875	0.796684	0.824506	0.757273	0.999971	1	0.961116	
Rrgp1	Q8BRV6	-0.7	-1.02	-0.69	-0.65	-1.07	-0.62	-1.1	-0.43	-1.14	-0.53	-0.56	-0.83	-0.81	-0.78	-0.47	-0.48	-0.4	1.57E-16	0.13	0.860079	1	0.305182	0.999971	1	0.905277	
Rrc1	Q3TG11	-0.56	0	0.66	0.21	0.68	-0.35	0.01	-0.01	0.02	0.09	0.37	0.41	0.03	-0.58	-0.25	0.6	0.11	0.25	-0.0225	0.742087	0.293785	0.94904	0.999971	1	0.998038	
Rrc2	S4R24	1.39	1.76	2.76	2.16	1.83	1.67	2.73	2.39	1.77	1.29	2.57	1.69	1.32	1.61	1.77	1.4	0.1375	-0.1875	-0.4925	0.711925	0.627374	0.144293	0.999971	1	0.790933	
Rrs1	Q90031	0.81	0.39	-0.06	-0.07	0.92	0.45	0.56	-0.11	0.63	0.88	0.46	0.86	0.4	0.45	0.16	0.13	0.1875	0.44	-0.0475	0.54438	0.113262	0.859944	0.999971	1	0.982702	
Rrc1A	Q907H3	2.74	1.75	1.59	1.68	0.87	1.76	1.94	1.35	1.09	1.86	1.31	1.25	1.09	1.18	1.7	1.33	-0.46	-0.5625	-0.615	0.213422	0.105287	0.071784	0.999971	1	0.739418	
Rrcb	Q9R1F4	0.27	1.52	1.09	0.12	1.75	0.72	1.27	0.34	1.78	0.21	1.43	1.82	1.52	0.36	0.96	0.09	0.27	0.56	-0.1675	0.534534	0.255057	0.701037	0.999971	1	0.948019	
Rrc2A	AZAIQ19	1.38	2	1.74	1.79	1.77	1.83	1.21	1.94	1.84	1.67	1.87	1.87	1.58	1.99	1.56	1.25	-0.04	0.085	0.2175	0.8676	0.664459	0.354218	0.999971	1	0.868793	
RrkA	ADAI05RU	0.18	-1.06	0.07	-0.12	-1.13	0.68	-0.67	-0.12	-0.49	-0.51	-0.72	-0.47	0.23	-0.66	0.03	0.39	-0.0775	-0.315	0.23	0.863665	0.305092	0.52547	0.999971	1	0.909437	
RrkA	Q8C6B2-2	-0.04	-0.07	0.52	0.7	-0.58	-0.3	0.6	0.88	0.03	-0.3	1.04	1.1	-0.25	-0.36	0.99	1.05	-0.1275	0.19	0.08	0.74161	0.628333	0.845512	0.999971	1	0.979908	
RrkA	Q8Z4N1	2.68	-0.37	0.58	1.4	0.1	0.76	1.17	0.55	0.12	2.77	0.89	1.14	0.8	-0.54	-0.44	-0.51	-0.4775	-0.2625	-0.167	0.454943	0.732363	0.019426	0.999971	1	0.835388	
RrkB	Q901P0	-0.22	1.05	0.4	0.2	0.54	0.2	0.52	-0.12	0.63	-0.46	0.3	0.46	-0.35	0.41	0.36	0.46	-0.0025	0.770789	0.292908	0.999971	1	0.999971	1	0.999971		
Rrk1	Q8K0T0	0.25	-0.84	-0.18	0.12	-0.72	-0.78	-0.23	0.08	-0.6	-0.59	-0.2	-0.22	-0.45	-0.76	0.05	0.14	-0.125	-0.115	0.0325	0.67494	0.652243	0.914047	0.999971	1	0.992633	
Rrk1b	Q7W6M1	0.87	-0.1	0.41	0.15	0.01	1.11	0.8	1.31	0.8	0.38	0.85	0.76	-0.32	0.76	0.86	0.07	0.475	0.365	0.01	0.194921	0.19239	0.976911	0.999971	1	0.999925	
Rrk2	T07622	0.18	-0.66	-0.84	-1.2	-1	-0.84	-0.94	-0.79	-0.77	0.13	-1.21	-1.95	-0.94	-0.51	-1.03	-1.2	-0.2625	-0.32	-0.29	0.39734	0.57828	0.387515	0.999971	1	0.871816	
Rrk3	Q8E597-2	-0.21	-0.65	-0.91	-0.06	-0.86	-0.2	-0.88	-0.29	0.8	-0.4	-0.05	-0.1	-0.3	-0.16	-0.1	-0.16	-0.125	-0.248084	0.77193	0.979765	0.999971	1	0.999971	1	0.999971	
Rrk3b	Q8E597-3	-1.09	-0.65	-0.85	-0.15	-1.38	0.13	0.29	-0.72	-1.41	-0.69	-1.42	-1.04	-2.67	0.99	-0.68	-0.52	0.265	-0.455	-0.035	0.528402	0.130447	0.960282	0.999971	1	0.998721	
Rrk4	Q9P772-1	-4.59	-0.66	-1.38	-2.81	-0.2	-1.41	-0.91	-2.31	-0.28	-2.55	-1.13	-0.5	-0.37	-1.55	-1.57	-2.59	1.1525	0.57	0.84	0.208922	0.662995	0.351754	0.999971	1	0.867656	
Rrk4b	Q9P772	-0.47	-0.66	-0.85	-0.78	-0.68	-0.66	-0.65	-0.57	-0.51	-0.56	-0.65	-0.23	-0.15	-0.5	-0.51	-0.35	0.2025	0.3125	0.747361	0.296146	0.12462	0.999971	1	0.782628		
Rrk4b1	ADAI04K05	-0.21	-0.59	-0.3	-0.27	-0.82	-1.35	1.64	-0.48	-1.29	1.03	-1.61	1.26	-1.06	-1.25	-0.33	-0.18	-0.675	-0.171	0.201	0.183046	0.999971	1	0.999971	1	0.999971	
Rrk4r	Q9P9B	-0.41	-0.26	-1.65	-1.32	-0.33	0.06	-1.47	-1.02	-0.37	-0.19	-1.22	-1.35	-0.39	-1.48	-0.89	0.22	0.175	0.3025	0.629398	0.765494	0.532156	0.999971	1	0.910609		
Rrk4r1	Q8K055	-1.36	0.35	0.58	0.11	1.01	0.04	-0.28	-0.08	0.7	-1.7	-0.28	0.47	1.43	-0.37	0.24	0.04	0.3925	-0.1225	0.415	0.411189	0.847396	0.448599	0.999971	1	0.885333	
Rrk4r2	AZAT56	-0.93	-0.53	-0.84	-0.83	-0.49	-0.29	-0.28	0.5	-0.61	-0.6	-0.38	-0.42	0.53	-0.62	-0.57	-0.57	0.3925	0.28	0.21	0.059002	0.143937	0.251729	0.999971	1	0.839012	
Rrk4r3	Q8C0E8	2.17	1.87	1.68	1.79	2.12	1.71	1.74	1.65	1.07	2.04	1.74	2.01	2.12	1.49	1.45	1.78	0.7275	0.3375	-0.1675	0.72622	0.69848	0.480676	0.999971	1	0.892481	
Rrk4r4	Q8Z7B1	-0.16	0.18	0.12	0.74	0.71	0.2	0.52	-0.25	-0.12	0.63	-0.46	0.3	0.46	-0.35	0.41	0.36	0.46	-0.7225	0.427408	0.89011	0.990964	0.999971	1	0.999971		
Rrk4r5	Q8U17	0.31	1.38	1.1	0.82	1.34	1.2	0.97	1.07	1.37	0.48	1.34	1.01	0.88	0.99	1.08	1.19	0.2425	0.1475	0.1235	0.369743	0.23981	0.614669	0.999971	1	0.927806	
Rrk4r6	Q8R4C2	0.66	0.03	-0.44	-0.23	0.15	0.51	0.02	0.11	0.33	0.82	0.07	-0.28	0.91	0.57	0	0.24	0.1925	0.23	0.425	0.495651	0.493666	0.199982	0.999971	1	0.813335	
Rrk4r7	Q132D03	-1.32	-0.73	-1.63	-1.05	-1.41	-1.03	-1.64	-0.27	-0.53	-1.12	0.82	-1.55	-1.47	-0.84	1.05	-0.83	0.595	1.3375	1.16	0.205594	0.404288	0.088077	0.999971	1	0.752524	
Rrk4r8	Q90394-3	-0.29	-0.37	-2.82	-1.37	-2.12	-0.57	-1.18	-0.26	-1.12	0.32	0.63	-0.88	-2.32	1.67	0.08	0.12	-0.37	0.345156	0.802076	0.999971	1	0.999971	1	0.999971		
Rrk4r9	Q90394-4	0.43	-0.05	-0.76	-0.31	-0.6	0.08	1.39	-1.29	-0.17	1.38	-0.96	0.74	0.49	-0.26	-0.57	-0.98	0.6975	0.05	-0.1575	0.905784	0.926152	0.683072				

Soc	Q7RYZ6-2	-3.56	-5.55	-1.5	-1.1	-4.83	-4.85	-1.21	-1.09	-4.75	-4.61	-1.49	-0.78	-7.37	-4.53	-1.29	-1.32	-0.0675	0.02	-0.7	0.958969	0.98775	0.660237	0.999971	1	0.935541	
Scp2	P3J2020	-0.93	-0.84	-0.92	-1.11	-0.84	-0.53	-0.85	-0.48	-0.56	-0.41	-0.91	-0.95	-0.12	-0.34	-0.54	-0.29	0.775	0.2425	0.6275	0.164132	0.242488	0.008999	0.999971	1	0.582714	
Scwp1	Q92D45	0.59	0.55	0.84	0.4	0.9	0.97	0.83	1.12	0.77	1.04	0.91	0.85	0.61	0.7	0.37	0.61	0.335	0.225	-0.0475	0.059759	0.15491	0.799764	0.999971	1	0.970626	
Scrg1	Q8H745	-0.46	0.97	-1.12	1.24	1.12	0.98	0.38	0.86	0.42	0.12	0.92	1.22	1.19	0.96	1.12	1.36	0.1175	0.0475	0.44	0.774313	0.91422	0.726896	0.999971	1	0.843812	
Scrb	Q8U072	-0.7	-1.68	-1.43	-1.29	-1.46	-1.91	-1.45	-1.24	-1.66	-1.38	-1.37	-1.04	-1.39	-1.65	-1.44	-1.21	-0.24	-0.0875	-0.1475	0.38578	0.740665	0.56449	0.999971	1	0.917442	
Scrt1	Q9CZ28	0.3	0.15	0.31	0.06	0.23	0.04	0.47	-0.12	0.48	0.32	0.13	-0.28	0.17	0.14	0.01	-0.28	0.05	-0.0425	-0.28	0.802291	0.844783	0.156443	0.999971	1	0.796008	
Scm2	Q8VC48	-0.2	0.87	1.85	1.02	0.3	0.91	2.27	0.63	-0.22	-0.41	-0.43	0.83	-0.12	0.24	-0.44	-0.14	-0.19	0.2	-0.36	-0.0975	0.646212	0.44033	0.857396	0.999971	1	0.843794
Scn3	Q3JTMH2	-0.7	-0.04	0.13	-0.01	0.02	0.02	0.08	0.3	-0.16	-1.34	-0.41	0.06	-0.82	-0.59	-0.13	-0.39	0.26	-0.3075	-0.3275	0.282267	0.394126	0.229761	0.999971	1	0.826867	
Scrt1	Q9YM85	0.33	1.11	0.24	0.38	-0.08	0.2	1.12	0.47	0.29	0.2	0.33	-0.48	-1.7	0.47	0.72	0.89	-0.0875	-0.19	-0.42	0.78869	0.435801	0.478255	0.999971	1	0.894438	
Scubel1	A24444	1.33	0.46	-0.23	-0.08	0.53	0.59	0.25	-0.25	0.32	-0.87	-0.28	0.57	0.41	0.57	0.01	-0.09	0	-0.145	0.815759	1	0.701704	0.999971	1	0.949019		
Scy1	R4HVU1	-0.02	-0.64	-0.34	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	0.951775	0.451875	0.40189	0.999971	1	0.059204	
Scrt1	Q8CFE4	0.02	-0.53	-0.36	-0.78	-0.55	-0.42	-0.14	-0.59	-0.02	0.39	-0.11	0.13	-0.24	-0.39	-0.21	-0.58	-0.0125	0.51	0.0575	0.951751	0.053465	0.801297	0.999971	1	0.971405	
Scd1	Q9O8073	-0.13	-0.08	0.78	0.7	0.55	-0.89	0.41	0.68	-0.12	0.12	0.62	0.59	0.05	-0.34	0.72	0.95	-0.13	-0.075	0.0275	0.755112	0.816516	0.941332	0.999971	1	0.996526	
Sjd1d1	A0A091V2	0.92	0.56	0.63	0.35	0	0.8	0.19	0.82	0.04	0.78	-0.16	1.59	0.16	0.56	1.29	1.37	-0.1625	-0.0525	0.23	0.541095	0.895023	0.476899	0.999971	1	0.894438	
Scd2	P43407	-1.33	-0.7	0.38	1	-0.43	-0.81	0.79	-0.18	0.08	-0.26	0.23	0.79	0.4	-0.85	0.55	-0.21	0.005	0.3725	0.135	0.959026	0.485953	0.810946	0.999971	1	0.973864	
Scd3	Q64519	0.72	-1.74	0.55	-1.87	-1.65	-0.77	-0.44	-0.43	0.83	-0.12	0.24	-0.44	-1.14	-0.19	0.2	-0.36	0.425	-0.0075	0.646212	0.44033	0.857396	0.999971	1	0.982702		
Scd4	Q53988	0.15	-1.06	-1.17	-0.58	-1.06	-0.56	-1.32	-0.29	-1.31	-0.49	-1.31	-1.14	-1.35	-0.98	-1.37	-0.42	-0.125	-0.1525	-0.365	0.700679	0.758551	0.331127	0.999971	1	0.857107	
Scdcp	Q3JTMX0	-1.06	0.52	-0.79	-0.86	0.92	1.17	-0.8	-0.64	0.73	-0.75	-0.6	-0.24	1.07	0.92	-0.94	-0.51	0.71	0.3325	0.6825	0.236606	0.47764	0.250431	0.999971	1	0.839012	
Scd2	Q8K15	2.24	1.38	1.55	1.89	1.54	1.21	1.55	1.59	0.91	1.2	1.25	0.82	0.14	1.17	1.31	1.17	-0.2925	-0.47	-0.8175	0.24616	0.214569	0.036364	0.999971	1	0.689803	
SdP2	A0A0K4Z4	-1.42	0.37	0.17	-0.64	1.39	0.47	0.77	0.04	1.18	-0.9	1.59	1.9	1.6	1.3	0.47	-0.59	1.415	1.69	0.585	0.060266	0.083469	0.50112	0.999971	1	0.904723	
SdP21	Q9SP51	-0.3	-0.13	1.07	-0.01	0.1	0.42	2.65	-0.19	0.24	-0.81	0.85	0.44	-0.26	-1.09	0.41	-1.17	0.5375	0.0225	-0.685	0.427937	0.959551	0.15896	0.999971	1	0.798217	
SdP21	Q61112	0.62	1.46	2.27	1.87	1.31	1.13	2.19	2.06	1.53	1.13	2.57	2.55	1.54	1.05	1.92	2.1	0.1175	0.39	0.0975	0.779272	0.421134	0.809462	0.999971	1	0.973762	
Sdha	Q8H283	-0.46	-0.12	-0.2	-0.6	-0.41	-0.23	-0.24	-0.18	-0.28	-0.5	-0.32	-1.84	0.1	-0.24	-0.17	0.57	0.08	-0.39	0.125	0.670991	0.315171	0.575985	0.999971	1	0.918194	
Sdha1	Q3J276	1.4	-1.5	-0.18	-0.32	-0.52	-1.13	-0.55	0.37	-0.24	0.54	-1.12	-0.2	-1.07	0.54	0.1	0.1	-0.3575	-0.105	0.0675	0.572094	0.867091	0.014239	0.999971	1	0.992633	
Sdha2	A0A494B9	0.23	-0.69	0.09	-0.01	-0.42	-0.64	-0.02	-0.25	-0.96	0.6	-0.49	-0.25	-0.34	-0.22	-0.01	0.19	-0.6875	-0.63	-0.45	0.234003	0.320021	0.421486	0.999971	1	0.877788	
Sdha3	Q8HQ3	1.09	-0.54	0.09	-0.37	-0.38	0.52	0.88	0.51	-0.25	0.61	-0.47	-1.64	0.74	0.82	0.87	0.65	0.315	-0.05	0.7025	0.469634	0.367309	0.078637	0.999971	1	0.754157	
Sdha4	Q8HTE0	0.09	-0.21	0.36	0.05	-0.25	-0.27	-0.42	0.07	-0.87	0	0.14	-0.14	0.19	0.18	0.42	0.99	-0.40	-0.29	0.3725	0.9111	0.300521	0.163634	0.999971	1	0.800215	
Sdha5	Q9CJ43	-2.01	-0.27	-1.61	-1.74	-1.7	-2.47	-0.86	-1.43	-1.8	-1.3	-1.16	-1.29	-1.87	-2.1	-1.45	-1.8	0.2425	-0.22	0.0525	0.489044	0.495428	0.810737	0.999971	1	0.973864	
Sdha6	Q9CZ80	-0.31	2.12	1.26	-0.29	0.31	2.03	1.94	0.46	0.47	1.13	2.02	1.65	1.34	1.92	1.1	0.09	0.745	0.68	-0.7075	0.259484	0.337569	0.978075	0.999971	1	0.871816	
Sdha7	Q9CVCV	0.05	-1.39	-0.26	-0.26	-2.04	-0.98	-0.11	-0.12	-1.4	-0.61	0.25	-0.09	-0.36	-1.18	0.24	0.41	-0.2875	0.0025	-0.425	0.595482	0.995576	0.581939	0.999971	1	0.920364	
Sdha8	Q3JH53	4.88	-0.59	-2.14	-1.68	-0.01	-0.3	-1.92	-2.65	0.9	4.33	-2.36	-1.47	-0.59	-0.53	-2.29	-2.38	-1.3375	-0.2175	-1.565	0.396126	0.912146	0.314886	0.999971	1	0.851847	
SdK2	Q9V455	-1.13	-1.51	-1.13	-1.09	-1.53	-1.34	-1.19	-0.66	-1.25	-0.99	-0.71	-0.91	-1.15	-1.5	-0.94	-0.56	0.035	0.25	-0.175	0.885292	0.23264	0.48291	0.999971	1	0.896345	
SdP1	Q3JH84	-1.76	-0.82	-1.35	-1.29	-1.87	-1.65	-0.77	-0.44	-1.16	-1.13	-1.11	0.53	-0.41	-1.18	-0.19	0.2	0.315	0.0015	0.172991	0.405409	0.44114	0.999971	1	0.928702		
SdL1	Q8R238	0.53	-0.07	-0.38	-0.08	-0.05	0.45	-0.44	0.04	-0.13	0.23	-0.72	-0.34	-0.74	0.35	-0.63	-0.21	0.3937	-0.24	-0.3075	0.5	0.1429	0.344408	1	0.862346		
SdL2	Q3JYVW0	0.52	0.09	0.23	0.57	-0.01	0.47	-0.01	0.42	-0.07	0.81	0.52	0.73	-0.41	0.67	0.37	0.88	-0.135	0.145	0.025	0.542637	0.571503	0.935867	0.999971	1	0.995618	
SdL3	Q3JZH3	-0.01	-0.06	-0.94	-0.36	-0.78	-0.02	-1.14	-0.71	-0.24	-0.15	-0.74	-0.41	0.13	0.43	-0.62	-0.4	-0.32	-0.0425	0.2275	0.330335	0.871481	0.488246	0.999971	1	0.898175	
SdL4	Q9D1M0	-0.17	0.15	0.21	0.06	0.09	0.13	0.08	0.17	0.13	0.18	0.77	0.16	0.79	-0.16	0.35	0.175	0.145	0.19	-0.1775	0.051623	0.771968	0.601164	0.999971	1	0.904723	
SdL5	Q3JH1	0.25	0.38	-0.05	-0.39	0.18	0.08	-0.62	-0.3	0.05	0.5	-0.02	-0.62	-0.47	0.25	-0.36	-0.13	-0.1225	-0.07	-0.225	0.440041	0.81038	0.935111	0.999971	1	0.871816	
SdL6	Q9J908	-0.2	0.02	0.53	0.63	0.06	0.34	0.33	0.61	-0.03	-0.38	0.06	-0.11	-0.52	-0.2	0.17	0.34	0.09	-0.36	-0.2975	0.72467	0.171256	0.319712	0.999971	1	0.853962	
SdL6a	Q9D4T4-2	1.06	1.29	1.33	1.23	1.13	1.1	1.25	1.34	1.06	1.14	1.24	1.37	1.15	1.37	1.12	1.15	-0.0225	-0.025	0.095	0.895975	0.884284	0.954839	0.999971	1	0.92377	
SdL2b	Q9D847	-0.01	-0.19	-0.22	-0.1	-0.57	-0.37	0.18	-0.01	-0.45	0.13	-0.09	-0.33	0.3	-0.4	-0.22	-0.05	-0.0625	-0.1625	-0.075	0.7784	0.356098	0.52609	0.999971	1	0.909499	
SdL2b	Q9D151	0.29	0.59	0.34	0.33	0.78	0.55	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.175	0.421471	0.326	0.6047	0.999971	1	0.973864	
SdL2b	Q9D662	0.5	1.19	0.59	0.47	0.99	0.92	0.45	0.82	0.92	0.68	0.05	0.55	1.01	1	0.82	0.49	0.1075	-0.1375	0.1425	0.65538	0.610576	0.558998	0.999971	1	0.915051	
SdL2b	Q3JX28	0.85	1.63	1.1	1.46	1.69	1.25	1.5	1.17	1.95	1	1.17	1.95	1	1.17	1.95	1.18	0.1425	0.09	0.1125	0.561835	0.752579	0.646683	0.999971	1	0.933613	
SdL2a	Q9A741	0.38	0.41	0.45	0.31	0.57	0.13	-0.07	0.59	0.31	0.65	0.18	0.61	0.73	0.48	0.44	0.7	-0.0825	0.05	0.2	0.70177	0.78713	0.2646	0.999971	1	0.842533	
SdL2a	Q8D200	-0.56	0.25	0.14	0.27	0.41	0.23	0.49	0.31	0.65	0.22	0.47	0.16	0.25	0.4	0.11	0.08	-0.0475	-0.59994	-0.0475	0.59994	0.643478	0.339971	1	0.749036		
SdL2a	A0A28D70	-0.25	-0.54	-1.66	-2.35	-1.02	-1.31	-1.59	-1.21	-0.97	-0.29	-0.52	-0.79	-0.71	-1.46	-1.82	-1.39	-0.0825	-0.45	-0.145	0.86064						

SfB3a	Q8QZ99	-1.45	0.98	-0.57	-1.14	1.39	0.41	-1.08	-0.85	1.57	-1.79	-0.81	-0.08	1.66	0	-1.01	-0.72	0.5125	0.2675	0.5275	0.478914	0.740581	0.475646	0.999971	1	0.894045	
SfB3b	Q9J234	-0.65	-1.79	-0.71	-1.11	-2.38	-2.37	0.16	-1.48	-1.99	-1.65	-1.29	0.6	-3.46	-1.37	-0.85	-1.68	-0.4525	-0.1075	-0.775	0.45512	0.976807	0.199199	0.999971	1	0.813135	
SfB3c	P5J708	0.4	1.15	0.1	0.3	0.52	0.72	1.15	0.16	0.41	0.88	0.8	0.3	0.43	1	1.03	0.66	0.65	0.1775	0.1	0.2455	0.951839	0.909397	0.999971	1	0.860929	
SfB	Q70546	-0.29	0.45	0.27	0.52	-0.17	0.41	0.39	0.51	0.05	0.28	0.56	-0.21	-0.36	0.44	-0.11	0.81	0.0475	-0.0675	-0.0425	0.8562	0.799603	0.938627	0.999971	1	0.988571	
SfBq	Q8U166	2.09	1.83	1.92	2.01	1.83	1.87	1.88	1.91	1.82	1.87	1.8	1.94	1.28	1.8	1.84	1.82	-0.09	-0.105	-0.1775	0.588308	0.523921	0.195547	0.999971	1	0.811225	
SfBq1	Q8R297	1.17	1.56	1.42	1.43	1.95	1.03	2.99	3.2	1.61	1.11	1	3	1.42	1	0.91	3.28	3.52	-0.1025	-0.11	-0.2925	0.8846	0.881654	0.815599	0.999971	1	0.974918
SfBq2	Q8CAU3	-0.18	-0.13	0.74	-0.86	0.01	-0.29	0.74	-0.21	-0.45	-0.32	-0.12	0.21	-0.34	0.32	0.42	0.49	-0.2975	-0.1025	0.18	0.33971	0.467337	0.718282	0.999971	1	0.894438	
SfBq2	Q3U5H5	-2.17	1.82	2.35	2.87	2.68	2.21	3.31	2	2.36	2.46	1.12	1.56	3.45	3.27	2.25	1.32	0.2475	-0.4275	0.27	0.452848	0.27554	0.593511	0.999971	1	0.923397	
SfBq2	Q4A004GYC	-4.76	-3.21	-0.36	-0.61	-2.96	-1.95	-0.95	-0.72	-1.59	-3.32	-0.28	-1.05	-3.79	-3.11	-0.67	-1.12	0.59	0.0625	0.577349	0.548566	0.95669	0.999971	1	0.998513		
SfBq3	Q39J91	0.84	-0.25	0.24	0.21	-0.43	-0.19	-0.07	-0.12	-0.48	0.2	-0.5	-0.49	-0.82	-0.13	-0.52	-0.4	-0.3075	-0.4575	-0.605	0.303204	0.169279	0.070889	0.999971	1	0.736129	
SfBq3	Q25202	1.54	0.85	0.29	0.14	0.18	0.13	0.23	0.19	0.51	0.23	0.33	0.16	0.76	0.33	0.16	-0.33	-0.16	-0.2075	-0.577584	0.070511	0.106355	0.999971	1	0.817714		
SfBq3	Q31V61	0.05	-0.36	-0.28	-0.19	-0.14	-0.52	-0.34	-0.04	-0.48	-0.32	-0.04	-0.18	-0.29	0.06	0.35	-0.065	-0.0425	-0.185	0.743851	0.825331	0.938663	0.999971	1	0.878116		
SfBq3	Q25201	0.37	3.76	-0.46	-0.63	4.86	2.47	0.45	-0.03	0.59	0.32	0.75	1.13	8.86	2.45	0.37	-0.82	1.1775	1.875	1.955	0.391212	0.41504	0.367106	0.999971	1	0.869526	
SfBq3	Q25200	-0.54	-0.69	-1.39	-1.16	-0.91	-0.75	-1.2	-0.64	-0.56	-0.83	-1.4	-1.24	-0.36	-0.74	-1.16	-1.15	0.07	-0.0625	0.0925	0.786	0.827969	0.749249	0.999971	1	0.961064	
SfBq3	P82347	1.62	-1.43	-0.95	0.01	-0.53	-0.96	-0.18	-0.47	-0.93	-1.49	-0.48	-0.2	-1.37	-0.93	-0.57	-1.1	-0.2975	-0.2075	-0.7675	0.651744	0.79487	0.26277	0.999971	1	0.842381	
SfBq3	Q8V033	-0.18	-0.13	0.15	-0.15	-0.04	0.72	-0.11	-0.58	-0.65	-0.15	-0.29	0.21	-0.34	0.32	0.42	0.49	-0.2975	-0.1025	0.2175	0.257697	0.683931	0.719357	0.999971	1	0.871816	
SfBq3	Q8K5X1	-1.38	-1.93	-1.24	-0.85	-1.99	-2.78	-1.05	-0.89	-1.95	-1.96	-1.04	-1.9	-0.8	-1.13	-1.2	-0.99	-0.2025	-0.3625	0.32	0.606587	0.273846	0.244146	0.999971	1	0.837316	
SfBq3	Q8V037	-0.96	-0.15	-0.31	-0.79	-0.68	-2.01	-1.17	-0.86	-1.03	-2.51	-0.99	-0.09	-0.3	-1.02	-0.19	-0.44	-0.6275	-0.6025	0.065	0.09746	0.248397	0.814796	0.999971	1	0.974929	
SfBq3_1	Q8V037-3	-1.81	-1.51	-1.55	-1.03	-2.27	-2.58	-2.58	-0.69	-2.37	-1.76	-0.19	-1.43	0.31	-3.17	-1.64	-1.6	-0.555	-0.3075	-0.05	0.239129	0.934722	0.339895	0.999971	1	0.959689	
SfBq3_2	Q8V037-6	-0.37	-0.18	-0.52	-0.18	-0.84	-1.1	-0.15	-0.62	-0.9	-0.76	-0.12	0.21	-0.49	-1.18	-0.61	-0.92	-0.085	0.2025	-0.2075	0.780404	0.537747	0.44235	0.999971	1	0.863386	
SfBq2	Q9Q255-2	1.91	3.69	5.13	3.04	2.3	2.08	4.18	3.81	2.05	2.99	5.75	8.35	5.99	1.15	5.78	2.12	-0.35	1.3425	0.0675	0.650878	0.353408	0.961599	0.999971	1	0.998721	
SfBq2	Q8R0X7	0.2	0.24	0.13	0.14	0.26	0.41	0.68	0.19	0.65	0.77	0.62	0.55	0.52	0.33	0.28	0.71	0.2075	0.07	0.2825	0.278868	0.015607	0.14461	0.999971	1	0.790933	
SfBq1	Q39J99	1.56	-0.06	-0.13	0.3	0.4	0.83	0.06	-0.35	0.39	1.39	-0.4	-0.61	0.19	0.69	-0.54	-0.84	-0.1825	-0.225	-0.5425	0.678667	0.685774	0.283639	0.999971	1	0.844538	
SfBq1	Q9C308	-0.31	0.06	0.72	1.29	0.01	-0.21	0.04	2.81	-0.48	-0.78	-0.31	0.1	-0.34	0.01	1.73	1.74	0.2225	-0.8075	0.345	0.755566	0.062039	0.569236	0.999971	1	0.91816	
SfBq1	B2R0R5	-0.49	-0.94	-0.62	-0.48	-0.74	-0.74	-0.83	-0.41	-0.53	-0.38	-0.44	-0.42	-0.13	-0.48	0	-0.18	-0.4075	-0.19	0.435	0.812405	0.311523	0.057398	0.999971	1	0.725348	
SfBq1	Q8U012	1.08	-0.19	-0.07	-0.28	-0.65	-0.17	-0.48	-0.26	-0.64	-0.52	-0.35	-0.02	-0.92	-0.03	0.26	0.41	-0.395	-0.2575	-0.205	0.296024	0.513412	0.623448	0.999971	1	0.930272	
SfBq1	Q8RVC26	1.47	1.78	0.56	1.32	1.39	1.16	0.85	1.09	1.67	1.96	1.01	0.74	1.43	2.27	1.09	1.58	-0.05	0.2625	0.31	0.872576	0.866823	0.390314	0.999971	1	0.871816	
SfBq1	Q8U010	0.29	0.4	0.56	0.29	0.72	0.03	1.44	0.14	1.56	-0.37	0.99	1.86	1.56	-1.03	0.36	-0.19	0.1975	0.5	-0.21	0.552583	0.251889	0.680113	0.999971	1	0.942957	
SfBq1	Q8U013	0.13	-0.12	0.16	0.15	0.03	0.12	0.32	0.09	-0.27	-0.12	0.41	-0.07	-0.34	0.24	0.11	0.19	-0.205	-0.2175	-0.125	0.903139	0.251256	0.099261	0.999971	1	0.926828	
SfBq1	Q31ZM2-2	3.65	0.27	1.87	0.67	-0.36	1	3.3	0.52	1.77	1.48	0.94	1.47	-2.06	-1.14	-0.47	-2.81	-0.76	-0.2	-3.235	0.470988	0.277846	0.030485	0.999971	1	0.577721	
SfBq1_1	Q31ZM2-4	0.41	0.4	0.47	0.44	0.33	0.24	0.11	0.26	0.3	0.38	0.12	0.09	0.5	0.39	0.25	0.74	-0.195	-0.2075	0.04	0.24932	0.230284	0.826469	0.999971	1	0.976804	
SfBq2	Q4A0G2E2	-0.18	-0.27	-0.32	-1.22	-0.53	-1.18	-0.04	-0.22	-0.73	-0.14	-0.95	-1.35	-1.46	0.14	-1.14	-0.94	-0.22	-0.6045	-0.1025	0.662936	0.960003	0.813986	0.999971	1	0.974858	
SfBq2	Q25256-2	0.22	0.13	-0.13	-0.83	-0.04	0.72	-1.1	-0.72	-0.58	-0.31	-0.29	-0.16	-0.1	-0.34	-0.16	-0.14	-0.0625	-0.1925	0.2425	0.863421	0.821393	0.711915	0.999971	1	0.926828	
SfBq2	Q8ZV55	-0.34	-0.06	0.83	0.52	-0.05	-0.67	0.54	0.68	0.13	-0.23	0.68	0.47	0.03	-0.23	0.75	0.33	-0.1125	-0.025	-0.0175	0.774048	0.939861	0.958628	0.999971	1	0.998622	
SfBq2	Q31UJ8	0.17	0.03	0.71	0.52	0.33	-0.37	0.85	0.55	0.16	0.06	1.02	1.24	-0.17	-0.26	0.83	0.65	-0.0175	0.2625	-0.095	0.954734	0.441421	0.768349	0.999971	1	0.962535	
SfBq2	Q8R673	0.02	0.76	0.3	0.44	0.35	0.46	0.5	-0.22	0.41	-0.87	-0.09	-0.12	0.43	0.14	-0.07	-0.23	-0.1075	-0.45475	-0.3125	0.672978	0.105118	0.108919	0.999971	1	0.827604	
SfBq2	Q31VW3	-0.49	0.18	0.35	0.11	0.34	0.1	0.15	0	0.15	0.77	0.49	-0.18	-0.61	-0.92	-0.085	0.2025	-0.1025	-0.1025	0.1025	0.37111	0.899427	0.77119	0.999971	1	0.926828	
SfBq2	P51534	1.47	-1.18	0.05	-0.27	-0.32	-0.02	1.02	-0.79	-1.27	0.14	0.05	-0.9	-1.13	-0.44	-1.14	-1.27	-0.43	-0.8975	-1.3975	0.393731	0.086518	0.036313	0.999971	1	0.582714	
SfBq2	Q92116	-0.45	-0.5	-0.11	-0.04	-0.11	-0.65	-0.32	0.16	-0.51	-0.12	0.02	-0.03	-0.23	-0.16	-0.02	0.38	0.405	0.15	0.2675	0.851226	0.591585	0.249522	0.999971	1	0.839012	
SfBq2	Q92131	-0.83	0.97	-0.01	-0.4	1.19	0.24	-0.28	-0.05	1.24	-1.1	-0.09	0.21	1.53	0.07	-0.33	-1.6	0.3425	0.1325	0.345	0.471886	0.815615	0.519818	0.999971	1	0.906375	
SfBq2	Q39J9H	2.37	-0.49	0.32	1.39	-0.49	-0.01	1.94	0.47	0	1.89	0.51	-0.25	-0.69	-0.58	-0.07	-0.13	-0.42	-0.41	-1.265	0.577405	0.556657	0.066621	0.999971	1	0.725348	
SfBq2	A0A571BE	1.1	-0.72	-0.19	-0.37	-0.55	0.15	0.11	-0.24	-0.35	-0.26	-0.36	-0.25	-0.17	-0.07	0.02	0.02	-0.075	-0.1075	0.635	0.957018	0.859377	0.28956	0.999971	1	0.814202	
SfBq2	Q62141	0.39	0.18	-0.34	-0.13	-0.49	0.13	-0.67	-0.29	-0.24	-0.29	-0.21	-0.59	-0.17	-0.29	-0.69	-0.08	-0.16	-0.1625	-0.0525	0.519403	0.480367	0.834748	0.999971	1	0.979306	
SfBq2	A2ALV3	-1.12	-1.39	-0.84	-0.84	-1.81	-1.62	-0.37	-1.37	-1.74	-1.62	-0.54	-1.26	-1.18	-1.56	-1.2	-0.91	-0.245	-0.2425	-0.415	0.480697	0.643662	0.203319	0.999971	1	0.81617	
SfBq2	A0A00R08	-0.45	-0.86	-0.76	-0.66	-0.92	-0.99	-1.13	-0.54	-0.95	-0.67	-1.14	-1.2	-0.71	-0.6	-0.76	-0.7	-0.2125	-0.3075	-0.01	0.318657	0.515941	0.955085	0.999971	1	0.998056	
SfBq2	Q39K48-2	-0.27	-0.38	-0.39	-0.35	-0.49	-0.56	-0.67	-0.77	-1.46	-0.65	-0.65	-0.36	-0.27	-0.16	-0.16	-0.16	-0.16	-0.16	0.4175	0.380413	1.187756	0.106716	0.999971	1	0.926828	
SfBq2	A2AWI9	-0.55	-0.87	-2.8</																							

Sc25s11	QC8C62	0.03	-0.06	-0.01	-0.46	-0.31	-0.18	-0.12	-0.16	-0.27	-0.04	-0.09	-0.26	-0.55	-0.18	-0.02	0	-0.0675	-0.04	-0.0625	0.721739	0.832805	0.773915	0.999971	1	0.963877
Sc25s11	QB8H59	-0.48	-0.57	-0.14	-0.16	-0.49	-0.84	-0.23	-0.4	-0.84	-0.61	-0.3	-0.16	-1.07	-0.7	-0.34	-0.33	-0.1525	-0.14	-0.2725	0.489995	0.937825	0.775425	0.999971	1	0.843794
Sc25s13	QK0W4	-0.44	-0.45	-0.01	-0.24	-0.76	-0.41	-0.55	0.1	-0.32	-0.59	-0.77	0.56	-0.71	-0.09	0.96	0.19	-0.12	0.005	0.775	0.624247	0.987445	0.446028	0.999971	1	0.884449
Sc25s13	AD04A040K	-0.75	-0.74	0.01	-0.62	-0.61	-1.03	-0.28	-0.8	-0.87	-0.2	-0.8	-0.19	-0.8	-0.1	0.12	0.18	0.55196	0.160159	0.541	0.81	0.1169	0.999971	1	0.945343	
Sc25s13	QK9V05	-0.39	-0.3	-0.17	-1.22	-0.27	-0.56	-1.4	-1.98	-0.59	-0.6	-1.43	-1.58	-0.55	-0.16	-0.86	0.9	-0.0825	-0.02	0.3525	0.857763	0.956144	0.316568	0.999971	1	0.85361
Sc25s13	QV16C9	-0.19	0.68	0.33	0.1	0.27	0.72	0.04	0.67	0.43	0.03	0.16	0	0.74	0.27	0.31	0.46	0.195	0.075	0.215	0.471304	0.754233	0.383969	0.999971	1	0.871816
Sc25s17	Q7O5Y9	-2.12	-0.87	-0.7	-0.9	-0.69	-0.76	-1.27	-0.46	-1.26	-1.03	-0.86	-0.27	-0.35	-1.1	-1.12	0.61	0.3525	0.5425	0.3525	0.431304	0.754233	0.383969	0.999971	1	0.867656
Sc25s17	QB08K41	-0.55	-0.1	-0.4	-0.57	-0.47	-0.61	-0.15	-0.2	-0.16	-0.28	-0.12	-0.11	-0.34	-0.56	-0.79	-0.25	-0.04	0.1825	0.348192	0.084134	-0.388933	0.999971	1	0.91047	
Sc25s19	QD0AM5	0.27	0.36	0.55	0.25	0.26	-0.04	-0.22	-0.08	-0.39	0.51	0.58	0.46	0.2	0.1	0.2	0.83	-0.2375	-0.155	-0.6225	0.224447	0.379026	0.484774	0.999971	1	0.710102
Sc25s20	QZ2226	-0.2	-1.06	0.02	-0.11	-1.04	-1.01	-0.28	-0.32	-1.37	-0.79	0.16	-0.3	-1.52	-0.55	0.32	0.04	-0.165	-0.2375	0.09	0.674454	0.550777	0.840528	0.999971	1	0.97975
Sc25s21	B6C226	-0.56	-0.37	-0.08	-0.56	0.1	-0.15	-0.53	1.15	-0.22	-0.58	0.64	-0.71	-0.2	0.15	0.46	0.19	0.445	0.135	0.4275	0.26181	0.689752	0.110371	0.999971	1	0.78268
Sc25s21	QD0M83	-0.81	0.33	-0.24	-0.43	0.35	0.52	-0.26	-0.05	0.42	-0.25	0.05	-0.09	0.57	0.28	0.01	0.08	0.4275	0.32	0.4875	0.14173	0.284722	0.120042	0.999971	1	0.78268
Sc25s21	Q6G021	-0.15	-0.27	-0.1	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	-0.15	0.131613	0.12	0.15	0.131613	0.12	0.15	0.999971	1	0.807437
Sc25s24	QB8M08	-0.42	-0.52	-1.21	-0.41	0.29	-0.38	-0.88	-1.17	0.12	0.87	-0.88	-0.28	-0.54	-0.27	-1.17	-0.11	-0.105	-0.3875	-0.0925	0.80984	0.415345	0.813558	0.999971	1	0.97473
Sc25s25	A2AS28Z-2	-1.49	-0.21	-0.63	0.17	-0.62	0.43	-0.28	-0.9	-0.4	-0.35	-1	0.22	-0.38	0.59	0.03	-1.03	0.0925	0.0525	0.2375	0.841218	0.906235	0.63041	0.999971	1	0.932711
Sc25s25	A2AS28Z-8A	0.18	-0.46	0	0.14	-0.49	-0.2	0.36	0.23	-0.38	-0.26	-0.17	-0.03	-0.44	-0.31	-0.08	-0.19	-0.105	-0.175	-0.22	0.685516	0.415496	0.320143	0.999971	1	0.853962
Sc25s27	Q5U6D0	-1.31	0.28	-0.56	0.06	-0.31	-1.06	0.21	-0.75	-0.41	-0.38	-1.36	-0.71	0.94	0.01	0.34	-0.075	0.1525	0.48	0.080212	0.589182	0.273879	0.999971	1	0.843794	
Sc25s27	QD0K06	-0.39	-0.52	-0.13	-0.28	-0.07	-0.45	-0.22	-0.37	-0.47	-0.85	-0.5	-0.55	-0.78	-0.6	-0.34	-0.73	0.1625	-0.2625	-0.2825	0.464538	0.182416	0.169759	0.999971	1	0.802438
Sc25s28	AD04A48A	0.57	0.64	1.17	-2.36	-0.58	-0.29	-1.42	-2.14	1.62	0.39	1.4	0.2	0.06	-1.89	0.01	-1.75	-1.1525	-1.4775	-1.6475	0.372501	0.896831	0.188567	0.999971	1	0.809276
Sc25s29	QB8L03	-0.68	-0.14	-0.52	-0.23	-0.27	0.06	-0.63	-0.2	-0.27	0.02	-0.3	0.71	0.16	0.05	-0.27	-0.16	0.1325	0.0775	0.3375	0.565858	0.737404	0.135431	0.999971	1	0.784848
Sc25s3	QB8V8M	-0.55	-0.02	-0.4	-0.03	-0.35	-0.39	-0.73	-0.37	-0.65	-0.11	-0.56	-0.58	-0.89	0.16	-0.47	0.02	-0.22	-0.25	-0.05	0.318486	0.310296	0.849894	0.999971	1	0.918187
Sc25s31	QB8M68	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	0.999971	1	0.907797
Sc25s31	QV1312	-0.47	-1.21	-0.58	-0.45	-1.39	-1.13	-0.49	-0.21	-1.39	-1.26	-0.63	-0.42	-1.25	-1.21	-0.62	-0.35	-0.3025	-0.2475	-0.19	0.316131	0.424005	0.523622	0.999971	1	0.907797
Sc25s31	QZ1723	-1.5	-0.26	0.36	0.09	-0.04	-0.24	0.31	0.51	-0.4	-1.08	1.16	0.74	0.1	0.14	-0.11	-0.27	0.4825	0.4325	0.2775	0.268222	0.480762	0.497259	0.999971	1	0.906555
Sc25s35	Q5W573	0.46	-0.04	-0.6	-0.7	-0.1	-0.08	-0.89	0	-0.45	-0.75	-0.99	-0.19	0.3	-0.33	-1.07	-0.64	-0.0475	-1.5716	-0.2	0.88808	1	0.606708	0.999971	1	0.925135
Sc25s35	QZ0260	-0.19	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.999971	1	0.91047
Sc25s4	P48962	-1.03	-0.37	-0.42	-0.53	-0.42	-0.31	-0.54	-0.57	-0.53	-0.57	-0.47	-0.62	-0.33	-0.18	-0.38	-0.39	0.1275	0.04	0.2675	0.551391	0.845106	0.224768	0.999971	1	0.828225
Sc25s4	QB8P66	-1.06	-0.24	-0.05	0.1	-0.1	-0.29	-0.42	0.08	-0.53	-0.99	0.02	0.26	-0.66	-0.19	0.09	0.28	0.13	0.0025	0.125	0.657843	0.994617	0.563241	0.999971	1	0.917003
Sc25s42	QB8V08	-0.37	-0.37	-0.59	0.13	-0.79	-0.36	-0.55	0.02	-0.63	-0.38	-0.55	-0.46	-1.08	-0.99	-0.28	-0.12	-0.195	-0.325	0.631791	0.365543	0.281807	0.999971	1	0.844538	
Sc25s44	Q3TM74	0.1	-0.53	0	0.28	-0.09	-0.42	-0.13	0.15	-0.49	-0.11	-0.27	-0.77	-1.42	-0.51	-0.29	-0.27	-0.085	-0.275	0.585	0.725753	0.162595	0.90858	0.999971	1	0.78268
Sc25s45	Q5U6D0	-0.35	-0.51	0.29	0.09	-0.36	-0.4	-0.48	-0.05	0.78	0.08	0.2	0.06	0.1	0.06	0.1	0.125	0.0625	0.125	0.239	0.63842	0.915462	0.368784	0.999971	1	0.86093
Sc25s45	P51881	-0.18	-0.86	0.95	0.93	-0.46	1.14	0.43	1.11	0.63	0.62	0.78	0.79	0.57	1.06	1.38	0.88	0.145	0.065	0.3325	0.666674	0.822151	0.319701	0.999971	1	0.853962
Sc25s45	Q5H219	0.04	-0.26	-0.49	-0.36	-0.15	-0.32	-0.55	-0.47	-0.54	-0.13	-0.5	-0.43	-0.81	-0.49	-0.35	-0.41	-0.105	-0.1325	-0.2475	0.603783	0.512649	0.250514	0.999971	1	0.839012
Sc25s45	A2AF34	-0.55	-0.28	0.54	0.39	-0.07	-0.21	0.04	0.59	-0.42	-0.84	0.11	0.57	-0.91	0.15	0.16	0.45	0.0625	-0.17	-0.0625	0.844809	0.637678	0.870598	0.999971	1	0.984079
Sc25s46	QZ0260	-0.19	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.999971	1	0.91047
Sc25s46	QKWC63-8	-1.46	-1.13	0.01	-0.52	-0.07	-0.81	1.24	0.54	0.67	-1.56	-0.54	-0.81	1.64	-1.06	-1	-1.08	0.73	0.215	0.4	0.182189	0.618375	0.558822	0.999971	1	0.915051
Sc25s46	Q70134	-0.6	-0.69	-0.52	-1.13	-0.76	-0.67	-0.29	-1.02	-0.55	-0.46	-0.21	-0.2	-0.32	-0.52	-0.77	-0.87	0.05	0.38	0.115	0.831304	0.997158	0.61308	0.999971	1	0.927644
Sc25s47	Q53488	0.21	-0.68	0.13	0.57	-0.48	-0.7	-0.22	0.71	-0.39	0.31	-0.13	0.52	-0.78	0.32	0.29	0.2	-0.23	0.02	-0.22	0.559928	0.992095	0.55886	0.999971	1	0.915051
Sc25s47	Q3XV77	1.37	1.11	-0.06	-0.08	-0.36	-0.14	-0.31	-0.09	-0.49	-0.61	0.22	-0.26	-0.18	-0.36	-0.25	0.025	0.2375	0.22	0.551391	0.670377	0.376622	0.999971	1	0.950479	
Sc25s47	QV1838	-0.68	-0.38	-0.68	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	-0.48	-0.38	0.999971	1	0.847467
Sc25s91	QD1M1-2	0.09	0.35	0.23	-0.53	0.1	0.58	0.26	0.24	1.71	-0.49	0.43	0.8	2.36	0.08	0.54	0.01	0.4875	0.0775	0.7125	0.110063	0.235687	0.280405	0.999971	1	0.822138
Sc25s92	AD04A48A	-0.23	-0.95	-0.34	-0.3	-1.61	-0.47	-0.33	-0.75	-0.51	-0.05	-0.34	-0.56	-0.33	-0.98	-0.84	-0.1	-0.335	0.09	0.055	0.32574	0.702253	0.873945	0.999971	1	0.984109
Sc25s91	P17809	-1.11	-2.59	-2.19	-2.3	-2.28	-2.86	-0.09	-3.15	-2.23	-1.99	-2	-1.67	-3.36	-2.84	-2.32	-2.46	-0.0475	0.075	-0.075	0.945158	0.808288	0.193752	0.999971	1	0.78268
Sc25s91	QZ0W61	-0.7	-0.29	-0.5	-0.4	-0.52	-0.74	-1.19	-0.51	-0.26	-1.49	-0.3	0.66	-0.1	0.13	0.23	0.0575	0.388168	0.32	0.72461	0.36293	0.429242	0.999971	1	0.78268	
Sc25s3	P32037	-1.08	-1.25	-1.4	-1.46	-0.73	-0.89	-0.61	-1.62	-0.88	-0.84	-1.2	-1.59	-0.63	-1.32	-1.6	-1.88	0.335	0.17	0.06	0.225396	0.465361	0.837738	0.999971	1	0.979416
Sc25s6	Q3U070	-1.1	3.75	-0.47	-0.97	1.97	2.03	-0.72	-0.68	1.08	2.21	-0.53	-0.45	2.64	1.98	-0.15	0.38	0.045	-0.0275	0.6075	0.969493	0.980524	0.590701	0.999971	1	0.92226
Sc30s1	Q60738	-0.04	-1.26	-0.37	-0.28	-1.03	-0.94	-0.06	-0.46	-1	-0.79	-0.51	-0.61	-1.32	-0.94	-0.37	-0.81	-0.155	-0.26	-0.3925	0.668887	0.				

Sik	O5498B-2	0.07	-0.17	-0.1	-0.07	-0.06	-0.34	0.21	-0.18	-0.11	-0.27	-0.23	-0.08	-0.35	-0.54	-0.34	-0.5	-0.025	-0.05	-0.365	0.896348	0.776928	0.056114	0.999971	1	0.725348
Smap	F6WY24	-1.28	-0.18	-0.36	-0.26	-0.55	-0.59	-0.67	-0.23	-0.43	0.1	1.04	-1.7	0.84	0.8	-0.35	0.13	0.01	0.2725	0.875	0.972142	0.638577	0.040981	0.999971	1	0.700838
Smap_1	O327V3	-1.12	-0.29	0.09	0.4	0.36	0.61	0.93	0.19	0.71	1.22	0.54	0.76	0.62	0.21	0.14	-0.15	0.95	0.3325	-0.27	0.743251	0.256211	0.611211	0.999971	1	0.869526
Sltm	Q8CH25-2	0.74	0.41	0.62	0.07	0.57	0.21	1.13	-0.05	0.29	0.26	0.4	0.13	0.1	0.12	0.24	-0.2	0.005	-0.19	-0.395	0.986791	0.368723	0.099157	0.999971	1	0.78268
Sltw2	Q8BH9	3.2	0.08	2.35	0.3	-0.45	0.68	3.95	-0.92	-0.03	1.7	0.55	-0.4	-1.59	-0.38	-0.01	-0.81	-0.6675	-1.0275	-2.18	0.578354	0.226551	0.017344	0.999971	1	0.617356
Smad7	Q62432-2	0.98	0.6	0.51	-0.35	0.75	1.71	-0.06	-0.17	0.53	1.24	-0.01	-0.55	0.31	0.57	0.07	-0.24	0.1275	-0.0225	0.759264	0.803404	0.948387	0.999971	1	1	
Smad3	Q8BUK5	1.69	0.13	1.46	1.4	0.95	0.86	0.75	1.25	0.58	1.61	1.06	0.63	0.5	1.38	0.94	0.17	0.175	0.005	0.543634	0.62551	0.376786	0.999971	1	0.959518	
Smad4	P97471	0.87	0.6	1.03	0.96	0.34	1.08	1.18	0.36	0.22	0.87	0.65	0.34	-0.5	0.79	0.15	0.36	-0.125	-0.345	-0.665	0.640307	0.139075	0.047818	0.999971	1	0.710102
Smad5	P97454	2.64	0.03	0.2	0.12	-0.01	0.88	0.14	0.2	-0.45	0.1	0.16	0.21	-1.12	1.26	0.05	0.07	-0.445	-0.2875	-0.6825	0.468039	0.814036	0.356338	0.999971	1	0.686793
Smap	Q9R0P4	2.14	2.57	3.76	3.32	2.78	2.74	2.36	2.75	2.54	2.78	3	2.98	1.69	2.7	3.21	3.52	-0.29	-0.1275	-0.1675	0.473494	0.740062	0.739675	0.999971	1	0.960689
Smap	Q91V26	-0.61	-0.29	-0.06	-0.35	-0.06	-0.21	-0.42	-0.12	0.09	0.12	0.23	-0.3	0.21	0.1	0.08	-0.1	-0.05	0.3325	0.2275	0.236896	0.414773	0.120039	0.999971	1	0.152867
Smap2	Q77N29	0.34	0.29	0.8	0.9	0.05	-0.02	-0.1	0.12	0.23	-0.35	0.39	0.68	-0.25	0.46	0.1	0.08	-0.295	-0.1	-0.6	0.332858	0.220053	0.064255	0.999971	1	0.710102
Smara1	Q6PG88	-0.14	-1.9	-0.69	-0.47	-1.32	-2.05	-0.98	-0.02	-1.46	-0.02	-0.39	-0.55	-0.97	-1.64	0.1	0.1	-0.2925	0.195	0.1975	0.581187	0.673914	0.71075	0.999971	1	0.950695
Smara2	Q6OIC0	0.51	1.43	1.12	1.52	1.38	1.32	0.62	1.4	1	0.84	1.03	1.37	1.26	1.67	1.28	1.49	0.035	-0.085	0.28	0.907948	0.754601	0.312819	0.999971	1	0.849367
Smara3	AD0AR010	0.88	0.96	1.34	1.53	0.83	0.65	1.23	1.34	0.71	0.89	1.21	1.41	0.06	0.65	1.27	1.31	-0.115	-0.0725	-0.305	0.671691	0.785008	0.380505	0.999971	1	0.871816
Smara5	Q91ZV3	-0.15	-0.14	-0.76	-0.83	-0.07	-0.28	-0.66	-0.23	-0.27	-0.86	-0.9	-0.02	-0.28	-0.62	0.17	-0.05	-0.095	-0.0025	0.862819	0.724458	0.93915	0.999971	1	0.899525	
Smara1	Q8BLL0	0.94	1.41	1.29	1.93	1.48	1.75	1.27	1.85	1.44	1.5	1.21	1.35	0.41	1.44	1.66	1.85	-0.055	-0.2675	-0.3025	0.828242	0.247262	0.406397	0.999971	1	0.874911
Smara1	Q8Z0H3	0.63	1.01	1.17	1.49	0.89	0.79	0.68	1.35	1.01	1.21	0.54	0.76	0.42	1.45	1.09	1.42	-0.1475	-0.195	0.02	0.568938	0.451613	0.947846	0.999971	1	0.979651
Smara1	Q3JUNH4	0.81	1.1	1.01	0.74	0.87	0.37	0.58	0.45	0.65	0.53	0.73	1.21	0.53	1.5	0.48	0.8	-0.3475	-0.135	-0.0875	0.106691	0.534359	0.746306	0.999971	1	0.961064
Smara2	Q3JUU0	1.69	1.84	2.47	3.38	1.94	1.7	3.01	1.88	1.95	1.75	2.14	2.42	1.43	0.77	2.19	1.75	0.0375	-0.03	-0.11	0.51429	0.908858	0.26702	0.999971	1	0.842146
Smara1	Q61466	0.98	1.14	1.42	1.2	1.06	1.08	0.85	1.21	1.03	0.73	1.15	1.43	0.67	0.96	1.24	1.44	-0.135	-0.1	-0.1075	0.47843	0.643508	0.642152	0.999971	1	0.93301
Smara3	Q6P921	1.25	1.54	0.88	1.48	1.54	1.04	0.85	1.25	1.13	0.79	1.02	1.38	1.44	1.6	1.75	1.64	-0.1175	-0.2075	0.32	0.629566	0.376437	0.15789	0.999971	1	0.797252
Smara1	O54941	1.75	1.92	1.89	2.31	2.09	1.88	1.58	1.86	1.83	1.71	1.41	2.11	1.55	1.74	2.14	1.82	-0.115	-0.2025	-0.155	0.58689	0.380854	0.483714	0.999971	1	0.896352
Smc1a	Q9CU62	0.84	-0.28	0.06	0.33	-0.27	-0.23	-0.13	-0.15	-0.14	0.39	0.03	-0.01	-0.89	-0.36	0.13	-0.02	-0.4225	-0.17	-0.5225	0.125086	0.544289	0.137781	0.999971	1	0.768448
Smc1b	Q920F6	0.61	0.65	-0.82	-0.33	0.43	0.98	-0.11	-0.86	0.9	1.15	-0.02	-1.49	0.26	1.01	-1.53	1.82	0.0825	-0.1425	-0.5475	0.867723	0.838704	0.444131	0.999971	1	0.883802
Smc2	Q8C648	0.01	0.54	-3.61	-1.52	0.7	-0.13	-0.31	-2.41	-0.43	0.06	-1.65	-1.68	1.09	0	-1.48	-0.193	0.6075	0.22	0.565	0.554745	0.812488	0.588591	0.999971	1	0.921285
Smc3	Q9CWO3	0.6	0.42	0.89	0.83	0.43	0.31	0.74	0.54	0.45	0.6	0.72	0.57	0.11	0.37	0.72	0.36	-0.18	-0.1	-0.295	0.378299	0.594943	0.193217	0.999971	1	0.810547
Smc5	AD128B0D	-1.55	-1.77	-0.45	0.43	0.01	-0.4	-0.73	-0.16	-0.94	-0.89	-1.07	-1.4	1.41	-1.04	1.81	7.93	0.0075	-0.1185	2.4175	0.996613	0.335589	0.593426	1	0.839154	
Smc1a1	Q6P508	0.14	-0.59	0.02	-0.11	-0.09	-0.64	-0.42	-0.31	0.4	-0.58	-0.24	-0.36	-0.49	0.14	-0.45	-0.2325	-0.12	-0.1625	0.171597	0.315227	0.65311	0.999971	1	0.920263	
Smc1b	Q3JUM5	-0.46	-0.38	-0.68	-1.05	-0.61	-0.42	-0.74	-0.86	-0.67	-0.42	-0.91	-0.87	-0.34	-0.42	-0.84	-0.14	-0.015	-0.075	-0.1075	0.945745	0.739522	0.544794	0.999971	1	0.979725
Sm1t1	Q9B010	-0.81	1.81	1.77	0.67	1.05	1.33	1.44	0.78	1.48	-0.31	1.43	1.87	1.29	0.24	0.85	0.56	0.29	0.2575	-0.125	0.619219	0.719007	0.834765	0.999971	1	0.979036
Sm1t2	Q8K866	-0.08	0.1	-0.04	-0.05	0.28	0.24	0.25	-0.12	0.14	-0.04	0.13	-0.21	0.53	-0.23	-0.17	-0.03	0.18	0.0225	-0.2225	0.333777	0.896362	0.51063	0.999971	1	0.839012
Sm1t3	Q62PY2	0.75	1.95	0.71	2.96	1.94	0.91	0.95	1.97	2.15	2.42	1.43	0.77	2.19	1.75	0.15	-0.045	-0.45	-0.125	0.689834	0.173936	0.687826	0.999971	1	0.842146	
Sm1t4	Q61406	0.41	0.3	0.22	0.41	0.87	0.46	0.23	0.41	0.34	0.13	0.29	0.45	0.74	0.43	0.21	0.57	0.1575	-0.0325	0.1525	0.440701	0.847929	0.431163	0.999971	1	0.881611
Sm1t5	Q9JRH6-3	-0.19	0.55	-0.42	-0.34	0.71	0.64	-0.45	-0.11	0.53	-0.13	-0.15	-0.22	1.12	0.55	-0.61	-0.09	0.2975	0.1075	0.3425	0.409947	0.714253	0.149665	0.999971	1	0.877788
Sm1t6	Q8VE18	0.23	0.28	0.22	0.22	0.24	0.11	0.22	-0.08	0.01	0.33	0.27	0.1	-0.32	0.04	-0.53	0.19	-0.1925	-0.005	-0.5075	0.280605	0.699649	0.020097	0.999971	1	0.633388
Sm1t7	Q90890	0.06	0.1	0.12	0.35	0.17	0.25	0.05	0.67	0.1	-0.16	0.97	0.19	0.61	0.1	0.1	0.025	0.803832	0.315777	0.91475	0.999971	1	0.920263			
Sm1m12	Q708X3	-1.01	-0.66	0.66	0.61	-0.5	-0.09	0.73	0.55	-0.23	-0.77	0.66	0.2	0.36	-0.95	0.52	0.05	0.2725	0.065	0.095	0.571414	0.804922	0.85031	0.999971	1	0.918817
Sm1m13	E90942	3.02	-0.69	0.19	0.73	-0.82	0.86	1.26	-0.15	-1	2.03	-0.45	-1.57	-2.65	-0.84	-1.17	-1.06	-0.525	-1.06	-2.2425	0.530696	0.308594	0.019988	0.999971	1	0.635388
Sm1m18	J30JNP2	-2.33	-1.06	-0.99	-1.01	-1.38	-0.57	-0.88	-1.02	-0.28	-0.78	-0.78	0.75	-0.19	-1.26	-0.07	-0.99	0.3825	0.7	0.22	0.303286	0.069916	0.513833	0.999971	1	0.905815
Sm1m20	O32I702	-1.44	-0.71	-1.12	-1.01	-1.08	-1.68	-0.8	-0.3	-1.28	-0.99	-0.31	-0.44	-0.75	-0.15	-0.95	0.02	0.4475	0.599	0.941118	0.167549	0.048401	0.999971	1	0.710102	
Sm1m26	Q3I460	-0.31	-0.28	-1.41	-0.01	-0.86	-2.04	-0.12	-1.51	-0.25	-0.61	-0.1	-1.83	0.43	1.04	-0.17	0.16	-0.1875	0.304483	0.192031	0.81756	0.999971	1	0.793148		
Sm1m4	AD0AR3P9	0.16	1.4	-0.02	0.02	1.39	0.3	0.31	0.01	-0.05	0.53	-0.46	-0.09	-0.34	0.54	-1.18	0.21	-0.0425	-0.0475	-0.5825	0.927585	0.130741	0.238721	0.999971	1	0.833594
Sm1m7	F8WU19	2.52	1.32	3.24	3.01	1.57	2.06	2.7	2.45	1.18	2.57	1.87	1.45	-0.82	1.62	2.24	2.31	-0.3275	-0.755	-1.185	0.484843	0.149629	0.148782	0.999971	1	0.793248
Sm1m8	Q9CQD0	0.3	2.34	0.79	0.12	1.3	1.97	0.5	0.62	1.11	0.93	0.38	0.32	1.8	1.4	0.31	0.39	0.21	-0.2025	0.0875	0.707646	0.689238	0.878791	0.999971	1	0.985441
Sm1t	P97801	-0.6	1.2	1.32	0.68	0.1	0.63	1.07	0.46	-0.19	0.61	1.82	2.33	2.05	1.7	2.49	2.36	0.0425	0.18	0.2075	0.885546	0.545367	0.652338	0.999971	1	0.930248
Sm1t2	Q8BGT7	0.74	1.13	0.49	0.42	1.4	0.78	0.19	0.45	1.11	1.06	0.62	-0.14	0.34	1.23	0.21	0.33	0.01	-0.0325	-0.1675	0.97435	0.921474	0.574			



Spag7	G7TNE3	1.66	2.9	2.67	2.72	3.22	2.06	2	2.44	2.46	1.55	2.31	2.55	3.13	3.12	2.64	2.75	-0.0575	-0.27	0.4225	0.880396	0.453772	0.199598	0.999971	1	0.811335
Spag9	Q5AB6S-2	0.32	1.08	1.01	0.87	0.87	0.84	1.02	0.66	1.12	0.42	0.95	1.21	1.08	0.9	0.66	0.79	0.0275	0.105	0.0375	0.58306	0.694275	0.871524	0.999971	1	0.984109
Sparc	Q5NCU4	-0.12	-0.05	1.5	0.47	0.8	0.6	2.4	1.6	1.97	-2.6	2.6	3.61	1.46	0.82	2.71	1.5	0.735	1.8	1.175	0.234309	0.15612	0.04256	0.999971	1	0.701725
Sparc1	P70663	0.18	1.14	1.55	0.57	2.15	1.09	2.48	0.96	2.56	-0.06	1.83	1.99	3.01	0.26	1.4	0.87	0.81	0.7	0.525	0.102514	0.244231	0.396438	0.999971	1	0.871816
Spast	Q8R1K6	0.03	-0.2	-0.23	-0.33	-0.37	-0.15	-0.36	-0.34	-0.33	-0.4	-0.73	-0.55	-0.26	-0.08	-0.27	-0.61	-0.0725	-0.27	-0.0725	0.706649	0.198719	0.731566	0.999971	1	0.956053
Spast1	A20A2BEVc	0.55	-0.32	-0.15	-0.25	-0.07	-0.48	0.6	-0.59	-0.12	0.49	-0.22	-0.22	-0.61	-0.41	-0.64	-0.42	-0.0925	0.025	-0.4775	0.782077	0.928346	0.075252	0.999971	1	0.746958
Spata1	Q9DSM4	1.2	4.1	1.08	1.59	1.86	3.85	0.95	0.77	1.13	0.3	1.24	2.57	2.7	3.45	-1.5	1.87	0.0225	0.6575	1.5125	0.689453	0.763436	0.63147	0.999971	1	0.917003
Spata2	Q8K004	0.8	-0.07	0.11	-0.06	-0.43	0.4	0.03	0.04	-0.07	0.14	0.08	0.14	-0.19	-1.18	-0.03	0.12	-0.385	-0.3225	0.765	0.170863	0.332603	0.079964	0.999971	1	0.755254
Spata3	Q8BN1N	-0.03	0.06	-0.3	0.5	0.07	-0.42	-0.46	0.27	-0.06	-0.2	-0.27	-0.2	0.01	0.17	0.29	0.63	-0.1925	0.24	0.2175	0.476649	0.28232	0.838367	0.999971	1	0.871816
Spata5	A00A02JFz	0.27	-0.23	-0.07	-0.05	-0.27	-0.17	0.03	-0.32	-0.05	-0.12	-0.01	-0.29	0.03	-0.04	0.22	-0.105	-0.105	-0.11	0.599999	0.580827	0.573934	0.999971	1	0.91816	
Spata3	Q8K1M4	1.46	0.06	1.08	1.15	0.85	0.01	1.1	1.26	0.69	1.13	1.11	0.57	1.03	-0.02	-0.02	-0.05	0.382431	0.84787	0.84347	0.999971	1	0.979914			
Spata3	EPVQD3	0.13	-1.07	1.47	1.32	1.29	1.82	1.64	1.71	1.32	1.33	1.32	1.33	1.38	1.21	1.33	0.2875	0.330365	0.505634	0.219346	0.999971	1	0.984064			
Spcc1	A0A213BRv	0.8	-0.89	-0.58	0.08	-0.88	-0.82	-0.49	-0.09	-0.95	-0.41	-0.78	-0.29	-0.63	-0.27	0.26	0.9	-0.0225	-0.06	0.6125	0.939089	0.831404	0.138081	0.999971	1	0.784948
Spcc1	A0A140LM	-2.34	-2.3	-2.91	-3.68	-2.08	-2.31	-2.29	-1.62	-1.96	-1.7	-2.27	-2.98	-2.48	-2.04	-3.16	-4.05	0.2325	0.58	-0.125	0.606821	0.178396	0.804571	0.999971	1	0.971467
Spcc1	Q8ZW07	-0.39	-0.04	0.07	0.51	-0.12	-0.27	-0.22	0.5	-0.37	-0.19	0.57	0.48	0.3	-0.07	0.34	0.83	-0.065	0.085	0.3125	0.81322	0.781488	0.796041	0.999971	1	0.845812
Spcc1	A0A019YUf	0.21	-0.61	1.38	-1.17	-1.05	-0.96	-1.57	-0.73	-0.33	-0.27	0.55	-1.14	-0.45	-0.37	-0.21	0.18	-0.44	0.07	-0.065	0.314579	0.860787	0.904537	0.999971	1	0.991091
Spcc1	A0A019YU	0.29	0.14	0.28	0.23	0.16	0.05	0.09	0.33	0.12	0.28	0.16	0.32	0.27	0.04	0.33	0.36	-0.0775	-0.015	0.015	0.647445	0.925772	0.930649	0.999971	1	0.994744
Spcc1	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spcc1	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235	0.235174	0.318888	0.268087	0.999971	1	0.841256	
Spem	EP9Q25	0.27	-0.54	-0.46	-0.12	-0.54	-0.39	-0.32	-0.52	0.3	-0.01	-0.54	-0.51	-0.39	-0.25	-0.11	-0.1075	-0.02	-0.1025	0.475639	0.944408	0.668955	0.999971	1	0.938711	
Spem	A21A0B1	1.97	0.67	-0.51	-0.44	-0.11	1.06	-0.45	-0.94	0.25	1.71	-0.99	-1.11	0.18	-0.5	-1.18	-1.01	-0.5325	-0.4575	-0.8	0.424732	0.568795	0.24095	0.999971	1	0.834478
Spem	Q2XN8X	-0.47	-0.32	-0.08	-0.1	-0.4	-0.67	-0.46	-0.24	-0.45	-0.09	-0.27	0.24	-0.04	-0.19	-0.1	0.3	0.2	0.235							

Sk2k4	C99KH8	-0.58	0.02	-0.42	-1.16	0.31	-0.53	0.12	-1.24	0.42	-1.06	-0.4	0	0.36	-0.84	-1.02	-1.32	0.2	0.275	-0.17	0.625726	0.481167	0.686895	0.999971	1	0.945467		
Sk2k5	C92ZW1	1.5	0.75	0.24	0.19	0.39	0.66	0.86	0	0.42	0.66	0.17	0.09	0.32	0.42	0.05	0.02	-0.925	-0.335	-0.4675	0.585747	0.324452	0.171779	0.999971	1	0.804075		
Sk2k6	A242B4	2.1	1.13	0.19	0.12	0.97	0.15	0.88	0.88	-0.41	1.1	0.1	0.44	0.29	0.5	0.27	0.21	0.6375	-0.675	0.535	0.211176	0.259944	0.48519	0.999971	1	0.839012		
Sk3	A0A23BQ1	-0.02	0.39	1	0.46	0.37	0.62	0.65	0.72	0.54	0.49	0.65	1.05	0.17	0.65	0.46	0.63	0.1325	0.225	0.02	0.59965	0.405488	0.938887	0.999971	1	0.959669		
Sk3k2c	Q8ZCV4	-0.73	-0.32	-0.66	-1.05	-0.89	-0.27	-0.51	-0.56	-0.5	-0.46	-0.44	-0.47	-0.62	-0.41	-0.6	-0.74	0.1325	0.225	0.0975	0.575323	0.288326	0.650055	0.999971	1	0.933842		
Sk3k3	C91V14	-0.34	0.63	0.32	0.22	0.45	0.33	-0.17	-0.07	1.02	0.82	0.29	0.36	0.01	0.19	-0.16	0.75	0.0875	0.575	0.4	0.761108	0.083037	0.693932	0.999971	1	0.843504		
Sk3k8	Q775E5	-0.33	0.22	1.14	0.51	0.42	-0.17	1.06	0.33	0.04	-0.61	0.75	0.56	1.57	0.33	0.83	-0.07	-0.025	0.5	-0.42	0.543212	0.252383	0.323237	0.999971	1	0.855448		
Sk3k9	C921W9	0.17	1.09	0.52	0.19	0.41	0.78	0.19	0.2	0.47	0.82	-0.11	-0.78	0.45	0.74	0.43	0.29	-0.0975	-0.3925	-0.015	0.72204	0.334593	0.953828	0.999971	1	0.989056		
Sk4	G9111	0.67	0.59	-0.08	0.2	0.62	0.49	-0.37	0.21	0.86	0.26	0.15	0.47	0.94	0.52	0.19	0.48	-0.1075	0.09	0.1875	0.713695	0.727335	0.47494	0.999971	1	0.894044		
Skmm1	P54227	1.56	0.99	0.13	-0.41	0.21	1.25	0.75	0.07	0.93	1.58	-0.34	0.26	0.26	-0.08	0.21	0.15	-0.0575	0.04	-0.5075	0.908106	0.947273	0.254193	0.999971	1	0.839012		
Skmm2	P55821	-0.11	-0.07	-0.13	-0.34	-0.76	-0.75	-0.18	-0.03	-0.45	-0.18	-0.11	0.01	0.41	-0.08	0.21	0.15	-0.0575	0.04	-0.5075	0.908106	0.947273	0.254193	0.999971	1	0.839012		
Skmm3	G70166	0.1	1	-0.66	-0.49	-0.65	-0.25	-0.05	-0.49	0.71	0.36	-0.15	-0.37	0	0.02	-0.26	-0.37	0.18	0.65	0.38	0.531814	0.078748	0.204761	0.999971	1	0.816517		
Skmm4	Q50503	-2.57	-0.83	1	-0.18	-1.18	-1.35	-0.55	1.15	-0.35	-2.21	0.97	0.87	-0.69	-0.64	0.69	0.9	0.4375	0.045	0.71	0.617584	0.625206	0.370056	0.999971	1	0.869526		
Skmm5	K31UX8	0.37	1.62	2.11	2.39	1.33	1.64	1.24	2.25	1.38	0.96	1.56	2.34	1.31	1.78	1.92	0.23	-0.0075	-0.0625	0.23	0.987216	0.899697	0.62537	0.999971	1	0.930479		
Skmm6	P54116	-1.27	-1.46	-0.05	0.96	0.06	-1.51	0.84	-0.16	-1.47	-1.01	0.02	0.38	-2.37	-1.58	-0.18	0.4	0.2625	-0.005	-0.4775	0.689203	0.520347	0.533776	0.999971	1	0.910707		
Skmm7	C95J82	-0.37	-0.87	-0.46	-0.5	-0.19	-0.88	-0.47	-0.41	-1.12	-0.81	-0.23	-0.41	1.2	-0.61	-0.44	-0.19	-0.025	0.5	-0.06	0.452259	0.715408	0.820336	0.999971	1	0.855448		
Skmm8	C98Z60	0	-0.73	-0.19	-0.67	-0.45	-0.26	-0.34	-0.1	-0.34	0.02	-0.3	-0.39	0.41	-0.38	-0.2	-0.41	0.11	-0.145	0.2525	0.636333	0.54108	0.763636	0.999971	1	0.870465		
Skmm9	C49955	-0.08	0.09	0.29	0.74	0.17	-0.16	0.19	1.9	0.04	-0.04	0.2	0.6	0.81	0.12	0.74	0.53	0.265	0.06	0.29	0.572503	0.811968	0.281759	0.999971	1	0.844538		
Skmm10	K31UJ4	-0.87	-1.38	-0.23	-0.57	-1.02	-1.35	-0.38	-0.77	-1.14	-0.88	-0.28	-0.21	-1.61	-1.16	-0.5	-0.02	-0.1175	0.135	-0.06	0.714679	0.885551	0.883152	0.999971	1	0.986597		
Skmm11	C984T3	0.76	0.09	-0.85	-0.18	-0.46	0.24	-0.16	-0.48	-0.27	1.13	-0.6	0.32	0.53	0.16	-0.59	-1.21	-0.17	0.03	-0.2325	0.642061	0.950023	0.62679	0.999971	1	0.932176		
Skmm12	C92122	-0.44	0.42	0.67	-0.65	-0.49	0.51	0.88	0.13	0.67	-0.31	1.23	1.39	0.59	0.5	0.48	-0.17	0.4375	0.74	0.35	0.258468	0.139865	0.342748	0.999971	1	0.861474		
Skmm13	G91WV1	0.11	1.32	1.63	1.38	1.25	1.31	1.93	1.14	1.29	1.48	1.75	1.21	1.41	1.04	1.2	1.32	0.2975	0.0725	0.1325	0.432229	0.859753	0.702198	0.999971	1	0.949019		
Skmm14	C98C79	-1.19	-0.6	-0.65	-0.89	-0.6	-0.77	-0.67	-0.73	-0.75	-1.33	-0.52	-0.51	-0.55	-0.74	-0.82	-0.78	0.14	0.055	0.11	0.48808	0.83097	0.592644	0.999971	1	0.932327		
Skmm15	C98C96	0.4	-0.05	-0.45	0.58	-0.02	-0.4	0	0.14	-0.14	0.17	-0.14	0.12	-0.11	-0.32	-0.47	-0.22	-0.19	-0.175	-0.165	0.498918	0.65974	0.586197	0.999971	1	0.920418		
Skmm16	C95106	-0.91	-0.01	0.08	-0.23	0.23	-0.61	0.11	0.02	0.31	-0.89	-0.27	0.75	0.55	-0.33	0.09	-0.04	0.205	0.375	0.335	0.500613	0.35704	0.729925	0.999971	1	0.843812		
Skmm17	C98G62	-0.49	-0.29	0.05	-0.06	-0.6	-0.49	-0.05	-0.2	-0.53	-0.57	-0.26	0.15	-0.73	-0.68	-0.38	-0.08	-0.1375	-0.05	-0.27	0.535478	0.659068	0.261672	0.999971	1	0.842262		
Skmm18	B2RQK1	-0.12	0.49	-0.46	-1.03	0.14	0.44	-0.61	-0.45	0.12	-0.76	-0.22	-0.39	0.54	0.57	-0.57	-0.3	0.16	-0.0325	0.34	0.680543	0.92779	0.416764	0.999971	1	0.877584		
Skmm19	P54RQ4	-0.53	-0.17	-0.55	-0.45	-0.14	-0.32	-0.72	-0.62	-0.07	-0.38	-0.47	-0.2	-0.01	-0.39	-0.59	-0.05	0.025	0.5	0.165	0.903634	0.433425	0.447849	0.999971	1	0.885289		
Skmm20	P54Z27	1.47	0.47	0.64	-0.63	-0.92	-0.86	-0.85	-0.71	0.67	0.71	0.61	0.69	-0.1	0.69	-0.1	0.69	-0.1	0.69	-0.1	0.69	-0.1	0.69	-0.1	0.69	0.999971	1	0.885289
Skmm21	P49978	-0.21	0.85	0.63	0.4	1.54	1.03	1.73	0.76	1.87	0.38	1.14	1.32	2.26	0.49	0.87	0.63	0.7225	0.76	0.645	0.033235	0.176037	0.168121	0.999971	1	0.800215		
Skmm22	A0A0R4C3	-0.4	-0.23	0.51	-0.02	-0.05	0.64	0.1	-0.07	0.22	0.01	-0.24	-0.19	0	-0.33	-0.2	-0.09	-0.0975	-0.2575	0.75815	0.716437	0.340829	0.999971	1	0.867015			
Skmm23	C9PVV1	-0.21	0.11	0.01	0.25	0.3	0.28	0.35	0.54	0.34	0.1	0.27	-0.05	0.84	0.18	0.54	0.41	0.3275	0.125	0.4525	0.104974	0.51839	0.601506	0.999971	1	0.725148		
Skmm24	A0A1BQ5B	-1.33	-0.17	-1.15	-1.34	-0.56	-1.27	-0.94	-1.53	-1.55	-1.55	-1.71	-1.71	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-0.0675	0.504598	0.718478	0.42719	0.999971	1	0.867015		
Skmm25	C98R00	1	-0.89	-1.29	-1.4	-0.66	-0.84	-0.59	-1.36	-0.57	-0.93	-0.98	-0.81	-0.36	-0.83	-1.42	-1.65	0.2825	0.3225	0.08	0.262928	0.137914	0.801973	0.999971	1	0.971467		
Skmm26	C98R5V	0.1	0.07	-0.19	-0.48	-0.04	0.05	-0.06	-0.13	0.21	-0.4	-0.28	-0.07	0.2	-0.05	-0.15	-0.28	0.08	0.01	0.055	0.689046	0.964801	0.799561	0.999971	1	0.970592		
Skmm27	C95004	0.19	0.06	-0.08	-0.18	0.24	0.33	-0.29	0.11	0.67	0.26	-0.6	0	1.29	0.55	0.09	1.07	0.1	0.085	0.7525	0.635587	0.769152	0.028402	0.999971	1	0.678474		
Skmm28	C98V5B3	0.51	0.05	0.43	-0.04	0.12	0.04	0.35	0.45	0.13	0.07	0.56	0.38	0.26	0.59	0.09	0.1025	0.01	-0.12	0.59785	0.956042	0.709879	0.999971	1	0.932176			
Skmm29	C95285	-1.09	0.2	-0.5	-0.97	0.08	-0.42	-0.56	-0.78	0.04	-1.15	-0.31	-0.18	-0.98	-0.73	-0.83	-0.68	0.17	0.19	0.275	0.623639	0.618591	0.575493	0.999971	1	0.918194		
Skmm30	P61264	-0.68	-1.33	-1.89	-1.31	-1.39	-1.23	-1.63	-2.01	-1.22	-0.85	-1.91	-2.02	-1.23	-1.48	-2.05	-2.41	-0.625	-0.1975	-0.49	0.401413	0.590777	0.194018	0.999971	1	0.810547		
Skmm31	K31T55	-0.11	-0.37	-0.06	-0.33	-0.29	-0.54	-0.05	-0.18	-0.07	-0.27	-0.2	0.06	-0.08	-0.59	-0.1	-0.14	0.0425	0.0975	-0.01	0.845675	0.859548	0.960489	0.999971	1	0.998721		
Skmm32	A0A1BQ8B	0.37	0.21	-0.69	0.06	2.25	-0.34	-0.42	-0.76	0.36	0.36	0.51	0.38	0.58	0.19	0.29	-0.42	0.195	0.16	0.1725	0.769673	0.621289	0.591124	0.999971	1	0.924041		
Skmm33	P70521	-0.15	-0.17	-0.79	-0.19	-0.11	-0.11	-0.05	-0.15	0.07	-0.12	-0.05	0.07	-0.05	0.07	-0.05	0.07	-0.05	0.07	-0.15	0.459823	0.648553	0.468687	0.999971	1	0.918194		
Skmm34	C98K10	-0.7	0.31	0.3	0.51	0.48	-0.24	-0.1	0.34	0.14	-0.04	0.28	0.33	0.14	0.12	0.42	0.51	0.015	0.0725	-0.0425	0.909693	0.805623	0.421506	0.999971	1	0.877788		
Skmm35	C98KK1-2	-1.18	-0.56	-0.56	-0.32	-0.71	-0.92	-1.1	-0.56	-0.68	-0.86	-0.42	-0.36	-0.49	-0.58	-0.31	-0.17	-0.1675	0.075	0.2675	0.504527	0.760342	0.28143	0.999971	1	0.844538		
Skmm36	C98H40	0.25	-0.45	-0.6	-1.21	-0.52	-0.35	-0.54	-0.68	0.16	-0.08	-0.32	-0.87	0.22	-0.72	-0.22	-0.79	-0.02	0.225	0.125	0.948833	0.6042	0.736802	0.999971	1	0.959447		
Skmm37	C98R83	0.1	-0.4	0.56	-0.63	-0.18	0.15	0.15	0.37	0.05	0.29	0.77	0.45	0.09	0.48	0.43	0.355	0.24	0.125	0.285172	0.558547	0.27079	0.999971	1	0.867015			
Skmm38	C98S99	-0.96	-0.78	-1.34	-1.38	-1.11	-0.88	-1.41	-1.46	-0.98	-0.94	-1.74	-1.98	-1.04	-1.02	-1.64	-1.46	-0.1	-0.295	-								

Tacr1	P30548	-1.64	-2.64	-1.95	-1.67	-2.25	-2.74	-2.67	-1.1	-1.37	-1.19	-1.77	-1.11	-0.14	-2.45	-0.5	-1.04	-0.215	0.615	0.9425	0.612453	0.057151	0.095642	0.999971	1	0.78268
Tad1	Q9P91M	1.73	1.07	0.91	1.19	1.28	2.15	0.73	1.28	0.55	-0.43	0.85	1.1	-0.44	0.74	1.07	1.63	1.135	-0.7075	-0.475	0.692221	0.028846	0.301643	0.999971	1	0.847402
Taf1	S4H189	-1.57	-0.32	0.24	0.84	0.41	4.36	0.87	0.88	2.02	-0.67	-0.33	1.26	8.2	1.45	-0.8	0.78	1.5375	-0.3375	1.075	0.286442	0.76301	0.122702	0.999971	1	0.929739
Taf10	Q8KH05	0.98	0.15	0.86	0.82	1.14	0.56	0.08	0.88	0.84	0.93	0.23	0.69	0.52	1.36	0.83	1.19	-0.0125	-0.03	0.2725	0.967602	0.909355	0.345542	0.999971	1	0.863523
Taf11	Q9J9X1	1.56	1.06	1.13	1.87	1.77	1.33	1.94	0.67	2.52	0.46	1.63	0.5	1.64	0.49	-0.16	1.08	0.0225	-0.1275	-0.6425	0.946919	0.796858	0.144608	0.999971	1	0.790933
Taf15	Q8BQ46	0.54	-1.7	1.42	1.34	-0.77	-0.75	1.74	-0.29	0.01	-0.34	0.51	-0.23	-2.15	-1.75	-0.05	-1.15	0.0825	-0.4125	-1.675	0.934561	0.511755	0.055339	0.999971	1	0.725348
Taf2	B9JX5	-1.07	2.02	0.53	0.22	0.44	-0.66	-0.33	-0.53	0.8	-0.79	-0.66	0.07	0.02	1.33	-0.5	0.64	-0.2225	-0.3875	-0.475	0.661017	0.563971	0.40738	0.999971	1	0.939925
Taf5	F8PZY2	0.25	-1.3	-1.03	-1.59	-0.54	-0.68	-0.47	-1.63	-0.88	-1.24	-1.31	-0.97	-2.15	-1.29	-1.28	-1.75	0.0875	-0.1825	-0.7	0.848049	0.651068	0.131853	0.999971	1	0.784948
Taf5	Q91WQ5	1.89	2.17	1.79	1.24	2.74	1.97	2.78	1.17	3.14	0.97	1.18	1.36	2.17	0.64	1.75	0.72	0.3925	0.05	-0.4525	0.348325	0.924987	0.284258	0.999971	1	0.844538
Taf6	D3Z070	-1.08	-2.24	1.3	2.55	-1.89	-2.61	1.67	-0.63	-1.94	-2.04	-0.3	-2.31	-0.01	-2.17	-1.42	-1.72	-0.9975	-1.78	-2.2125	0.44341	0.121501	0.055381	0.999971	1	0.725348
Taf6	K3W4V1	-0.59	-0.32	0.41	1.32	-0.47	0.34	0.65	-0.55	-0.67	-0.75	-0.45	0.39	0.87	-0.45	0.39	0.87	-0.45	0.39	-0.145	0.589555	0.754884	0.788623	0.999971	1	0.847402
Taf8	Q9EQH45	2.66	0.37	0.58	1.14	0.84	0.31	1.19	1.94	2.44	1.76	1.75	1.93	1.08	1.01	1.68	1.17	-0.125	-0.7825	0.285	0.350417	0.829553	0.055381	0.999971	1	0.923217
Taf9	Q8V33	1.39	1.86	1.38	1.58	1.14	1.42	0.96	1.29	1.25	1.38	1.21	1.09	0.68	1.28	0.75	1.42	-0.35	-0.32	-0.52	0.11409	0.11868	0.608094	0.999971	1	0.792348
Taf9	Q77P68	0.63	1.43	1.32	1.06	1.22	2.7	1.1	1.9	1.61	1.44	1.54	1.01	1.41	2.26	1.64	1.07	0.62	0.29	0.485	0.140344	0.263245	0.147008	0.999971	1	0.793248
Taf9	Q91W9E-2	2.91	-0.95	-0.75	0.56	-1.45	-0.01	0.2	0.12	-1.45	1.33	-1.68	-2.4	-3.24	-0.6	-1.72	-1.78	-0.7275	-1.4925	-2.3175	0.412121	0.192587	0.030741	0.999971	1	0.784744
Tafuzin	JJ952	-1.14	1.89	2.04	1.78	1.72	1.67	1.64	1.76	1.83	1.32	1.88	1.93	1.47	1.35	1.47	1.84	-0.02	0.03	-0.1025	0.932499	0.908834	0.650289	0.999971	1	0.847134
Tafuzin	P37804	0.31	-0.92	-1.44	0.75	7.91	5.5	0.21	-1.49	1.6	4.38	5.3	7.42	-1.99	1.15	-0.33	-0.56	0.33575	5.0075	-0.1075	0.120485	0.293275	0.884825	0.999971	0.819449	0.98711
TagIn2	Q9WVA4	-0.44	1.64	1.33	1.16	3.82	2.91	1.36	0.33	2.38	0.78	2.02	2.32	1.17	2.34	1.58	1.09	0.11825	0.9525	0.6225	0.171637	0.111644	0.239359	0.999971	1	0.833594
TagIn2	Q9R108	-0.94	-0.31	-0.25	-0.5	-0.29	0.14	-0.3	-0.26	-0.32	-0.91	-0.07	0.08	-0.09	-0.28	0.07	-0.28	0.2225	0.159	0.355	0.249921	0.40472	0.135648	0.999971	1	0.793248
Tadid1	A04180G	1.14	1.89	2.04	1.78	1.72	1.67	1.64	1.76	1.83	1.32	1.88	1.93	1.47	1.35	1.47	1.84	-0.02	0.03	-0.1025	0.932499	0.908834	0.650289	0.999971	1	0.847134
Tamalin	Q9JIA5	1.58	0.76	-0.48	0.12	0.73	1.09	-0.22	-0.15	0.46	1.35	-0.14	-0.57	0.53	0.89	0.11	0.36	-0.1325	-0.22	-0.0225	0.794162	0.695381	0.959528	0.999971	1	0.989721
Tamam1	G5E881	1.22	-0.05	-0.14	-0.06	-0.43	-0.18	-0.56	-0.05	0.16	-0.62	-0.64	-0.04	-0.04	-0.46	-0.32	-0.5475	-0.51	-0.4575	0.136303	0.199326	0.201787	0.999971	1	0.815923	
Tanc1	Q9QAF9	1.62	1.07	0.71	0.39	0.73	0.99	0.23	0.49	0.76	0.98	0.15	0.07	0.77	1.06	0.34	0.78	-0.3375	-0.4575	-0.21	0.298433	0.204432	0.502538	0.999971	1	0.904573
Tanc2	A2A69G-2	-0.84	-0.66	-0.55	-0.92	-0.82	-0.3	-0.16	-0.69	-0.59	-0.5	-0.39	-0.54	-0.36	-0.43	-0.71	0.87	0.125	0.2375	0.15	0.275668	0.195286	0.467314	0.999971	1	0.891731
Tanc2	F6VCJ2	2.27	3.24	2.23	-0.44	3.02	0.9	5.73	1.09	3.25	0.02	5.68	2.72	1.73	-2.06	1.17	-0.45	0.86	1.095	-0.9775	0.487015	0.356521	0.510985	0.999971	1	0.905815
Tanc2_2	A041A0J0	0.4	0.02	-1.38	-0.55	-0.38	0.04	-1.29	-0.6	0.01	0.81	-1.56	-1.42	0.72	0.52	-1.22	-0.58	-1.18	-0.1625	0.2375	0.68876	0.797509	0.668967	0.999971	1	0.938711
Tanc2_3	Q92QK2	-0.13	0.9	-3	-3.66	0.11	-1.69	-1.79	-3.02	0.55	0.52	-2.96	-3.17	0.21	-0.54	-2.5	-3.11	-0.125	-0.7075	-0.0125	0.912248	0.87823	0.991716	0.999971	1	0.999925
Tanc2_3	Q8B7N3	-0.23	0.4	0.42	0.67	0.25	0.7	0.79	0.99	0.24	-0.02	0.91	-0.09	0.4	0.82	0.07	0.83	0.3875	-0.055	0.3925	0.151651	0.88555	0.18122	0.999971	1	0.784948
Tang66	Q8C352-2	-0.41	-0.38	0.34	-0.37	-0.35	-0.67	-0.89	-0.54	-0.51	-0.3	-0.67	-0.95	-0.21	-0.32	0.19	-0.95	-0.125	-0.08	-0.015	0.07396	0.397962	0.95483	0.999971	1	0.996869
Tank	A2A78R	0.98	-0.2	0.52	1.45	0.29	0.05	0.5	1.34	-0.27	0.7	0.86	0.99	-0.85	0.04	0.64	1.6	-0.1425	-0.1175	-0.33	0.738348	0.784955	0.567672	0.999971	1	0.91816
Tank1	Q5ZF28	-0.13	-0.21	0.08	0.1	-0.24	-0.18	0.36	0.19	-0.14	-0.09	0.49	0.61	0.13	-0.38	0.19	0.06	0.0725	0.25	0.04	0.73859	0.28028	0.845785	0.999971	1	0.979924
Tank2	Q6Q29P-2	-0.3	-0.85	-1.52	-1.47	-0.79	-1.05	-1.1	-1.48	-0.73	-0.27	-1.01	-0.88	-1.05	-0.84	-1.6	-1.49	-0.07	0.3125	-0.21	0.82849	0.356179	0.138817	0.999971	1	0.910077
Tank3	Q8YV5	0.4	1.6	1.56	1.58	1.82	1.92	1.59	1.56	0.91	1.52	1.54	1.4	1.61	1.25	1.4	1.61	0.025	0.16	0.025	0.961398	0.713174	0.369594	0.999971	1	0.995137
Tapb0	Q3TCU5	1.43	1.26	-0.75	-0.76	-2.42	1.34	-0.74	-1.13	1.09	1.15	0.32	0.92	1.53	1.75	-1.05	-0.8	0.4925	0.575	0.0625	0.554831	0.339634	0.941219	0.999971	1	0.996869
Tapb1	Q8V031	1.88	-0.87	-0.18	0.33	-0.16	-0.55	-0.18	-1.28	-0.63	0.67	-0.47	-1.37	-1.83	-1.05	-0.41	-1.22	-0.8325	-0.74	-1.4175	0.179198	0.278589	0.039283	0.999971	1	0.700838
Tapb1	Q4V8D2	-0.59	-0.67	-0.39	-0.33	-0.53	-0.53	-0.58	0.02	-0.62	-0.28	-0.21	-0.11	-0.06	-0.47	-0.13	0.17	0.09	0.19	0.3725	0.673134	0.34261	0.100791	0.999971	1	0.78268
Tapb2	D3Z282	1.4	1.19	1.06	1.81	0.1	1.63	0.65	1.56	-0.43	1.25	1.39	1.51	1.4	1.61	1.45	1.45	-0.02	0.03	-0.4475	0.281466	0.353502	0.28983	0.999971	1	0.847134
Tapb7	Q92JF2	-0.52	1.82	1.54	1.79	1.81	1.72	1.43	1.7	1.91	0.05	1.15	1.37	1.82	1.5	1.7	1.64	0.5075	0.05	0.3075	0.6454	0.396693	0.346003	0.999971	1	0.863794
Tars1	Q90R02	0.43	1.08	0.78	0.91	0.97	1.07	1.07	0.74	1.14	0.88	0.98	1.04	0.88	1.17	0.95	1.03	0.1625	0.21	0.2075	0.445578	0.311662	0.328072	0.999971	1	0.856472
Tars2	Q3UQ84	-0.58	-0.57	-0.44	-0.74	-0.32	-0.09	0.08	-0.23	-0.19	-0.36	0.02	0.18	0.3	-0.12	-0.57	-0.46	0.4425	0.495	0.37	0.038984	0.028622	0.148158	0.999971	1	0.793248
Tars2	Q8BYV2	1.17	1.11	1.15	1.17	1.05	1.27	1.48	1.03	1.34	1.21	1.62	1	0.84	1.08	1.11	1.0575	0.1425	-0.1125	0.753297	0.463404	0.506899	0.999971	1	0.905815	
Tasor	Q6Q29P-2	-0.34	-0.04	0.1	0.02	-0.17	-0.42	-0.28	-0.11	0.08	0.1	0.38	0.4	0.09	0.12	0.12	0.1	0.09	0.718704	-0.1	0.811487	0.080942	0.999971	1	0.943927	
Tasor2	Q5DTT3	0.6	0.3	-1.35	-1.21	-2.73	1.78	-2.21	-2.4	0.77	2.45	-1.35	-1.79	-0.05	1	-1.99	-1.37	0.39	0.435	-0.1875	0.75811	0.862338	0.804391	0.999971	1	0.971467
Tatdn1	Q6P8M1-2	-0.15	-0.27	0.35	0.38	0.02	0.12	-0.21	-0.43	0.09	0.42	0.18	0.29	0.21	0.49	0.32	0.51	-0.1225	-0.0325	-0.17	0.586043	0.869336	0.407646	0.999971	1	0.874911
Tatdn1	Q3UJC1	-0.2	-0.5	-0.94	-0.79	-0.49	-0.36	-0.76	-0.62	-0.54	-0.11	-1.13	-0.98	-0.25	-0.48	-0.81	-0.7	0.05	0.0475	0.824598	0.782438	0.842771	0.999971	1	0.978184	
Tatdn2	Q90B69	-0.41	-0.09	-0.44	-0.35	-0.53	-0.67	-0.89	-0.54	-0.1	-0.3	-0.67	-0.95	-0.21	-0.32	0.19	-0.95	-0.125	-0.08	-0.8275	0.760731	0.659167	0.93007	0.999971	1	0.905815
Tatdn2	Q6P8M1-2	-0.15	-0.27	0.35	0.38	0.02	0.12	-0.21	-0.43	0.09	0.42	0.18	0.29	0.21	0.49	0.32	0.51	-0								

Thoc1	Q8R3N6	1.52	1.2	1.3	1.31	0.76	0.55	1.76	0.57	0.92	1.13	1.09	0.46	0.68	0.81	0.46	0.17	-0.4225	-0.4325	-0.8025	0.186469	0.068204	0.003826	0.999971	1	0.582714
Thoc2	B1A26	0.28	-0.02	0.96	0.75	-0.46	-0.38	1.12	0.42	-0.13	-0.28	0.77	0.45	-1.11	-0.68	0.4	-0.12	-0.1375	-0.29	-0.87	0.448185	0.391221	0.048568	0.999971	1	0.710202
Thoc3	Q8VE8D	-0.16	0.04	0.96	0.12	0.8	0.64	0.98	1.21	0.79	0.66	1.12	1.2	0.49	0.71	0.96	0.36	0.2325	0.3025	0.245	0.205147	0.545592	0.539604	0.999971	1	0.910077
Thoc5	Q8A0R0K0	0.14	0.67	1.31	1.08	0.3	0.26	0.49	1.07	0.63	-0.14	1.01	1.17	-0.09	0.03	1.09	1.26	0.2	-0.0625	-0.1575	0.582336	0.879543	0.742676	0.999971	1	0.955813
Thoc6	D31232	0.44	-0.02	0.32	0.96	0.07	-0.6	0.21	0.32	0.04	0.53	0.52	0.81	-0.63	0.57	0.54	0.77	-0.425	0.0	-0.1125	0.178916	0.855524	0.760182	0.999971	1	0.961116
Thoc7	Q8A28Y8V	2.07	0.61	0.85	1.22	0.14	0.39	1.34	0.03	0.23	1.44	-0.16	-0.23	-1.17	-0.29	-0.17	-0.33	-0.7125	-0.8675	-1.9025	0.11347	0.093146	0.000838	0.999971	1	0.365812
Thop1	Q8A0K2V	1.24	1.19	1.06	2.71	1.18	0.99	1.02	1.25	0.99	0.27	1.33	1.2	1.1	1	1.06	1.12	0.31	0.1735	0.27	0.234701	0.59442	0.76187	0.999971	1	0.847258
Thra	Q8A0R41J	0.63	0.58	0.67	0.93	0.23	1.08	0.58	1.55	0.87	1.17	0.93	0.84	0.46	1.17	1	0.95	0.1575	0.25	0.1925	0.608893	0.188813	0.387566	0.999971	1	0.871816
Thrap3	Q56926	0.68	0.54	0.27	0.26	0.05	-0.39	0.18	-0.18	-0.13	0.31	0.34	-0.01	0.24	-0.4	-0.06	-0.16	-0.4725	-0.26	-0.4825	0.041124	0.204088	0.040875	0.999971	1	0.700838
Thsd7a	EP9PW02	0	-0.26	-0.37	-0.27	-0.18	-0.13	0.15	-0.08	0.15	0.21	-0.15	0.19	0.65	0.18	0.41	0.165	0.325	0.3025	0.378295	0.104177	0.267409	0.999971	1	0.842677	
Thsd7b	Q8F94D	0.16	0.31	-1.15	-1.44	-0.44	-0.58	0.21	-0.14	-0.29	-0.55	-0.65	-0.45	-0.63	-0.67	-0.11	-0.63	-0.67	0.58	0.833131	0.520986	0.120446	0.999971	1	0.607862	
Thsp	Q8D13	0.54	0.84	0.12	1.24	0.34	0.77	0.54	1.25	0.23	0.38	0.51	0.54	-0.11	0.67	0.71	0.88	-0.1125	-0.1575	0.737312	0.545887	0.625453	0.999971	1	0.930479	
Thumpd1	Q9J36	1.5	2.79	2.47	2.81	2.53	2.47	1.88	2.79	2.48	2.07	2.46	1.48	2.21	2.81	2.74	2.74	0.025	-0.27	0.2325	0.943809	0.478155	0.495073	0.999971	1	0.901531
Thumpd3	P9J770	0.36	1.24	1.41	0.76	1.52	1.27	1.2	1.53	1.67	0.47	1.1	1.49	1.85	0.24	1.51	1.12	0.4375	0.24	0.2375	0.133618	0.499315	0.559261	0.999971	1	0.915051
Thy1	AA1115U	-0.37	-0.31	-1.06	-0.65	-0.45	-0.21	-1.32	-0.54	-0.46	-0.22	-0.33	-0.99	-0.01	-0.11	-0.86	-0.63	-0.0325	0.0975	0.195	0.914395	0.711009	0.485247	0.999971	1	0.901531
Thy13	Q9Y13	3.05	2.74	3.15	3.3	2.71	2.75	2.67	3.2	2.81	2.48	2.74	2.91	2.35	2.36	3.18	1.15	-0.2275	-0.325	-0.3	0.309914	0.134502	0.298374	0.999971	1	0.847402
Thy1	P52912	1.5	0.71	1.93	2.09	-0.33	1.44	1.59	2.15	1.37	-0.67	1.63	1.18	-1.45	1.37	1.8	1.82	-0.84595	-0.1175	0.251946	0.871795	0.201446	0.999971	1	0.815758	
Tia1.1	Q8C15	0.97	0.03	1.34	1.58	-0.27	0.5	2.19	1.07	0.21	0.28	0.49	0.38	-0.64	-0.37	0.81	0.72	-0.1075	-0.745	-0.85	0.488595	0.067607	0.098773	0.999971	1	0.872628
Tia1.2	Q921W2	0.18	1.33	1.42	1.56	1.28	0.88	1.92	1.42	1.17	0.14	1.66	1.89	1.51	1.01	1.7	1.5	0.2225	0.0925	0.3075	0.520606	0.844229	0.385227	0.999971	1	0.871816
Tia1.3	G3JW62	-0.09	0.17	0.05	0.34	-0.13	0.44	0.34	0.28	0.04	-0.13	-0.16	0.38	0.05	0.86	0.26	0.1	-0.0375	-0.155	-0.39	0.587101	0.637634	0.213004	0.999971	1	0.823887
Tia2.1	Q62P33	0.62	0.36	1.22	2.21	-0.14	-0.05	1.12	1.82	-0.45	-0.26	1.8	0.36	0.04	-0.88	1.04	0.6	-0.465	-0.79	-0.9725	0.4197	0.204996	0.093922	0.999971	1	0.777481
Tia2.2	Q62P33-2	-0.61	-0.37	-0.99	-0.4	-0.2	-0.3	-0.82	-0.61	-0.25	-0.38	-0.63	-0.76	-0.45	-0.12	-0.44	-0.21	0.11	0.0875	0.2875	0.645353	0.695761	0.20213	0.999971	1	0.816167
Tigar	Q8Z7A9	-1.46	-0.72	0.65	0.49	-0.63	-1.15	0.41	0.68	-0.85	-0.82	0.41	0.35	-0.66	-0.7	0.41	0.41	0.0875	0.0325	0.125	0.888485	0.954154	0.819292	0.999971	1	0.975699
Timn10	P62073	-0.06	0.1	-0.32	0.06	-0.23	-0.03	-0.04	-0.11	-0.02	-0.14	-0.37	-0.57	0.1	0.05	-0.27	0.4	-0.0475	-0.22	0.015	0.794194	0.298976	0.337697	0.999971	1	0.955618
Timn11	Q9VW96	-0.33	-0.01	1.03	1.14	0.2	-0.61	0.79	1.41	0.4	-0.75	0.96	0.28	-0.32	-0.19	1.28	1.03	-0.01	-0.235	0.1525	0.984729	0.626704	0.744448	0.999971	1	0.961064
Timn13	P62075	0.5	0.54	0.47	0.83	0.99	0.91	0.5	0.6	0.91	0.55	0.55	0.17	1.33	0.92	0.29	0.18	0.165	0.4	0.095	0.422102	0.852764	0.74767	0.999971	1	0.961064
Timn17a	Q9Z0V8	-0.63	-0.78	-0.39	-0.37	-0.39	-1.41	-0.01	-0.04	-1.05	-1.09	-0.68	-0.48	-0.39	-0.49	-0.85	0.13	0.1	-0.2825	0.1425	0.772658	0.218479	0.576401	0.999971	1	0.918194
Timn17b	Q9Z0V7	1.28	0.08	0.32	-0.15	-0.22	0.1	0.57	0.07	-0.03	0.37	0.41	0.66	-0.25	0.37	0.25	-0.37	-0.2525	-0.08	-0.3825	0.475269	0.797196	0.299462	0.999971	1	0.847402
Timn21	Q8C4M6	-0.38	-0.14	0.66	-0.31	-0.19	0.08	1.24	-0.64	-0.34	0.33	0.51	-0.37	-0.21	0.73	0.39	-0.05	-0.0725	0.05	0.289491	0.681216	0.39576	0.999971	1	0.918194	
Timn22	Q8B1U5	-0.54	-0.66	-1.09	0.94	-0.76	-0.89	0.59	2.05	-0.63	-1.11	1.02	-0.17	-0.59	-0.68	1.42	0.48	0.04	-0.43	-0.14	0.95738	0.480339	0.83066	0.999971	1	0.978535
Timn23	AA021B54	1.36	0.02	0.01	0.59	-0.26	0.43	0.09	0.36	-0.31	0.96	-0.21	0.28	0.03	0.31	0.11	0.43	-0.315	-0.2735	0.343537	0.45181	0.41594	0.999971	1	0.876885	
Timn29	Q8H8X2	-1	0.46	0.3	0.44	0.63	0.35	0.11	0.25	0.67	-0.59	0.07	0.06	0.7	0.68	0.41	0.52	0.285	0.0205	0.438751	0.959194	0.160222	0.999971	1	0.800144	
Timn44	Q158517	0.04	-0.17	0.18	0.22	-0.35	0.05	0.27	0.17	0.15	0.05	0.14	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.999971	1	0.924326
Timn50	Q90880	0.82	-0.01	-0.27	-0.19	-1.27	-0.8	0.23	-0.18	-1	-0.31	-0.24	-0.21	-1.65	-0.88	-0.3	-0.21	-0.3425	-0.1225	-0.5975	0.471266	0.779936	0.224327	0.999971	1	0.828225
Timn81	Q9VWA2	-1.85	-0.32	0.02	0.61	-0.58	-0.8	-0.09	-0.16	-0.67	-0.32	0.22	-0.24	-0.42	-0.56	0.41	0.62	0.0575	0.3975	0.912706	0.599431	0.479399	0.999971	1	0.894348	
Timn8B	P62077	0.38	1.14	1.35	0.1	0.87	1.01	2.1	0.58	1.25	0.33	1.59	-0.06	1.15	0.07	1.43	0.36	0.3975	-0.10	-0.205	0.360608	0.836168	0.680792	0.999971	1	0.943097
Timn9	Q9VW88	-0.09	0.17	0.05	0.34	-0.13	0.44	0.34	0.28	0.04	-0.13	-0.16	0.38	0.05	0.86	0.26	0.1	-0.0375	-0.155	-0.38	0.703023	0.146504	0.156141	0.999971	1	0.796028
Timn9d1	Q8B1U5	1.32	-0.17	0.33	0.12	-0.55	-0.02	-0.05	0.41	-0.03	0.11	-0.21	-0.59	-0.69	-0.28	-0.36	0.15	-0.2875	-0.415	-0.53	0.481809	0.301728	0.203855	0.999971	1	0.816167
Timp2	P25785	-0.38	-0.67	-1.04	-1.26	0.14	-0.53	-0.59	-0.41	0.44	-0.53	-0.7	-0.58	-0.22	-0.04	-1.22	-0.49	0.495	0.475	0.101294	0.156738	0.711051	0.999971	1	0.822884	
Tinag1	Q9J9R5	0.46	-0.36	0.22	1.7	4.53	0.2	1.28	0.44	0.84	0.25	2.79	4.01	-2.36	0.55	1.47	0.45	1.1075	2.0475	-0.4775	0.272991	0.017755	0.573276	0.999971	1	0.918186
Tipr1	Q8H588	0.08	-1.2	0.12	-0.49	-0.56	-1.18	0.13	0.12	-0.7	-1.13	0.08	0.21	-0.97	-1.23	-0.1	-0.28	7.85617	-0.1025	-0.2725	0.976739	0.495796	1	0.901531		
Tpl1	B9HJ1	0.02	-0.85	-0.56	-0.56	-0.18	0.08	0.1	0.84	0.7	-0.73	0.66	-0.72	-0.16	-0.72	-0.16	-0.245	0.2784	-0.245	0.2784	0.769156	0.00058	0.999971	1	0.833131	
Tpl2	Q8A32W2	-0.64	-1.11	-0.72	-0.85	-1.2	-1.36	-0.73	-1.06	-0.85	-0.9	-1.01	-1.09	-0.95	-1.35	-0.81	-1.24	-0.2575	-0.1325	-0.2575	0.251841	0.477932	0.249416	0.999971	1	0.901531
Tpl2	Q9R088	-0.38	-0.24	-0.33	-0.41	-0.45	-0.45	0.13	-0.32	-0.13	0.12	0.13	0.05	0.06	0.06	0.42	0.035	0.29	0.4075	0.860494	0.139758	0.061822	0.999971	1	0.725348	
TkC	Q8V3C0	-0.48	-0.45	-0.19	-0.14	0	-0.39	0.32	0	-0.05	-0.67	-0.14	-0.32	0.35	-0.18	-0.41	-0.16	0.7275	-0.205	-0.01	0.784418	0.439798	0.790366	0.999971	1	0.998814
Tk	P40142	-0.75	-0.47	-0.46	-0.31	-0.41	-0.54	-0.49	-0.38	-0.2	-0.27	-0.49	-0.55	-0.63	-0.51	0.55	0.15	-0.854205	0.671104	0.680867	0.999971	1	0.901531			
Tk1	Q9Y716	-0.7	-0.16	-0.95	-1.75	-0.97	0.19	1.3	-0.91	-0.7	-0.33	-0.82	-0.68	0.16	0.68	-1.45	-0.96	0.1425	0.2575	0.4975	0.746623	0.460158	0.373473	0.999971	1	0.8696

Item411	Q90B02	-0.88	-0.57	-2.02	-1.09	-0.49	-0.56	-1.85	-0.05	-0.55	-0.67	-1.57	-1.78	-1.02	0.13	-0.83	-0.45	0.4025	-0.0025	0.5975	0.397308	0.995242	0.149403	0.999971	1	0.793248	
Item413	Q90B51	-0.36	-0.06	-0.25	-0.42	0.23	-0.18	-0.52	0.06	0.35	0.09	-0.36	0.2	0.44	-0.12	0.23	-0.24	0.17	0.3425	0.35	0.453427	0.138651	0.138625	0.999971	1	0.789448	
Item417	Q90J56	-1.77	-0.18	-0.71	-0.42	-0.26	-0.51	1.09	-0.02	-0.2	-1.54	-0.97	-0.51	-0.89	-1.34	-1.26	1.38	0.7375	0.11	-0.5425	0.168337	0.76737	0.115594	0.999971	1	0.823077	
Item50b	Q90J51	1.7	0.85	2.32	1.39	0.37	0.81	1.82	1.02	0.8	3.18	1.56	2.94	1.59	0.75	0.93	1.78	-0.56	0.55	-0.3025	0.196209	0.361202	0.437291	0.999971	1	0.882419	
Item51	Q90G11	0.01	-1.44	-1	-0.48	-0.64	-0.69	-0.65	-1.32	-0.48	-0.63	-0.64	-1.2	-0.79	-1.85	-1.35	-1.59	0.2275	-0.09	-0.6675	0.984017	0.790587	0.103122	0.999971	1	0.782628	
Item59	Q70N12	-0.89	1.79	-0.74	-1.17	0.22	0.84	-0.28	-0.48	0.41	-0.73	-0.32	-0.32	0.6	0.87	-1.61	-0.44	0.3275	0.0125	0.1075	0.639341	0.984841	0.893032	0.999971	1	0.798828	
Item62	Q80X05	-0.52	-0.83	0.54	0.37	-1.32	-1.12	0	0.83	-1.61	-0.85	1.43	0.84	-1.83	-0.34	0.93	1.06	-0.19	0.415	0.1675	0.741405	0.508044	0.119149	0.999971	1	0.974279	
Item63b	Q31W09	-1.23	-0.58	-0.48	-0.59	-0.34	-0.22	-0.26	-0.15	-0.39	-0.59	-0.05	-0.06	0.25	-0.23	-0.18	0.02	0.4775	0.475	0.685	0.054503	0.095034	0.017311	0.999971	1	0.613735	
Item63b	Q32Z08	-1.12	-1.18	-0.71	-0.3	-0.45	-1.26	0.35	-0.57	0.84	0.14	-0.28	0.24	-0.05	-0.42	0.02	-0.22	0.57	1.0625	0.66	0.206712	0.007732	0.027025	0.999971	1	0.678474	
Item63b	Q80X00	-0.21	0.13	0	0	0.28	0.31	-0.15	0.43	0.2	0.11	0.13	0.47	0.58	0.17	0.46	0.56	0.1325	0.1425	0.3575	0.507583	0.425481	0.078398	0.999971	1	0.754517	
Item63b	Q4V453	-0.56	-0.03	-0.11	-0.42	-0.73	-0.18	-0.07	-0.17	-0.56	-0.17	-0.56	-0.12	-0.47	-0.36	0.11	0.25	0.1375	0.1425	0.125	0.517469	0.873893	0.379195	0.999971	1	0.618022	
Item67	A2AP15	-1.72	-3.93	0.26	-0.46	-3.39	-4.48	0.22	-0.77	-4.73	-0.37	-1.03	-1.1	-0.89	-3.31	-0.47	-0.48	-0.6425	-1.095	-0.775	0.613606	0.365557	0.552328	0.999971	1	0.913395	
Item68	Q90S50	-0.28	-0.14	-0.44	-0.14	0.15	-0.12	-0.36	-0.09	0.01	-0.05	-0.13	0.07	0.26	0.05	-0.13	-0.15	0.145	0.225	0.2575	0.457448	0.206723	0.196447	0.999971	1	0.812891	
Item69	Q3XQ00	0.81	1.42	1.99	1.91	0.9	2.16	1.19	1.65	1.44	0.29	0.89	1.48	-0.89	1.06	0.74	1.93	-0.0575	-0.5075	-0.8225	0.877962	0.202355	0.189937	0.999971	1	0.810547	
Item74b	A20A04	0.86	-1.1	-1.51	-1.88	-0.66	-0.55	-1.56	-1.63	-1.11	0.32	-0.96	-1.78	0.1	0.82	-0.24	1.32	0.1875	0.075	0.7975	0.79952	0.91337	0.266328	0.999971	1	0.842677	
Item74b	A2AQ05	0.53	1.83	1.53	1.49	-1.24	1.82	1.47	0.99	-1.34	0.22	1.22	1.55	1.88	1.51	1.53	1.37	0.125	0.09	0.0525	0.689044	0.712728	0.861985	0.999971	1	0.982963	
Item74b	A2VM16	-0.92	2.27	0.91	-0.35	2.13	1.9	0.69	1.79	2.42	-0.67	1.37	1.74	1.73	1.94	1.42	0.32	0.9	0.7375	0.875	0.233676	0.41037	0.244034	0.999971	1	0.837316	
Item88b	Q31Y14	0.39	1.11	1.49	0.8	0.23	0.35	0.34	1.03	0.99	0.8	0.32	0.96	1.24	0.75	1.16	1.04	-0.46	-0.18	0.1	0.15547	0.540194	0.171051	0.999971	1	0.952711	
Item9	Q92R23	0.67	-0.05	-0.12	-0.89	0.04	0.25	0.07	-0.15	0.02	0.56	-0.2	-0.65	1.12	0.68	-0.44	0.08	0.15	0.03	0.4575	0.050042	0.937866	0.1314575	0.999971	1	0.85151	
Item94	A04AS8KL5	-0.76	-0.76	-1.47	-0.87	-0.48	-0.58	-1.06	-0.98	-0.81	-1.01	-0.33	-0.43	-0.52	-0.77	-0.93	-0.22	0.85	0.115	0.055	0.18	0.62646	0.808093	0.515602	0.999971	1	0.905815
Item97	Q90V00	-0.58	1.46	0	0.91	0.52	2.2	-0.08	0.36	0.92	1.85	0.27	-0.27	0.44	2.12	0.59	0.5	0.3025	0.245	0.465	0.625634	0.680638	0.415598	0.999971	1	0.876885	
Item98b	Q91J88	0.48	1.25	-0.06	-0.1	1.24	1.19	-0.13	0.41	1.63	0.56	0.22	-0.06	2.5	0.71	0.25	0.42	0.08	0.195	0.5775	0.871931	0.671203	0.135861	0.999971	1	0.852797	
Item1	89B1K3	0.2	0.42	0.04	0.59	0.71	0.24	-0.09	0.63	0.34	0	0.33	0.38	0.34	0.49	0.48	0.42	0.06	-0.05	0.12	0.810306	0.804546	0.537224	0.999971	1	0.910707	
Item1b	Q91Z20	-0.58	-0.17	-1.23	-0.49	-1.12	-0.9	-0.67	-0.35	-1.02	-0.59	-1.17	-0.91	-1.47	-1.19	-1.2	-0.53	-0.0025	-0.225	-0.43	0.734299	0.327758	0.163601	0.999971	1	0.800215	
Item1b	PA9813	0.33	-0.35	-1.23	-0.56	-0.07	-0.74	-1.72	-1.2	-1.03	0.21	-1.24	-1.39	-0.57	-0.06	-1.47	-0.93	-0.6375	-0.41	-0.305	0.124956	0.381702	0.470504	0.999971	1	0.830857	
Item2d	Q91KK7	-1.38	-0.93	-1.42	-1.32	-0.94	-1.37	-0.89	-1.43	-0.95	-1.44	-1.04	-0.84	-0.69	-1.12	-1.22	-1.1	0.105	0.195	0.23	0.693934	0.377493	0.295644	0.999971	1	0.847102	
Item3	Q91JH0	0.41	0.39	0.18	0.35	1.12	0.52	0.48	0.12	0.41	0.6	0.31	0.72	0.22	0.86	0.39	0.13	0.2275	0.1775	0.0675	0.363945	0.335534	0.756721	0.999971	1	0.961416	
Item3	Q91Q13	2.03	1.1	0.56	0.61	0.44	0.42	0.61	1.02	0.55	0.42	0.6	0.22	1	0.4	0.93	0.63	-0.41	-0.1775	-0.3505	0.268964	0.662959	0.229537	0.999971	1	0.828887	
Item3	Q10209	0.56	0.1	0.86	0.61	0.62	0.96	0.28	0.32	0.97	1.05	0.56	-0.79	-0.91	-0.51	-0.63	0.86	-0.05	0.151118	0.355269	0.373489	0.999971	1	0.835494			
Item3	Q12Z86	0.61	0.35	0.38	0.42	0.19	0.27	0.05	0.51	0.19	0.26	0.7	0.15	0.25	0.46	0.33	0.02	-0.185	-0.115	-0.175	0.33211	0.682298	0.355413	0.999971	1	0.686793	
Item3b	Q92W08	2.11	0.31	-1.91	-0.46	0.37	0.61	-0.93	0.1	0.67	-0.17	-0.25	-1.04	1.27	1.56	-0.45	0.31	0.025	-0.21	0.66	0.975376	0.798115	0.449322	0.999971	1	0.885522	
Item3b	P120S5-2	0.14	-0.13	0.19	0.2	0.68	0.05	0.8	0.46	0.59	-0.72	0.31	0.54	1.01	-0.29	0.15	0.18	0.3975	0.08	0.1625	0.011311	0.801657	0.583281	0.999971	1	0.920364	
Item3b	P120S5-2	-1.15	-1.53	1.49	-1.24	1.82	1.47	0.99	-1.34	0.22	1.22	1.55	1.88	1.51	1.53	1.37	0.125	0.09	-0.0525	0.689044	0.712728	0.861985	0.999971	1	0.982963		
Item3	Q31V71	1.66	-1.11	1.12	0.1	-1.38	-1.39	0.19	-0.34	-1.68	0.52	0.27	-0.09	-0.75	-0.91	-0.89	1.12	-1.1725	-0.6875	-0.355	0.102374	0.343034	0.29865	0.999971	1	0.932649	
Item3	G5E6C4	0.46	-0.51	-0.2	-0.25	0.06	-0.52	-0.17	-0.07	-0.28	0.59	0.11	0.34	-0.14	0.03	-0.27	0.26	0.015	0.135	0.095	0.955398	0.291675	0.716091	0.999971	1	0.952576	
Item3b	Q91MG12	0.41	-0.3	-0.31	0.14	-0.51	-0.22	-0.37	0.38	-0.52	0.79	0.3	1.26	0.23	0.52	0.71	0.54	-0.165	0.4725	0.015	0.558464	0.258777	0.054597	0.999971	1	0.725348	
Item3	Q80V10	0.81	1.13	0.56	0.43	0.35	0.02	0.96	0.28	0.32	0.89	0.44	0.02	0.46	0.35	0.36	0.44	0.16	0.18	0.315	0.514408	0.590457	0.781149	0.999971	1	0.949971	
Item3b	Q91Z10	-0.31	0.13	-0.22	-0.64	-0.06	0.14	-0.02	-0.38	0.27	-0.11	-0.18	-0.32	-0.28	0.06	-0.29	-0.76	0.18	0.175	-0.0575	0.442255	0.463378	0.822995	0.999971	1	0.975901	
Item3	Q88X21	-0.09	0.06	-0.06	-0.17	-0.03	-0.09	-0.29	0.2	-0.07	-0.16	-0.17	0.07	0.39	0.13	0.07	0.2	-0.0725	-0.1025	0.1775	0.699878	0.547695	0.329617	0.999971	1	0.856787	
Item3	Q80C00	0.19	0.93	0.9	1.04	0.41	0.38	1.35	0.41	0.27	0.07	0.26	0.71	0.83	0.6	0.59	0.6	-0.1275	-0.4375	-0.02	0.685533	0.118322	0.394598	0.999971	1	0.995618	
Item3	Q80Y19	-0.02	0.34	0.65	0.14	0.52	0.63	1.25	0.43	0.74	0.43	1.22	0.99	0.63	0.15	0.74	0.91	0.4	0.5675	0.31	0.126702	0.454577	0.205393	0.999971	1	0.816088	
Item3b	Q70A79	0.28	0.28	0.14	0.1	0.21	0.1	0.24	0.16	0.17	0.13	0.1	0.1	0.1	0.1	0.1	0.1	-0.615	0.624933	0.39412	0.926164	0.999971	1	0.94171			
Item3b	Q60769	1.81	0.81	0.4	0.6	0.27	0.15	1.56	1.03	0.46	1.04	0.06	-0.93	0.45	0.69	-0.42	-1.19	-0.1825	-0.7475	-1.0225	0.681427	0.150209	0.645654	0.999971	1	0.726597	
Item3b	Q12Z35	1.02	1.32	-0.08	-0.06	0.32	1.56	-0.05	0.21	0.64	2	-0.03	0.09	0.86	1.61	0.01	0.94	-0.04	0.125	0.3	0.932927	0.918899	0.520854	0.999971	1	0.906972	
Item3b	Q31B18	0.86	-0.32	0.92	0.53	0.27	1.28	0.42	1.15	0.53	0.84	0.31	0.24	0.29	0.61	0.67	0.79	0.8285	0.1075	0.0925	0.453948	0.985022	0.766394	0.999971	1	0.962472	
Item3b	Q5E915	0.81	1.13	0.56	0.43	0.35	0.02	0.96	0.28	0.32	0.89	0.44	0.02	0.46	0.35	0.36	0.44	0.16	0.18	0.315	0.514408	0.590457	0.781149	0.999971	1	0.949971	
Item3	B2R080	-0.25	-0.85	-0.38	-0.56	-1.11	-0.82	-0.17	-0.7	-0.61	-0.25	-0.51	-0.46	-0.89	-0.95	-0.93											

Trim24	Q64127	2.93	1.57	0.38	1.18	1.44	1.1	1.17	0.13	1.51	2.23	0.18	-0.31	0.03	0.46	-0.11	-0.36	-0.555	-0.6125	-1.51	0.33153	0.405067	0.016403	0.999971	1	0.613095
Trim25	Q61310	0.9	0.59	0.83	0.83	1.23	-0.03	0.15	0.81	0.54	0.38	0.49	1	0.91	1.15	0.53	0.97	-0.2475	-0.185	0.1025	0.42815	0.375124	0.617138	0.999971	1	0.928457
Trim26	J3QW4	-0.15	0.6	0.8	0.26	0.47	0.8	0.5	1.63	0.23	0.36	1.18	0.95	0.07	0.76	0.77	0.0235	-0.1775	0.185	0.809551	0.660237	0.5705	0.999971	1	0.91816	
Trim28	Q62158	0.7	1.27	0.62	0.52	1.04	1.21	0.64	0.52	1.06	0.69	0.56	0.54	1.13	1.21	0.53	0.73	0.075	-0.065	0.1225	0.771985	0.785131	0.637707	0.999971	1	0.93301
Trim3	Q9R182	-0.23	0.11	-0.03	0.08	0.33	0.31	0.22	0.37	1.33	0.16	0.16	0.29	0.24	0.09	0.21	0.09	0.5	0.5025	0.735	0.084733	0.122373	0.20157	0.999971	1	0.815758
Trim32	Q8C712	-0.19	0.95	0.5	0.12	0.56	0.9	-0.04	0.44	0.94	0.16	0.37	-0.26	1.56	0.9	0.4	0.58	0.12	-0.0425	0.515	0.708512	0.920282	0.16586	0.999971	1	0.800215
Trim33	Q8C4M5	1.84	2.04	1.96	0.49	1.95	1.55	1.54	2.09	1.67	1.56	2.19	2.14	1.8	1.97	2.25	0.3	-0.1925	-0.2025	0.222787	0.437051	0.35021	0.999971	1	0.856472	
Trim35	Q8C0C6	1.65	0.34	1.75	0.31	0.63	1.98	1.87	0.8	0.87	1.53	0.7	0.28	0.5	1.06	1.48	-0.175	-0.3975	-0.5425	0.730729	0.311544	0.216168	0.999971	1	0.826893	
Trim36	Q8W0G7	0.71	-1.24	-0.47	-0.47	0.1	-1.37	-0.01	0.21	0.28	-0.27	-0.49	-0.5	0.78	-0.81	-0.14	-0.005	-0.1225	-0.0791828	0.771231	0.961334	0.999971	1	0.998721		
Trim37	F6M4M5	-4.6	-0.84	-0.47	-5.11	0.53	-2.66	-0.39	-3.45	0.43	-4.95	1.3	1.05	0.28	-2.61	-1.79	-2.65	1.2625	2.2125	0.1725	0.366469	0.218808	0.399351	0.999971	1	0.871816
Trim44	F7B7X2	2.63	0.75	0.8	0.26	0.47	0.8	0.5	1.63	0.23	0.36	1.18	0.95	0.07	0.76	0.77	0.0235	-0.1775	0.185	0.809551	0.660237	0.5705	0.999971	1	0.91816	
Trim46	Q7TWN2	0.36	0.47	0.87	1.14	0.43	0.91	1.18	1.47	0.53	0.38	1.18	0.95	0.07	0.76	0.77	0.0235	-0.1775	0.185	0.809551	0.660237	0.5705	0.999971	1	0.91816	
Trim47	Q8C0E3	0.02	-0.63	0.86	0.64	1.04	-0.22	0.81	0.58	-0.35	-0.05	0.8	0.96	1.21	0.56	-0.56	-0.17	0.58	0.1175	0.0075	0.265992	0.788796	0.987908	0.999971	1	0.99925
Trim48	Q8V011	1.26	0.96	1.08	1.01	0.14	1.55	-0.66	0.35	-0.43	1.11	0.29	0.12	0.09	1.97	0.55	0.37	-0.7325	-0.3325	0.119615	0.028941	0.421504	0.999971	1	0.87788	
Trim55	Q8B1W4	-0.95	-0.18	-0.35	-0.12	-1.12	-0.9	-0.04	-0.17	-0.72	-0.33	0.07	-0.22	-0.53	-0.62	0.33	0.15	-0.1575	0.1	0.2325	0.633237	0.710885	0.461784	0.999971	1	0.890095
Trim56	E9P2P2	-1.44	-0.16	-0.19	-0.41	0.5	-1.01	-0.37	-0.55	0.75	-0.84	0.3	-0.42	0.78	-0.19	-1.2	0.27	0.1975	0.4975	0.33	0.635782	0.277731	0.496027	0.999971	1	0.898612
Trim72	Q11X17	-0.78	-0.04	-0.46	-0.78	-0.105	-1.45	-1.21	-0.11	-0.66	-0.49	0.5	0.92	-0.23	-0.89	-0.1	2.29	-0.17	0.1925	0.5075	0.786511	0.688107	0.466854	0.999971	1	0.891477
Trim9	Q8C7K3	-2.81	-1.31	-1.27	-1.3	-0.32	-1.32	-1.01	-1.12	-0.93	-3.41	-0.17	-0.37	-1.1	-1.46	-0.75	-1.41	0.73	0.4525	0.4925	0.106069	0.55567	0.234955	0.999971	1	0.832918
Trim9_1	A0A68MVA	-0.15	-0.49	-0.37	-0.04	-0.9	-0.42	-0.2	-0.7	-1.21	0.73	0.06	-1.04	-1.76	-0.53	-0.72	-0.2	-0.3075	-0.4625	-0.57	0.208084	0.152108	0.115839	0.999971	1	0.78268
Trim9_2	E9QJH4	0.04	0.21	-0.14	-0.23	-0.11	0.16	-0.2	0.07	-0.19	0	-0.35	-0.44	-0.11	-0.24	0.06	-0.015	-0.1	-0.0775	0.040646	0.520334	0.095089	0.999971	1	0.947174	
Trim9_3	Q8K0L2-3	-0.8	-0.43	-0.99	-0.7	0.5	-0.68	-0.1	-1.24	-0.36	-0.56	-0.92	-0.84	-0.43	-0.75	-1.18	-0.24	0.1925	-0.0775	0.510233	0.505957	0.767675	0.999971	1	0.962472	
Trio	A0A213BQ1	1.75	0.08	-1.62	-2.42	-0.65	-0.28	-0.24	-1.82	-0.57	1.31	-1.09	-3.41	-3.29	-0.61	-0.06	-2.16	-0.195	-0.3875	-0.9775	0.827321	0.748003	0.367233	0.999971	1	0.869526
Trnobp	Q9RWK4-4	3.23	0.35	0.33	1.13	0.82	0.6	1.27	0.03	0.83	2.66	0.09	0.35	0.04	0.53	0.39	0.07	-0.58	-0.2775	-1.0025	0.931238	0.732636	0.13903	0.999971	1	0.784848
Trp11	E9S512	1.48	0.16	1.85	1.85	1.5	1.28	1.35	2.01	1.51	1.44	1.7	1.97	1.05	1.5	1.71	2.13	-0.165	-0.1025	0.475464	0.823636	0.699764	0.999971	1	0.948208	
Trp12	E5S870	-0.02	0.2	-0.39	-0.37	-0.17	-0.07	-0.32	-0.01	0.49	0.11	-0.25	-0.18	0.14	0.01	-0.15	-0.5	0.0875	0.1875	0.02	0.69131	0.456544	0.932185	0.999971	1	0.959059
Trp14	Q9XN3-2	0.81	0.44	1.02	0.53	0.79	0.85	1.96	0.88	0.76	1.01	1.98	2.32	0.72	0.66	1.51	0.88	0.42	0.1875	0.2425	0.204072	0.058939	0.363266	0.999971	1	0.869526
Trp4	Q9V735	4.18	2.19	4.39	5.1	2.08	2.68	4.82	3.81	2.31	3.36	3.03	2.1	0.93	1.76	3.12	2.64	-0.7425	-1.8525	0.348962	0.072192	0.027477	0.999971	1	0.678474	
Trp1	Q8U0V9	-1.77	-0.38	-0.92	1.23	-0.97	-0.76	-1.49	-0.84	-0.81	-1.02	-0.99	-1.46	-0.85	-0.99	-1.32	0.32	-0.505	-0.61	-0.25	0.410854	0.319755	0.70557	0.999971	1	0.950282
Trm1	H3B5S5	1.7	1.9	1.79	0.98	1.82	1.53	1.39	1.21	1.38	1.55	1.92	1.54	1.01	1.8	1.6	1.21	0.06	0.02	-0.2375	0.821238	0.944594	0.36467	0.999971	1	0.895794
Trm10C	Q3UYF8	-0.58	-0.73	0.09	0.06	-0.58	-0.69	0.01	0.44	-1.06	-0.61	0.03	-0.24	-0.6	-0.54	0.44	0.48	0.085	-0.18	0.235	0.800929	0.577216	0.51752	0.999971	1	0.905815
Trm11	E9QK63	-0.23	0.03	0.11	0.36	-0.06	-0.92	-0.73	0.1	-0.55	-0.86	-0.57	-0.75	0.03	-0.44	-0.36	0.22	-0.605	-0.75	-0.205	0.049795	0.094256	0.393762	0.999971	1	0.96702
Trm112	Q9V0C9	1.6	1.5	0.13	0.39	1.24	1.53	-0.18	0.29	1.04	1.56	-0.03	-0.06	0.89	1.79	0.26	0.61	-0.185	-0.2775	-0.175	0.168551	0.053122	0.97009	0.999971	1	0.998787
Trm111	A0A9H8	-0.16	0.44	-0.98	0.1	0.61	-0.77	-0.47	1.35	-1.53	-0.08	1.18	-2.73	1.05	1.08	0.75	-0.3275	-0.955101	0.959432	0.197462	0.999971	1	0.974623	0.999971	1	0.974623
Trm44	Q9V0Z2	-2.05	0.83	0.42	-0.64	0.82	0.07	0.44	-0.54	-1.48	-1.58	-0.21	-0.13	-0.74	-0.94	-0.42	-1.37	0.5575	0.25	-0.5075	0.394552	0.758486	0.417954	0.999971	1	0.877685
Trm56	Q8CE96	1.92	2.36	2.65	2.36	2.07	1.59	2.56	1.85	1.89	2.15	2.51	2.03	1.32	1.86	1.76	1.2	-0.305	-0.1775	-0.7875	0.281337	0.455508	0.0118	0.999971	1	0.613095
Trm61a	Q8X0C2	3.23	2.83	2.19	1.69	1.49	2.21	0.04	1.05	1.86	2.61	1.87	1.85	2.17	2.19	1.78	1.37	-0.2875	-0.4375	-0.6075	0.670268	0.264659	0.136088	0.999971	1	0.784848
Trm9	Q9D4T5	0.81	0.23	0.82	-0.02	-0.11	0.16	-0.2	0.06	-0.15	0.46	0.32	-0.46	-0.13	-0.36	-0.45	-0.16	-0.325	-0.2925	-0.560402	0.151562	0.0219	0.999971	1	0.947174	
Trm1	Q8K1L6	-0.3	1.12	0.84	1.13	0.84	1.01	0.87	0.94	1.17	0.56	1.21	1.01	1.16	1.25	0.91	1.24	0.1735	0.29	0.4425	0.25216	0.4312	0.220741	0.999971	1	0.827096
Trp9	Q9J01C	1.12	0.29	-0.13	0.29	0.95	0.2	2.37	-0.95	-0.36	-1.54	0.11	-0.01	-0.42	0.79	-0.17	-0.1	0.25	-0.6625	-0.3675	0.711337	0.18514	0.326354	0.999971	1	0.856472
Trp53bp2	E9DUE6	0.57	-0.83	-0.38	-1.23	-0.47	-0.69	-0.53	-0.77	-0.52	-0.11	-0.25	-0.07	-0.84	-0.48	-0.9	-0.79	-0.1475	0.23	-0.285	0.69854	0.55538	0.465567	0.999971	1	0.891255
Trp5311	A0A2C6	-0.47	-0.47	-0.1	-0.2	-0.24	-0.73	0.56	0.28	0.43	-0.26	0.71	0.92	2.97	-1.14	0.13	0.15	0.3975	0.76	0.8375	0.13132	0.04608	0.303119	0.999971	1	0.994216
Trp5314	Q5A3M9	-0.25	0.75	1.26	1.26	0.73	0.56	0.67	0.58	1.87	0.25	1.99	0.26	1.97	0.26	1.97	0.26	0.1875	0.789151	0.87079	0.74086	0.999971	1	0.935315		
Trp1	A0A087W5	-0.11	-0.76	-0.15	-0.68	-0.11	-0.58	-1.16	-0.09	-0.84	-0.05	0.45	-1.08	-0.37	-0.27	-0.49	-0.42	-0.0825	0.2925	0.035	0.801438	0.40483	0.912807	0.999971	1	0.894618
Trp4	Q9U1V2	-1.04	-0.61	0.32	0.32	-0.9	-0.18	0.05	0.48	-0.82	-0.45	0.64	0.63	-0.01	-0.07	0.96	1.21	0.115	0.2525	0.775	0.786349	0.597967	0.10375	0.999971	1	0.78268
Trp4ap	Q9V0Z5	0.38	0.32	0.91	1.11	0.34	0.73	0.61	1.78	0.38	0.59	0.95	1.42	0.85	0.9	1.65	1.8	0.1675	0.155	0.2225	0.638467	0.461862	0.07858	0.999971	1	0.754157
Trp5	Q3U0G1	-0.19	-0.06	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	0.51	0.299188	0.592611	0.128275	0.999971	1	0.895794	
Trp3	Q5F457	-1.13	-1.55	-0.09	0.02	-1.16	-0.94	-0.45	0.33	-0.99	-1.28	-0.6	-0.33	-0.7	-0.54	-0.22	-0.37	0.1325	-0.1125	0.23	0.780302	0.788596	0.555727	0.99997		

Tun	P10639	-0.58	0.44	0.68	0.59	0.63	0.58	0.51	0.92	0.98	-0.14	0.81	0.41	0.36	0.79	1.06	0.97	0.3775	0.2325	0.5125	0.24855	0.537094	0.147318	0.999971	1	0.793248	
Tun2	G3UZY2	-1.98	1.29	-1.97	-2.16	0.56	0.81	-1.07	-2.45	0.91	-1.43	-1.35	-2.35	1.8	0.73	-2.25	-2.74	0.6675	0.15	0.59	0.518621	0.77666	0.635259	0.999971	1	0.93101	
Tun2c12	QRCJ00	-0.19	0.88	-0.29	-0.09	0.25	0.07	0.64	-0.6	0.1	-0.62	0.48	0.15	0.76	0.3	-0.32	0.51	0.3325	0.01	0.205	0.307994	0.971544	0.963721	0.999971	1	0.912787	
Tun2c15	Q6P69	-0.16	0.55	-1.49	-0.85	-0.36	-0.89	-1.29	-0.78	-0.52	-0.32	-1.46	-1.28	-0.03	-0.48	-0.61	-0.58	-0.0675	-0.1325	0.3375	0.041875	0.729992	0.301047	0.999971	1	0.847402	
Tun2c16	Q7TN22	-0.72	0.55	-0.63	-0.59	-0.28	0.4	-0.85	-0.44	-0.44	-0.14	-0.48	-0.56	-0.04	-0.12	-0.88	-0.39	0.055	-0.1375	-0.01	-0.885725	0.677859	0.977181	0.999971	1	0.999925	
Tun2c17	Q9CQMS	0.46	1.55	1.26	1.51	1.5	2.09	1.54	1.98	1.58	1.24	1.55	1.84	1.59	0.41	1.61	1.73	0.5825	0.37	0.085	0.080854	0.225263	0.422904	0.999971	1	0.975901	
Tun5	Q91W90	-0.31	0.19	0.18	0.51	0.31	0.17	0.03	0.73	0.32	0.02	0.29	0.49	0.25	0.33	0.62	0.28	0.325	0.07	0.115	0.203237	0.729159	0.911678	0.999971	1	0.905815	
Tun5	Q9CZ79	-0.24	0.79	0.13	0.28	0.7	1.04	0.04	0.51	0.65	0.54	0.63	0.57	0.95	1.29	0.74	0.72	0.3325	0.375	0.685	0.292535	0.167423	0.303055	0.999971	1	0.678474	
Tun9	Q88G60-2	0.29	0.58	-0.31	-0.89	0.06	0.39	-0.58	1.23	0.63	0.23	-0.05	0.55	0.44	1.21	-0.66	-0.46	0.3575	0.4275	0.215	0.45078	0.253693	0.702609	0.999971	1	0.938809	
Tun11	A04A98WC	-0.42	0.52	0.07	-0.68	0.63	0.55	0.41	0.83	0.7	0.7	-0.29	0.04	0.46	1.42	0.72	0.08	-0.18	0.5675	0.39	0.6725	0.085634	0.266443	0.136019	0.999971	1	0.784948
Tun14a	P81877	-0.41	0.88	-0.33	-0.43	2.01	0.51	0.81	0.05	0.7	-0.16	-0.16	-0.12	0.81	0.72	0.15	0.82	0.2175	0.665	0.085	0.55569	0.425016	0.314145	0.999971	1	0.944635	
Tun14b	Q8BU11	0.03	-0.07	0.63	0.78	0.2	1.24	0.54	1.1	-0.74	0.07	-0.66	-0.29	-0.09	0.55	-0.14	0.88	0.3325	-0.6025	-0.2425	0.371515	0.088162	0.397633	0.999971	1	0.751816	
Tunr1d	Q91MH6	0.5	0.59	0.66	0.66	0.37	0.98	0.62	0.9	0.6	0.7	0.95	1.12	0.8	1.06	1.3	0.83	0.115	0.24	0.395	0.571551	0.223085	0.063902	0.999971	1	0.785164	
Tunr2d	J30CM4	-0.1	-0.35	-0.84	-0.76	-0.53	-0.14	-0.59	-0.49	-0.59	-0.07	-0.93	-1.07	-0.38	0.06	-0.58	-0.35	0.075	-0.1525	0.2	0.751499	0.605012	0.411123	0.999971	1	0.818611	
Tunr3d	Q99M06	0.92	-0.58	0.1	-0.11	-0.11	-0.41	0.42	-0.09	-0.76	0.99	-0.41	0.45	-0.41	-0.11	0.18	0.47	-0.13	-0.015	-0.05	0.712956	0.974793	0.88904	0.999971	1	0.987653	
Ty2	Q9R117	-1.1	-1.83	-0.25	-0.43	-1.97	-1.02	0.04	-0.81	0.93	0.89	0.24	-0.19	-1.24	-0.28	0.14	-0.19	-0.8325	0.6175	-0.635	0.290277	0.377632	0.366945	0.999971	1	0.869526	
Ty3	Q85144-3	-0.26	-0.21	-0.57	-0.26	-0.66	-0.35	-0.7	-0.41	-0.48	-0.63	-0.94	-1.01	0.81	-0.62	-0.55	-0.54	0.125	-0.44	0.1	0.690111	0.054235	0.775399	0.999971	1	0.963993	
Ty4	Q88U17	-1.15	-0.62	0.12	0.03	-0.05	-0.19	-0.27	-0.16	-0.63	-0.49	0.33	0.2	-0.4	-0.05	0.89	0.43	0.2375	-0.2575	0.4875	0.447798	0.495465	0.306328	0.999971	1	0.847402	
Ty5	Q8BSA9	4.52	0.08	2.14	1.62	0.36	1.36	2.01	0.39	2.25	0.75	-0.19	-0.51	0.09	0.95	0.27	-0.925	-1.485	-2.025	0.309401	0.159318	0.043119	0.999971	1	0.701725		
Ty6	A2RSK7	2.04	1.08	0.24	-0.14	1.11	0.92	0.57	0.18	0.92	0.61	1.08	1.12	1.36	0.79	1.46	-0.14	0.34	0.5775	0.2025	0.31620	0.075254	0.161559	0.999971	1	0.928129	
U2af1	Q90M83	1.45	2.14	1.84	2.06	2.16	2.46	1.67	2.02	2.73	1.82	1.96	1.54	1.12	1.87	2.15	1.63	0.205	0.14	-0.18	0.425178	0.647193	0.529253	0.999971	1	0.910609	
U2af14	Q88G19	2.45	1.73	1.4	1.79	1.61	1.25	1.88	1.53	2.31	2.55	2.69	1.53	0.47	1.89	1.68	2.03	0.275	0.4275	-0.325	0.238562	0.226118	0.246803	0.999971	1	0.880793	
U2af14	Q80VR5	1.04	1.35	0.93	1.23	1.28	1.22	0.97	1.15	1.33	1.21	0.65	0.56	0.71	1.63	0.95	1.08	0.0175	-0.2	-0.045	0.925244	0.422114	0.855329	0.999971	1	0.982398	
U2burp	Q80VR5-2	1.06	1.16	1.04	1.11	1.24	0.91	0.82	1.22	0.88	0.72	0.83	0.43	1.24	1.51	0.98	1	-0.045	-0.3775	0.09	0.807147	0.059494	0.642871	0.999971	1	0.93301	
U2ca	A0A115T1	-0.44	-0.04	1.38	1.29	-1.65	0.16	0.42	1.64	0.45	0.44	1.13	7	-2.19	1.44	1.87	1.57	-0.405	0.4575	0.125	0.587479	0.412506	0.89551	0.999971	1	0.985571	
Uap1	A0A0R41F	0.59	0.42	0.38	0.49	0.21	0.62	0.56	0.52	0.23	0.67	0.64	-0.03	-0.05	0.62	0.33	0.9	0.0075	-0.0925	-0.02	0.966847	0.671673	0.933929	0.999971	1	0.995387	
Uap11	G3TW96	0.32	0.94	0.77	0.71	0.87	0.83	1.25	0.37	0.49	0.39	1.49	0.55	0.7	0.91	0.84	1	0.145	0.045	0.1775	0.568364	0.879124	0.392104	0.999971	1	0.871816	
Uap12	Q4D205	0.47	0.72	0.76	0.74	0.55	0.35	0.55	0.59	0.45	0.39	0.75	0.89	0.41	0.54	0.63	0.81	-0.1625	-0.0325	-0.075	0.973627	0.788853	0.684801	0.999971	1	0.944627	
Uap2	Q2T199	2.2	2.89	2.07	3.1	2.36	2.57	3.45	2.66	3.67	2.83	3.23	3.47	2.69	2.53	1.78	2.51	-0.1875	-0.0225	-0.065	0.496333	0.664116	0.963721	0.999971	1	0.925348	
Uba1	Q8C878	0.61	1.56	0.9	0.89	1.28	0.83	0.74	1.02	1.25	0.93	0.76	0.48	1.27	1.09	0.74	0.98	-0.225	-0.135	0.03	0.930561	0.624807	0.906699	0.999971	1	0.991405	
Uba5	Q8VE47	-0.11	0.14	0.02	0.07	-0.15	-0.05	0.64	-0.11	0.13	-0.46	-0.05	-0.07	-0.25	0.23	-0.02	0.03	0.1725	-0.1425	0.0925	0.568146	0.468853	0.599711	0.999971	1	0.92422	
Uba6	Q8C784	-0.5	-0.11	0.11	0.13	-0.11	-0.14	0.11	0.3	-0.16	-0.37	-0.09	0.21	-0.09	0.2	0.26	0.36	0.1325	0.035	0.275	0.545252	0.879209	0.123247	0.999971	1	0.831128	
Uba1c	Q8VD17	0.08	0.08	0.45	0.15	0.29	0.04	0.15	0.28	0.14	0.77	0.55	0.84	0.3	0.56	0.1	1.28	0.0375	0.0225	0.365	0.923602	0.442292	0.474702	0.999971	1	0.959164	
Uba1c2	Q8R1K1	-1.17	0.02	-0.32	-0.77	-0.02	0.13	-0.83	-0.58	-0.17	-0.91	0.01	0.19	0.02	-0.07	-0.48	-0.77	0.235	0.34	0.235	0.497048	0.343615	0.471175	0.999971	1	0.892857	
Ubalid1	Q6P382	1.79	1.62	1.19	1.97	1.94	0.97	2.21	1.76	2.32	0.06	1.14	0.19	-3.86	-0.35	-0.94	-1.89	-0.1725	-0.715	-3.4025	0.651315	0.185726	0.001064	0.999971	1	0.387721	
Ubalp1	Q8H148	-0.39	-0.37	-0.38	-0.32	-0.08	-0.63	0.71	-0.16	-0.34	-1.06	-0.77	-0.24	0.08	0	-0.29	0.22	-0.03	-0.2375	0.2575	0.889626	0.31273	0.168171	0.999971	1	0.800275	
Uba2	A2AMV5	2.09	2.18	1.27	1.75	1.48	2.33	1.89	1.76	2.64	1.82	1.97	2.08	2.36	2.39	1.64	1.54	0.1975	0.0225	0.041	0.610205	0.387566	0.73	0.999971	1	0.909116	
Uba2	Q8X050	1.16	1.6	1.9	1.58	1.46	1.68	2.29	1.8	1.68	1.1	2.05	1.95	1.42	1.44	1.81	2.27	0.2475	0.135	0.175	0.348654	0.628326	0.523207	0.999971	1	0.907797	
Uba3b3c	Q88G67	0.57	-0.22	-0.36	-0.32	0.08	-0.38	-0.3	-0.33	-0.48	-0.02	0.31	0.33	0.01	-0.35	-0.31	-0.15	0.175	-0.28	0.574886	0.694652	0.345434	0.999971	1	0.863502		
Ube2a	A0A09YU7	0.77	1.19	0.6	0.82	1.07	1.38	0.36	0.76	0.93	0.92	0.65	1.21	0.62	1.48	0.91	1.4	0.0475	0.0825	0.2575	0.860432	0.700059	0.340171	0.999971	1	0.860511	
Ube2b	PE3147	0.4	0.97	1.1	0.98	0.23	-0.14	0.37	1.11	-0.21	0.33	1	1.41	-0.37	0.91	0.99	1.42	-0.47	-0.23	0.125	0.155004	0.547974	0.754687	0.999971	1	0.961116	
Ube2c15	PE1080	-2.16	1.19	0.88	0.13	1.63	0.55	1.04	2.2	0.92	1.84	1.09	2.2	0.92	1.04	1.07	0.84	0.19	0.22	1.6975	0.106887	0.248088	0.955151	0.999971	1	0.928129	
Ube2c3	A0A002E3	2.66	0.63	1.49	1.43	0.81	0.54	0.81	1.78	0.42	1.53	1.63	-0.53	0.63	1.66	1.41	1.72	-0.5675	-0.79	-0.1975	0.24362	0.214479	0.667543	0.999971	1	0.938453	
Ube2c3	D3YX01	2.34	2.16	2.83	3.07	1.97	2.09	2.8	2.75	2.04	2.02	2.74	1.96	2.07	2.34	2.46	-0.1975	-0.41	-0.535	0.526609	0.182823	0.184416	0.999971	1	0.809025		
Ube2c3	VS2483	1.48	4.27	1.94	4.34	3.23	4.38	3.65	4.08	3.96	3.46	5.09	3.88	2.36	3.85	3.87	4.1	0.3275	0.59	0.19	0.621327	0.407603	0.801893	0.999971	1	0.971467	
Ube2c1	Q9C2A4	1.29	2.34	1.51	2.76	1.32	1.34	1.37	0.28	0.68	0.41	0.5	1.29	0.71	0.53	0.65	0.15	-0.0825	-0.749424	0.523467	0.954578	0.83322	0.999971	1	0.924714		
Ube2c1	PE2254	-0.17	0.53	0.99	1.03	0.38	0.24	0.59	1.45	0.																	

Uqcrq	Q9CQ69	-0.19	-1.24	-0.99	-0.66	-1.11	-1.53	-0.7	-0.85	-1.4	-0.55	-0.71	-0.78	-1.71	-1.16	-0.91	-1.26	-0.2775	-0.09	-0.49	0.366001	0.765303	0.121913	0.999971	1	0.78268
Urf1	E9P9U6	0.02	-1.03	-0.97	-1.01	-1.25	-1.41	-0.55	-1.28	-1.1	-0.49	-0.45	-0.24	-0.96	-1.12	-1.17	-0.73	-0.375	0.1275	-0.2475	0.263789	0.710489	0.400386	0.999971	1	0.871816
UrH2	E9Z7L1	-1.15	-1.09	-0.39	-0.05	-1.67	-2.47	-0.4	-0.41	-0.74	-1.46	-0.4	-0.46	-2.32	-0.67	-0.41	-1.37	-0.5075	-0.105	-0.3225	0.300293	0.861291	0.385554	0.999971	1	0.845133
Urgp1	Q9NC10	0.3	1	0.05	0.07	1.5	0.78	-0.25	-0.21	1.21	0.67	-0.08	-0.48	1.89	1.16	0.38	0.59	0.205	0.215	-0.165	0.624469	0.535056	0.122415	0.999971	1	0.78268
UrH1	A0A0U1RP	-0.02	0.26	0.42	1.05	-0.44	-0.77	0	0.73	-0.49	-0.57	0.69	0.6	-1.3	-0.16	-0.57	0.55	-0.5475	-0.07	-0.5125	0.175378	0.592026	0.285711	0.999971	1	0.845133
UrH2	Q9D2P4	-1.17	0.08	-0.67	-1.02	-0.37	-0.32	-0.76	-1.05	-0.07	-1.02	-0.53	-0.29	-0.64	0.09	-0.6	0.07	0.2175	0.2575	0.838926	0.329066	0.443259	0.999971	1	0.883386	
UrH3	P70897	-0.48	0.07	0.03	0.13	0.83	0	-0.34	0.01	0.54	-0.15	0.1	0.24	1.1	0.3	0.09	0.41	0.03	0.3025	0.3375	0.551738	0.883415	0.425916	0.999971	1	0.833716
UrH4	PS1163	-0.01	0.13	-0.38	-0.15	-0.47	-0.28	-0.59	-0.77	-0.05	-0.17	-0.28	-0.56	-0.05	0.06	0.47	0.12	-0.04	-0.1625	0.2525	0.903132	0.435102	0.24657	0.999971	1	0.839012
UrH5	A0A0R40E	1.34	0.44	1.26	0.98	0.27	1.02	0.22	1.41	0.03	1.5	0.38	0.87	0.22	1.37	0.6	1.27	-0.775	-0.31	-0.14	0.439379	0.409801	0.681305	0.999971	1	0.943107
UrH6	Q9C506	-0.64	-0.15	-0.22	-0.51	-0.17	-0.29	-0.46	-0.21	-0.2	-0.29	-0.18	-0.32	-0.21	-0.42	-0.36	0.45	0.1825	0.1325	0.02	0.417285	0.483854	0.917655	0.999971	1	0.99263
UrH7	U1D600	-0.27	0.19	0.25	0.15	0.27	0.18	0.2	0.17	0.33	0.16	0.28	0.29	0.18	0.29	0.18	0.08	-0.8075	-0.466818	-0.523876	-0.120179	0.883415	0.999971	1	0.78268	
UrH8	F6P9U6	-0.31	2.38	1.21	0.42	2.69	2.62	2.81	1.53	0.59	0.33	0.91	1.26	0.54	0.67	0.45	0.1525	0.1375	0.165	0.025073	0.578216	0.76065	0.999971	1	0.981116	
UrH9	Q9Z120	0.32	0.96	0.91	0.95	1.06	1.17	1.01	1.12	1.15	1.08	1.03	1.49	1.06	1.1	1.33	1.43	0.305	0.2525	0.445	0.170965	0.372934	0.071966	0.999971	1	0.739457
UrH10	P52479-2	0.95	1.16	1.08	1.3	1.51	0.74	1.27	0.96	1.12	0.97	1.14	1.4	1.11	0.99	1.04	0.88	-0.0025	0.06	-0.1175	0.99114	0.744329	0.508306	0.999971	1	0.905815
UrH11	Q9Y846	0.09	0.79	1	0.98	0.83	0.53	1.01	1.13	0.65	0	1.04	1.23	0.91	0.81	1.3	1.18	0.16	0.015	0.335	0.55701	0.604947	0.286776	0.999971	1	0.828236
UrH12	Q9Y942	0.48	2.72	1.39	0.07	3.09	2.72	1.05	0.69	3.17	0.64	1.01	1.3	1.4	1.49	0.86	0.67	0.7225	0.365	0.64	0.30902	0.623513	0.484444	0.999971	1	0.896402
UrH13	J9G5N2	0.26	0.35	0.16	-0.74	0.12	-0.05	0.14	-0.3	0.42	0	0.05	0.05	0.93	-0.05	-0.36	-0.55	-0.03	0.1225	-0.015	0.916323	0.967829	0.969879	0.999971	1	0.998787
UrH14	Q9JMA1	0.14	0.11	0.5	0.4	-0.11	0.16	0.49	0.6	0.03	-0.05	0.59	0.54	-0.07	0.33	0.69	0.6	-0.0025	-0.01	0.1	0.991222	0.965081	0.669546	0.999971	1	0.938711
UrH15	Q9R5H1	-0.35	0.45	0.51	0.27	0.77	0.43	0.91	0.31	1.02	-0.18	0.82	1.02	1.18	0.44	0.43	0.39	0.385	0.45	0.39	0.169259	0.212848	0.197862	0.999971	1	0.813335
UrH16	Q9Z9M5	0.42	1.08	0.15	0.09	0.67	1.08	0.31	0.28	0.74	0.32	0.42	0.53	1.08	0.3	0.29	0.32	0.15	0.0825	0.195	0.621559	0.752895	0.565363	0.999971	1	0.912745
UrH17	Q9C6M1	-0.22	-0.31	0.14	-0.31	-0.5	-0.14	-0.04	0.83	0.03	0.01	0.37	-0.13	-0.09	-0.21	0.72	0.17	0.2125	0.245	0.3225	0.495647	0.24638	0.321214	0.999971	1	0.831121
UrH18	Q9U002	-2.5	-4.93	1.92	1.76	-4.81	-3.45	1.85	1.71	-4.86	-3.67	1.74	1.54	-8.12	-5.08	1.35	0.77	-0.2375	-0.375	-1.8325	0.911133	0.861093	0.473759	0.999971	1	0.894044
UrH19	E9Y4V5	0.16	0.24	0.42	0.39	0.15	0.27	0.39	0.46	0.15	0.21	0.16	0.2	0.4	0.48	0.68	0.64	0.015	-0.1225	0.2475	0.933214	0.458543	0.184454	0.999971	1	0.809025
UrH20	A0A58MP	-0.48	0.06	0.2	0.12	0.24	0.33	0.09	0.14	-0.03	-0.18	0.16	0.23	0.32	0.15	0.26	0.44	0.225	0.07	0.317	0.305028	0.751378	0.163936	0.999971	1	0.800215
UrH21	Q9JUN4	-0.04	-0.17	-0.33	-0.13	-0.27	-0.37	0.5	0.37	0.36	0.63	-0.51	-1.32	-0.27	0.63	-0.07	-1.14	0.2225	-0.0625	0.07	0.388803	0.883479	0.85282	0.999971	1	0.98187
UrH22	E9Q6Y8	0.21	-0.36	-0.47	-0.59	-0.58	-0.31	-0.05	-0.78	-0.46	-0.16	-0.45	-0.77	-0.46	-0.49	-0.83	-0.4	-0.1275	-0.1575	-0.3775	0.62758	0.524758	0.149925	0.999971	1	0.793248
UrH23	F8VY23	0.09	-0.58	-0.41	-0.39	-0.64	-0.42	0.16	-0.38	-0.39	-0.13	-0.24	-0.37	-0.22	-0.37	-0.34	-0.23	0.0025	0.04	0.0325	0.992027	0.845858	0.877818	0.999971	1	0.984109
UrH24	Q9R5K-2	-0.78	-0.12	-0.7	-1.02	-0.32	-0.24	-1.09	-0.48	-0.33	-0.37	-0.62	-0.78	0.1	0.22	-0.46	-0.67	0.2025	0.13	0.4025	0.550984	0.600705	0.185571	0.999971	1	0.809025
UrH25	F8W187	-0.28	0.72	0.35	0.6	1.04	0.73	0.47	0.51	0.66	0.55	0.92	0.01	0.47	0.1	0.5	0.125	0.1025	0.645019	0.593951	0.647609	0.999971	1	0.929263		
UrH26	MCQWV7	0.56	0.56	0.05	0.44	0.38	0.34	0.69	0.28	0.44	0.18	0.12	0.14	-0.17	0.53	0.04	-0.44	0.02	-0.1825	-0.0125	0.922417	0.367146	0.714317	0.999971	1	0.784967
UrH27	Q9B7W0	-0.51	0.79	1.04	0	0.83	0.63	0.44	0.79	0.74	-0.02	1.1	1.08	0.5	0.51	0.4	0.52	0.3425	0.3995	0.1525	0.33323	0.360975	0.666659	0.999971	1	0.937557
UrH28	Q3T9V0	0.79	0.94	0.85	0.79	0.81	0.38	0.42	0.3	0.64	0.93	0.38	0.63	0.29	0.88	0.46	0.8	-0.365	-0.1975	-0.235	0.072664	0.30195	0.363252	0.999971	1	0.842333
UrH29	P13123	0.52	0.95	0.39	0.3	0.39	0.27	0.1	0.19	1.05	0.89	0.8	0.74	1.2	1.49	0.68	0.36	0.075	0.145	0.4675	0.880495	0.552029	0.773689	0.999971	1	0.912745
UrH30	A6PWR8	1.24	-0.97	-0.51	-0.47	-1.47	-0.52	0.71	-0.7	-0.91	-0.98	-0.26	-0.98	-1.85	-1.37	-1.33	-0.26	-0.3175	-0.115	-1.025	0.603233	0.850459	0.086911	0.999971	1	0.761242
UrH31	Q8R387	4.4	0.24	0.97	1.32	0.28	0.88	1.4	1.08	-0.44	2.66	0.73	0.17	-2.29	-0.47	-0.03	0.21	-0.8225	-0.9525	-2.3775	0.345873	0.363401	0.03381	0.999971	1	0.688903
UrH32	Q62069	-0.92	-0.34	-0.23	-0.37	-0.37	-0.19	-0.5	-0.39	-0.28	-0.92	-0.33	-0.29	-0.19	-0.75	-0.55	0.43	-0.0475	0.01	-0.015	0.832108	0.767038	0.948392	0.999971	1	0.997766
UrH33	A0A115V1	0.94	0.47	1.13	0.89	0.4	0.78	1.1	1.06	0.56	0.37	0.48	0.87	0.1	0.09	0.05	0.05	0.0025	0.02	0.025	0.984098	0.860871	0.999971	1	0.929263	
UrH34	A2ALR9	2.71	1.31	0.65	0.42	0.67	1.16	-0.17	0.94	0.73	1.61	0.76	1.36	1.71	1.16	0.81	0.63	-0.6225	-0.1575	-0.445	0.279485	0.967206	0.376753	0.999971	1	0.870465
UrH35	Q3U4W8	-0.21	-0.38	0.68	0.42	-0.14	-0.3	0.37	0.22	-0.16	-0.32	0.45	0.63	-0.42	0.34	0.61	0.4	-0.09	0.0225	-0.065	0.767089	0.946946	0.854818	0.999971	1	0.882125
UrH36	P15975	2.51	0.17	0.42	0.63	-0.28	-0.02	0.86	-0.26	-0.51	1.54	-0.37	-0.24	-1.31	-1.52	-0.91	-0.39	-0.8575	-0.8275	-1.965	0.144712	0.229056	0.055053	0.999971	1	0.582714
UrH37	Q8BLD6	-0.37	-0.69	-0.94	-1	-0.54	-0.21	-1.1	-0.09	0.3	-0.46	-0.99	-0.64	-0.06	-0.47	-0.69	-0.18	0.37	0.1525	0.43	0.267508	0.525817	0.110008	0.999971	1	0.78268
UrH38	Q9RKC3	-2.78	-1.02	-0.49	-1.32	-2.1	-1.01	-0.79	-0.7	-0.81	-0.77	-0.47	-0.74	-1.2	-0.77	-0.47	-0.48	-0.83095	-0.745514	-0.485	0.834095	0.745514	0.525	0.999971	1	0.912745
UrH39	F8VYX1	0.34	0.55	0.74	0.68	0.64	0.5	0.53	0.62	0.66	0.18	0.54	0.87	0.88	0.37	0.56	0.92	-0.005	-0.015	0.105	0.977494	0.940042	0.619927	0.999971	1	0.929266
UrH40	Q8OU87	2.38	0.54	-0.18	-0.25	0.3	0.89	0.39	-0.39	0.25	1.42	-0.36	-0.5	0.07	0.3	-0.4	-0.58	-0.325	-0.42	-0.775	0.59566	0.244308	0.211874	0.999971	1	0.823112
UrH41	Q4F5E6	-0.1	0.13	0.16	0.05	0.22	0.36	0.19	0.27	0.43	0.12	0.35	0.13	0.66	0.25	0.33	0.3	0.2	0.1975	0.325	0.259969	0.774438	0.105682	0.999971	1	0.78268
UrH42	G1VY52	0.17	0.95	1.38	0.13	0.54	0.37	0.47	0.51	0.57	2.41	0.1	0.26	0.25	-0.07	0.1	0.3875	0.717451	0.521418	0.541508	0.999971	1	0.912745	1	0.912745	
UrH43	Q8U8U6	-0.59	0.92	-3.95	-0.32	1.71	0.08	-8.7	-1.59	0.61	-0.05	-6.29	-9.22	0.61	1.69	-2.69	-0.25	-1								



Wapl	B72947	2.49	2.89	3.16	3.58	2.61	2.71	3.31	3.01	2.85	2.62	3.25	2.77	0.83	2.44	2.68	2.23	-0.12	-0.1575	-0.985	0.68057	0.577179	0.051678	0.999971	1	0.723736	
Wwrs1	P32921-2	-0.32	0.58	-0.03	0.18	0.74	0.71	0.47	0.28	0.38	0.28	0.4	0.49	0.6	0.66	0.17	-0.11	0.4475	0.39	0.2275	0.097617	0.140596	0.424889	0.999971	1	0.880275	
Wwrs2	Q2CYK1	-0.35	0.51	-0.26	0.29	0.39	0.54	0.26	0.34	-0.53	-0.76	0.46	0.15	-0.53	-0.76	0.39	0.23	-0.03	-0.1225	-0.125	0.85979	0.53057	0.51617	0.999971	1	0.905815	
Wwrs4	Q8R5H6	-1.19	-2.56	-1.23	-1.67	-2.49	-2.5	-1.1	-1.63	-2.36	-2.18	-1.02	-1.19	-3.24	-2.68	-1.61	-1.78	-0.2675	-0.025	-0.6548297	0.954689	0.179105	0.999971	1	0.808532		
Wwrs2	Q8BH43	0.88	0.92	0.33	0.45	0.91	0.95	0.02	0.08	0.86	0.54	0.31	0.35	0.77	1.22	0.39	0.79	-0.155	0.1	0.1475	0.611211	0.712621	0.564266	0.999971	1	0.912087	
Wwrs3	A0A5718F1	-0.1	-0.63	-1.75	-0.79	-1.31	-0.81	-0.98	-0.57	-0.94	-0.32	-0.81	-1.52	-1.01	-1.09	-0.57	-0.69	-0.1	-0.08	-0.2275	0.784934	0.843496	0.949915	0.999971	1	0.998038	
Wwrs1	Q8VH6	0.85	1.1	0.68	0.67	0.1	-1.01	-0.84	-0.45	0.63	0.97	-1.57	-0.52	0.85	1.23	-0.95	0.71	0.69	0.4475	-0.3675	-0.61	0.148997	0.247308	0.576263	0.999971	1	0.725348
Wwrs1	Q8VD08	-0.23	-0.02	0.37	0.78	0.32	-0.74	1.26	0.41	0.26	-0.87	0.77	0.39	0.22	-1.35	0.54	0.6	0.0875	-0.0875	-0.2225	0.842162	0.826999	0.642265	0.999971	1	0.931301	
Wwrs2	Q6PGL7	0.79	-0.19	0.22	0.35	-0.23	-0.26	-0.12	0.39	-0.19	0.26	-0.05	0.33	-0.21	-0.27	0.2	0.76	-0.3475	-0.205	-0.1975	0.221443	0.437033	0.545684	0.999971	1	0.911398	
Wwrs3	S4R287	0.27	0.94	0.12	0.75	0.7	0.22	0.07	0.03	0.5	0.48	0.24	0.29	0.99	0.41	0.25	1.05	-0.04	-0.1425	-0.155	0.889653	0.551324	0.598641	0.999971	1	0.922377	
Wwrs4	Q3UM89	0.34	0.34	0.63	0.35	0.4	0.73	0.6	0.73	0.4	0.1	0.88	0.76	0.46	0.1	0.35	0.18	0.195	-0.7851	0.567269	0.314803	0.1	0.999971	1	0.923177		
Wwrs4	Q8CZ7	0.26	0.23	0.22	0.16	0.32	0.1	0	0.07	0.33	0.18	0.2	0.03	0.08	0.33	0.02	0.3	-0.095	-0.0335	-0.14719	0.841384	0.893564	0.999971	1	0.979728		
Wwrs1	Q91YD9	0.38	0.69	0.15	0.42	0.46	0.54	0.32	0.53	0.23	0.42	0.08	0.24	0.1	0.38	0.34	0.34	0.0525	-0.1675	-0.12	0.782186	0.392084	0.539434	0.999971	1	0.910077	
Wwrs1	Q923D5	1.25	1.45	1.5	1.84	1.38	1.36	1.3	1.53	1.48	1.69	1.48	1.37	1.04	1.63	1.45	1.77	-0.1175	-0.0075	-0.0375	0.550503	0.979645	0.873744	0.999971	1	0.984109	
Wwrs2	P91765	-0.46	-0.2	-0.17	-0.19	-0.02	-0.26	-0.03	0.18	-0.47	-0.61	0.38	-0.16	-0.28	-0.03	0.31	0.17	0.2225	0.04	0.2975	0.149773	0.874849	0.16723	0.999971	1	0.8002125	
Wwrs4	Q3U048	4.74	0.46	1.52	1.02	1.43	1.1	1.42	1.58	0.92	1.35	1.59	1.88	0.19	0.29	1.9	0.17	-0.2225	-0.52	-0.97	0.445004	0.599004	0.388246	0.999971	1	0.871846	
Wwrs1	A0A11VJFV	-0.92	-1.42	-1.51	-0.91	-2.49	-1.42	-1.33	-0.42	-2.43	-2.48	-2.05	-1.98	-2.39	0.24	-1.48	-0.75	-0.485	-1.045	0.095	0.256556	0.001751	0.859504	0.999971	0.693667	0.878202	
Wwrs1	E9Q4P1	-1.04	-5.34	-4.49	-3.64	-5.32	-4.64	-2.74	-3.59	5.62	5.15	4.76	4.64	-1.76	-4.71	-4.94	-4.24	-0.445	8.67	-1.635	0.649263	5.90E-06	0.133459	0.999971	0.020694	0.784948	
Wwrs2	Q8BU84	1.16	0.38	0.71	1.18	-0.31	0.26	0.09	-0.53	-0.79	0.65	0.53	-0.18	-0.81	0.14	0.26	0.9	-0.98	-0.805	-0.735	0.000544	0.571065	0.085064	0.999971	1	0.758858	
Wwrs3	Q8VH88	-0.43	-0.09	-0.32	-0.59	-0.63	-0.63	-0.29	-0.57	-0.69	-0.71	-0.58	-0.53	-0.35	-0.64	-0.23	-0.57	-0.0225	-0.12	0.035	0.904002	0.494639	0.509089	0.999971	1	0.98187	
Wwrs1	Q8B342	-1.4	-1.19	-0.3	-0.57	-1.12	-0.9	0.03	-0.24	-1.25	-1.43	-0.2	-0.22	-1.7	-1.17	-0.5	-0.31	0.3075	0.09	-0.055	0.408129	0.822205	0.888924	0.999971	1	0.987646	
Wwrs1	G5E813	0.48	0.49	0.24	0.16	0.6	0.62	0.19	0.37	0.44	0.83	0.03	0.13	0.55	0.66	0.35	0.01	0.1025	0.015	0.05	0.601813	0.948515	0.815671	0.999971	1	0.974918	
Wwrs1	Q91A04	-0.57	0.22	1.76	1.03	-0.04	-0.15	3.45	0.36	-0.42	-0.01	0.65	0.12	-1.02	0.04	0.47	-0.38	0.295	-0.47	-0.8325	0.740457	0.359138	0.154723	0.999971	1	0.795578	
Wwrs1	Q91V09	-0.6	-0.04	-0.25	-0.73	-0.07	-0.11	-0.09	-0.35	0.18	-0.6	0.05	0.09	-0.03	-0.45	-0.38	-0.65	0.235	0.335	0.0425	0.31456	0.219858	0.862087	0.999971	1	0.982963	
Wwrs1	H3R18	0.72	0.32	0.68	0.5	0.05	0.29	-0.35	0.61	-0.09	0.7	-0.22	0.13	0.65	0.75	-0.01	-0.12	-0.405	-0.425	-0.2375	0.131688	0.115512	0.739367	0.999971	1	0.871816	
Wwrs1	Q4V8E8	0.49	1.54	1.69	1.7	1.56	1.75	2.88	1.33	1.94	1.02	1.18	1	2.36	1.68	1.61	1.57	0.525	-0.05	0.45	0.238451	0.8986	0.210791	0.999971	1	0.822884	
Wwrs1	Q3UGF1-3	0.38	0.17	0.5	1.26	0.12	0.23	0.87	0.53	0.1	0.15	-0.11	-0.06	0.11	0.21	0.28	-0.02	-0.14	-0.5575	-0.4325	0.642212	0.061057	0.132632	0.999971	1	0.784948	
Wwrs2	Q3UW65	0.26	0.26	-0.92	-1	-0.23	0.33	-0.7	-1.13	0.21	-0.04	-1.25	-0.9	0.78	-0.03	-1.27	-0.91	-0.0675	-0.18	0.0075	0.877697	0.889117	0.988708	0.999971	1	0.919925	
Wwrs2	Q8C75	0.36	0.55	0.65	1.11	0.38	0.51	0.89	1.89	0.39	0.55	0.55	0.11	0.26	0.84	0.29	0.105	0.25	0.05	0.5	0.782181	0.37978	0.82626	0.999971	1	0.909918	
Wwrs2	A0A11V7N0	0.51	0.27	1.92	2.51	0.03	0.96	3.37	3.33	1.87	3.02	1.8	1.8	-2.38	1.18	1.55	0.9	-1.03	-0.83	-0.24	0.316892	0.265722	0.209981	0.999971	1	0.678474	
Wwrs2	A0A94A88	-0.72	-0.01	-0.84	-0.66	-0.01	0.02	-0.27	-0.61	-0.29	-0.36	-0.36	-0.47	0.01	-0.97	-0.7	0.34	0.1875	0.1775	0.213279	0.417778	0.730233	0.999971	1	0.949575		
Wwrs3	Q8BH84	0.65	0.08	0.74	-0.71	-0.17	0.15	0.84	-0.98	-0.16	0.76	-0.62	-0.76	0.82	0.53	-1.07	-1.01	-0.28	-0.015	-0.0025	0.500035	0.97831	0.996389	0.999971	1	1	
Wwrs1	Q8K490	2.3	1.5	1.3	2.02	1.43	2.1	1.77	1.98	1.52	1.35	1.59	1.88	0.19	0.29	1.9	1.49	1.15	-0.295	0.5	-0.665	0.768358	0.156448	0.999971	1	0.72838	
Wwrs3	Q8BN03	-0.1	0.68	0.2	0.39	0.35	0.44	0.07	0.78	0.29	0.27	0.32	0.52	0.84	0.59	0.62	1.04	0.1175	0.075	0.48	0.638196	0.790679	0.064622	0.999971	1	0.726597	
Wwrs3	Q3TA68	-0.83	-1.16	-1.18	-0.09	-1.37	-1.57	-1.14	-0.96	-1.06	-0.78	-0.43	-0.24	-1.08	-1.08	-0.05	-0.45	-0.445	0.3075	0.15	0.159264	0.413988	0.677345	0.999971	1	0.939884	
Wwrs2	Q8CBE3	0.42	-0.12	-0.02	0.6	0.13	0.14	0.28	-0.49	0.23	-0.26	0.25	-0.08	0.32	-0.42	-0.28	0.96	0.03	0.115	-0.255	0.915669	0.664122	0.645077	0.999971	1	0.887217	
Wwrs4	Q3UD90	-0.05	-0.29	0.22	0.34	-0.03	0.13	-0.44	-0.54	-0.14	0.03	-0.1	-0.46	0.51	-0.1	-0.04	0.125	-0.125	-0.04	0.4225	0.044024	0.937128	0.943465	0.999971	1	0.701725	
Wwrs3	Q8QZ14	-0.96	0.01	-1.04	-0.75	-0.23	-0.34	-1.54	-1.11	-0.34	-0.36	-0.52	-0.68	0.31	-0.46	-0.5	-0.31	-0.12	-0.39	0.445	0.753068	0.25739	0.176276	0.999971	1	0.808532	
Wwrs4	Q8NV88	-0.1	-0.05	0.03	-0.3	0.14	0.04	0.07	-0.15	-0.08	-0.19	-0.07	-0.01	0.58	0.12	0.09	-0.12	0.13	0.0175	0.2725	0.469508	0.916987	0.222308	0.999971	1	0.827753	
Wwrs4	Q91V43	-1.02	0.23	0.75	-0.54	0.59	0.69	0.26	0.28	0.58	-0.7	0.89	0.77	0.1	0.14	0.19	0.74	-0.03	0.6	0.53	0.655	0.151876	0.306905	0.168226	0.999971	1	0.800215
Wwrs4b	Q92K39	-2.98	-0.48	-0.62	-1.93	-0.43	-1.17	-0.61	-1.2	-0.98	-1.86	-0.55	-0.42	-0.66	-1.39	-0.77	-1.81	0.6425	0.0425	0.3375	0.767291	0.900061	0.57283	0.999971	1	0.91816	
Wwrs4	Q92DH1	-2.1	-1.15	-1.06	-0.65	-1.04	-0.67	-0.83	-0.1	-0.78	-0.57	-0.04	-0.88	-0.47	-0.29	0.13	0.04	0.88	-0.84	-0.87	0.249391	0.91479	0.291069	0.999971	1	0.909918	
Wwrs4	Q8CGF6	-1.14	-0.65	-0.88	-1.32	-0.51	-0.74	-0.2	-1.19	-0.24	-0.87	-0.64	-0.59	-0.16	-0.84	-1.2	-1.49	0.3375	0.4125	0.075	0.236907	0.101622	0.817098	0.999971	1	0.974929	
Wwrs4	Q8BH57	-0.47	-0.7	-0.67	-0.77	-0.7	-0.45	-0.44	-0.7	-0.53	-0.29	-0.69	-0.65	-0.54	-0.64	-0.72	-0.46	0.08	0.1125	-0.0625	0.655991	0.931558	0.72118	0.999971	1	0.954937	
Wwrs5	P61965	1.57	1.27	1.68	1.58	1.16	1.32	1.11	1.5	0.93	1.25	1.17	1.19	0.66	0.9	1.53	1.76	-0.2525	-0.39	-0.3125	0.208917	0.570302	0.939164	0.999971	1	0.847402	
Wwrs4	Q9R0D8	-0.45	-0.11	-0.02	-0.3	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	0.09	0.931844	0.590278	0.76226	0.999971	1	0.956041	
Wwrs4	A0A1D5RU	0.8	1.38	1.43	1.09	0.74	1.08	1.05	1.08	0.96	1.15	1.14	0														

Zc3h3	Q8CHP0	2.37	1.49	0.8	1.78	1.03	0.97	0.36	0.97	1.48	1.92	0.82	0.19	1.24	1.19	0.12	1.96	-0.7775	-0.5075	-0.4825	0.052758	0.29611	0.317806	0.999971	1	0.853893	
Zc3h4	F9QBK8	2.82	1.56	1.28	1.64	1.87	1.49	1.5	1.52	1.47	1.92	1.29	1.45	1.05	1.25	1.43	1.33	-0.23	-0.2925	-0.56	0.513004	0.423795	0.132234	0.999971	1	0.784948	
Zc3h6	A2AP88	0.65	-0.53	-0.78	-0.48	-0.44	-0.58	0.1	-0.01	0.8	0.73	1.02	1.1	0.42	-0.4	0.29	-0.31	-0.0475	1.1975	0.285	0.902145	0.005468	0.448893	0.999971	1	0.883551	
Zc3h7b	F8VP8R	0.02	1.13	0.79	0.36	1.09	1.03	1.34	0.51	1.26	0.28	1.32	1.22	0.92	0.92	0.82	0.38	0.4175	-0.445	0.185	0.19517	0.216355	0.526011	0.999971	1	0.909459	
Zc3h1c	H3BKM2	0.52	1.38	0.59	0.66	1.52	0.91	-0.06	0.11	1.4	0.39	-0.08	0.29	0.1	0.83	0.69	0.39	-0.1675	-0.2875	-0.285	0.67629	0.439289	0.315957	0.999971	1	0.852397	
Zc3h10	F6QZ81	0.07	0.45	-0.74	-0.12	0.34	-0.95	-1.16	-0.39	0.16	-0.35	-0.33	-1.11	0.81	0.07	-1.06	-0.87	-0.455	-0.3225	-0.1775	0.272214	0.37442	0.705746	0.999971	1	0.950182	
Zc3h17	Q9ESK4-2	1.68	1.63	0.77	1.25	0.77	0.39	-0.7	0	1.41	1.46	0.41	1.52	1.2	2.01	0.64	0.7	-1.2175	-0.1325	-0.195	0.008696	0.694147	0.401078	0.999971	1	0.914246	
Zc3h18	Q8YD24	-1.47	0.88	0.69	0.83	0.24	0.79	1.28	1.48	0.63	-1.08	0.93	0.6	1.02	0.49	1.16	0.83	0.715	0.0375	0.6425	0.237174	0.955008	0.254531	0.999971	1	0.838012	
Zc3h18	Q9CYA6	2.94	2.01	1.17	1.13	3.89	2.6	0.17	0.92	0.87	1.7	0.87	0.48	3.94	2.97	0.75	1.33	0.0825	-0.8325	0.435	0.921921	0.103048	0.5736	0.999971	1	0.918186	
Zor1i	Q9Z786-2	1.95	1.54	1.95	2.54	1.13	2.1	1.85	2.42	1.31	1.86	1.93	1.59	1.25	1.74	2.28	2.27	-0.12	-0.3225	-0.11	0.724528	0.248861	0.734204	0.999971	1	0.957712	
Zdh3h13	Q9CWJ2	1.32	1.6	1.31	0.46	0.74	1.19	0.33	0.97	0.43	1.31	0.98	0.83	1.39	1.46	1.05	1.52	-0.365	-0.3075	0.1825	0.261134	0.335518	0.524477	0.999971	1	0.908589	
Zdh3h14	Q8RQD1	-0.06	-0.95	-0.95	-0.95	-0.13	-0.52	-0.44	-0.12	-0.41	-1.46	-1.33	1.6	1.5	-1.35	-0.81	-1.3675	-0.3975	-1.4875	0.284597	-0.810467	0.810467	0.258667	0.999971	1	0.838012	
Zdh3h17	Q8QTN5	1.38	1.07	1.24	1.28	1.25	1.36	1.59	0.89	1.32	1.5	1.2	1.4	1.92	1.45	1.43	1.54	0.03	0.1125	0.3425	0.886402	0.518879	0.106497	0.999971	1	0.782868	
Zdh3h18	Q5YST2	1.81	-1.19	0.27	1.27	-1.21	0.05	0.27	1.71	-2.05	1.39	-0.54	0.08	-0.26	0.3	0.57	0.51	-0.8075	-0.82	-0.735	0.336234	0.362184	0.39041	0.999971	1	0.871816	
Zdh3h22	P5QZ67	-0.3	-1	-1.68	-1.08	-1.18	-0.66	-1.26	-0.96	-0.66	0.12	-0.82	-0.92	-1.47	-1.07	-1.14	-1.1	7.856-17	-0.45	-1.825	0.237286	0.553425	1	1	0.915395		
Zdh3h22	Q5YST1-2	-0.36	0.34	-0.9	-0.82	-0.65	-0.21	-1.35	1.03	0.07	-0.52	-0.57	-0.64	0.66	-1.14	-0.76	0.145	-0.08	-0.03	0.784669	0.820157	0.947413	0.999971	1	0.907651		
Zdh3h22	A0PK84	-0.67	-0.64	-0.35	-0.85	-0.19	-0.68	0.47	1.17	-0.75	0.08	0.33	0.86	-0.81	-0.09	-0.14	-0.45	0.82	0.745	0.255	0.06484	0.053228	0.290761	0.999971	1	0.847402	
Zdh3h23	A0A571BE	-0.08	-0.84	2.96	3.02	0.66	-1.68	0.45	2.61	-1.36	-0.47	3.43	2.15	0.22	-0.44	2.84	3.65	-0.755	-0.3275	0.3025	0.529783	0.807793	0.810138	0.999971	1	0.973855	
Zdh3h23	Q8YD24	-0.12	-2.11	-1.62	-1.74	-2.04	-1.83	-1.06	-2.51	-1.78	-0.66	-1.4	-1.9	-1.79	-1.94	-2.55	-2.34	-0.4625	-0.0375	-0.7575	0.361704	0.938429	0.161109	0.999971	1	0.782628	
Zdh3h5	Q5CPV7	-0.85	-0.63	0.81	0.97	-0.24	-0.59	-0.05	1.86	-0.47	1.154	2.47	2.42	0.13	0.24	1.24	2.56	0.12	0.595	0.5475	0.852557	0.556824	0.515676	0.999971	1	0.905815	
Zdh3h8	Q5YST5	-1.28	-1.93	-2.17	-1.66	-1.37	-1.92	-1.81	-1.77	-1.69	-0.85	-1.15	-1.74	-1.59	-1.88	-1.88	-1.56	0.0425	-0.405	0.0325	0.866257	0.198178	0.893437	0.999971	1	0.98828	
Zdh3h9	P5QZ68	-0.76	-0.31	0.61	0.34	-0.76	0.13	0.41	0.23	-1.06	-0.09	0.46	0.21	-0.48	0.03	0.61	1.49	-0.0325	-0.09	0.4425	0.933206	0.834891	0.376542	0.999971	1	0.870465	
Zer1i	Q8A318	-0.16	0.69	0.74	1.01	1.02	0.97	0.58	0.67	0.86	0.56	0.56	1.09	0.69	0.81	0.7	0.69	0.24	0.255	0.1525	0.414382	0.421295	0.58074	0.999971	1	0.920178	
Zer2i	A0A093PV	0.73	-0.68	2.47	2.1	-0.48	-0.42	2.13	2.45	-0.93	0.73	2	1.56	-3.12	-0.37	1.97	2.32	-0.235	-0.315	-0.955	0.805859	0.718456	0.465442	0.999971	1	0.891255	
Zer1i	Q8QZ16	-0.37	0.17	1.12	0.58	0.13	0.23	0.88	0.35	0.47	0.01	1.08	-0.6	0.06	-0.15	0.59	0.66	0.0225	-0.1375	0.085	0.948769	0.760555	0.815472	0.999971	1	0.974918	
Zfa	P23607	0.26	-0.42	-0.27	-0.62	-0.89	-0.36	-0.14	0.2	-1.24	-0.61	-0.65	-1.34	-2.55	-0.49	0.13	-0.88	-0.035	-0.6975	-0.685	0.908129	0.03354	0.23763	0.999971	1	0.833594	
Zfand1i	Q88RF6	1.02	-0.23	0.83	-0.34	-0.1	-0.76	0.83	0.54	-0.01	0.45	0.75	-0.03	-1.11	-0.84	0.19	-0.73	-0.1925	-0.03	-0.9425	0.681164	0.937956	0.051809	0.999971	1	0.727336	
Zfand2b	Q91X58	0.43	-0.32	-0.09	-0.21	-0.84	-0.19	-0.3	-0.01	-0.77	0.47	0.05	-0.05	-0.12	0.16	-0.22	-0.07	-0.3125	-0.0275	-0.015	0.778403	0.929442	0.347011	0.999971	1	0.997651	
Zfand6	Q88B78	0.08	0.4	0.66	0.58	0.1	0.17	0.07	0.53	0.38	0.88	0.69	-0.42	0.21	1.05	0.65	1.07	-0.2075	-0.085	0.355	0.399105	0.759665	0.234263	0.999971	1	0.909125	
Zfand6	Q9QJ68	2.51	1.85	0.7	0.92	1.66	1.67	0.59	1.35	1.27	2.27	0.72	-0.08	1.78	1.97	0.22	0.97	-0.1775	-0.45	-0.26	0.700307	0.457417	0.830042	0.999971	1	0.932649	
Zfc3h1	B2RT41	2.43	0.42	-0.23	-0.01	0.74	0.8	-0.43	0.31	0.76	2.3	-0.61	0.8	2.4	1.42	0.08	-0.22	-0.2975	0.16	0.2675	0.628497	0.835515	0.73077	0.999971	1	0.956041	
Zfc3h2	Q8M29	2.15	1.54	1.52	1.17	0.99	0.87	1.69	1.23	0.67	1.32	1.83	0.65	-0.31	0.99	2.12	1.91	-0.425	-0.7275	-0.6675	0.237483	0.054801	0.134778	0.999971	1	0.832918	
Zfc3h3	Q4V488	1.24	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.975	0.638915	0.20945	0.557745	0.999971	1	0.930568	
Zfp280d	V9GW11	2.54	1.18	0.06	0.73	1.45	0.39	-0.24	1	1.9	-0.17	0.25	1.23	-2.73	0.35	-0.07	1.4	-0.4775	-0.325	-1.39	0.423493	0.615678	0.155292	0.999971	1	0.795578	
Zfp324	Q78F42	6.18	1.6	0.75	-0.6	-0.42	4.19	1.5	0.5	0.17	7.39	0.82	-0.82	-1.14	4.98	0.67	0.79	-0.54	-0.0925	-0.6575	0.732083	0.965095	0.706112	0.999971	1	0.950182	
Zfp326	A0A0K049	-0.75	0.27	0.41	0.77	0.07	0.21	0.45	0.79	0.06	-0.12	0.54	0.39	-0.14	0.15	0.6	0.63	0.205	0.4025	0.135	0.566709	0.903964	0.713021	0.999971	1	0.951793	
Zfp346	E9PNY2	-0.15	-0.27	-0.18	0.58	-0.74	-0.85	0.4	1.44	0	-0.03	0.34	0.65	-0.24	-0.59	-0.1	1.29	0.0675	0.245	0.095	0.898404	0.377717	0.826336	0.999971	1	0.974804	
Zfp362	E9QJ68	1.9	-1.17	1.99	0.59	-0.89	-1.03	2.44	1	-1.69	0.59	-0.27	3.17	-1.83	-1.21	1.41	0.25	-0.4475	-0.3075	-1.1725	0.653061	0.794369	0.228498	0.999971	1	0.828687	
Zfp3602	P23949	1.55	0.96	0	0.4	0.95	0.33	0.44	0.86	0.23	1.81	0.03	-1.15	-1.52	0.86	-0.38	0.33	-0.0825	-0.4975	-0.905	0.819513	0.44266	0.13609	0.999971	1	0.784948	
Zfp37	A0A1Y7JF	-0.13	-0.19	1.12	1.53	-0.67	-0.74	1.21	1.59	-0.36	-0.35	1.62	0.18	-1.34	-0.2	0.76	0.46	-0.235	-0.31	-0.6625	0.730779	0.600708	0.751217	0.999971	1	0.843794	
Zfp385a	A0A2R8VH	-0.18	0.72	0.96	0.4	0.74	0.77	1.07	1.33	1.02	0.23	0.84	1.42	1.78	0.49	1.22	0.7	0.5025	0.4025	0.5725	0.114276	0.29205	0.147411	0.999971	1	0.793248	
Zfp385b	G5ERY4	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.1	0.23	0.999971	1	0.793248
Zf42H8	H3BL05	1.38	2.57	1.44	1.77	2.72	1.98	2.02	1.27	2.57	1.58	0.8	-0.8	3.56	2.45	0.28	0.43	0.2075	-0.7525	-0.11	0.595331	0.26215	0.885062	0.999971	1	0.987111	
Zf512b	Q6PHP4	1.29	-0.83	-1.93	-0.23	-0.01	-0.03	-1.26	-2.39	0.5	0.23	-2.08	-1.3	-1.28	-0.18	-2.68	-1.24	-0.4975	-0.4875	-0.92	0.534213	0.525463	0.247118	0.999971	1	0.839012	
Zf5p32	S4R29	-0.39	-0.63	-0.46	-0.17	-0.17	-0.56	-0.25	-0.26	-0.38	-1.18	-0.22	0.04	0.13	-0.54	-0.46	-0.45	0.1025	-0.275	0.0825	0.597931	0.251437	0.713715	0.999971	1	0.952107	
Zf5p38	A0A2K4V6	0.97	0.51	0.36	0.69	0.56	0.73	0.46	0.36	0.34	0.64	0.32	0.2	0.25	0.66	0.46	0.87	-0.105	-0.2575	-0.0725	0.613382	0.137736	0.750739	0.999971	1	0.961064	
Zfp651	A0A1157H	-1.32	1.22	2.68	2.71	0.99	-0.55	2.92	2.83	-0.2	-0.52</																

GSEA cortex

\* GSEA mouse MSigDB canonical pathways: m2.cp.v2023.1.Mm.symbols

\*significant pathways (FDR<0.25) are marked in yellow

CX MNK1KO / WT				CX MNK2KO / WT				CX MNKDKO / WT			
canonical pathway	NES	NOM p-val	FDR q-val	canonical pathway	NES	NOM p-val	FDR q-val	canonical pathway	NES	NOM p-val	FDR q-val
REACTOME_FORMATIO	2.03725	0	0.01586	REACTOME_FORMATIO_	1.565585	0.015556	0.36954	REACTOME_FORMATIO_	2.030022	0	0.079391
REACTOME_ACTIVATIO	1.880446	0.001102	0.052729	REACTOME_ACTIVATIO_	1.362647	0.097606	0.686704	REACTOME_ACTIVATIO_	2.046375	4.06E-04	0.129565
REACTOME_TRANSLAT	1.690334	3.36E-04	0.186555	REACTOME_TRANSLATION	1.399665	0.023346	0.616157	REACTOME_TRANSLATION	1.846749	0	0.172686
REACTOME_NONSENSE	2.000028	0	0.024238	REACTOME_NONSENSE_M	1.523747	0.0272	0.445504	REACTOME_NONSENSE_M	1.864469	4.71E-04	0.177585
REACTOME_RHO_GTPA	-1.94442	1.04E-03	0.370116	REACTOME_RHO_GTPASE	-1.87132	7.71E-04	0.138072	REACTOME_RHO_GTPASE	-1.77925	0.002181	0.178952
WP_CYTOPLASMIC_RIB	1.987372	1.81E-04	0.024618	WP_CYTOPLASMIC_RIBOS	1.478443	0.033279	0.505782	WP_CYTOPLASMIC_RIBOS	1.885397	4.49E-04	0.183386
REACTOME_EUKARYOTI	1.961733	0	0.027057	REACTOME_EUKARYOTIC_	1.586985	0.008583	0.363702	REACTOME_EUKARYOTIC_	1.901042	0	0.211881
REACTOME_EPIGENETIC	-1.57303	0.027465	0.437501	REACTOME_EPIGENETIC_R	-1.10368	0.326811	0.868273	REACTOME_EPIGENETIC_	-1.77959	0.003359	0.237636
REACTOME_PLATELET_A	1.275385	0.15758	0.793899	REACTOME_PLATELET_AG	0.937522	0.529756	0.967624	REACTOME_PLATELET_AG	-1.73431	0.004446	0.258368
WP_TGFBETA_SIGNALIN	-1.63026	2.95E-02	0.426965	WP_TGFBETA_SIGNALING_	-1.08004	0.363324	0.883869	WP_TGFBETA_SIGNALING_	-1.80179	0.001233	0.259602
REACTOME_RUNX1_REC	-1.84279	0.004265	0.503295	REACTOME_RUNX1_REGU	-1.53353	0.043108	0.583698	REACTOME_RUNX1_REGL	-1.70599	0.008219	0.260255
REACTOME_NONHOMO	-1.79293	7.13E-03	0.515077	REACTOME_NONHOMOLO	-1.92679	5.79E-04	0.123981	REACTOME_NONHOMOLO	-1.71584	0.00605	0.270545
REACTOME_CITRIC_ACID	1.621875	0.031439	0.254331	REACTOME_CITRIC_ACID_	1.50609	0.069173	0.467476	REACTOME_CITRIC_ACID_	1.764501	0.009613	0.296197
BIOCARTA_VDR_PATHW	-1.70266	2.00E-02	0.515924	BIOCARTA_VDR_PATHWAY	-1.37036	0.115415	0.680381	BIOCARTA_VDR_PATHWA	-1.8209	0.002799	0.390858
REACTOME_FOXO_MED	-0.91109	0.569936	0.952196	REACTOME_FOXO_MEDIA	-1.00846	0.45377	0.991491	REACTOME_FOXO_MEDIA	-1.63594	0.018824	0.396437
REACTOME_NONSENSE	1.97281	0	0.026241	REACTOME_NONSENSE_M	1.46745	0.028805	0.502116	REACTOME_NONSENSE_M	1.689707	0.001654	0.407544
REACTOME_COPI_INDEP	1.311902	0.11237	0.713792	REACTOME_COPI_INDEPE	1.303251	0.136225	0.727944	REACTOME_COPI_INDEPE	1.706066	0.007602	0.407662
REACTOME_CHOLESTER	1.50879	0.048542	0.407597	REACTOME_CHOLESTEROL	1.251743	0.196001	0.773661	REACTOME_CHOLESTERO	1.673218	0.020371	0.411628
REACTOME_BUTYRATE	0.872135	0.621181	0.980687	REACTOME_BUTYRATE_RE	0.88707	0.593875	1	REACTOME_BUTYRATE_RI	-1.62258	0.016069	0.412676
REACTOME_DNA_REPAI	-1.47702	0.01572	0.508199	REACTOME_DNA_REPAIR	-1.60532	0.002017	0.705637	REACTOME_DNA_REPAIR	-1.64127	8.30E-04	0.416997
REACTOME_DNA_DOU	-1.63895	0.011537	0.536297	REACTOME_DNA_DOUBLE	-1.76441	0.00236	0.26655	REACTOME_DNA_DOUBLI	-1.64146	0.006481	0.468216
REACTOME_POSITIVE_E	-1.02317	0.407847	0.869478	REACTOME_POSITIVE_EPI	-0.57526	0.955637	1	REACTOME_POSITIVE_EPI	-1.58139	0.027231	0.482048
REACTOME_MET_PROM	1.459251	0.071429	0.474245	REACTOME_MET_PROMO	2.07757	4.15E-04	0.006248	REACTOME_MET_PROMC	-1.54082	0.035364	0.485495
WP_CHOLESTEROL_MET	1.731039	0.005724	0.144572	WP_CHOLESTEROL_META	1.409934	0.082571	0.59684	WP_CHOLESTEROL_META	1.622111	0.015816	0.487879
REACTOME_SIGNALING	0.868639	0.637072	0.982782	REACTOME_SIGNALING_I	0.998429	0.437461	0.920315	REACTOME_SIGNALING_	1.633789	0.021477	0.492286
REACTOME_KSRP_KHSR	-0.88869	0.60818	0.929108	REACTOME_KSRP_KHSRP	0.883498	0.601854	1	REACTOME_KSRP_KHSRP	-1.57158	0.027484	0.493332
REACTOME_COLLAGEN	1.709907	0.01152	0.165944	REACTOME_COLLAGEN_BI	2.154113	2.10E-04	0.002751	REACTOME_COLLAGEN_B	-1.55005	0.032072	0.497267
REACTOME_NUCLEOTID	-1.15091	0.22147	0.767604	REACTOME_NUCLEOTIDE	-1.34508	0.078034	0.713106	REACTOME_NUCLEOTIDE	-1.54232	0.01448	0.504351
WP_MECHANISMS_ASSO	-1.42625	0.012566	0.585766	WP_MECHANISMS_ASSOC	-1.28279	0.057563	0.7243	WP_MECHANISMS_ASSOC	-1.55438	0.003223	0.50702
WP_GPCRS_OTHER	-1.35764	0.126527	0.649127	WP_GPCRS_OTHER	-1.41954	0.08862	0.563831	WP_GPCRS_OTHER	-1.58178	0.027839	0.517283
REACTOME_TRISTETRAP	0.827057	0.693612	1	REACTOME_TRISTETRAPR	0.908755	0.565024	0.98057	REACTOME_TRISTETRAPR	-1.55762	0.03256	0.523402
WP_GPCRS_NONODORA	-1.32923	0.086947	0.680599	WP_GPCRS_NONODORAN	-1.29277	0.106651	0.71209	WP_GPCRS_NONODORAN	-1.49242	0.027156	0.53502
REACTOME_ESTROGEN	0.991009	0.46256	0.95541	REACTOME_ESTROGEN_D	-0.91632	0.587396	1	REACTOME_ESTROGEN_D	-1.51613	0.033867	0.542885
REACTOME_MRNA_SPLI	-1.50808	0.003683	0.501424	REACTOME_MRNA_SPLICI	-1.20087	0.108152	0.776795	REACTOME_MRNA_SPLICI	-1.49472	0.004442	0.545504
WP_DELTANOTCH_SIGN	0.881389	0.641398	0.974014	WP_DELTANOTCH_SIGNAL	-0.92165	0.584454	1	WP_DELTANOTCH_SIGNA	-1.50404	0.027744	0.548667
REACTOME_ERK_MAPK	1.473833	0.067224	0.442872	REACTOME_ERK_MAPK_T	0.756483	0.7565931	1	REACTOME_ERK_MAPK_T	1.591535	0.034347	0.549716
REACTOME_FORMATIO	-0.81597	0.748063	0.970468	REACTOME_FORMATION_	-1.26436	0.148386	0.73318	REACTOME_FORMATION_	-1.48417	0.041092	0.55026
REACTOME_PROCESSIN	-1.55307	0	0.467231	REACTOME_PROCESSING_	-1.34767	0.01823	0.71995	REACTOME_PROCESSING_	-1.50788	0.001942	0.5555
REACTOME_RUNX1_INT	-1.16177	0.25798	0.741172	REACTOME_RUNX1_INTER	-1.51454	0.04136	0.592172	REACTOME_RUNX1_INTEI	-1.51889	0.043175	0.555726
WP_DYSREGULATED_MI	1.360839	0.117366	0.670638	WP_DYSREGULATED_MIR	1.590958	0.04497	0.365659	WP_DYSREGULATED_MIR	-1.58242	0.028751	0.557149
REACTOME_DUAL_INCIS	-1.19574	0.20943	0.742141	REACTOME_DUAL_INCISIO	-1.46153	0.046693	0.521242	REACTOME_DUAL_INCISIO	-1.49639	0.040799	0.560205
REACTOME_HSF1_DEPE	1.022819	0.419508	0.959538	REACTOME_HSF1_DEPENC	-1.3424	0.12234	0.707231	REACTOME_HSF1_DEPENI	-1.47508	0.053519	0.569726
REACTOME_COLLAGEN	1.685491	0.01648	0.185732	REACTOME_COLLAGEN_FC	2.147013	4.13E-04	0.002843	REACTOME_COLLAGEN_F	-1.46736	0.05544	0.583978
REACTOME_COLLAGEN	1.757987	0.008895	0.118669	REACTOME_COLLAGEN_DF	2.10213	4.22E-04	0.004724	REACTOME_COLLAGEN_D	-1.45781	0.065939	0.606696
REACTOME_CHROMATIN	-1.14453	0.214732	0.770889	REACTOME_CHROMATIN_	-1.1612	0.20525	0.819015	REACTOME_CHROMATIN_	-1.40092	0.041568	0.623161
REACTOME_HDAC5_DEA	-1.3618	0.120905	0.651951	REACTOME_HDAC5_DEAC	-0.77756	0.770366	1	REACTOME_HDAC5_DEAC	-1.40301	0.093451	0.628602
REACTOME_MRNA_DEC	0.84861	0.66673	1	REACTOME_MRNA_DECAY	-0.93356	0.554119	1	REACTOME_MRNA_DECA	-1.40599	0.092703	0.630392
REACTOME_ASSEMBLY	1.91743	0.00189	0.037501	REACTOME_ASSEMBLY_OF	2.23117	0	0.001058	REACTOME_ASSEMBLY_O	-1.37079	0.112001	0.631327
REACTOME_SUMOYLATI	-1.06995	0.352866	0.809408	REACTOME_SUMOYLATIOI	-1.14634	0.274707	0.812621	REACTOME_SUMOYLATIO	-1.41625	0.08193	0.63219
REACTOME_TRANSPORT	-0.91188	0.620903	0.955492	REACTOME_TRANSPORT_C	-0.93029	0.579411	1	REACTOME_TRANSPORT	-1.38488	0.050963	0.63577
REACTOME_REGULATIO	-0.9078	0.583388	0.945102	REACTOME_REGULATION_	0.724047	0.834716	1	REACTOME_REGULATION_	-1.40798	0.081247	0.636926
REACTOME_G2_M_DNA	-1.70844	0.014166	0.594058	REACTOME_G2_M_DNA_C	-1.50397	0.047537	0.517898	REACTOME_G2_M_DNA_	-1.37187	0.10079	0.638862
REACTOME_GPMI_MEDI	0.805593	0.735919	0.997564	REACTOME_GPMI_MEDIAT	0.921974	0.547474	0.981586	REACTOME_GPMI_MEDIA	-1.41058	0.077687	0.641129
REACTOME_SIGNALING	-0.6624	0.896649	1	REACTOME_SIGNALING_B	-1.02468	0.428625	0.9559	REACTOME_SIGNALING_B	-1.38027	0.106582	0.641788
REACTOME_CELLULAR_I	-0.73357	0.9317	1	REACTOME_CELLULAR_RE	-0.90958	0.627531	1	REACTOME_CELLULAR_RE	-1.39276	0.046365	0.643235
REACTOME_PROCESSIN	-1.53492	0.044563	0.46941	REACTOME_PROCESSING_	-1.44126	0.066101	0.537634	REACTOME_PROCESSING_	-1.37674	0.097598	0.643604
WP_NEURAL_CREST_DIF	-1.00441	0.43353	0.889533	WP_NEURAL_CREST_DIFFE	-1.19882	0.212139	0.765273	WP_NEURAL_CREST_DIFF	-1.38902	0.083849	0.645231
BIOCARTA_HER2_PATHW	-0.83769	0.671119	0.965593	BIOCARTA_HER2_PATHWA	0.397209	0.997703	1	BIOCARTA_HER2_PATHW	-1.38547	0.103781	0.646556
REACTOME_DEGRADATIO	1.789369	0.005235	0.09825	REACTOME_DEGRADATIOI	2.276743	0	9.25E-04	REACTOME_DEGRADATIO	-1.4164	0.066038	0.647726
REACTOME_INTEGRIN_S	1.063829	0.37085	1	REACTOME_INTEGRIN_SIG	-0.8354	0.703838	1	REACTOME_INTEGRIN_SIK	-1.37251	0.101376	0.648496
REACTOME_RAC3_GTPA	-0.65324	0.981053	1	REACTOME_RAC3_GTPASE	1.355795	0.081419	0.697161	REACTOME_RAC3_GTPAS	-1.43423	0.036544	0.656252
REACTOME_INTEGRIN_C	2.097309	0	0.027884	REACTOME_INTEGRIN_CEL	2.202235	0	0.001243	REACTOME_INTEGRIN_CE	-1.42902	0.061339	0.661248
REACTOME_TRANSCRIP	-1.01797	0.410766	0.872711	REACTOME_TRANSCRIPTIC	-1.2564	0.141655	0.73976	REACTOME_TRANSCRIPTII	-1.4166	0.059233	0.663905
REACTOME_IMMUNORE	0.914162	0.577978	0.955271	REACTOME_IMMUNOREGI	1.090197	0.337202	0.882776	REACTOME_IMMUNOREG	-1.43669	0.067832	0.664515
WP_FIBRIN_COMPLEME	0.656221	0.91597	1	WP_FIBRIN_COMPLEMENT	-1.16453	0.260836	0.816041	WP_FIBRIN_COMPLEMEN	-1.35891	0.105576	0.668288
REACTOME_CYTOPROTE	0.789522	0.797688	1	REACTOME_CYTOPROTECT	-1.64372	0.009971	0.707988	REACTOME_CYTOPROTECL	-1.42334	0.058189	0.668737
REACTOME_DNA_DOU	-1.13748	0.728019	0.776857	REACTOME_DNA_DOUBLE	-1.39246	0.088717	0.629122	REACTOME_DNA_DOUBLI	-1.41882	0.067126	0.671393
REACTOME_NON_INTEG	1.521135	0.049736	0.406799	REACTOME_NON_INTEGR	2.091786	2.09E-04	0.005304	REACTOME_NON_INTEGR	-1.43936	0.076436	0.67216
REACTOME_SUMOYLATI	-1.14318	0.248342	0.766645	REACTOME_SUMOYLATIOI	-1.29671	0.126174	0.709965	REACTOME_SUMOYLATIO	-1.35369	0.094802	0.677885
WP_GLUTATHIONE_AND	-1.39022	0.094759	0.627407	WP_GLUTATHIONE_AND_C	-0.92803	0.567537	1	WP_GLUTATHIONE_AND_	-1.33525	0.123926	0.70788
REACTOME_ACTIVATIO	-1.63329	0.02384	0.456218	REACTOME_ACTIVATION_	-1.57171	0.027692	0.724862	REACTOME_ACTIVATION_	-1.32953	0.128767	0.708635
WP_NOTCH_SIGNALING	0.758008	0.792992	1	WP_NOTCH_SIGNALING_P	-1.28976	0.162662	0.710657	WP_NOTCH_SIGNALING_I	-1.33717	0.132438	0.711553
REACTOME_REGULATIO	-1.25538	0.152962	0.720221	REACTOME_REGULATION_	-1.35452	0.093629	0.709418	REACTOME_REGULATION_	-1.33045	0.111266	0.716352
REACTOME_CYTOSOLIC	-1.61402	0.030647	0.439745	REACTOME_CYTOSOLIC_SF	-1.09834	0.342569	0.864042	REACTOME_CYTOSOLIC_S	-1.32483	0.142045	0.71712
REACTOME_HOMOLOGO	-1.59146	0.027051	0.441366	REACTOME_HOMOLOGY_I	-1.33087	0.114916	0.705276	REACTOME_HOMOLOGY_	-1.33774	0.117698	0.721447
REACTOME_CARGO_COI	1.147502	0.278679	0.97	REACTOME_CARGO_CONC	-1.22357	0.205633	0.752917	REACTOME_CARGO_CONI	1.51241	0.040854	0.727361
REACTOME_RAC1_GTPA	-0.89754	0.701461	0.926149	REACTOME_RAC1_GTPASE	0.87673	0.70664	1	REACTOME_RAC1_GTPAS	-1.33875	0.05509	0.729685
REACTOME_SYNTHESIS	0.974385	0.489646	0.951464	REACTOME_SYNTHESIS_OF	0.974145	0.47902	0.936369	REACTOME_SYNTHESIS_O	1.403228	0.085017	0.741913
REACTOME_RNA_POLYM	-0.89045	0.6404	0.939647	REACTOME_RNA_POLYME	-1.15277	0.235709	0.814635	REACTOME_RNA_POLYMI	-1.31563	0.0999	

BIOCARTA_ERK_PATHW.	1.271617	0.175845	0.778851	BIOCARTA_ERK_PATHWAY	-0.6939	0.859133	1	BIOCARTA_ERK_PATHWA'	1.415012	0.09235	0.747636
REACTOME_ASPARAGIN	1.517258	0.003172	0.406266	REACTOME_ASPARAGINE_	1.01277	0.412723	0.906119	REACTOME_ASPARAGINE_	1.407596	0.008611	0.75062
REACTOME_INSULIN_RE	1.083618	0.352425	0.996916	REACTOME_INSULIN_RECE	0.594172	0.943273	1	REACTOME_INSULIN_REC	1.516076	0.054685	0.759404
REACTOME_NUCLEAR_E	1.115569	0.317382	0.986856	REACTOME_NUCLEAR_EVE	0.668393	0.882097	1	REACTOME_NUCLEAR_EV	1.416776	0.082735	0.768872
REACTOME_PEPTIDE_LI	1.391596	0.074054	0.641587	REACTOME_PEPTIDE_LIGA	1.290004	1.040494	0.731727	REACTOME_PEPTIDE_LIG	1.389854	0.064018	0.769489
REACTOME_METABOLIS	-1.22635	0.190538	0.747138	REACTOME_METABOLISM	-1.36744	0.10506	0.67435	REACTOME_METABOLISM	-1.30721	0.150534	0.769869
REACTOME_NOREPINEP	0.647122	0.903318	1	REACTOME_NOREPINEPH	0.941905	0.512858	0.963619	REACTOME_NOREPINEPH	-1.30416	0.163421	0.771476
WP_FATTY_ACID_BIOSY	-1.07845	0.346969	0.796465	WP_FATTY_ACID_BIOSYN	-0.92392	0.568898	1	WP_FATTY_ACID_BIOSYN	-1.30103	0.16016	0.773203
REACTOME_DNA_REPLIC	1.009345	0.433448	0.965452	REACTOME_DNA_REPLICA'	1.20259	0.191596	0.832159	REACTOME_DNA_REPLICA'	1.421159	0.038623	0.781075
REACTOME_DEADENYLA	-1.11759	0.272748	0.808533	REACTOME_DEADENYLATI	-0.88478	0.659671	1	REACTOME_DEADENYLAT	-1.28211	0.130272	0.787927
REACTOME_MITOCHON	0.834356	0.778549	0.998819	REACTOME_MITOCHONDR	0.807184	0.803061	1	REACTOME_MITOCHOND	1.425913	0.02531	0.793241
REACTOME_ASSEMBLY_	0.992597	0.462943	0.954775	REACTOME_ASSEMBLY_OF	1.161884	0.23762	0.873511	REACTOME_ASSEMBLY_O	1.377511	0.04957	0.794255
REACTOME_PHASE_II_C	1.637782	0.011113	0.24161	REACTOME_PHASE_II_CON	0.976545	0.465988	0.943385	REACTOME_PHASE_II_CO	1.520062	0.018541	0.795124
REACTOME_DDX58_IFIH	-0.9463	0.522426	0.910915	REACTOME_DDX58_IFIH1	-0.88627	0.613444	1	REACTOME_DDX58_IFIH1	-1.29056	0.160396	0.79559
REACTOME_ER_TO_GOL	1.405176	0.024483	0.604608	REACTOME_ER_TO_GOLG	1.078497	0.305479	0.878339	REACTOME_ER_TO_GOLG	1.432887	0.006748	0.797418
REACTOME_INWARDLYP	-1.68494	0.017712	0.502986	REACTOME_INWARDLY_RE	-1.53444	0.034695	0.621212	REACTOME_INWARDLY_R	-1.28231	0.167193	0.797962
REACTOME_CD209_DC	-0.78318	0.748886	0.987325	REACTOME_CD209_DC_Si	0.54207	0.963991	1	REACTOME_CD209_DC_Si	-1.28414	0.172304	0.801016
BIOCARTA_TNFR1_PATH	-1.24197	0.193281	0.741264	BIOCARTA_TNFR1_PATHW	0.70218	0.837832	1	BIOCARTA_TNFR1_PATHW	-1.25428	0.198669	0.803626
REACTOME_REGULATIO	-1.06988	0.319917	0.802622	REACTOME_REGULATION	-1.1209	0.257453	0.838305	REACTOME_REGULATION	-1.29138	0.103266	0.803738
REACTOME_GOLGI_ASS	0.810823	0.778224	1	REACTOME_GOLGI_ASSOC	0.682339	0.923544	1	REACTOME_GOLGI ASSOI	-1.24489	0.171251	0.804692
REACTOME_TRANSPORT	-1.59487	0.025751	0.462409	REACTOME_TRANSPORT_C	-1.48558	0.039167	0.538562	REACTOME_TRANSPORT_	-1.28539	0.147974	0.806838
REACTOME_DEACTIVATI	-0.86323	0.644383	0.95896	REACTOME_DEACTIVATIO	-1.38739	0.099104	0.631184	REACTOME_DEACTIVATIO	-1.25576	0.195372	0.807293
REACTOME_TRANSCRIPTI	-1.149	0.208411	0.765125	REACTOME_TRANSCRIPTIC	-1.22678	0.133936	0.761698	REACTOME_TRANSCRIPTI	-1.24578	0.136464	0.810479
REACTOME_INTRINSIC_I	0.828887	0.721933	1	REACTOME_INTRINSIC_PA'	0.745588	0.82678	1	REACTOME_INTRINSIC_PA'	1.463957	0.057479	0.810967
REACTOME_DRUG_ADV	0.919905	0.578529	0.949912	REACTOME_DRUG_ADME	-0.95485	0.532422	1	REACTOME_DRUG_ADME	-1.23658	0.181793	0.811462
BIOCARTA_P38MAPK_P	-0.95224	0.510117	0.910216	BIOCARTA_P38MAPK_PAT	-1.07996	0.356114	0.876832	BIOCARTA_P38MAPK_PAT	-1.25933	0.190674	0.812173
WP_MICROGLIA_PATHO	-1.52935	0.042051	0.46239	WP_MICROGLIA_PATHOG	-0.85156	0.676973	1	WP_MICROGLIA_PATHOG	-1.24958	0.187708	0.813786
REACTOME_FLT3_SIGNA	0.726555	0.821632	1	REACTOME_FLT3_SIGNALI	-1.13441	0.307105	0.814526	REACTOME_FLT3_SIGNAL	-1.26123	0.19863	0.814428
REACTOME_ECM_PROTI	1.936779	0	0.032647	REACTOME_ECM_PROTEO	2.164128	2.06E-04	0.002557	REACTOME_ECM_PROTEC	-1.25612	0.181316	0.815648
REACTOME_NCAM_SIGN	1.55138	0.033854	0.360326	REACTOME_NCAM_SIGNA	2.110592	0	0.004494	REACTOME_NCAM_SIGNA'	-1.23107	0.123746	0.816219
REACTOME_SUMOYLATI	-1.2825	0.134531	0.720701	REACTOME_SUMOYLATIO	-1.31441	0.117693	0.669963	REACTOME_SUMOYLATIO	-1.23974	0.185299	0.816787
WP_OXIDATIVE_STRESS	-1.26792	0.129069	0.716126	WP_OXIDATIVE_STRESS_A	-1.5583	0.011776	0.724388	WP_OXIDATIVE_STRESS_#	-1.24636	0.153786	0.817591
REACTOME_GABA_SYNT	0.710563	0.850347	1	REACTOME_GABA_SYNTHI	0.975925	0.2574038	0.935768	REACTOME_GABA_SYNT	-1.22822	0.128415	0.818669
REACTOME_CHROMOSC	-1.36614	0.096019	0.672709	REACTOME_CHROMOSOM	-0.85865	0.681493	1	REACTOME_CHROMOSOM	-1.23693	0.187799	0.819091
REACTOME_SENSORY_P	-1.21915	0.188271	0.73758	REACTOME_SENSORY_PER	-1.05021	0.379777	0.929765	REACTOME_SENSORY_PEI	-1.23212	0.192865	0.820781
WP_KIT_RECEPTOR_S	-1.04389	0.382108	0.843926	WP_KIT_RECEPTOR_SIGNA	-0.81287	0.772445	1	WP_KIT_RECEPTOR_SIGNI	-1.22552	0.189312	0.820981
REACTOME_DOWNREGUL	-0.89868	0.592003	0.933305	REACTOME_DOWNREGUL	-1.09136	0.344886	0.86608	REACTOME_DOWNREGUL	-1.22286	0.225755	0.823146
REACTOME_RAC2_GTPA	-0.85235	0.73049	0.955781	REACTOME_RAC2_GTPASE	1.053212	0.361491	0.8744	REACTOME_RAC2_GTPAS	-1.26155	0.13394	0.823283
REACTOME_BIOLOGICAL	1.878272	3.53E-04	0.049824	REACTOME_BIOLOGICAL_	1.425181	0.046591	0.574811	REACTOME_BIOLOGICAL_	1.480575	0.01248	0.824744
REACTOME_SUMOYLATI	-1.29199	0.140827	0.716772	REACTOME_SUMOYLATIO	-1.0548	0.37433	0.943179	REACTOME_SUMOYLATIO	-1.27019	0.160722	0.828817
WP_P38_MAPK_SIGNAL	-1.11005	0.308212	0.808571	WP_P38_MAPK_SIGNALIN	-1.25452	0.180312	0.713652	WP_P38_MAPK_SIGNALIN	-1.2618	0.180668	0.832842
REACTOME_REGULATIO	-0.93827	0.548181	0.917813	REACTOME_REGULATION	-0.93062	0.57154	1	REACTOME_REGULATION	-1.26673	0.142538	0.832943
REACTOME_CDK_MEDIA	1.078915	0.324505	1	REACTOME_CDK_MEDIATE	1.321109	0.111601	0.701251	REACTOME_CDK_MEDIATE	1.433005	0.038099	0.833313
REACTOME_SEROTONIN	-0.52409	0.981068	1	REACTOME_SEROTONIN_N	0.754813	0.175187	1	REACTOME_SEROTONIN_	-1.26241	0.192367	0.841061
REACTOME_PYRUVATE_	1.275217	0.145354	0.784406	REACTOME_PYRUVATE_M	1.247277	0.178212	0.779364	REACTOME_PYRUVATE_M	1.466622	0.038043	0.843386
BIOCARTA_EIF4_PATHW	1.481367	0.059466	0.431458	BIOCARTA_EIF4_PATHWAY	0.919152	0.541771	0.976762	BIOCARTA_EIF4_PATHWA	1.359173	0.113256	0.845941
REACTOME_HSP90_CHA	1.381645	0.075451	0.653672	REACTOME_HSP90_CHAPE	1.124515	0.284556	0.902886	REACTOME_HSP90_CHAP	1.43818	0.045219	0.848575
REACTOME_PEROXISOM	1.210986	0.185374	0.83392	REACTOME_PEROXISOMAI	0.851977	0.686757	1	REACTOME_PEROXISOMA	1.352408	0.072521	0.849792
REACTOME_JNK_C_JUN	-1.40361	0.104513	0.601736	REACTOME_JNK_C_JUN_K	0.586043	0.932065	1	REACTOME_JNK_C_JUN_K	-1.21415	0.246456	0.850044
REACTOME_APOPTOTIC	-0.79111	0.781142	0.982187	REACTOME_APOPTOTIC_C	-0.5599	0.983229	1	REACTOME_APOPTOTIC_C	-1.20561	0.224182	0.850493
WP_TYROBP_CAUSAL_N	-0.85781	0.661874	0.952443	WP_TYROBP_CAUSAL_NET	-1.05506	0.387934	0.949904	WP_TYROBP_CAUSAL_NE	-1.2031	0.237952	0.852274
REACTOME_TOLL LIKE_I	-1.40406	0.034799	0.619117	REACTOME_TOLL LIKE_RE	-1.26069	0.097085	0.735169	REACTOME_TOLL LIKE_RI	-1.20723	0.168359	0.852314
REACTOME_SIGNALING	-0.99175	0.469556	0.897526	REACTOME_SIGNALING_B'	-0.95766	0.515307	1	REACTOME_SIGNALING_B	-1.21059	0.244186	0.856018
REACTOME_GENERIC_TI	-0.99921	0.447792	0.899729	REACTOME_GENERIC_TRA	-1.25633	0.032339	0.728825	REACTOME_GENERIC_TRA	-1.20772	0.085422	0.859025
REACTOME_SIGNALING_	0.646021	0.95537	1	REACTOME_SIGNALING_B'	-0.57856	0.986021	1	REACTOME_SIGNALING_B	1.343661	0.081955	0.862579
BIOCARTA_FAS_PATHW	-1.28618	0.162271	0.72225	BIOCARTA_FAS_PATHWAY	-0.73003	0.823644	1	BIOCARTA_FAS_PATHWA'	-1.19703	0.249661	0.86871
REACTOME_GENE_EXPR	-1.05731	0.249787	0.808311	REACTOME_GENE_EXPRES	-1.27122	0.013769	0.731218	REACTOME_GENE_EXPRES	-1.18684	0.076735	0.884919
REACTOME_ACTIVATION	1.262149	0.191372	0.795911	REACTOME_ACTIVATION_C	0.713504	0.811388	1	REACTOME_ACTIVATION_	1.332804	0.131042	0.885383
REACTOME_CDC42_GTP	-0.68922	0.963357	1	REACTOME_CDC42_GTPAS	0.637723	0.976687	1	REACTOME_CDC42_GTPA	-1.18879	0.207422	0.885452
REACTOME_EXTRACELLU	2.059572	0	0.018745	REACTOME_EXTRACELLUL	2.519486	0	0	REACTOME_EXTRACELLUL	-1.18448	0.199318	0.88623
REACTOME_GABA_B_RE	-1.43466	0.067491	0.599043	REACTOME_GABA_B_REC'	-1.245	0.167669	0.716698	REACTOME_GABA_B_REC	-1.19038	0.238523	0.887421
REACTOME_TRANSPORT	1.506436	0.080696	0.40382	REACTOME_TRANSPORT_C	1.10052	0.263379	0.887048	REACTOME_TRANSPORT_	1.438551	0.00593	0.889169
REACTOME_PKMTS_ME	-1.34601	0.115622	0.655818	REACTOME_PKMTS METH	-1.51354	0.042132	0.507083	REACTOME_PKMTS METH	-1.17728	0.262019	0.890702
WP_WNT_SIGNALING_P	0.728598	0.914402	1	WP_WNT_SIGNALING_PAT	-1.03921	0.382364	0.940075	WP_WNT_SIGNALING_PA	-1.17972	0.219635	0.8974
REACTOME_GENE_SILEN	-1.24344	0.168265	0.748693	REACTOME_GENE_SILENC	-1.13352	0.276604	0.809825	REACTOME_GENE_SILENC	-1.17762	0.246688	0.897597
REACTOME_SUMOYLATI	-0.94564	0.532431	0.907131	REACTOME_SUMOYLATIO	-0.93817	0.551204	1	REACTOME_SUMOYLATIO	-1.15974	0.265641	0.905516
WP_MRNA_PROCESSING	-0.89881	0.808896	0.938129	WP_MRNA_PROCESSING	-0.9544	0.609602	1	WP_MRNA_PROCESSING	-1.16241	0.140777	0.910591
REACTOME_INOSITOL_P	-0.66741	0.936518	1	REACTOME_INOSITOL_PH	0.76185	0.808162	1	REACTOME_INOSITOL_PH	-1.16006	0.265938	0.912141
REACTOME_ESR_MEDIA	1.135938	0.244628	0.984113	REACTOME_ESR_MEDIATE	-0.91478	0.617541	1	REACTOME_ESR_MEDIATI	-1.16688	0.225293	0.917004
WP_ESTROGEN_SIGNAL	-1.23947	0.152405	0.725682	WP_ESTROGEN_SIGNALIN	-1.15636	0.22592	0.810172	WP_ESTROGEN_SIGNALIN	-1.16249	0.248636	0.91834
REACTOME_RHOB_GTP	0.543792	0.996969	1	REACTOME_RHOB_GTPAS	0.939264	0.538925	0.966957	REACTOME_RHOB_GTPAS	-1.16689	0.244507	0.925294
REACTOME_GPCR_LIGAI	-1.20234	0.143091	0.740656	REACTOME_GPCR_LIGAND	-1.19765	0.15293	0.760276	REACTOME_GPCR_LIGANI	-1.16253	0.222276	0.92639
REACTOME_SUMOYLATI	-1.25586	0.11349	0.731248	REACTOME_SUMOYLATIO	-1.32168	0.064548	0.682553	REACTOME_SUMOYLATIO	-1.1358	0.263623	0.931979
REACTOME_CLASS_A_1	-1.17556	0.190348	0.760082	REACTOME_CLASS_A_1_RI	-0.8828	0.687488	1	REACTOME_CLASS_A_1_F	-1.1454	0.259571	0.931981
REACTOME_NUCLEAR_P	-1.34769	0.115318	0.666374	REACTOME_NUCLEAR_POI	-1.01596	0.432956	0.972193	REACTOME_NUCLEAR_PO	-1.14254	0.289685	0.935765
REACTOME_CELL_CELL_	-1.12192	0.280269	0.811102	REACTOME_CELL_CELL_JL	1.050636	0.375103	0.877142	REACTOME_CELL_CELL_JL	-1.13862	0.290096	0.936088
WP_FAS_PATHWAY_ANI	-0.97623	0.4774	0.908762	WP_FAS_PATHWAY_AND_	-0.74552	0.822409	1	WP_FAS_PATHWAY_AND_	-1.13622	0.299133	0.937823
REACTOME_ADHERENS_	-0.83165	0.710064	0.969613	REACTOME_ADHERENS_JI	0.952686	0.502808	0.949774	REACTOME_ADHERENS_JI	-1.14569	0.29493	0.938605
REACTOME_SIGNALING	1.424691	0.068708	0.56108	REACTOME_SIGNALING_B'	1.878707	0.001685	0.078986	REACTOME_SIGNALING_B	-1.13966	0.288073	0.939603
REACTOME_VISUAL_PHI	-1.32808	0.115468	0.639914	REACTOME_VISUAL_PHOT	-1.11397	0.296631	0.847355	REACTOME_VISUAL_PHO'	-1.14809	0.283741	0.944801
REACTOME_FACTORS_IN	-0.8783	0.691684	0.940977	REACTOME_FACTORS_INV	-0.86044	0.723311	1	REACTOME_FACTORS_INV	-1.14601	0.257799	0.945278
REACTOME_GLOBAL_GE	-0.9094	0.607421	0.951511								

REACTOME_OPIOID_SIG	-0.82018	0.778783	0.966272	REACTOME_OPIOID_SIGN/	-0.52797	0.998608	1	REACTOME_OPIOID_SIGN	0.651438	0.977634	0.973526
WP_ALZHEIMERS_DISEA	0.836316	0.737166	1	WP_ALZHEIMERS_DISEASE	-0.60667	0.9835	1	WP_ALZHEIMERS_DISEASE	0.660842	0.970329	0.973982
REACTOME_PLASMA_LII	0.984177	0.475563	0.9551	REACTOME_PLASMA_LIPO	-1.14457	0.26184	0.802726	REACTOME_PLASMA_LIPC	-1.12143	0.308902	0.974032
REACTOME_ABC_FAMILY	-1.27575	0.102129	0.702696	REACTOME_ABC_FAMILY	0.927492	0.577496	0.983438	REACTOME_ABC_FAMILY	0.64366	0.995054	0.974983
WP_PRIMARY_FOCAL_SI	1.314465	0.103486	0.724422	WP_PRIMARY_FOCAL_SEG	1.727188	0.009388	0.220767	WP_PRIMARY_FOCAL_SEG	0.654138	0.974186	0.975169
REACTOME_BRANCHED	-0.61335	0.947888	1	REACTOME_BRANCHED_CI	-0.80414	0.727238	1	REACTOME_BRANCHED_C	0.631507	0.943468	0.975223
REACTOME_NEUREXINS	-0.68553	0.911266	1	REACTOME_NEUREXINS_A	-0.4997	0.994599	1	REACTOME_NEUREXINS_I	0.663238	0.938247	0.975672
REACTOME_DEVELOPMI	-1.10727	0.997998	0.801286	REACTOME_DEVELOPMEN	1.484779	0.005077	0.511865	REACTOME_DEVELOPMEN	1.066036	0.23125	0.977762
REACTOME_HEDGEHOG	0.648813	0.985984	1	REACTOME_HEDGEHOG_C	0.872846	0.685622	1	REACTOME_HEDGEHOG_I	0.66386	0.990674	0.978672
REACTOME_APOPTOSIS	0.588923	0.993825	1	REACTOME_APOPTOSIS	0.63659	0.979608	1	REACTOME_APOPTOSIS	1.067601	0.308782	0.980868
BIOCARTA_AT1R_PATHV	0.796588	0.74243	1	BIOCARTA_AT1R_PATHWA	-0.75896	0.794572	1	BIOCARTA_AT1R_PATHW	0.665259	0.904079	0.981126
REACTOME_SELECTIVE_	1.113136	0.286915	0.988913	REACTOME_SELECTIVE_AU	0.91369	0.578357	0.983789	REACTOME_SELECTIVE_AI	0.681992	0.965842	0.981906
REACTOME_DOWNSTRE	0.838992	0.689383	1	REACTOME_DOWNSTREAM	1.210432	0.219614	0.840492	REACTOME_DOWNSTREA	1.060151	0.367065	0.981923
REACTOME_SIGNALING	0.784188	0.810536	1	REACTOME_SIGNALING_B	0.443171	0.998991	1	REACTOME_SIGNALING_E	0.677682	0.955759	0.981967
REACTOME_PLATELET_S	-1.47434	0.070135	0.496659	REACTOME_PLATELET_SE	0.65007	0.881943	1	REACTOME_PLATELET_SE	0.672785	0.886466	0.982401
BIOCARTA_IGF1_PATHV	1.257466	0.196456	0.78588	BIOCARTA_IGF1_PATHWA	1.23512	0.221988	0.801407	BIOCARTA_IGF1_PATHWA	1.06937	0.366513	0.983361
REACTOME_HEDGEHOG	0.986629	0.468593	0.951651	REACTOME_HEDGEHOG_C	0.887246	0.615874	1	REACTOME_HEDGEHOG_I	0.666344	0.96549	0.983832
REACTOME_RHOBTB_GI	1.182318	0.233609	0.904636	REACTOME_RHOBTB_GTP	1.034811	0.394471	0.878861	REACTOME_RHOBTB_GTP	0.682396	0.933645	0.985111
REACTOME_INSULIN_RE	-0.65166	0.924724	1	REACTOME_INSULIN_RECE	-0.59405	0.960161	1	REACTOME_INSULIN_REC	0.602508	0.958296	0.985497
REACTOME_APC_C_MEDI	1.068829	0.343694	1	REACTOME_APC_C_MEDI	1.227723	0.175026	0.7995	REACTOME_APC_C_MEDI	1.070954	0.314815	0.986715
REACTOME_RAS_PROCE	1.083732	0.35678	1	REACTOME_RAS_PROCESS	-0.61593	0.930778	1	REACTOME_RAS_PROCES	1.056465	0.377348	0.987232
REACTOME_TRANSCRIPT	0.996671	0.453282	0.950595	REACTOME_TRANSCRIPTI	0.670055	0.943377	1	REACTOME_TRANSCRIPTI	0.682826	0.957668	0.988286
REACTOME_TRANSFERR	0.950868	0.525205	0.958247	REACTOME_TRANSFERRIN	0.645256	0.897165	1	REACTOME_TRANSFERRIN	1.001384	0.440793	0.989188
REACTOME_METABOLIS	1.677806	0.004893	0.189697	REACTOME_METABOLISM	0.991934	0.451482	0.915981	REACTOME_METABOLISM	1.072741	0.313348	0.989297
REACTOME_SIGNALING	0.710899	0.873712	1	REACTOME_SIGNALING_B	-0.55326	0.982762	1	REACTOME_SIGNALING_E	0.58292	0.976467	0.989353
WP_SPLICING_FACTOR_	-0.96717	0.488805	0.912202	WP_SPLICING_FACTOR_NC	-0.82455	0.746792	1	WP_SPLICING_FACTOR_N	0.980787	0.470819	0.990503
BIOCARTA_MCALPAIN_F	1.170356	0.265935	0.92728	BIOCARTA_MCALPAIN_PA	1.669477	0.031904	0.271098	BIOCARTA_MCALPAIN_PA	0.683558	0.877852	0.991237
REACTOME_EPH_EPHRI	0.602479	0.953188	1	REACTOME_EPH_EPHRIN	-0.44498	0.997351	0.997782	REACTOME_EPH_EPHRIN	0.564119	0.976612	0.991622
REACTOME_MITOCHON	0.478595	0.986528	1	REACTOME_MITOCHONDR	0.839464	0.650126	1	REACTOME_MITOCHOND	0.684373	0.879234	0.994148
REACTOME_SIGNALING	1.043162	0.393805	0.996893	REACTOME_SIGNALING_B	0.74857	0.817224	1	REACTOME_SIGNALING_E	0.997881	0.445452	0.99472
REACTOME_REGULATIO	1.286427	0.119254	0.780719	REACTOME_REGULATION	1.316162	0.118154	0.706979	REACTOME_REGULATION	1.127653	0.235342	0.994538
REACTOME_FC_EPSILON	0.746294	0.915883	1	REACTOME_FC_EPSILON_F	1.039264	0.37462	0.885727	REACTOME_FC_EPSILON	0.706605	0.981193	0.994854
REACTOME_RET_SIGNAI	1.283321	0.154539	0.77251	REACTOME_RET_SIGNALIN	1.598566	0.037037	0.359904	REACTOME_RET_SIGNALI	0.694565	0.897333	0.995796
BIOCARTA_STRESS_PATH	-1.03173	0.407875	0.869435	BIOCARTA_STRESS_PATHV	0.762229	0.75671	1	BIOCARTA_STRESS_PATH	0.479676	0.989978	0.995819
REACTOME_CA2_PATHV	0.924852	0.558044	0.954099	REACTOME_CA2_PATHWA	-1.03585	0.404823	0.944814	REACTOME_CA2_PATHW	0.981185	0.47644	0.996103
REACTOME_REGULATIO	0.605498	0.942911	1	REACTOME_REGULATION	-0.95751	0.506807	1	REACTOME_REGULATION	1.001505	0.437236	0.996255
BIOCARTA_PYK2_PATHV	-0.58812	0.961596	1	BIOCARTA_PYK2_PATHWA	-0.70745	0.865305	1	BIOCARTA_PYK2_PATHW	0.505109	0.990407	0.996383
REACTOME_L1CAM_INT	1.023263	0.411969	0.963151	REACTOME_L1CAM_INTER	0.796559	0.793019	1	REACTOME_L1CAM_INTE	0.685715	0.968504	0.996595
REACTOME_AURKA_ACT	-0.43622	0.999339	0.998502	REACTOME_AURKA_ACTIV	1.04263	0.383719	0.885791	REACTOME_AURKA_ACTI	1.044675	0.374067	0.996998
REACTOME_SYNTHESIS	0.81546	0.711494	1	REACTOME_SYNTHESIS_O	0.909456	0.557842	0.982812	REACTOME_SYNTHESIS_O	0.707529	0.863063	0.997605
REACTOME_GOLGI_TO_	1.127399	0.244588	0.978263	REACTOME_GOLGI_TO_ER	1.177458	0.194227	0.843635	REACTOME_GOLGI_TO_EI	1.073014	0.287671	0.998117
BIOCARTA_GLEEVEC_PA	0.812954	0.709808	1	BIOCARTA_GLEEVEC_PATH	0.433068	0.992166	1	BIOCARTA_GLEEVEC_PAT	0.710489	0.853816	0.998147
BIOCARTA_PDGF_PATHV	0.731061	0.825779	1	BIOCARTA_PDGF_PATHWA	-0.83753	0.694455	1	BIOCARTA_PDGF_PATHW	0.695712	0.883834	0.99839
REACTOME_SIGNALING	-0.69599	0.907521	1	REACTOME_SIGNALING_B	-0.6299	0.956163	1	REACTOME_SIGNALING_E	0.514676	0.996925	0.998455
REACTOME_MAPK_FAM	1.023786	0.401715	0.976974	REACTOME_MAPK_FAMILY	0.779922	0.943042	1	REACTOME_MAPK_FAMILY	0.713584	0.998912	0.99853
WP_PROTEASOME_DEG	-0.90535	0.598805	0.935932	WP_PROTEASOME_DEGRA	-0.71428	0.904412	1	WP_PROTEASOME_DEGR	0.699004	0.927246	0.998915
BIOCARTA_GPCR_PATHV	-0.54297	0.980306	1	BIOCARTA_GPCR_PATHWA	-0.82438	0.694026	1	BIOCARTA_GPCR_PATHW	-0.33886	0.999692	0.999895
REACTOME_SMOOTH_M	2.095553	1.89E-04	0.014507	REACTOME_SMOOTH_MU	2.23465	0	0.001176	REACTOME_SMOOTH_ML	-0.88747	0.620323	1
REACTOME_RHO_GTPAS	2.047715	1.86E-04	0.017034	REACTOME_RHO_GTPASE	2.209499	0	0.001241	REACTOME_RHO_GTPASE	-0.45823	0.990926	1
REACTOME_COMPLEME	1.871256	0.002273	0.05027	REACTOME_COMPLEMEN	1.450704	0.094501	0.525419	REACTOME_COMPLEMEN	-0.95891	0.519225	1
REACTOME_PHASE_I_FL	1.840742	0.002778	0.066004	REACTOME_PHASE_I_FUN	1.630544	0.021846	0.325468	REACTOME_PHASE_I_FUN	1.205816	0.187153	1
REACTOME_RESPONSE_	1.798976	5.37E-04	0.095028	REACTOME_RESPONSE_TC	1.275612	0.123618	0.740893	REACTOME_RESPONSE_TI	-0.98058	0.503002	1
WP_OXIDATIVE_STRESS	1.758821	0.007422	0.124298	WP_OXIDATIVE_STRESS_R	-0.67299	0.899329	1	WP_OXIDATIVE_STRESS_F	0.901859	0.597218	1
REACTOME_REGULATIO	1.656866	0.007111	0.216007	REACTOME_REGULATION	1.612106	0.011934	0.353559	REACTOME_REGULATION	-0.82697	0.747113	1
WP_METAPATHWAY_BI	1.631887	0.01252	0.244089	WP_METAPATHWAY_BIOT	1.183106	0.220864	0.832484	WP_METAPATHWAY_BIO	1.171471	0.203804	1
BIOCARTA_MTOR_PATH	1.550841	0.037663	0.350919	BIOCARTA_MTOR_PATHV	1.145075	0.297782	0.884687	BIOCARTA_MTOR_PATHV	1.135572	0.295699	1
REACTOME_DISASSEMB	1.572992	0.036513	0.351786	REACTOME_DISASSEMBLY	1.185451	0.240902	0.832538	REACTOME_DISASSEMBLY	0.863328	0.653726	1
BIOCARTA_IGF1MTOR_F	1.565579	0.040882	0.359024	BIOCARTA_IGF1MTOR_PA	1.339213	0.149928	0.684472	BIOCARTA_IGF1MTOR_PA	1.19328	0.236763	1
WP_FOCAL_ADHESION	1.558832	0.006217	0.364024	WP_FOCAL_ADHESION	2.258373	0	8.77E-04	WP_FOCAL_ADHESION	-0.90816	0.643803	1
REACTOME_TGF_BETA_I	1.54002	0.042164	0.367519	REACTOME_TGF_BETA_RE	1.995003	0.00146	0.020409	REACTOME_TGF_BETA_RI	-0.81692	0.708075	1
WP_TRYPTOPHAN_MET	1.552856	0.033421	0.367809	WP_TRYPTOPHAN_METAB	1.241386	0.196483	0.789737	WP_TRYPTOPHAN_METAI	1.096716	0.30925	1
REACTOME_GLUTATHIO	1.502735	0.044757	0.403892	REACTOME_GLUTATHIONE	-0.82569	0.707884	1	REACTOME_GLUTATHION	1.001763	0.447789	1
BIOCARTA_TFF_PATHV	1.498037	0.064314	0.406534	BIOCARTA_TFF_PATHWAY	1.089106	0.344872	0.880138	BIOCARTA_TFF_PATHWAY	1.130845	0.296668	1
REACTOME_ROLE_OF_P	1.510145	0.055081	0.414669	REACTOME_ROLE_OF_PHC	-1.00504	0.462185	0.989449	REACTOME_ROLE_OF_PH	-0.90923	0.583097	1
REACTOME_COPI_MEDI	1.487672	0.01938	0.424171	REACTOME_COPI_MEDIAT	1.068519	0.325105	0.875764	REACTOME_COPI_MEDIA	1.27378	0.087838	1
REACTOME_ADRENALIN	-1.55299	0.040319	0.442891	REACTOME_ADRENALINE	-1.33461	0.130852	0.70594	REACTOME_ADRENALINE	-0.83963	0.684973	1
REACTOME_PRESYNAPT	-1.57724	3.81E-02	0.452492	REACTOME_PRESYNAPTIC	-1.48479	0.066895	0.519091	REACTOME_PRESYNAPTIC	-0.81094	0.714218	1
REACTOME_POTASSIUM	-1.68077	0.00872	0.453404	REACTOME_POTASSIUM_C	-1.84142	0.972E-04	0.139027	REACTOME_POTASSIUM_I	-1.07326	0.354291	1
REACTOME_G_PROTEIN	-1.50411	0.049633	0.470454	REACTOME_G_PROTEIN_B	-1.32346	0.135078	0.68963	REACTOME_G_PROTEIN_I	-0.81643	0.711515	1
REACTOME_G_ALPHA_Z	-1.49667	0.053191	0.471826	REACTOME_G_ALPHA_Z_S	-1.32361	0.123367	0.703379	REACTOME_G_ALPHA_Z_I	-0.98589	0.488935	1
REACTOME_G_BETA_GA	-1.63853	0.027694	0.484038	REACTOME_G_BETA_GAM	-1.44739	0.078537	0.534043	REACTOME_G_BETA_GAN	-0.84634	0.66886	1
REACTOME_REGULATIO	-1.50515	0.469E-02	0.487974	REACTOME_REGULATION	-0.99682	0.458509	1	REACTOME_REGULATION	-0.99032	0.483852	1
REACTOME_MUSCLE_CC	1.431518	0.027851	0.549783	REACTOME_MUSCLE_CON	1.855598	6.06E-04	0.092988	REACTOME_MUSCLE_CON	-0.76617	0.865063	1
WP_FOCAL_ADHESION	1.419392	0.019932	0.567696	WP_FOCAL_ADHESION_PI	1.678641	0.001572	0.274626	WP_FOCAL_ADHESION_PI	-0.88798	0.69818	1
REACTOME_DNA_DAM	-1.42656	0.078599	0.604991	REACTOME_DNA_DAMAGI	-1.0927	0.33875	0.876412	REACTOME_DNA_DAMAC	-0.99773	0.470141	1
REACTOME_RECOGNITI	-1.4134	0.096913	0.607543	REACTOME_RECOGNITION	-1.14434	0.298029	0.795635	REACTOME_RECOGNITIO	-1.04498	0.417378	1
REACTOME_G_ALPHA_S	-1.38823	0.073708	0.615996	REACTOME_G_ALPHA_S_S	-1.27711	0.128586	0.73331	REACTOME_G_ALPHA_S_I	-1.09922	0.333198	1
REACTOME_G_BETA_GA	-1.32852	0.134291	0.652716	REACTOME_G_BETA_GAM	-1.33968	0.127647	0.701931	REACTOME_G_BETA_GAN	-0.69969	0.847664	1
REACTOME_RECEPTOR	1.384766	0.10579	0.654493	REACTOME_RECEPTOR_TY	0.557713	0.957545	1	REACTOME_RECEPTOR_T	0.992129	0.485677	1
REACTOME_TRANSLESIC	-1.34113	0.129457	0.656178	REACTOME_TRANSLESION	-1.1407	0.293814	0.800552	REACTOME_TRANSLESION	-0.91046	0.583033	1
REACTOME_OXIDATIVE	-1.3646	0.110028	0.659745	REACTOME_OXIDATIVE_ST	1.149954	0.275756	0.883304	REACTOME_OXIDATIVE_S	-0.92718	0.570148	1
REACTOME_THROMBOX	-1.3172	0.141044	0.661092	REACTOME_THROMBOXA	-0.92244	0.558929	1	REACTOME_THROMBOXA	-0.77801	0.752917	1
REACTOME_FCGAMMA	1.372073	0.062075	0.664576	REACTOME_FCGAMMA_RI	0.885681	0.366843	1	REACTOME_FCGAMMA_R	-0.64871	0.957159	1
REACTOME_AGGREPHAG	1.356127	0.1									



WP_GPCRS_CLASS_A_RH	-1.329	0.118739	0.665931	WP_GPCRS_CLASS_A_RHO	-1.19231	0.224802	0.760924	WP_GPCRS_CLASS_A_RHC	-1.08858	0.354356	1
REACTOME_VEGFR2_MI	1.373718	0.097124	0.670626	REACTOME_VEGFR2_MED	1.470035	0.075565	0.506028	REACTOME_VEGFR2_MEC	0.884283	0.626313	1
REACTOME_CELL_EXTRAC	1.357794	0.126918	0.670663	REACTOME_CELL_EXTRACT	1.733791	0.017402	0.219839	REACTOME_CELL_EXTRAC	-0.67271	0.87217	1
REACTOME_SIGNALING_B	1.36625	0.073047	0.674196	REACTOME_SIGNALING_B'	1.135191	0.262416	0.89588	REACTOME_SIGNALING_B	1.176832	0.177988	1
BIOCARTA_NFAT_PATHW	1.361687	0.100884	0.679085	BIOCARTA_NFAT_PATHWA	1.158855	0.263003	0.868387	BIOCARTA_NFAT_PATHW	0.933962	0.540462	1
REACTOME_TELOMERE_M	-1.28052	0.157676	0.699982	REACTOME_TELOMERE_M	-0.80893	0.74491	1	REACTOME_TELOMERE_N	-1.04623	0.411712	1
REACTOME_SIGNALING_B'	1.335048	0.092478	0.700333	REACTOME_SIGNALING_B'	1.171513	0.224419	0.848335	REACTOME_SIGNALING_B	1.194714	0.186298	1
REACTOME_AMINE_LIG	-1.71628	0.101656	0.701106	REACTOME_AMINE_LIGAN	-1.48621	0.059207	0.56052	REACTOME_AMINE_LIGAI	-0.95905	0.52393	1
REACTOME_RHOH_GTPA	1.337284	0.116345	0.702549	REACTOME_RHOH_GTPAS	1.474681	0.067132	0.504604	REACTOME_RHOH_GTPAS	-1.02552	0.431049	1
REACTOME_ACTIVATION_C	-1.28183	0.152859	0.709089	REACTOME_ACTIVATION_C	-1.48437	0.054514	0.499846	REACTOME_ACTIVATION_C	0.921798	0.560574	1
REACTOME_ADP_SIGNALI	-1.29836	0.156363	0.709312	REACTOME_ADP_SIGNALLI	-0.91242	0.578844	1	REACTOME_ADP_SIGNALI	-0.69951	0.841673	1
WP_TRANSLATION_FACTO	1.338444	0.104578	0.709448	WP_TRANSLATION_FACTO	1.199925	0.211626	0.816169	WP_TRANSLATION_FACTO	1.004119	0.442544	1
REACTOME_PLATELET_AC	1.340225	0.036528	0.713951	REACTOME_PLATELET_AC	1.016457	0.406108	0.899982	REACTOME_PLATELET_AC	-1.00256	0.471843	1
REACTOME_FCIER_MEDIA	-1.26344	0.16816	0.718355	REACTOME_FCIER_MEDIA'	-0.76459	0.791276	1	REACTOME_FCIER_MEDIA	-0.88278	0.622608	1
REACTOME_LDL_CLEARAN	1.312911	0.151354	0.72004	REACTOME_LDL_CLEARAN	1.206641	0.244355	0.835683	REACTOME_LDL_CLEARAN	0.864418	0.649756	1
BIOCARTA_INTEGRIN_PAT	1.317096	0.126351	0.725243	BIOCARTA_INTEGRIN_PATI	1.611432	0.034288	0.343608	BIOCARTA_INTEGRIN_PAT	0.923021	0.572866	1
REACTOME_POST_TRANS	1.319429	0.124207	0.727204	REACTOME_POST_TRANS	1.140265	0.286604	0.893466	REACTOME_POST_TRANS	1.267513	0.145875	1
REACTOME_BASE_EXCISIO	-1.21725	0.211616	0.733037	REACTOME_BASE_EXCISIO	-0.7337	0.823652	1	REACTOME_BASE_EXCISIO	-0.8185	0.699875	1
REACTOME_SUMOYLATIO	-1.23988	0.153761	0.736181	REACTOME_SUMOYLATIO	-1.46462	0.032277	0.52941	REACTOME_SUMOYLATIO	-0.92801	0.584489	1
REACTOME_G_PROTEIN_A	-1.22277	0.206976	0.736512	REACTOME_G_PROTEIN_A	-0.97592	0.491141	1	REACTOME_G_PROTEIN_A	-0.875	0.631464	1
WP_IL5_SIGNALING_PATH	-1.19427	0.185419	0.736978	WP_IL5_SIGNALING_PATH'	-0.587	0.98749	1	WP_IL5_SIGNALING_PATH	-0.74277	0.848656	1
REACTOME_PLATELET_CA	1.319464	0.152365	0.738083	REACTOME_PLATELET_CA	-0.80368	0.728852	1	REACTOME_PLATELET_CA	-0.8198	0.704897	1
REACTOME_BILE_ACID_AI	1.302678	0.148148	0.738606	REACTOME_BILE_ACID_AI	0.83776	0.663609	1	REACTOME_BILE_ACID_AI	-0.97236	0.504807	1
REACTOME_EGFR_DOWN	-1.22488	0.208209	0.740682	REACTOME_EGFR_DOWN	-0.95514	0.525375	1	REACTOME_EGFR_DOWN	-0.59933	0.943078	1
REACTOME_NEGATIVE_RE	-1.2116	0.22103	0.741224	REACTOME_NEGATIVE_RE	-0.98104	0.47923	1	REACTOME_NEGATIVE_RE	-0.71924	0.826204	1
WP_ENDOCHONDRAL_OS	-1.20781	0.21317	0.743246	WP_ENDOCHONDRAL_OSS	-1.15988	0.269135	0.81496	WP_ENDOCHONDRAL_OS	-0.90695	0.569635	1
WP_EXERCISEINDUCED_C	-1.16351	0.244783	0.744357	WP_EXERCISEINDUCED_CII	0.717694	0.850621	1	WP_EXERCISEINDUCED_C	-1.0655	0.385267	1
REACTOME_AMINO_ACID	-1.19775	0.228832	0.745686	REACTOME_AMINO_ACID	0.842614	0.667084	1	REACTOME_AMINO_ACID	-0.88632	0.61922	1
BIOCARTA_ECM_PATHWA	1.320114	0.143582	0.746869	BIOCARTA_ECM_PATHWA'	1.75156	0.015962	0.211785	BIOCARTA_ECM_PATHWA	0.760377	0.788698	1
REACTOME_ADP_SIGNALI	-1.20328	0.228754	0.7479	REACTOME_ADP_SIGNALLI	-1.27077	0.182342	0.721035	REACTOME_ADP_SIGNALI	-0.62687	0.913453	1
REACTOME_SLC_MEDIAT	-1.164	0.168183	0.751608	REACTOME_SLC_MEDIAT	-1.27532	0.070133	0.727862	REACTOME_SLC_MEDIAT	-1.05159	0.379613	1
WP_IL9_SIGNALING_PATH	-1.1667	0.257675	0.751824	WP_IL9_SIGNALING_PATH'	1.254199	0.199316	0.793302	WP_IL9_SIGNALING_PATH	-0.78427	0.745307	1
WP_IL2_SIGNALING_PATH	-1.16879	0.2125	0.754166	WP_IL2_SIGNALING_PATH'	1.050159	0.375729	0.873366	WP_IL2_SIGNALING_PATH	-0.914932	0.624294	1
REACTOME_CHAPERONIN	-1.22644	0.184801	0.758694	REACTOME_CHAPERONIN	-0.7721	0.805208	1	REACTOME_CHAPERONIN	-0.59486	0.963243	1
REACTOME_TNFR1_INDUC	-1.16962	0.264107	0.760717	REACTOME_TNFR1_INDUC	0.624474	0.905411	1	REACTOME_TNFR1_INDUC	-0.92815	0.564799	1
BIOCARTA_MAPK_PATHW	-1.18072	0.205285	0.762373	BIOCARTA_MAPK_PATHWA	0.843178	0.705484	1	BIOCARTA_MAPK_PATHW	-0.64491	0.945559	1
BIOCARTA_TOLL_PATHWA	-1.1776	0.258346	0.762996	BIOCARTA_TOLL_PATHWA	0.760412	0.749894	1	BIOCARTA_TOLL_PATHWA	-0.74632	0.78568	1
REACTOME_CLASS_B_2_S	-1.18316	0.235064	0.764285	REACTOME_CLASS_B_2_S	-1.54688	0.031974	0.608624	REACTOME_CLASS_B_2_S	-0.90837	0.593037	1
REACTOME_MAPK_TARGE	-1.1709	0.253687	0.765895	REACTOME_MAPK_TARGE	0.647289	0.909691	1	REACTOME_MAPK_TARGE	1.230528	0.188998	1
REACTOME_METABOLISM	1.292727	0.021572	0.766503	REACTOME_METABOLISM	1.089052	0.233073	0.874235	REACTOME_METABOLISM	1.097387	0.133739	1
BIOCARTA_INSULIN_PATH	1.286236	0.179649	0.77111	BIOCARTA_INSULIN_PATH'	1.278426	0.191809	0.741208	BIOCARTA_INSULIN_PATH	1.149609	0.280759	1
REACTOME_RNA_POLYME	1.256405	0.197394	0.771758	REACTOME_RNA_POLYME	1.103905	0.337553	0.88246	REACTOME_RNA_POLYME	1.07441	0.360334	1
WP_SPHINGOLIPID_META	1.274238	0.173594	0.778291	WP_SPHINGOLIPID_METAI	1.349307	0.14348	0.695409	WP_SPHINGOLIPID_META	0.82705	0.694975	1
REACTOME_GAMMA_CAR	1.256574	0.190531	0.780114	REACTOME_GAMMA_CAR	1.011111	0.428183	0.906192	REACTOME_GAMMA_CAF	0.834218	0.609357	1
WP_SPHINGOLIPID_META	1.268731	0.182319	0.780141	WP_SPHINGOLIPID_METAI	1.347733	0.139217	0.689432	WP_SPHINGOLIPID_META	0.825807	0.707257	1
REACTOME_MYD88_MAL	-1.13368	0.242175	0.780759	REACTOME_MYD88_MAL	0.722711	0.895982	1	REACTOME_MYD88_MAL	0.776157	0.882254	1
REACTOME_SIGNALING_B	1.24436	0.056774	0.782274	REACTOME_SIGNALING_B'	1.384746	0.017362	0.639522	REACTOME_SIGNALING_B	-0.89468	0.724495	1
REACTOME_HEMOSTASIS	1.245199	0.051649	0.787661	REACTOME_HEMOSTASIS	0.958481	0.564949	0.95088	REACTOME_HEMOSTASIS	-0.94554	0.624174	1
REACTOME_NERVOUS_SY	1.249499	0.072069	0.789004	REACTOME_NERVOUS_SY	1.434095	0.01882	0.560475	REACTOME_NERVOUS_SY	0.907966	0.75615	1
REACTOME_BINDING_ANI	-1.0983	0.338776	0.791656	REACTOME_BINDING_ANC	-1.17813	0.265903	0.785038	REACTOME_BINDING_ANI	-1.00475	0.471024	1
WP_CALCIUM_REGULATIO	-1.08676	0.28184	0.791694	WP_CALCIUM_REGULATIO	-1.32732	0.053923	0.703952	WP_CALCIUM_REGULATIO	-0.68062	0.960855	1
REACTOME_SIGNALING_B	1.2606	0.153957	0.792392	REACTOME_SIGNALING_B'	1.7706	0.009083	0.191732	REACTOME_SIGNALING_B	-0.77181	0.808443	1
REACTOME_AMINO_ACID	-1.06857	0.344088	0.793174	REACTOME_AMINO_ACIDS	-0.70998	0.899234	1	REACTOME_AMINO_ACID	-0.82975	0.71931	1
REACTOME_RNA_POLYMI	1.257682	0.174816	0.79439	REACTOME_RNA_POLYME	1.107407	0.33175	0.897258	REACTOME_RNA_POLYMI	1.07888	0.356589	1
REACTOME_REGULATION	1.245484	0.203041	0.795429	REACTOME_REGULATION	1.088606	0.343315	0.863753	REACTOME_REGULATION	1.112129	0.312916	1
REACTOME_THROMBIN_S	-1.09455	0.330087	0.796131	REACTOME_THROMBIN_SI	-0.86956	0.640192	1	REACTOME_THROMBIN_S	-0.63871	0.915117	1
REACTOME_TAK1_DEPEN	-1.08977	0.328643	0.796635	REACTOME_TAK1_DEPEN	-0.65591	0.922432	1	REACTOME_TAK1_DEPEN	-0.73799	0.820543	1
REACTOME_RND1_GTPAS	1.236061	0.184529	0.796733	REACTOME_RND1_GTPAS	1.522596	0.05583	0.437405	REACTOME_RND1_GTPAS	1.129149	0.271275	1
REACTOME_RAB_GERANY	-1.06936	0.330651	0.797442	REACTOME_RAB_GERANYI	-0.77015	0.852578	1	REACTOME_RAB_GERANY	-0.77587	0.805597	1
REACTOME_SYNTHESIS_O	-1.09847	0.320843	0.798724	REACTOME_SYNTHESIS_OI	-0.92978	0.558852	1	REACTOME_SYNTHESIS_O	-1.07655	0.378993	1
REACTOME_SNRNP_ASSE	-1.08678	0.314362	0.798904	REACTOME_SNRNP_ASSE	-1.04709	0.38026	0.933623	REACTOME_SNRNP_ASSE	-0.76812	0.812713	1
REACTOME_RNA_POLYMI	-1.10546	0.288759	0.799262	REACTOME_RNA_POLYME	-1.22359	0.169797	0.763001	REACTOME_RNA_POLYMI	-0.90797	0.608807	1
REACTOME_INTERLEUKIN	-1.0794	0.326594	0.800459	REACTOME_INTERLEUKIN	0.87925	0.634101	1	REACTOME_INTERLEUKIN	-0.62655	0.955956	1
REACTOME_ACTIVATED_T	-1.09072	0.353401	0.801078	REACTOME_ACTIVATED_TI	1.077878	0.360852	0.874588	REACTOME_ACTIVATED_T	-0.82368	0.691545	1
REACTOME_MHC_CLASS_I	1.232315	0.137919	0.80231	REACTOME_MHC_CLASS_I	0.901928	0.62927	0.987026	REACTOME_MHC_CLASS_I	1.140667	0.192608	1
REACTOME_GLUCAGON_T	-1.06112	0.369135	0.803043	REACTOME_GLUCAGON_T	-1.51438	0.046368	0.559899	REACTOME_GLUCAGON_T	1.075015	0.359748	1
REACTOME_MYD88_INDE	-1.09931	0.280655	0.80374	REACTOME_MYD88_INDE	0.847211	0.709148	1	REACTOME_MYD88_INDE	0.926727	0.609895	1
REACTOME_VASOPRESSIN	-1.10894	0.311454	0.803933	REACTOME_VASOPRESSIN	-1.52299	0.041825	0.591767	REACTOME_VASOPRESSIN	0.981203	0.478339	1
REACTOME_CELLULAR_SE	-1.06285	0.344141	0.804362	REACTOME_CELLULAR_SEI	0.835746	0.707849	1	REACTOME_CELLULAR_SE	-0.97074	0.512055	1
REACTOME_ANTIGEN_PRC	-1.11378	0.271775	0.804395	REACTOME_ANTIGEN_PRC	0.749621	0.861907	1	REACTOME_ANTIGEN_PRC	-0.60895	0.976033	1
REACTOME_GLUCONEOGE	1.236172	0.194237	0.804971	REACTOME_GLUCONEOGE	1.050157	0.379137	0.868169	REACTOME_GLUCONEOGE	-0.7566	0.800808	1
BIOCARTA_HIVNEF_PATH	-1.08018	0.336807	0.805225	BIOCARTA_HIVNEF_PATHW	0.649479	0.930715	1	BIOCARTA_HIVNEF_PATH'	-0.90361	0.623926	1
WP_ONECARBON_METABO	-1.11597	0.299957	0.805515	WP_ONECARBON_METABO	-1.09955	0.332295	0.867447	WP_ONECARBON_METABO	-0.96813	0.512648	1
REACTOME_AQUAPORIN_I	-1.12088	0.285927	0.805999	REACTOME_AQUAPORIN_I	-1.59471	0.021146	0.675754	REACTOME_AQUAPORIN_I	0.9662	0.497605	1
REACTOME_TOLL_LIKE_RI	-1.09962	0.297715	0.810576	REACTOME_TOLL_LIKE_RI	0.686758	0.939555	1	REACTOME_TOLL_LIKE_RI	0.764283	0.895037	1
REACTOME_SIGNALING_B	1.227781	0.174489	0.811205	REACTOME_SIGNALING_B'	1.713913	0.009683	0.23268	REACTOME_SIGNALING_B	0.958745	0.51098	1
REACTOME_MAP2K_AND	1.225052	0.188927	0.813153	REACTOME_MAP2K_AND	0.92245	0.553712	0.984663	REACTOME_MAP2K_AND	-0.97355	0.5058	1
REACTOME_TOLL_LIKE_RI	-1.07062	0.326225	0.814401	REACTOME_TOLL_LIKE_RI	0.763107	0.871027	1	REACTOME_TOLL_LIKE_RI	0.868055	0.75073	1
REACTOME_CELL_SURFAC	1.217299	0.181059	0.818016	REACTOME_CELL_SURFACI	1.584074	0.026716	0.359633	REACTOME_CELL_SURFAC	-0.99619	0.473026	1
REACTOME_RND3_GTPAS	1.218988	0.194254	0.819942	REACTOME_RND3_GTPAS	1.322058	0.135428	0.708239	REACTOME_RND3_GTPAS	1.12263	0.273362	1
REACTOME_NEUTROPHIL	1.220147	0.073319	0.823814	REACTOME_NEUTROPHIL	-1.12452	0.160604	0.833392	REACTOME_NEUTROPHIL	-0.8028	0.896083	1
WP_EUKARYOTIC_TRANSC	-1.03625	0.395578	0.861785	WP_EUKARYOTIC_TRANSC	-1.4142	0.067803	0.566321	WP_EUKARYOTIC_TRANSC	-0.89814	0.610256	1
REACTOME_REGULATION	-1.0214	0.414488	0.868472	REACTOME_REGULATION	-1.11962	0.276187	0.834975	REACTOME_REGULATION	-0.7155	0.884501	1
REACTOME_TRANSPORT_C	-1.02411	0.364138	0.873269	REACTOME_TRANSPORT_C	-1.25243	0.027409	0.700609	REACTOME_TRANSPORT_C	-0.83218	0.875748	1

REACTOME_TRANSCRIPTI	-1.01472	0.424066	0.876481	REACTOME_TRANSCRIPTIC	-0.83554	0.71072	1	REACTOME_TRANSCRIPTI	-1.02987	0.428162	1
REACTOME_DUAL_INCIS	-1.02445	0.414608	0.879088	REACTOME_DUAL_INCISIO	-1.00053	0.45767	0.99813	REACTOME_DUAL_INCISIO	-0.85877	0.648196	1
REACTOME_RMTS_MET	1.196945	0.222469	0.880812	REACTOME_RMTS_METHY	1.071142	0.355268	0.873187	REACTOME_RMTS_METHY	0.837394	0.713443	1
REACTOME_DNA_DAM	-1.02518	0.404649	0.883733	REACTOME_DNA_DAMAGI	-1.10454	0.321234	0.872996	REACTOME_DNA_DAMAGI	-1.10954	0.338106	1
REACTOME_G2_M_CHE	-0.997	0.450825	0.887195	REACTOME_G2_M_CHECK	-0.92653	0.588235	1	REACTOME_G2_M_CHECK	-0.89904	0.635339	1
WP_IL3_SIGNALING_PA	-0.96204	0.516092	0.892352	WP_IL3_SIGNALING_PATH	0.546276	0.997168	1	WP_IL3_SIGNALING_PATH	-0.81699	0.770544	1
REACTOME_RESPIRATO	-0.9973	0.455039	0.892682	REACTOME_RESPIRATORY	-1.31019	0.079105	0.672902	REACTOME_RESPIRATORY	-0.95808	0.540604	1
REACTOME_SIGNAL_AM	-0.99873	0.440537	0.894652	REACTOME_SIGNAL_AMPL	-0.81031	0.736721	1	REACTOME_SIGNAL_AMPL	-0.53147	0.976506	1
BIOCARTA_MET_PATHW	1.186874	0.240338	0.894909	BIOCARTA_MET_PATHWAY	1.355104	0.128435	0.688007	BIOCARTA_MET_PATHWAY	1.097023	0.310599	1
REACTOME_G_ALPHA_I	-1.00444	0.431221	0.896112	REACTOME_G_ALPHA_I_S	-0.85326	0.780418	1	REACTOME_G_ALPHA_I_S	-0.86868	0.710273	1
REACTOME_COMPLEX_I	-0.96266	0.507675	0.896277	REACTOME_COMPLEX_I_B	-1.21278	0.176355	0.762533	REACTOME_COMPLEX_I_B	-0.77092	0.814516	1
WP_FOLIC_ACID_NETW	1.190749	0.252475	0.896718	WP_FOLIC_ACID_NETWORK	0.921782	0.539141	0.977801	WP_FOLIC_ACID_NETWORK	-0.85042	0.665173	1
REACTOME_RHO_GTP	1.18826	0.225854	0.898047	REACTOME_RHO_GTPAS	1.286655	0.152428	0.733426	REACTOME_RHO_GTPAS	1.17144	0.211991	1
REACTOME_INTRA_GOL	-0.96348	0.494063	0.899606	REACTOME_INTRA_GOLGI	-0.5065	0.992982	1	REACTOME_INTRA_GOLGI	0.78065	0.804194	1
REACTOME_CLATHRIN_I	-0.96664	0.522179	0.901744	REACTOME_CLATHRIN_ME	-0.75571	0.936069	1	REACTOME_CLATHRIN_ME	-1.03192	0.418273	1
REACTOME_RESPIRATO	-0.98036	0.479243	0.901953	REACTOME_RESPIRATORY	-1.31607	0.067856	0.676947	REACTOME_RESPIRATORY	-0.96787	0.520741	1
BIOCARTA_DEATH_PATH	-0.96458	0.493272	0.902109	BIOCARTA_DEATH_PATHW	0.848799	0.645181	1	BIOCARTA_DEATH_PATHW	0.903109	0.590094	1
REACTOME_BIOSYNTHES	1.180731	0.216415	0.902456	REACTOME_BIOSYNTHESIS	-1.0431	0.388802	0.940522	REACTOME_BIOSYNTHESIS	-1.00734	0.464586	1
REACTOME_SIGNALING	-1.0045	0.42975	0.902712	REACTOME_SIGNALING_B	1.063904	0.325065	0.879111	REACTOME_SIGNALING_B	0.760297	0.975793	1
WP_WNT_SIGNALING_P	-0.98159	0.472955	0.904363	WP_WNT_SIGNALING_PA	-0.69972	0.922187	1	WP_WNT_SIGNALING_PA	-1.0214	0.436193	1
REACTOME_ROS_AND_F	-0.98546	0.470512	0.904834	REACTOME_ROS_AND_RN	-0.85677	0.657241	1	REACTOME_ROS_AND_RN	-0.69588	0.85396	1
REACTOME_SUMOYLATI	-0.94957	0.515	0.906841	REACTOME_SUMOYLATIO	-0.98717	0.474223	1	REACTOME_SUMOYLATIO	-1.00532	0.455932	1
REACTOME_TRANSPORT	-0.96686	0.480026	0.907067	REACTOME_TRANSPORT_C	-0.81943	0.758375	1	REACTOME_TRANSPORT_C	-1.00664	0.458101	1
REACTOME_NUCLEAR_E	-0.98236	0.479867	0.9083	REACTOME_NUCLEAR_EN	-0.91548	0.595528	1	REACTOME_NUCLEAR_EN	-0.77434	0.798811	1
REACTOME_ANTIGEN_P	-0.95031	0.515754	0.91035	REACTOME_ANTIGEN_PRE	-0.88955	0.612029	1	REACTOME_ANTIGEN_PRE	-0.59414	0.936456	1
REACTOME_SIALIC_ACID	-0.9857	0.466807	0.910494	REACTOME_SIALIC_ACID_I	-1.21586	0.230948	0.76122	REACTOME_SIALIC_ACID_I	-1.09008	0.368413	1
REACTOME_RNA_POLYM	-0.96949	0.483071	0.911129	REACTOME_RNA_POLYME	-1.42056	0.070237	0.577152	REACTOME_RNA_POLYME	-1.02713	0.432292	1
REACTOME_MITOTIC_PI	-0.97093	0.496082	0.912818	REACTOME_MITOTIC_PRO	-0.95312	0.531219	1	REACTOME_MITOTIC_PRO	-0.75754	0.839111	1
WP_DRAVET_SYNDROM	-0.94181	0.556138	0.912858	WP_DRAVET_SYNDROME	-1.5521	0.013455	0.633422	WP_DRAVET_SYNDROME	-1.05008	0.391047	1
BIOCARTA_FMLP_PATH	-0.97293	0.490489	0.912941	BIOCARTA_FMLP_PATHW	0.612017	0.927079	1	BIOCARTA_FMLP_PATHW	-0.88761	0.616432	1
REACTOME_TP53_REGU	-0.95277	0.528539	0.914472	REACTOME_TP53_REGULA	-0.82412	0.774942	1	REACTOME_TP53_REGULA	-0.67272	0.932674	1
REACTOME_RUNX1_REC	1.175042	0.214208	0.916774	REACTOME_RUNX1_REGU	0.924111	0.560772	0.984318	REACTOME_RUNX1_REGU	1.143391	0.220972	1
REACTOME_GLYOXYLAT	-0.93517	0.530956	0.921447	REACTOME_GLYOXYLATE	-0.90387	0.591671	1	REACTOME_GLYOXYLATE	-0.78937	0.753068	1
REACTOME_PURINE_CA	1.169238	0.275384	0.923323	REACTOME_PURINE_CATA	0.732195	0.799163	1	REACTOME_PURINE_CATA	1.007488	0.436578	1
REACTOME_PCP_CE_PA	1.166725	0.217774	0.924975	REACTOME_PCP_CE_PATH	0.993439	0.454806	0.921019	REACTOME_PCP_CE_PATH	0.748586	0.926144	1
REACTOME_SIGNALING	-0.88796	0.798184	0.926081	REACTOME_SIGNALING_B	-0.82732	0.926713	1	REACTOME_SIGNALING_B	-1.00609	0.466495	1
WP_APOPTOSIS	-0.93123	0.546743	0.927358	WP_APOPTOSIS	-0.86861	0.654636	1	WP_APOPTOSIS	-0.83555	0.710393	1
REACTOME_RAB_GEF	-0.92684	0.584165	0.92903	REACTOME_RAB_GEF	-1.15252	0.22337	0.807147	REACTOME_RAB_GEF	-0.87069	0.680623	1
REACTOME_TNFR1_INDI	-0.89777	0.586073	0.930616	REACTOME_TNFR1_INDU	-0.61535	0.948454	1	REACTOME_TNFR1_INDU	-0.78943	0.746494	1
REACTOME_CARGO_REC	-0.8899	0.660581	0.930979	REACTOME_CARGO_REC	0.666938	0.963496	1	REACTOME_CARGO_REC	-0.66135	0.52643	1
REACTOME_TRANSCRIPT	-0.92798	0.466229	0.931319	REACTOME_TRANSCRIPTIC	-1.18619	0.117536	0.773811	REACTOME_TRANSCRIPTIC	-1.09152	0.297105	1
REACTOME_TRANSPORT	-0.88321	0.676145	0.933374	REACTOME_TRANSPORT_C	-1.00835	0.449298	0.98485	REACTOME_TRANSPORT_C	0.89115	0.697865	1
REACTOME_G_ALPHA_1	-0.89036	0.650619	0.934803	REACTOME_G_ALPHA_12	-0.92887	0.579162	1	REACTOME_G_ALPHA_12	0.89259	0.671932	1
REACTOME_RAP1_SIGN	-0.9075	0.577304	0.935203	REACTOME_RAP1_SIGNA	-0.76586	0.77027	1	REACTOME_RAP1_SIGNA	-0.66167	0.873934	1
REACTOME_CLASS_I_M	-0.90295	0.744046	0.937261	REACTOME_CLASS_I_MHC	-0.73646	0.991785	1	REACTOME_CLASS_I_MHC	-0.82559	0.844339	1
REACTOME_SIGNALING	0.966723	0.522594	0.937948	REACTOME_SIGNALING_B	1.346207	0.07867	0.683543	REACTOME_SIGNALING_B	-0.64135	0.972402	1
REACTOME_DETOKIFICA	0.967738	0.492031	0.938865	REACTOME_DETOKIFICAT	0.656213	0.907824	1	REACTOME_DETOKIFICAT	-0.74375	0.818168	1
REACTOME_VOLTAGE_C	-0.92149	0.570007	0.938966	REACTOME_VOLTAGE_GA	-1.61293	0.01773	0.77277	REACTOME_VOLTAGE_GA	-0.56163	0.967765	1
REACTOME_REGULATIO	-0.90029	0.607081	0.939288	REACTOME_REGULATION	-1.18375	0.224808	0.773731	REACTOME_REGULATION	-0.83151	0.705166	1
REACTOME_NEURONAL	-0.9194	0.710782	0.939371	REACTOME_NEURONAL_S	-1.21203	0.073782	0.755583	REACTOME_NEURONAL_S	-0.78126	0.916542	1
REACTOME_GLI3_IS_P	1.161135	0.23123	0.939378	REACTOME_GLI3_IS_PRO	1.202657	0.198427	0.840508	REACTOME_GLI3_IS_PRO	0.882445	0.668885	1
REACTOME_E3_UBIQU	0.968796	0.495546	0.939678	REACTOME_E3_UBIQUITIN	-1.20025	0.216031	0.769515	REACTOME_E3_UBIQUITIN	0.75258	0.856762	1
WP_CHEMOKINE_SIGNA	-0.90769	0.649575	0.940001	WP_CHEMOKINE_SIGNALI	-0.56469	0.9996	1	WP_CHEMOKINE_SIGNALI	-0.56828	0.997705	1
WP_G13_SIGNALING_P	0.963289	0.508336	0.940405	WP_G13_SIGNALING_PAT	1.18902	0.228419	0.828479	WP_G13_SIGNALING_PAT	0.888813	0.631789	1
REACTOME_PYRUVATE	-0.968924	0.495837	0.943391	REACTOME_PYRUVATE_M	-0.69866	0.863418	1	REACTOME_PYRUVATE_M	-0.52538	0.975528	1
REACTOME_GAP_JUNCT	-0.87512	0.624249	0.944153	REACTOME_GAP_JUNCTIO	-1.45743	0.069989	0.517301	REACTOME_GAP_JUNCTIO	0.717878	0.840542	1
REACTOME_METABOLIS	0.963299	0.525477	0.944394	REACTOME_METABOLISM	0.846153	0.756688	1	REACTOME_METABOLISM	-0.77657	0.858514	1
REACTOME_SIGNALING	1.157554	0.202102	0.945602	REACTOME_SIGNALING_B	-0.82039	0.844565	1	REACTOME_SIGNALING_B	-0.998	0.473621	1
REACTOME_ARACHIDON	0.969298	0.499443	0.94637	REACTOME_ARACHIDONIC	1.189848	0.242779	0.83367	REACTOME_ARACHIDONIC	1.047133	0.382465	1
REACTOME_CELL_DEATH	0.956952	0.518632	0.947701	REACTOME_CELL_DEATH	0.592337	0.981672	1	REACTOME_CELL_DEATH	0.855604	0.728357	1
REACTOME_EPHB_MEDI	0.919392	0.572613	0.947742	REACTOME_EPHB_MEDIAT	0.677156	0.904067	1	REACTOME_EPHB_MEDIAT	1.095049	0.301779	1
WP_SPINAL_CORD_INJ	0.974037	0.492651	0.948314	WP_SPINAL_CORD_INJURY	1.000947	0.433861	0.917573	WP_SPINAL_CORD_INJURY	0.912937	0.601193	1
REACTOME_SIGNALING	0.969966	0.492821	0.948437	REACTOME_SIGNALING_B	0.719784	0.822673	1	REACTOME_SIGNALING_B	0.7284	0.837001	1
REACTOME_FATTY_ACY	0.924266	0.5582	0.948505	REACTOME_FATTY_ACYL_C	-0.83812	0.698024	1	REACTOME_FATTY_ACYL_C	-0.99055	0.477812	1
REACTOME_TCF_DEPEN	0.971205	0.504536	0.948778	REACTOME_TCF_DEPENDE	0.868768	0.717439	1	REACTOME_TCF_DEPENDE	-0.87339	0.693927	1
REACTOME_STIMULI_SE	-0.90816	0.596314	0.949524	REACTOME_STIMULI_SENS	-0.73228	0.888975	1	REACTOME_STIMULI_SENS	-0.82332	0.738196	1
WP_MECP2_AND ASSO	0.990008	0.470272	0.949621	WP_MECP2_AND_ASSOCI	0.996053	0.449803	0.922715	WP_MECP2_AND_ASSOCI	-1.09798	0.349692	1
REACTOME_CARGO_TRA	0.995352	0.456718	0.950318	REACTOME_CARGO_TRAFI	0.729834	0.841139	1	REACTOME_CARGO_TRAFI	-0.68009	0.891904	1
REACTOME_HEDGEHOG	0.998165	0.453306	0.950364	REACTOME_HEDGEHOG_L	1.008825	0.427359	0.908312	REACTOME_HEDGEHOG_L	1.022935	0.396565	1
REACTOME_NUCLEAR_E	1.00228	0.452575	0.95083	REACTOME_NUCLEAR_EVE	1.137986	0.27118	0.893734	REACTOME_NUCLEAR_EVE	-0.83418	0.721936	1
REACTOME_G1_S_TRAN	0.971873	0.5	0.950874	REACTOME_G1_S_TRANSI	0.65096	0.965269	1	REACTOME_G1_S_TRANSI	0.733728	0.936903	1
REACTOME_ANCHORINC	-0.85203	0.707257	0.951757	REACTOME_ANCHORING_I	-0.90094	0.624364	1	REACTOME_ANCHORING_I	-0.79799	0.711174	1
WP_OXIDATIVE_DAMAG	0.924386	0.558227	0.951772	WP_OXIDATIVE_DAMAGE	1.054906	0.374342	0.874446	WP_OXIDATIVE_DAMAGE	0.897218	0.608056	1
WP_MITOCHONDRIAL_L	0.987897	0.476109	0.95198	WP_MITOCHONDRIAL_LO	0.499353	0.98147	1	WP_MITOCHONDRIAL_LO	-0.53066	0.968192	1
REACTOME_CELLULAR_I	0.921731	0.694508	0.952017	REACTOME_CELLULAR_RE	-0.90295	0.786252	1	REACTOME_CELLULAR_RE	-1.0387	0.391816	1
REACTOME_GPER1_SIG	-0.85593	0.658116	0.952128	REACTOME_GPER1_SIGNA	-1.03277	0.410755	0.941561	REACTOME_GPER1_SIGNA	-0.67894	0.87988	1
REACTOME_REGULATIO	0.990516	0.461496	0.952472	REACTOME_REGULATION	1.06138	0.361785	0.875901	REACTOME_REGULATION	-0.85422	0.687754	1
REACTOME_METABOLIS	0.94231	0.530682	0.952477	REACTOME_METABOLISM	-1.05091	0.402034	0.949573	REACTOME_METABOLISM	-0.62801	0.909978	1
REACTOME_SCF_SKP2_I	0.957909	0.513139	0.95279	REACTOME_SCF_SKP2_ME	0.904574	0.587889	1	REACTOME_SCF_SKP2_ME	-0.51411	0.995615	1
REACTOME_PEPTIDE_H	0.976676	0.483729	0.952805	REACTOME_PEPTIDE_HOR	1.294068	0.156891	0.737803	REACTOME_PEPTIDE_HOF	1.279599	0.137455	1
REACTOME_ADAPTIVE_I	0.930372	0.685092	0.953059	REACTOME_ADAPTIVE_IM	0.905975	0.760181	0.984085	REACTOME_ADAPTIVE_IM	-0.77432	0.953448	1
WP_FACTORS_AND PAT	0.920033	0.562217	0.953145	WP_FACTORS_AND_PATH	1.063472	0.369942	0.874909	WP_FACTORS_AND_PATH	0.715977	0.863326	1
WP_PURINE_METABOLI	0.953801	0.542903	0.953268	WP_PURINE_METABOLISM	-0.67691	0.988119	1	WP_PURINE_METABOLISM	1.024195	0.392275	1
REACTOME_RHOC_GTP	0.916051	0.589571	0.953556	REACTOME_RHOC_GTPASI	1.065198	0.344968	0.880648	REACTOME_RHOC_GTPAS	-0.83495	0.72788	1

BIOCARTA_BAD_PATHW	0.974961	0.484256	0.953906	BIOCARTA_BAD_PATHWAY	0.656678	0.883932	1	BIOCARTA_BAD_PATHWA	1.101857	0.324693	1
REACTOME_TRANSCRIPTI	0.909448	0.605093	0.954202	REACTOME_TRANSCRIPTIC	0.964069	0.496702	0.938761	REACTOME_TRANSCRIPTII	-0.79286	0.782406	1
REACTOME_MITOTIC_G	0.980335	0.486364	0.954272	REACTOME_MITOTIC_G1_	-0.68585	0.961801	1	REACTOME_MITOTIC_G1_	0.732848	0.94536	1
REACTOME_DAP12_INTI	1.002624	0.453218	0.954333	REACTOME_DAP12_INTER.	0.816655	0.678774	1	REACTOME_DAP12_INTEF	-0.63808	0.900189	1
REACTOME_SYNTHESIS_	0.935127	0.542216	0.95438	REACTOME_SYNTHESIS_OI	0.538252	0.976341	1	REACTOME_SYNTHESIS_O	0.862086	0.650807	1
REACTOME_ORC1_REMO	0.998177	0.454997	0.954937	REACTOME_ORC1_REMOV	1.030129	0.395775	0.88803	REACTOME_ORC1_REMO	0.834553	0.758919	1
REACTOME_COPII_MED	0.98146	0.487027	0.95508	REACTOME_COPII_MEDIAI	-0.89466	0.64337	1	REACTOME_COPII_MEDIA	1.297888	0.088567	1
REACTOME_INTRA_GOL	0.910364	0.660021	0.955131	REACTOME_INTRA_GOLGI	1.133593	0.223578	0.879283	REACTOME_INTRA_GOLG	0.905007	0.732919	1
REACTOME_TRANSPORT	0.942701	0.530507	0.955173	REACTOME_TRANSPORT_C	-0.74051	0.8117	1	REACTOME_TRANSPORT_	-0.99563	0.47696	1
REACTOME_UNBLOCKIN	-0.85868	0.646707	0.955178	REACTOME_UNBLOCKING_	-1.14833	0.284366	0.813828	REACTOME_UNBLOCKING	-0.61772	0.922058	1
REACTOME_CELLULAR_I	0.912914	0.595544	0.955182	REACTOME_CELLULAR_REI	1.058893	0.354193	0.872816	REACTOME_CELLULAR_RE	-0.73	0.867554	1
REACTOME_ION_TRANS	0.925687	0.559172	0.955407	REACTOME_ION_TRANSPC	-0.95363	0.529849	1	REACTOME_ION_TRANSPI	0.71538	0.898435	1
REACTOME_P75_NTR_R	0.977147	0.487161	0.955636	REACTOME_P75_NTR_REC	0.715125	0.903725	1	REACTOME_P75_NTR_REI	-0.64767	0.953951	1
REACTOME_STABILIZATI	0.932042	0.5544	0.955784	REACTOME_STABILIZATION	0.99215	0.446929	0.920075	REACTOME_STABILIZATIO	1.078672	0.327147	1
WP_FATTY_ACID_BETAC	0.930546	0.555227	0.956294	WP_FATTY_ACID_BETAOXI	0.647958	0.925972	1	WP_FATTY_ACID_BETAOX	-0.77259	0.783936	1
REACTOME_CHONDROIT	0.978319	0.487112	0.956324	REACTOME_CHONDROITIN	0.744257	0.811852	1	REACTOME_CHONDROITII	-0.92649	0.569859	1
REACTOME_CLASS_I_PE	0.91113	0.576329	0.956553	REACTOME_CLASS_I_PERC	1.116369	0.314095	0.908934	REACTOME_CLASS_I_PERI	0.968376	0.49322	1
REACTOME_BETA_CATE	0.944868	0.548263	0.956585	REACTOME_BETA_CATENII	0.730049	0.926902	1	REACTOME_BETA_CATEN	-0.50274	0.999507	1
REACTOME_TRANS_GOI	0.905913	0.620665	0.956956	REACTOME_TRANS_GOLGI	0.781536	0.824497	1	REACTOME_TRANS_GOLG	-1.0279	0.420018	1
REACTOME_DOWNSTRE	0.927728	0.577614	0.957014	REACTOME_DOWNSTREAM	1.225042	0.169068	0.799762	REACTOME_DOWNSTREA	0.857249	0.752915	1
WP_ALPHA_6_BETA_4_I	0.935484	0.548778	0.957166	WP_ALPHA_6_BETA_4_INI	1.579593	0.028274	0.35946	WP_ALPHA_6_BETA_4_IN	1.218336	0.161168	1
REACTOME_INTERLEUKI	-0.85979	0.648997	0.957439	REACTOME_INTERLEUKIN	0.841243	0.653137	1	REACTOME_INTERLEUKIN	-0.86611	0.645222	1
REACTOME_METABOLIS	0.949815	0.543177	0.95747	REACTOME_METABOLISM	-0.71299	0.939654	1	REACTOME_METABOLISM	1.026769	0.394652	1
REACTOME_A_TETRASA	1.003099	0.446686	0.957518	REACTOME_A_TETRASACC	1.09907	0.334244	0.885347	REACTOME_A_TETRASACI	-0.87824	0.62171	1
BIOCARTA_CREB_PATHW	0.998776	0.455023	0.957648	BIOCARTA_CREB_PATHWA	-0.78158	0.767304	1	BIOCARTA_CREB_PATHW/	1.026522	0.412948	1
WP_MICRORNAS_IN_CA	1.152518	0.234116	0.957839	WP_MICRORNAS_IN_CAR	1.576254	0.024006	0.356673	WP_MICRORNAS_IN_CAR	0.835664	0.777687	1
REACTOME_DECTIN_1_I	0.906844	0.606974	0.957926	REACTOME_DECTIN_1_ME	1.10682	0.297585	0.879279	REACTOME_DECTIN_1_M	0.975673	0.488012	1
REACTOME_ACTIVATION	1.021804	0.406125	0.957979	REACTOME_ACTIVATION_I	1.228094	0.170107	0.807006	REACTOME_ACTIVATION_	1.221364	0.138215	1
REACTOME_G1_S_DNA	0.948285	0.534446	0.958119	REACTOME_G1_S_DNA_D	0.887864	0.629078	1	REACTOME_G1_S_DNA_D	0.855502	0.72693	1
REACTOME_MITOTIC_G	0.925918	0.615531	0.95842	REACTOME_MITOTIC_G2_	0.88028	0.701248	1	REACTOME_MITOTIC_G2_	1.113288	0.205128	1
REACTOME_SPHINGOLIP	0.945511	0.537792	0.958594	REACTOME_SPHINGOLIPID	1.208133	0.189195	0.83942	REACTOME_SPHINGOLIPII	0.954331	0.529935	1
REACTOME_KEAP1_NFE	0.981724	0.483246	0.958653	REACTOME_KEAP1_NFE2L	1.095906	0.308283	0.882945	REACTOME_KEAP1_NFE2I	-0.7167	0.897755	1
REACTOME_SEPARATIO	0.942791	0.573853	0.95879	REACTOME_SEPARATION_	1.0281	0.382899	0.884196	REACTOME_SEPARATION	1.075601	0.274118	1
REACTOME_FATTY_ACID	0.938751	0.572259	0.959115	REACTOME_FATTY_ACID_I	0.851944	0.735926	1	REACTOME_FATTY_ACID_	-0.56281	0.996136	1
WP_GLYCEROLIPIDS_AN	0.93211	0.542766	0.959348	WP_GLYCEROLIPIDS_AND	0.701049	0.852632	1	WP_GLYCEROLIPIDS_AND	-0.99848	0.472684	1
WP_ADIPOGENESIS_GEN	1.145939	0.251365	0.959657	WP_ADIPOGENESIS_GENE/	1.106852	0.301623	0.885738	WP_ADIPOGENESIS_GENE	-0.88993	0.634306	1
WP_MYOMETRIAL_REL	1.00812	0.428319	0.959822	WP_MYOMETRIAL_RELAX/	1.061257	0.336712	0.870849	WP_MYOMETRIAL_RELAX	-0.80289	0.815681	1
REACTOME_METABOLIS	0.935737	0.603898	0.960247	REACTOME_METABOLISM	-0.84556	0.827276	1	REACTOME_METABOLISM	-1.03855	0.399683	1
REACTOME_OVARIAN_T	0.93692	0.543391	0.960646	REACTOME_OVARIAN_TUI	0.694877	0.843262	1	REACTOME_OVARIAN_TU	0.762242	0.794225	1
REACTOME_CYCLIN_A_C	1.003467	0.440145	0.96104	REACTOME_CYCLIN_A_CD	0.729785	0.877979	1	REACTOME_CYCLIN_A_CC	-0.49991	0.960623	1
REACTOME_GLUCOSE_M	1.006323	0.435205	0.961074	REACTOME_GLUCOSE_ME	0.915143	0.578492	0.983941	REACTOME_GLUCOSE_ME	-0.81935	0.760383	1
REACTOME_AUF1_HNR	1.009077	0.435775	0.961467	REACTOME_AUF1_HNRNP	1.133669	0.269896	0.88631	REACTOME_AUF1_HNRNF	0.884124	0.661094	1
REACTOME_CYTOKINE_	-0.85981	0.841592	0.962296	REACTOME_CYTOKINE_SIG	0.912458	0.667577	0.982967	REACTOME_CYTOKINE_SII	-0.73222	0.949573	1
REACTOME_NEUROTRAI	-0.82858	0.828143	0.962304	REACTOME_NEUROTRANS	-0.96645	0.522041	1	REACTOME_NEUROTRAN/	-0.73513	0.910865	1
REACTOME_DEUBIQUITI	0.945554	0.580417	0.96241	REACTOME_DEUBIQUITIN/	0.83603	0.813903	1	REACTOME_DEUBIQUITIN	-0.6875	0.970295	1
REACTOME_EFFECTS_OF	1.147194	0.285796	0.962851	REACTOME_EFFECTS_OF_I	-0.75669	0.800345	1	REACTOME_EFFECTS_OF_	-0.91734	0.572516	1
REACTOME_CELLULAR_I	1.004306	0.439328	0.963044	REACTOME_CELLULAR_REI	-0.86653	0.76861	1	REACTOME_CELLULAR_RE	-1.09389	0.313869	1
WP_WNT_SIGNALING_P	-0.86355	0.660261	0.963122	WP_WNT_SIGNALING_PA	-0.90158	0.605691	1	WP_WNT_SIGNALING_PA	-0.79413	0.75058	1
WP_OXIDATIVE_PHOSPH	-0.8297	0.722562	0.964467	WP_OXIDATIVE_PHOSPHO	-1.25623	0.156701	0.718248	WP_OXIDATIVE_PHOSPHC	-0.81367	0.740088	1
REACTOME_TCR_SIGNAI	0.901871	0.63331	0.964523	REACTOME_TCR_SIGNALIN	1.233041	0.153502	0.799403	REACTOME_TCR_SIGNALII	0.934673	0.587783	1
REACTOME_SIGNALING_	-0.8444	0.692291	0.964662	REACTOME_SIGNALING_B/	-0.93306	0.553861	1	REACTOME_SIGNALING_B	-0.72661	0.836841	1
BIOCARTA_BARRESTIN_	0.899105	0.590658	0.965008	BIOCARTA_BARRESTIN_SRI	-0.88724	0.610347	1	BIOCARTA_BARRESTIN_SF	1.009849	0.430888	1
REACTOME_TRANSPORT	-0.83111	0.719518	0.96609	REACTOME_TRANSPORT_C	-0.80447	0.762261	1	REACTOME_TRANSPORT_	-1.0067	0.458694	1
REACTOME_ENERGY_DE	-0.82231	0.722564	0.966411	REACTOME_ENERGY_DEPE	0.748437	0.800625	1	REACTOME_ENERGY_DEP	0.79881	0.787255	1
REACTOME_CLEC7A_DE	1.013408	0.425536	0.966641	REACTOME_CLEC7A_DECT	1.119387	0.271719	0.905925	REACTOME_CLEC7A_DECI	0.869408	0.740655	1
REACTOME_RAB_REGUL	-0.8638	0.735638	0.967498	REACTOME_RAB_REGULA/	-1.05026	0.362686	0.936924	REACTOME_RAB_REGULA	-0.69554	0.940276	1
REACTOME_NRAGE_SIN	0.899419	0.609064	0.967636	REACTOME_NRAGE_SIGNA	0.501236	0.994066	1	REACTOME_NRAGE_SIGN	-0.81729	0.728633	1
REACTOME_SULFUR_AM	1.023341	0.428816	0.968049	REACTOME_SULFUR_AMIN	1.115881	0.314031	0.903409	REACTOME_SULFUR_AMI	1.162183	0.254693	1
REACTOME_EPH_EPHRII	1.011452	0.433064	0.968292	REACTOME_EPH_EPHRIN	0.565282	0.991154	1	REACTOME_EPH_EPHRIN	0.815535	0.804564	1
REACTOME_TRANSMISS	-0.81475	0.903632	0.968438	REACTOME_TRANSMISSIO	-1.08073	0.28161	0.888882	REACTOME_TRANSMISSIC	-0.86822	0.741024	1
REACTOME_TNF_SIGNAI	-0.82316	0.748277	0.96919	REACTOME_TNF_SIGNALIN	-1.1016	0.308584	0.867798	REACTOME_TNF_SIGNALI	-0.92703	0.575812	1
REACTOME_PROCESSING	-0.838	0.692025	0.969612	REACTOME_PROCESSING_	-1.1969	0.23071	0.753998	REACTOME_PROCESSING_	-0.74088	0.814705	1
REACTOME_GABA_RECE	-0.84002	0.722838	0.969795	REACTOME_GABA_RECEPT	-0.8979	0.619121	1	REACTOME_GABA_RECEP	-0.83572	0.709431	1
BIOCARTA_CHEMICAL_P	-0.81163	0.715032	0.970144	BIOCARTA_CHEMICAL_PAT	-0.74918	0.802652	1	BIOCARTA_CHEMICAL_PA	0.843373	0.67456	1
REACTOME_REGULATED	1.00939	0.442441	0.970253	REACTOME_REGULATED_I	1.029632	0.404457	0.884529	REACTOME_REGULATED_	0.988513	0.462236	1
REACTOME_UBIQUITIN_	1.013678	0.4275	0.970699	REACTOME_UBIQUITIN_M	1.150475	0.259221	0.889338	REACTOME_UBIQUITIN_N	1.141135	0.23399	1
REACTOME_SIGNALING_	0.887885	0.668544	0.970735	REACTOME_SIGNALING_B/	0.86585	0.692958	1	REACTOME_SIGNALING_B	0.782065	0.902332	1
REACTOME_TRAFFICKIN	1.016417	0.434019	0.971437	REACTOME_TRAFFICKING_	-0.81206	0.741412	1	REACTOME_TRAFFICKING	-0.57277	0.964987	1
WP_GLYCOLYSIS_AND_C	1.014856	0.431114	0.97168	WP_GLYCOLYSIS_AND_GLI	-0.82203	0.735294	1	WP_GLYCOLYSIS_AND_GL	-0.80445	0.746252	1
REACTOME_METABOLIS	1.134753	0.271832	0.972562	REACTOME_METABOLISM	1.202505	0.214801	0.824019	REACTOME_METABOLISM	1.248348	0.136936	1
REACTOME_APC_C_CDH	1.023492	0.411359	0.972711	REACTOME_APC_C_CDHII	1.251862	0.159533	0.782371	REACTOME_APC_C_CDHI	1.269724	0.109701	1
REACTOME_PROTEIN_L	0.884258	0.67532	0.973356	REACTOME_PROTEIN_LOC	0.995169	0.44258	0.920626	REACTOME_PROTEIN_LOC	1.00597	0.426972	1
REACTOME_GLUCAGON	-0.83204	0.703118	0.973423	REACTOME_GLUCAGON_L	-1.51407	0.040488	0.531737	REACTOME_GLUCAGON_I	0.821382	0.725191	1
WP_ERBB_SIGNALING_F	0.888145	0.608973	0.973485	WP_ERBB_SIGNALING_PA/	-0.87374	0.648208	1	WP_ERBB_SIGNALING_PA	-1.01534	0.449743	1
REACTOME_SIGNALING	1.126576	0.276052	0.973692	REACTOME_SIGNALING_B/	1.695924	0.0102	0.253623	REACTOME_SIGNALING_B	-1.00788	0.458084	1
REACTOME_RHO_GTPAS	0.889297	0.610643	0.973915	REACTOME_RHO_GTPASE/	-0.66568	0.911279	1	REACTOME_RHO_GTPASE	0.754147	0.830769	1
BIOCARTA_HDAC_PATH/	1.124533	0.312819	0.974008	BIOCARTA_HDAC_PATHW/	0.601937	0.929926	1	BIOCARTA_HDAC_PATHW	-0.64658	0.901296	1
BIOCARTA_RHO_PATHW	1.132182	0.305392	0.974913	BIOCARTA_RHO_PATHWA/	1.384454	0.127646	0.629449	BIOCARTA_RHO_PATHWA	-0.59319	0.93664	1
REACTOME_THE_CITRIC	0.884587	0.71463	0.975895	REACTOME_THE_CITRIC_A	-0.92339	0.641252	1	REACTOME_THE_CITRIC_	-0.64769	0.987544	1
REACTOME_IRON_UPTA	0.889809	0.616645	0.976014	REACTOME_IRON_UPTAKE	0.569478	0.973777	1	REACTOME_IRON_UPTAK	-0.57692	0.973112	1
REACTOME_GLYCOSAMI	0.892126	0.639547	0.976796	REACTOME_GLYCOSAMIN/	0.7916	0.787873	1	REACTOME_GLYCOSAMIN	-0.75903	0.828314	1
BIOCARTA_RACCYCD_PA	1.028322	0.416442	0.977055	BIOCARTA_RACCYCD_PAT/	-0.6252	0.932657	1	BIOCARTA_RACCYCD_PAT	0.735263	0.825235	1
REACTOME_SEALING_OI	0.881498	0.622084	0.97711	REACTOME_SEALING_OF_	-0.8269	0.712279	1	REACTOME_SEALING_OF	0.834956	0.711091	1
REACTOME_MITOTIC_SF	0.875845	0.671728	0.978088	REACTOME_MITOTIC_SPIN	1.16152	0.233808	0.866882	REACTOME_MITOTIC_SPII	1.098349	0.270282	1



REACTOME_PROGRAMM	0.890266	0.686386	0.978237	REACTOME_PROGRAMME	0.761102	0.883418	1	REACTOME_PROGRAMME	1.091823	0.258804	1
REACTOME_ANTIGEN_A	0.878387	0.627083	0.978356	REACTOME_ANTIGEN_ACT	-0.94513	0.529434	1	REACTOME_ANTIGEN_AC	-1.08641	0.361759	1
REACTOME_RHOA_GTP	0.876947	0.705965	0.978655	REACTOME_RHOA_GTPASI	1.175255	0.189124	0.843339	REACTOME_RHOA_GTPAS	-0.90543	0.64598	1
REACTOME_NUCLEOTID	0.892608	0.605993	0.978979	REACTOME_NUCLEOTIDE	0.76304	0.774012	1	REACTOME_NUCLEOTIDE	1.154805	0.249534	1
WP_INTEGRINMEDIATEE	1.119362	0.261519	0.979356	WP_INTEGRINMEDIATED	1.345623	0.085958	0.674856	WP_INTEGRINMEDIATED	0.775426	0.912197	1
REACTOME_METABOLIS	1.13504	0.242506	0.97953	REACTOME_METABOLISM	0.934197	0.550669	0.968388	REACTOME_METABOLISM	-0.57462	0.992205	1
REACTOME_AZATHIOPR	-0.80441	0.723664	0.979801	REACTOME_AZATHIOPRIN	0.686468	0.860657	1	REACTOME_AZATHIOPRIN	-0.98449	0.497127	1
REACTOME_COPI_DEPEI	0.871031	0.690425	0.980125	REACTOME_COPI_DEPEND	0.756663	0.870307	1	REACTOME_COPI_DEPENI	-0.86714	0.681762	1
WP_SIDS_SUSCEPTIBILIT	1.028966	0.41308	0.980169	WP_SIDS_SUSCEPTIBILITY	0.976474	0.481118	0.938865	WP_SIDS_SUSCEPTIBILITY	-1.04489	0.415964	1
BIOCARTA_EDG1_PATHW	1.030304	0.415657	0.980766	BIOCARTA_EDG1_PATHWAY	-0.59042	0.953205	1	BIOCARTA_EDG1_PATHW	0.760899	0.788462	1
WP_MAPK_CASCADE	0.873179	0.63916	0.981363	WP_MAPK_CASCADE	1.451785	0.086665	0.533331	WP_MAPK_CASCADE	-0.91139	0.582806	1
WP_INSULIN_SIGNALING	-0.79598	0.904797	0.982237	WP_INSULIN_SIGNALING	1.293065	0.082104	0.731247	WP_INSULIN_SIGNALING	-0.62837	0.989673	1
WP_GLYCOGEN_METAB	1.023797	0.418583	0.982271	WP_GLYCOGEN_METABOL	0.686829	0.873561	1	WP_GLYCOGEN_METABO	1.253929	0.158921	1
REACTOME_SIGNALING	1.112862	0.316633	0.982404	REACTOME_SIGNALING_B	0.419237	0.996022	1	REACTOME_SIGNALING_B	0.927667	0.551044	1
REACTOME_REGULATIO	1.128317	0.273402	0.982601	REACTOME_REGULATION	1.098385	0.303875	0.881184	REACTOME_REGULATION	1.085638	0.288813	1
WP_MAPK_SIGNALING_P	-0.80049	0.875524	0.9828	WP_MAPK_SIGNALING_PA	1.00745	0.423853	0.907575	WP_MAPK_SIGNALING_P	-1.09445	0.313527	1
REACTOME_DEGRADATI	1.138144	0.254783	0.983375	REACTOME_DEGRADATIO	1.072752	0.338178	0.873636	REACTOME_DEGRADATIO	0.983695	0.469244	1
BIOCARTA_NOS1_PATHW	-0.7698	0.771015	0.983664	BIOCARTA_NOS1_PATHWAY	-1.47918	0.064316	0.498456	BIOCARTA_NOS1_PATHW	-0.66582	0.881934	1
REACTOME_DEATH_REC	1.035664	0.38819	0.98372	REACTOME_DEATH_RECEP	-0.78283	0.888756	1	REACTOME_DEATH_RECE	-0.8124	0.795066	1
WP_SIGNAL_TRANSDUC	-0.79758	0.73085	0.983759	WP_SIGNAL_TRANSDUCTIO	-0.77305	0.760935	1	WP_SIGNAL_TRANSDUCTI	-1.07765	0.379599	1
BIOCARTA_IGF1R_PATH	1.108627	0.31946	0.984306	BIOCARTA_IGF1R_PATHW	0.687317	0.859798	1	BIOCARTA_IGF1R_PATHW	0.901165	0.589	1
REACTOME_RHOBTB1_C	1.041673	0.402083	0.984749	REACTOME_RHOBTB1_GTI	0.955824	0.496676	0.949589	REACTOME_RHOBTB1_GT	-0.78901	0.744991	1
REACTOME_CARBOXYTER	1.032296	0.421142	0.98478	REACTOME_CARBOXYTER	-0.81855	0.707854	1	REACTOME_CARBOXYTER	1.144907	0.285903	1
REACTOME_CTLA4_INHI	1.030525	0.41314	0.985501	REACTOME_CTLA4_INHIBI	0.770441	0.75557	1	REACTOME_CTLA4_INHIB	1.139931	0.27622	1
REACTOME_SIGNALING	1.033625	0.412307	0.985601	REACTOME_SIGNALING_B	0.688258	0.862683	1	REACTOME_SIGNALING_B	1.088966	0.332163	1
REACTOME_RHO_GTPAS	1.119678	0.257479	0.985891	REACTOME_RHO_GTPASE	0.826275	0.57302	0.982482	REACTOME_RHO_GTPASE	1.026938	0.395243	1
REACTOME_PTEN_REGU	-0.79146	0.865252	0.986006	REACTOME_PTEN_REGULA	0.80491	0.81339	1	REACTOME_PTEN_REGUL	-0.53136	0.998646	1
REACTOME_MTORC1_M	-0.7707	0.785111	0.986531	REACTOME_MTORC1_MEI	0.964289	0.487672	0.94266	REACTOME_MTORC1_ME	1.159547	0.256993	1
REACTOME_HEPARAN_S	1.109907	0.319165	0.986745	REACTOME_HEPARAN_SUI	1.038139	0.390364	0.878943	REACTOME_HEPARAN_SU	0.717842	0.884116	1
REACTOME_PHOSPHOLI	1.023862	0.402418	0.987417	REACTOME_PHOSPHOLIPI	0.847107	0.781244	1	REACTOME_PHOSPHOLIPI	1.031233	0.370203	1
REACTOME_POSTMITOT	-0.78557	0.760163	0.987673	REACTOME_POSTMITOTIC	-1.01896	0.437757	0.968853	REACTOME_POSTMITOTIC	-1.1065	0.337183	1
BIOCARTA_PTEN_PATHW	1.036061	0.415644	0.987915	BIOCARTA_PTEN_PATHWAY	0.738659	0.7883	1	BIOCARTA_PTEN_PATHW	-0.98298	0.495346	1
REACTOME_MRNA_CAP	0.865508	0.642209	0.98823	REACTOME_MRNA_CAPPII	-0.70177	0.867038	1	REACTOME_MRNA_CAPPI	0.721747	0.858914	1
WP_ONECARBON_METAB	-0.77719	0.808649	0.988794	WP_ONECARBON_METABO	0.969569	0.473214	0.936117	WP_ONECARBON_METAB	-0.74908	0.819913	1
WP_PPAR_SIGNALING_F	1.038916	0.396	0.988954	WP_PPAR_SIGNALING_PA	1.149039	0.266749	0.878768	WP_PPAR_SIGNALING_PA	0.889813	0.643948	1
REACTOME_EXTRA_NUC	1.04186	0.386519	0.989873	REACTOME_EXTRA_NUCLE	0.714513	0.882026	1	REACTOME_EXTRA_NUCL	0.789883	0.833273	1
REACTOME_HATS_ACET	-0.77091	0.771875	0.990534	REACTOME_HATS_ACETYI	0.741888	0.783043	1	REACTOME_HATS_ACETYI	-1.10836	0.344979	1
BIOCARTA_BIOPEPTIDES	1.036837	0.401046	0.990782	BIOCARTA_BIOPEPTIDES_P	1.424508	0.092414	0.565906	BIOCARTA_BIOPEPTIDES	1.087594	0.327879	1
REACTOME_CARDIAC_C	-0.77857	0.847124	0.990816	REACTOME_CARDIAC_CON	-1.16669	0.210856	0.817092	REACTOME_CARDIAC_CO	-0.82123	0.755962	1
REACTOME_DEADENYLA	-0.76225	0.79373	0.99119	REACTOME_DEADENYLATI	0.539771	0.976093	1	REACTOME_DEADENYLAT	-0.62569	0.932014	1
REACTOME_IRS_MEDIAT	-0.77313	0.773124	0.991219	REACTOME_IRS_MEDIATEI	-0.65965	0.900747	1	REACTOME_IRS_MEDIATE	-0.64341	0.905935	1
REACTOME_GLYCEROPH	1.095725	0.302707	0.991639	REACTOME_GLYCEROPHO	0.850576	0.717448	1	REACTOME_GLYCEROPHC	0.915352	0.641001	1
REACTOME_PINK1_PRKI	0.86222	0.636449	0.99191	REACTOME_PINK1_PRKN	0.653652	0.88151	1	REACTOME_PINK1_PRKN	-0.55802	0.960671	1
REACTOME_SENESCENCE	1.042746	0.403634	0.992484	REACTOME_SENESCENCE	-0.76207	0.801025	1	REACTOME_SENESCENCE	1.151517	0.254879	1
WP_AMINO_ACID_METAB	0.85595	0.713445	0.993855	WP_AMINO_ACID_METAB	0.596457	0.990746	1	WP_AMINO_ACID_METAB	-0.65376	0.960954	1
REACTOME_RHOQ_GTP	1.092869	0.319631	0.995628	REACTOME_RHOQ_GTPAS	1.3282	0.116966	0.698982	REACTOME_RHOQ_GTPAS	-0.72487	0.867914	1
REACTOME_CD28_CO_S	1.090975	0.340122	0.995929	REACTOME_CD28_CO_STII	0.701385	0.853886	1	REACTOME_CD28_CO_STI	1.155326	0.253198	1
REACTOME_MAJOR_PATH	1.096291	0.268584	0.996661	REACTOME_MAJOR_PATHW	1.095366	0.273321	0.878389	REACTOME_MAJOR_PATH	-1.06853	0.34865	1
WP_TCA_CYCLE	0.462095	0.997423	0.996845	WP_TCA_CYCLE	-1.02639	0.418825	0.956913	WP_TCA_CYCLE	-0.59122	0.958968	1
REACTOME_INTERCONV	1.06122	0.385376	0.996947	REACTOME_INTERCONVER	-0.9436	0.530883	1	REACTOME_INTERCONVEI	-0.8513	0.658487	1
REACTOME_MITOPHAG	0.856022	0.658632	0.996975	REACTOME_MITOPHAGY	0.592439	0.952689	1	REACTOME_MITOPHAGY	-0.51754	0.981802	1
REACTOME_RHO_GTPAS	1.101647	0.313976	0.997363	REACTOME_RHO_GTPASE	0.983328	0.47284	0.932368	REACTOME_RHO_GTPASE	-0.72264	0.850463	1
REACTOME_SWITCHING	1.062797	0.350476	0.997427	REACTOME_SWITCHING_C	1.197755	0.204217	0.815404	REACTOME_SWITCHING_C	1.195855	0.162117	1
REACTOME_DEGRADATI	1.103426	0.299144	0.997693	REACTOME_DEGRADATIO	1.283445	0.145931	0.734327	REACTOME_DEGRADATIO	1.143913	0.229632	1
REACTOME_REGULATIO	0.857013	0.726292	0.997916	REACTOME_REGULATION	0.81244	0.782069	1	REACTOME_REGULATION	-0.7898	0.816732	1
REACTOME_RHO_GTPAS	1.081568	0.285617	0.998052	REACTOME_RHO_GTPASE	1.298735	0.064822	0.732516	REACTOME_RHO_GTPASE	-0.9963	0.488929	1
REACTOME_NUCLEOTID	0.806835	0.741671	0.998132	REACTOME_NUCLEOTIDE	0.884882	0.597977	1	REACTOME_NUCLEOTIDE	0.856547	0.683458	1
REACTOME_ACTIVATION	0.725793	0.86554	0.998624	REACTOME_ACTIVATION_C	-0.66193	0.927997	1	REACTOME_ACTIVATION	-0.40872	0.998995	1
WP_ESC_PLURIPOTENCY	1.0976	0.304126	0.998733	WP_ESC_PLURIPOTENCY_F	0.880303	0.628158	1	WP_ESC_PLURIPOTENCY	0.806882	0.828229	1
REACTOME_FORMATIO	0.857945	0.668832	0.999031	REACTOME_FORMATIO	-1.03402	0.410128	0.944175	REACTOME_FORMATIO	0.72303	0.864865	1
REACTOME_RHOBTB2_C	1.077831	0.356895	0.999042	REACTOME_RHOBTB2_GTI	0.946256	0.512448	0.959694	REACTOME_RHOBTB2_GT	1.149355	0.262583	1
REACTOME_MITOCHON	0.46346	0.997427	0.999061	REACTOME_MITOCHONDRI	-0.9365	0.552156	1	REACTOME_MITOCHOND	-1.0141	0.44401	1
REACTOME_MAPK6_MA	0.835482	0.74504	0.999452	REACTOME_MAPK6_MAPK	1.134123	0.258723	0.892148	REACTOME_MAPK6_MAP	0.885533	0.675395	1
REACTOME_INTEGRATIC	0.832465	0.75522	0.999816	REACTOME_INTEGRATION	-0.76065	0.878664	1	REACTOME_INTEGRATION	-0.56035	0.989122	1
REACTOME_SPHINGOLIP	1.049671	0.395141	1	REACTOME_SPHINGOLIPID	1.737207	0.016383	0.224926	REACTOME_SPHINGOLIPII	1.023133	0.413555	1
REACTOME_CELL_JUNCT	0.6835	0.941091	1	REACTOME_CELL_JUNCTIC	1.673977	0.010468	0.272772	REACTOME_CELL_JUNCTIC	-0.94073	0.555156	1
REACTOME_CELL_CELL	0.726179	0.909838	1	REACTOME_CELL_CELL_CC	1.656672	0.010814	0.284438	REACTOME_CELL_CELL_C	-0.70251	0.910752	1
WP_COMPREHENSIVE_IL	1.084816	0.32201	1	WP_COMPREHENSIVE_IL1	1.539126	0.028015	0.41883	WP_COMPREHENSIVE_IL1	-0.7333	0.871882	1
BIOCARTA_RAC1_PATHW	0.841363	0.674929	1	BIOCARTA_RAC1_PATHWAY	1.483259	0.07442	0.504325	BIOCARTA_RAC1_PATHW	-0.82665	0.695356	1
REACTOME_CYCLIN_D_F	0.770026	0.769726	1	REACTOME_CYCLIN_D_AS	-1.42411	0.081936	0.581573	REACTOME_CYCLIN_D_AS	-1.07777	0.371842	1
REACTOME_RND2_GTP	1.069814	0.353335	1	REACTOME_RND2_GTPASE	1.389783	0.099461	0.635081	REACTOME_RND2_GTPAS	0.877662	0.664601	1
REACTOME_RNA_POLY	0.762363	0.852157	1	REACTOME_RNA_POLYME	-1.55694	0.017305	0.665458	REACTOME_RNA_POLYMI	-0.95657	0.534145	1
BIOCARTA_AGR_PATHW	-0.71464	0.865649	1	BIOCARTA_AGR_PATHWAY	1.335569	0.138231	0.685738	BIOCARTA_AGR_PATHWA	-0.54228	0.976879	1
REACTOME_GAP_JUNCT	0.749883	0.826233	1	REACTOME_GAP_JUNCTIO	-1.31704	0.123443	0.686523	REACTOME_GAP_JUNCTIC	0.739261	0.876433	1
BIOCARTA_BCR_PATHW	-0.50643	0.988891	1	BIOCARTA_BCR_PATHWAY	-1.25445	0.193356	0.703589	BIOCARTA_BCR_PATHWA	-0.78761	0.752469	1
WP_REGULATION_OF_A	1.054796	0.348748	1	WP_REGULATION_OF_ACT	1.303654	0.089998	0.736729	WP_REGULATION_OF_AC	-0.64932	0.979334	1
REACTOME_KINESINS	0.757888	0.824135	1	REACTOME_KINESINS	-1.23401	0.187682	0.745745	REACTOME_KINESINS	-0.85677	0.665762	1
REACTOME_PROCESSING	-0.73225	0.830802	1	REACTOME_PROCESSING	-1.22017	0.219327	0.755344	REACTOME_PROCESSING	-0.90836	0.586016	1
REACTOME_TP53_REGU	0.603669	0.968635	1	REACTOME_TP53_REGULA	-1.20751	0.20865	0.762363	REACTOME_TP53_REGUL	-0.61728	0.946634	1
REACTOME_SIGNAL_TRA	0.501771	0.98448	1	REACTOME_SIGNAL_TRAN	1.259447	0.197942	0.784926	REACTOME_SIGNAL_TRAN	1.234538	0.19628	1
REACTOME_SIGNALING	0.848494	0.926562	1	REACTOME_SIGNALING_B	1.253271	0.031451	0.786947	REACTOME_SIGNALING_B	-0.85807	0.853188	1
REACTOME_FORMATIO	0.799737	0.785293	1	REACTOME_FORMATIO	-1.15753	0.240734	0.814546	REACTOME_FORMATIO	-0.53427	0.989359	1
REACTOME_FCFER_MED	0.837745	0.756972	1	REACTOME_FCFER_MEDIA	1.200951	0.189756	0.820939	REACTOME_FCFER_MEDIA	0.797761	0.865763	1
REACTOME_ACTIVATION	0.768155	0.841153	1	REACTOME_ACTIVATION_C	1.08568	0.319903	0.867094	REACTOME_ACTIVATION	1.018969	0.408619	1

REACTOME_SYNTHESIS_	0.839459	0.670474	1 REACTOME_SYNTHESIS_OF	1.083608	0.349551	0.867771 REACTOME_SYNTHESIS_O	-0.81829	0.713771	1
REACTOME_UCH_PROTEI	1.046732	0.374507	1 REACTOME_UCH_PROTEIN	1.08895	0.313339	0.86857 REACTOME_UCH_PROTEIN	0.901372	0.665274	1
REACTOME_O_LINKED_G	1.06488	0.373686	1 REACTOME_O_LINKED_GL	1.077203	0.355178	0.871001 REACTOME_O_LINKED_GI	1.100638	0.312168	1
REACTOME_NUCLEAR_E	-0.71126	0.938744	1 REACTOME_NUCLEAR_EN	-1.09192	0.306037	0.87162 REACTOME_NUCLEAR_EN	-0.7653	0.827141	1
REACTOME_RHOV_GTP	1.045884	0.390289	1 REACTOME_RHOV_GTPASI	1.074384	0.342138	0.874134 REACTOME_RHOV_GTPAS	0.856068	0.690117	1
REACTOME_SIGNALING_	0.706266	0.845847	1 REACTOME_SIGNALING_B	1.056556	0.389359	0.8747 REACTOME_SIGNALING_E	0.880211	0.623077	1
REACTOME_AMPLIFICAT	0.789798	0.80373	1 REACTOME_AMPLIFICATIO	1.037072	0.384913	0.877083 REACTOME_AMPLIFICATIO	-0.64513	0.944646	1
REACTOME_G_PROTEIN	0.514286	0.993934	1 REACTOME_G_PROTEIN_N	1.093112	0.323938	0.879563 REACTOME_G_PROTEIN_I	-0.49567	0.992671	1
WP_IL6_SIGNALING_PATH	0.808807	0.814682	1 WP_IL6_SIGNALING_PATH	1.042044	0.376719	0.882339 WP_IL6_SIGNALING_PATH	-0.73808	0.882531	1
REACTOME_CROSS_PRE	0.777836	0.81951	1 REACTOME_CROSS_PRESE	1.038377	0.383556	0.883365 REACTOME_CROSS_PRESE	1.245438	0.140384	1
REACTOME_INTERLEUKI	0.727957	0.937062	1 REACTOME_INTERLEUKIN	1.026503	0.397533	0.88412 REACTOME_INTERLEUKIN	0.715593	0.966995	1
REACTOME_RHOF_GTP	0.675758	0.915821	1 REACTOME_RHOF_GTPASE	1.112342	0.307202	0.887522 REACTOME_RHOF_GTPAS	-0.77244	0.786802	1
REACTOME_ION_HOME	0.783829	0.791139	1 REACTOME_ION_HOMEOS	-1.08289	0.331435	0.888653 REACTOME_ION_HOMEOS	-0.9329	0.559743	1
REACTOME_PLASMA_LI	1.098258	0.32859	1 REACTOME_PLASMA_LIPO	1.106852	0.324218	0.892397 REACTOME_PLASMA_LIPC	0.788305	0.771736	1
REACTOME_C_TYPE_LEC	0.843234	0.761643	1 REACTOME_C_TYPE_LECTI	1.020334	0.411323	0.893067 REACTOME_C_TYPE_LECT	-0.7128	0.921511	1
REACTOME_RHOD_GTP	0.470948	0.990905	1 REACTOME_RHOD_GTPASI	1.112356	0.292553	0.894299 REACTOME_RHOD_GTPAS	-0.76484	0.813226	1
REACTOME_RETROGRA	0.598286	0.980099	1 REACTOME_RETROGRADE	1.021487	0.406652	0.894447 REACTOME_RETROGRADE	-0.42685	0.999041	1
REACTOME_MACROAUT	1.086542	0.292147	1 REACTOME_MACROAUTOI	1.124016	0.251056	0.897277 REACTOME_MACROAUTO	-0.58073	0.993945	1
REACTOME_RHO_GTPA	0.708578	0.999036	1 REACTOME_RHO_GTPASE	1.113391	0.191757	0.897742 REACTOME_RHO_GTPASE	-0.81035	0.894496	1
WP_TOLLLIKE_RECEPT	0.797561	0.731841	1 WP_TOLLLIKE_RECEPTOR	1.113717	0.317011	0.903667 WP_TOLLLIKE_RECEPTOR	-0.9811	0.491944	1
REACTOME_TRANSCRIPT	0.819076	0.706993	1 REACTOME_TRANSCRIPTIC	-1.06626	0.377731	0.917242 REACTOME_TRANSCRIPTI	0.881072	0.628008	1
REACTOME_ASYMMETR	1.047637	0.377001	1 REACTOME_ASYMMETRIC	1.000984	0.431923	0.922371 REACTOME_ASYMMETRIC	0.94616	0.540084	1
REACTOME_THE_ROLE_	1.051182	0.368142	1 REACTOME_THE_ROLE_OF	0.983485	0.46413	0.936673 REACTOME_THE_ROLE_O	1.188355	0.175521	1
REACTOME_TNFR2_NON	0.757597	0.86266	1 REACTOME_TNFR2_NON_I	0.980144	0.467463	0.937312 REACTOME_TNFR2_NON_	0.807166	0.828051	1
REACTOME_UB_SPECIF	1.063338	0.330005	1 REACTOME_UB_SPECIFIC	0.967533	0.511891	0.937629 REACTOME_UB_SPECIFIC	0.933109	0.63458	1
REACTOME_NEUOTRAI	-0.63014	0.977833	1 REACTOME_NEUOTRANS	-1.04188	0.391628	0.937693 REACTOME_NEUOTRAN	-0.99694	0.470929	1
REACTOME_RIPK1_MED	1.046682	0.392628	1 REACTOME_RIPK1_MEDIA	0.969855	0.477496	0.939901 REACTOME_RIPK1_MEDIA	0.755841	0.803515	1
REACTOME_PLATELET_	0.748023	0.872129	1 REACTOME_PLATELET_HO	-1.05089	0.375196	0.942104 REACTOME_PLATELET_HC	0.71588	0.936709	1
REACTOME_DOWNSTRE	0.817051	0.786191	1 REACTOME_DOWNSTREA	0.970231	0.479844	0.943448 REACTOME_DOWNSTREA	0.92898	0.602174	1
BIOCARTA_IL2RB_PATH	0.850943	0.663507	1 BIOCARTA_IL2RB_PATHWA	0.9553	0.501161	0.946618 BIOCARTA_IL2RB_PATHW	0.874866	0.636683	1
REACTOME_SEMAPHOR	0.671285	0.938658	1 REACTOME_SEMAPHORIN	0.957624	0.494303	0.948884 REACTOME_SEMAPHORIN	1.161969	0.216236	1
REACTOME_DEGRADAT	1.043907	0.381828	1 REACTOME_DEGRADATIO	0.945706	0.520618	0.956808 REACTOME_DEGRADATIO	0.892425	0.643218	1
REACTOME_MYOGENES	1.072242	0.371736	1 REACTOME_MYOGENESIS	0.947351	0.504205	0.960938 REACTOME_MYOGENESIS	0.860703	0.648878	1
REACTOME_SIGNALING_	1.068718	0.321	1 REACTOME_SIGNALING_B	0.934705	0.58565	0.971267 REACTOME_SIGNALING_E	-0.82939	0.807274	1
REACTOME_DNA_REPLIC	0.777352	0.860589	1 REACTOME_DNA_REPLICA	0.920186	0.582225	0.978044 REACTOME_DNA_REPLICA	0.989963	0.468764	1
REACTOME_REGULATIO	0.498867	0.996896	1 REACTOME_REGULATION	0.9103	0.57572	0.9847 REACTOME_REGULATION	0.85471	0.720583	1
REACTOME_EPHRIN_SIG	0.595787	0.944754	1 REACTOME_EPHRIN_SIGN	0.383511	0.998948	0.999479 REACTOME_EPHRIN_SIGN	0.89779	0.589658	1
REACTOME_DARPP_32	-0.56796	0.961929	1 REACTOME_DARPP_32_EV	-0.46304	0.991171	0.999865 REACTOME_DARPP_32_E	1.136998	0.291892	1
BIOCARTA_AKT_PATHW	0.660415	0.887364	1 BIOCARTA_AKT_PATHWAY	0.685056	0.846399	1 BIOCARTA_AKT_PATHWA	-0.6815	0.854018	1
BIOCARTA_CASPASE_PA	0.602699	0.929691	1 BIOCARTA_CASPASE_PATH	0.50768	0.974559	1 BIOCARTA_CASPASE_PAT	-0.73116	0.810664	1
BIOCARTA_CERAMIDE_F	-0.59644	0.955365	1 BIOCARTA_CERAMIDE_PA	0.608019	0.929774	1 BIOCARTA_CERAMIDE_PA	1.002839	0.446014	1
BIOCARTA_CXCR4_PATH	0.818967	0.700076	1 BIOCARTA_CXCR4_PATHW	-0.65754	0.897335	1 BIOCARTA_CXCR4_PATHW	0.900396	0.580491	1
BIOCARTA_EGF_PATHW	0.770279	0.777348	1 BIOCARTA_EGF_PATHWAY	-0.83344	0.692765	1 BIOCARTA_EGF_PATHWA	0.779765	0.777035	1
BIOCARTA_FCB1_PATH	0.630272	0.936636	1 BIOCARTA_FCB1_PATHW	-0.51078	0.987978	1 BIOCARTA_FCB1_PATHW	-0.40573	0.997901	1
BIOCARTA_GH_PATHWA	-0.65402	0.908153	1 BIOCARTA_GH_PATHWAY	-0.72469	0.824155	1 BIOCARTA_GH_PATHWAY	0.775043	0.781548	1
BIOCARTA KERATINOCY	-0.73473	0.858307	1 BIOCARTA KERATINOCYTI	-0.53628	0.986146	1 BIOCARTA KERATINOCYTI	1.002535	0.429972	1
BIOCARTA MITOCHOND	0.770647	0.764616	1 BIOCARTA MITOCHONDRI	0.817224	0.688586	1 BIOCARTA MITOCHONDRI	1.189093	0.243836	1
BIOCARTA_PAR1_PATHV	0.808389	0.708047	1 BIOCARTA_PAR1_PATHWA	-0.78914	0.744531	1 BIOCARTA_PAR1_PATHW	-0.5763	0.946044	1
BIOCARTA_RAS_PATHW	0.72782	0.823217	1 BIOCARTA_RAS_PATHWAY	-0.64508	0.911499	1 BIOCARTA_RAS_PATHWA	0.822822	0.712321	1
BIOCARTA_TCR_PATHW	0.632571	0.92906	1 BIOCARTA_TCR_PATHWAY	-0.79656	0.748348	1 BIOCARTA_TCR_PATHWA	-0.3788	0.998797	1
BIOCARTA_TPO_PATHW	0.696284	0.858586	1 BIOCARTA_TPO_PATHWAY	-0.82304	0.703269	1 BIOCARTA_TPO_PATHWA	0.843406	0.677321	1
BIOCARTA_VIP_PATHWA	-0.66842	0.891327	1 BIOCARTA_VIP_PATHWAY	-0.75632	0.789789	1 BIOCARTA_VIP_PATHWAY	-0.37829	0.99906	1
REACTOME_ACETYLCHOL	0.743975	0.804624	1 REACTOME_ACETYLCHOLI	0.880861	0.602612	1 REACTOME_ACETYLCHOLI	-1.06405	0.391385	1
REACTOME_ANTIEN_P	0.731865	0.986525	1 REACTOME_ANTIEN_PRC	0.758243	0.964518	1 REACTOME_ANTIEN_PRI	-0.76107	0.921287	1
REACTOME_ANTIVIRAL	0.712357	0.854707	1 REACTOME_ANTIVIRAL_M	-0.68056	0.898276	1 REACTOME_ANTIVIRAL_N	-0.85092	0.670834	1
REACTOME_APOPTOTIC	-0.63591	0.962575	1 REACTOME_APOPTOTIC_E	0.493367	0.994906	1 REACTOME_APOPTOTIC_I	0.755542	0.854017	1
REACTOME_CA_DEPENC	-0.49218	0.991008	1 REACTOME_CA_DEPENDE	0.573609	0.960825	1 REACTOME_CA_DEPENDE	-0.48473	0.989734	1
REACTOME_CELL_CYCLE	0.631993	1	1 REACTOME_CELL_CYCLE	-0.76131	0.99177	1 REACTOME_CELL_CYCLE	-0.75084	0.95944	1
REACTOME_CELL_CYCLE	-0.63264	0.997389	1 REACTOME_CELL_CYCLE_C	0.716913	0.970322	1 REACTOME_CELL_CYCLE_I	-0.76362	0.892272	1
REACTOME_COSTIMULA	0.730087	0.866177	1 REACTOME_COSTIMULATI	0.742093	0.832632	1 REACTOME_COSTIMULAT	1.155432	0.232597	1
REACTOME_DAP12_SIG	0.836652	0.679163	1 REACTOME_DAP12_SIGNA	0.835987	0.656754	1 REACTOME_DAP12_SIGNA	-0.6425	0.898292	1
REACTOME_DOPAMINE	0.5685	0.971348	1 REACTOME_DOPAMINE_N	-0.91555	0.575187	1 REACTOME_DOPAMINE_N	-0.97609	0.503696	1
REACTOME_DOWNREGUL	0.737226	0.802225	1 REACTOME_DOWNREGUL	-0.67383	0.871393	1 REACTOME_DOWNREGUL	0.897472	0.587854	1
REACTOME_DOWNSTRE	-0.68186	0.872303	1 REACTOME_DOWNSTREAM	-0.80657	0.721888	1 REACTOME_DOWNSTREA	-0.57061	0.95313	1
REACTOME_ENDOSOMA	-0.75294	0.819806	1 REACTOME_ENDOSOMAL	-0.78041	0.775462	1 REACTOME_ENDOSOMAL	-0.56299	0.968778	1
REACTOME_FORMATIO	0.497099	0.991852	1 REACTOME_FORMATION_I	-0.8975	0.606236	1 REACTOME_FORMATION_	-1.02456	0.437023	1
REACTOME_G_ALPHA_C	0.806965	0.826396	1 REACTOME_G_ALPHA_Q_	-0.804	0.849473	1 REACTOME_G_ALPHA_Q_	1.001665	0.452445	1
REACTOME GLUTAMAT	-0.46359	0.995511	1 REACTOME GLUTAMATE	0.805416	0.709631	1 REACTOME GLUTAMATE	-0.87639	0.635511	1
REACTOME_GLYCOLYSIS	0.82419	0.75762	1 REACTOME_GLYCOLYSIS	0.657266	0.949805	1 REACTOME_GLYCOLYSIS	-1.08277	0.34861	1
REACTOME_GLYCOSPHE	0.712954	0.878617	1 REACTOME_GLYCOSPHE	-0.88248	0.634066	1 REACTOME_GLYCOSPHE	-0.92473	0.572258	1
REACTOME_INTERFERO	0.613782	0.967192	1 REACTOME_INTERFERON	-0.58955	0.978409	1 REACTOME_INTERFERON	-0.90739	0.599533	1
REACTOME_INTERLEUK	-0.62254	0.945911	1 REACTOME_INTERLEUKIN	-0.63264	0.937476	1 REACTOME_INTERLEUKIN	-0.83269	0.695173	1
REACTOME_INTRACELL	-0.67412	0.997565	1 REACTOME_INTRACELLUL	0.728739	0.971845	1 REACTOME_INTRACELLUL	0.685976	0.994203	1
REACTOME_INTRAFLAG	-0.71035	0.910706	1 REACTOME_INTRAFLAGEL	-0.67382	0.935209	1 REACTOME_INTRAFLAGEL	1.049958	0.364961	1
REACTOME_ION_CHAN	0.685386	0.97282	1 REACTOME_ION_CHANNEL	-0.89063	0.681604	1 REACTOME_ION_CHANNE	0.863895	0.773246	1
REACTOME_LYSOSOME	0.840045	0.698538	1 REACTOME_LYSOSOME_VI	0.829405	0.689005	1 REACTOME_LYSOSOME_V	-0.72197	0.84338	1
REACTOME_M_PHASE	0.759436	0.977707	1 REACTOME_M_PHASE	0.839268	0.860483	1 REACTOME_M_PHASE	0.982146	0.517016	1
REACTOME_MEMBRANE	0.727639	0.99937	1 REACTOME_MEMBRANE_I	-0.72409	0.999578	1 REACTOME_MEMBRANE_	-0.65111	0.998772	1
REACTOME_METABOLIS	0.748868	0.964762	1 REACTOME_METABOLISM	-0.77362	0.950694	1 REACTOME_METABOLISM	0.847487	0.900981	1
REACTOME_MITOTIC_M	0.84741	0.812074	1 REACTOME_MITOTIC_MET	0.839198	0.819759	1 REACTOME_MITOTIC_ME	0.875393	0.834691	1
REACTOME_MITOTIC_PI	0.712857	0.962155	1 REACTOME_MITOTIC_PRO	0.791969	0.859956	1 REACTOME_MITOTIC_PRC	0.947699	0.588235	1
REACTOME_MRNA_SPLI	-0.55214	0.990714	1 REACTOME_MRNA_SPLICI	0.574753	0.97854	1 REACTOME_MRNA_SPLICI	0.717269	0.908741	1
REACTOME_MTOR_SIGN	-0.69605	0.910691	1 REACTOME_MTOR_SIGNA	0.796237	0.758138	1 REACTOME_MTOR_SIGNA	0.965497	0.503009	1
REACTOME_NEDDYLATI	0.751141	0.960075	1 REACTOME_NEDDYLATION	0.709805	0.978732	1 REACTOME_NEDDYLATIO	-0.69566	0.965848	1

REACTOME_NEGATIVE_I	0.788226	0.735025	1 REACTOME_NEGATIVE_RE	0.484684	0.983757	1 REACTOME_NEGATIVE_RE	0.905189	0.575602	1
REACTOME_NEGATIVE_I	0.705336	0.881086	1 REACTOME_NEGATIVE_RE	-0.99413	0.465553	1 REACTOME_NEGATIVE_RE	0.756776	0.834092	1
REACTOME_NEGATIVE_I	0.571306	0.991797	1 REACTOME_NEGATIVE_RE	0.586951	0.988571	1 REACTOME_NEGATIVE_RE	1.045184	0.360905	1
REACTOME_NETRIN_1_S	-0.52605	0.982093	1 REACTOME_NETRIN_1_SIG	0.667031	0.874576	1 REACTOME_NETRIN_1_SIG	1.138849	0.28736	1
REACTOME_NOD1_2_SII	0.655279	0.900096	1 REACTOME_NOD1_2_SIGN	0.613909	0.924602	1 REACTOME_NOD1_2_SIGN	-0.86718	0.645875	1
REACTOME_NUCLEOTID	0.777648	0.751586	1 REACTOME_NUCLEOTIDE_	-0.72338	0.823004	1 REACTOME_NUCLEOTIDE_	0.810137	0.716592	1
REACTOME_ORGANELLE	0.694283	0.984375	1 REACTOME_ORGANELLE_E	-0.89692	0.693882	1 REACTOME_ORGANELLE_	0.859987	0.82044	1
REACTOME_PEROXISOM	0.779972	0.773487	1 REACTOME_PEROXISOMA	0.743485	0.7945	1 REACTOME_PEROXISOMA	0.873472	0.644451	1
REACTOME_PI_METABO	0.734331	0.896764	1 REACTOME_PI_METABOLI	0.843598	0.712861	1 REACTOME_PI_METABOLI	1.009563	0.425043	1
REACTOME_PROTEIN_PI	0.767188	0.865323	1 REACTOME_PROTEIN_PRO	-0.49328	0.99961	1 REACTOME_PROTEIN_PRO	0.781741	0.886186	1
REACTOME_PROTEIN_U	0.807989	0.777309	1 REACTOME_PROTEIN_UBI	-0.99283	0.46502	1 REACTOME_PROTEIN_UBI	0.84544	0.752076	1
REACTOME_RAF_ACTIV	1.044984	0.387585	1 REACTOME_RAF_ACTIVATI	0.651302	0.925673	1 REACTOME_RAF_ACTIVAT	1.130299	0.263875	1
REACTOME_RECRUITME	0.757608	0.860188	1 REACTOME_RECRUITMEN	0.789956	0.794383	1 REACTOME_RECRUITMEN	1.01073	0.42609	1
REACTOME_RECYCLING	1.075442	0.349221	1 REACTOME_RECYCLING_P	-0.67135	0.923476	1 REACTOME_RECYCLING_P	0.743797	0.867308	1
REACTOME_REGULATIO	0.486252	0.987421	1 REACTOME_REGULATION_	-0.68083	0.874019	1 REACTOME_REGULATION_	-0.55111	0.955882	1
REACTOME_RESOLUTION	0.826975	0.768642	1 REACTOME_RESOLUTION_	0.783044	0.835739	1 REACTOME_RESOLUTION_	0.838058	0.799244	1
REACTOME_RHO_GTPAS	-0.44627	0.996293	1 REACTOME_RHO_GTPASES	-0.82259	0.70441	1 REACTOME_RHO_GTPASE	0.734202	0.832107	1
REACTOME_RHOG_GTP	-0.59088	0.99362	1 REACTOME_RHOG_GTPAS	0.792212	0.799104	1 REACTOME_RHOG_GTPAS	-0.86669	0.681979	1
REACTOME_RNA_POLYM	-0.73157	0.848632	1 REACTOME_RNA_POLYME	-0.7521	0.819388	1 REACTOME_RNA_POLYMI	-0.82608	0.705123	1
REACTOME_SIGNALING_	0.820223	0.725828	1 REACTOME_SIGNALING_B	-0.75618	0.82938	1 REACTOME_SIGNALING_B	-0.83269	0.701934	1
REACTOME_SIGNALING_	0.74971	0.919585	1 REACTOME_SIGNALING_B	0.769913	0.891821	1 REACTOME_SIGNALING_B	-0.48535	1	1
REACTOME_SIGNALING_	-0.67452	0.911803	1 REACTOME_SIGNALING_B	0.58335	0.956989	1 REACTOME_SIGNALING_B	0.839924	0.701153	1
REACTOME_SIGNALING_	-0.73888	0.824705	1 REACTOME_SIGNALING_B	-0.63033	0.927461	1 REACTOME_SIGNALING_B	-0.61609	0.934773	1
REACTOME_SYNAPTIC_A	0.611384	0.9383	1 REACTOME_SYNAPTIC_AD	-0.85027	0.656662	1 REACTOME_SYNAPTIC_AC	0.84066	0.69213	1
REACTOME_SYNTHESIS_	0.519683	0.992852	1 REACTOME_SYNTHESIS_OF	0.837491	0.690764	1 REACTOME_SYNTHESIS_O	0.971367	0.484518	1
REACTOME_TBC_RABGA	0.769042	0.790023	1 REACTOME_TBC_RABGAP	0.62788	0.933778	1 REACTOME_TBC_RABGAP	1.150942	0.248417	1
REACTOME_TP53_REGU	0.766617	0.765075	1 REACTOME_TP53_REGULA	-0.69492	0.847908	1 REACTOME_TP53_REGUL	-1.03563	0.428996	1
REACTOME_TRAFFICKIN	0.638594	0.911003	1 REACTOME_TRAFFICKING_	-0.94093	0.53545	1 REACTOME_TRAFFICKING	-0.70595	0.834825	1
REACTOME_VESICLE_MI	0.755426	0.998446	1 REACTOME_VESICLE_MED	-0.83837	0.96737	1 REACTOME_VESICLE_MEC	-0.69312	0.9956	1
WP_EGFR1_SIGNALING_	0.567677	1	1 WP_EGFR1_SIGNALING_P	0.814753	0.843177	1 WP_EGFR1_SIGNALING_P	-0.46567	1	1
WP_ELECTRON_TRANSP	0.817384	0.788605	1 WP_ELECTRON_TRANSPOF	-0.94386	0.556256	1 WP_ELECTRON_TRANSPO	-0.85886	0.704022	1
WP_EPO_RECEPTOR_SIC	-0.64926	0.917906	1 WP_EPO_RECEPTOR_SIGN	0.698123	0.841033	1 WP_EPO_RECEPTOR_SIGN	1.039833	0.392999	1
WP_G_PROTEIN_SIGNAL	0.662476	0.97652	1 WP_G_PROTEIN_SIGNALIN	-0.76371	0.888621	1 WP_G_PROTEIN_SIGNALII	-0.72505	0.90562	1
WP_Glutathione_MET	0.590356	0.950851	1 WP_Glutathione_METAI	0.727016	0.81115	1 WP_Glutathione_METAI	0.782455	0.769401	1
WP_IL1_SIGNALING_PA	0.685312	0.891847	1 WP_IL1_SIGNALING_PATH	0.87292	0.620675	1 WP_IL1_SIGNALING_PATH	0.895187	0.599087	1
WP_IL7_SIGNALING_PA	-0.58643	0.973781	1 WP_IL7_SIGNALING_PATH	0.867823	0.632099	1 WP_IL7_SIGNALING_PATH	0.906612	0.598162	1
WP_P53_SIGNALING	1.049565	0.388647	1 WP_P53_SIGNALING	0.632601	0.915312	1 WP_P53_SIGNALING	0.987979	0.452677	1
WP_PARKINSONS_DISEA	0.807719	0.725869	1 WP_PARKINSONS_DISEASE	-0.71307	0.87088	1 WP_PARKINSONS_DISEAS	1.189297	0.21242	1
WP_SELENIUM_METABO	0.54309	0.983619	1 WP_SELENIUM_METABOLI	0.704922	0.858921	1 WP_SELENIUM_METABOLI	-0.59332	0.955527	1

# GSEA cluster cortex

\* NbClust results. Method=ward.D2, distance=euclidean

		NES		
cluster	ID	MNK1KO	MNK2KO	MNKDKO
1	REACTOME_FORMATION_OF_A_POO	2.03725	1.565585	2.030022
1	REACTOME_ACTIVATION_OF_THE_MI	1.880446	1.362647	2.046375
1	REACTOME_TRANSLATION	1.690334	1.399665	1.846749
1	REACTOME_NONSENSE_MEDIATED_C	2.000028	1.523747	1.864469
1	WP_CYTOPLASMIC_RIBOSOMAL_PRO	1.987372	1.478443	1.885397
1	REACTOME_EUKARYOTIC_TRANSLATI	1.961733	1.586985	1.901042
1	REACTOME_NONSENSE_MEDIATED_C	1.97281	1.46745	1.689707
1	WP_CHOLESTEROL_METABOLISM_WI	1.731039	1.409934	1.622111
1	REACTOME_PHASE_II_CONJUGATION	1.637782	0.976545	1.520062
1	REACTOME_BIOLOGICAL_OXIDATION	1.878272	1.425181	1.480575
1	WP_PRIMARY_FOCAL_SEGMENTAL_G	1.314465	1.727188	0.654138
1	REACTOME_METABOLISM_OF_STERO	1.677806	0.991934	1.072741
1	BIOCARTA_ECM_PATHWAY	1.320114	1.75156	0.760377
1	REACTOME_SPHINGOLIPID_DE_NOVC	1.049671	1.737207	1.023133
1	REACTOME_SIGNALING_BY_TGFB_FA	1.227781	1.713913	0.958745
1	REACTOME_PHASE_I_FUNCTIONALIZ	1.840742	1.630544	1.205816
1	WP_METAPATHWAY_BIOTRANSFORM	1.631887	1.183106	1.171471
1	WP_OXIDATIVE_STRESS_RESPONSE	1.758821	-0.67299	0.901859
2	REACTOME_RHO_GTPASES_ACTIVATE	-1.94442	-1.87132	-1.77925
2	REACTOME_NONHOMOLOGOUS_END	-1.79293	-1.92679	-1.71584
2	REACTOME_POTASSIUM_CHANNELS	-1.68077	-1.84142	-1.07326
3	REACTOME_MET_PROMOTES_CELL_M	1.459251	2.07757	-1.54082
3	REACTOME_COLLAGEN_BIOSYNTHESI	1.709907	2.154113	-1.55005
3	REACTOME_COLLAGEN_FORMATION	1.685491	2.147013	-1.46736
3	REACTOME_COLLAGEN_DEGRADATIO	1.757987	2.10213	-1.45781
3	REACTOME_ASSEMBLY_OF_COLLAGEI	1.91743	2.23117	-1.37079
3	REACTOME_DEGRADATION_OF_THE_	1.789369	2.276743	-1.4164
3	REACTOME_INTEGRIN_CELL_SURFACE	2.097309	2.202235	-1.42902
3	REACTOME_NON_INTEGRIN_MEMBR	1.521135	2.091786	-1.43936
3	REACTOME_ECM_PROTEOGLYCANS	1.936779	2.164128	-1.25612
3	REACTOME_NCAM_SIGNALING_FOR_	1.55138	2.110592	-1.23107
3	REACTOME_EXTRACELLULAR_MATRIX	2.059572	2.519486	-1.18448
3	REACTOME_SIGNALING_BY_PDGF	1.424691	1.878707	-1.13966
3	WP_FOCAL_ADHESION	1.558832	2.258373	-0.90816
3	REACTOME_SMOOTH_MUSCLE_CONT	2.095553	2.23465	-0.88747
3	REACTOME_RHO_GTPASES_ACTIVATE	2.047715	2.209499	-0.45823
3	REACTOME_TGF_BETA_RECEPTOR_SI	1.54002	1.995003	-0.81692
3	REACTOME_MUSCLE_CONTRACTION	1.431518	1.855598	-0.76617
3	REACTOME_SIGNALING_BY_TGF_BET	1.2606	1.7706	-0.77181
3	REACTOME_CELL_EXTRACELLULAR_M	1.357794	1.733791	-0.67271
3	REACTOME_REGULATION_OF_INSULI	1.656866	1.612106	-0.82697
3	REACTOME_COMPLEMENT_CASCADE	1.871256	1.450704	-0.95891
3	REACTOME_RESPONSE_TO_ELEVATE	1.798976	1.275612	-0.98058