

Table S1. Differentially expressed pseudogenes and mRNAs.

baseMean	log2FoldChange	lfcSE	stat	p-value	padj	ENS	SYMBOL
280.2221418	1.675835555	0.093665754	17.89165707	1.37E-71	7.61E-71	ENSG00000080947	CROCCP3
85.89944596	3.219341245	0.091238273	35.28498661	9.98E-273	9.40E-271	ENSG00000101898	MCTS2P
348.0618212	-3.432708147	0.235562886	-14.57236412	4.21E-48	1.53E-47	ENSG00000104970	KIR3DX1
71.83269107	1.809772164	0.131989602	13.71147532	8.67E-43	2.84E-42	ENSG00000108785	HSD17B1P1
53.4250903	2.651900972	0.118690367	22.34301773	1.41E-110	1.55E-109	ENSG00000121089	NACA3P
154.2205659	1.317604972	0.113714413	11.58696548	4.80E-31	1.24E-30	ENSG00000123870	ZNF137P
33.30914789	1.023921706	0.148815162	6.880493166	5.96E-12	9.79E-12	ENSG00000123965	PMS2P5
827.201983	-2.009931998	0.119507063	-16.81852054	1.79E-63	8.62E-63	ENSG00000124224	PPP4R1L
336.3081169	-4.150905608	0.22983561	-18.06032414	6.54E-73	3.72E-72	ENSG00000128438	TBC1D27P
1288.251018	-1.930706275	0.19925751	-9.689503183	3.34E-22	7.06E-22	ENSG00000131401	NAPSB
682.751613	-1.573328776	0.141599061	-11.1111526	1.11E-28	2.71E-28	ENSG00000131797	CLUHP3
251.5680645	2.144501183	0.106376504	20.15953814	2.22E-90	1.69E-89	ENSG00000132967	HMGB1P5
150.1045148	1.540988161	0.072050248	21.38768708	1.74E-101	1.61E-100	ENSG00000134297	PLEKHA8P1
162.0027266	2.102201896	0.146592272	14.34046875	1.22E-46	4.32E-46	ENSG00000137970	RPL7P9
261.9875572	3.378813285	0.191001698	17.68996466	5.01E-70	2.70E-69	ENSG00000154874	CCDC144B
240.3501961	1.338365768	0.082173731	16.28702692	1.22E-59	5.51E-59	ENSG00000160766	GBAP1
184.0292561	-1.294079159	0.213928657	-6.049115533	1.46E-09	2.22E-09	ENSG00000161643	SIGLEC16
125.8989225	1.409642034	0.099153249	14.21680119	7.21E-46	2.51E-45	ENSG00000162997	PRORS1P
2890.241199	-4.245030965	0.184898814	-22.95867059	1.21E-116	1.45E-115	ENSG00000165178	NCF1C
1376.72620	2.357962258	0.1049756	22.46198832	9.77E-	1.09E-	ENSG0000016840	CMAHP

3		69		112	110	5	
300.2103539	2.530529593	0.169494259	14.92988381	2.11E-50	7.94E-50	ENSG00000170629	DPY19L2P2
267.4364666	1.978766108	0.089867891	22.01861075	1.91E-107	1.97E-106	ENSG00000174353	STAG3L3
29.59553088	1.057274507	0.092972333	11.37192622	5.77E-30	1.45E-29	ENSG00000175886	RPL7AP66
335.2341292	1.043323293	0.063745996	16.36688366	3.30E-60	1.50E-59	ENSG00000176700	SCAND2P
80.94224535	1.129724364	0.153893214	7.340962812	2.12E-13	3.62E-13	ENSG00000177173	NAP1L4P1
135.2459196	1.33541294	0.112245261	11.89727677	1.22E-32	3.25E-32	ENSG00000179611	DGKZP1
50.76761013	2.065135904	0.131485977	15.7061304	1.37E-55	5.71E-55	ENSG00000179899	PHC1P1
264.5011861	2.397117929	0.200647569	11.94690744	6.74E-33	1.80E-32	ENSG00000180229	HERC2P3
589.2842556	2.954410913	0.109697611	26.93231784	9.19E-160	2.18E-158	ENSG00000180747	SMG1P3
30.19427032	1.284294891	0.099677424	12.8845113	5.50E-38	1.64E-37	ENSG00000180764	PIPSL
125.537589	1.358243747	0.066676531	20.3706421	3.05E-92	2.39E-91	ENSG00000180867	PDIA3P1
106.8511746	1.274521301	0.126275217	10.09320226	5.92E-24	1.30E-23	ENSG00000181524	RPL24P4
125.426997	2.771950834	0.207670732	13.34781657	1.22E-40	3.83E-40	ENSG00000182048	TRPC2
449.8618753	-1.592212625	0.104629415	-15.21763861	2.70E-52	1.06E-51	ENSG00000182484	WASH6P
1999.347177	-3.968562729	0.193046515	-20.55754659	6.59E-94	5.32E-93	ENSG00000182487	NCF1B
1065.458888	1.349974075	0.083713952	16.12603452	1.67E-58	7.40E-58	ENSG00000182796	TMEM198B
68.11915395	1.618264954	0.13842717	11.69037087	1.43E-31	3.71E-31	ENSG00000183199	HSP90AB3P
204.8682732	1.692062382	0.100901476	16.76945118	4.08E-63	1.96E-62	ENSG00000183604	SMG1P5
266.3823792	2.569753273	0.095287663	26.9683733	3.47E-160	8.37E-159	ENSG00000183666	GUSBP1
124.1484527	2.193487133	0.161493437	13.58251563	5.08E-42	1.64E-41	ENSG00000183935	HTR7P1
439.3909069	-1.371372253	0.09653233	-14.206352	8.37E-46	2.91E-45	ENSG00000185596	WASH3P

948.520411	1.26847596	0.0688825 97	18.41504255	9.95E-76	5.92E-75	ENSG0000018568 4	EP400P1
397.776261 2	-1.554676621	0.0940512 73	-16.53009655	2.23E-61	1.04E-60	ENSG0000018616 2	CIDECPI
367.152104 8	1.16891704	0.0735779 87	15.88677652	7.82E-57	3.33E-56	ENSG0000018631 2	CA5BP1
86.7332355 7	1.843507817	0.2029560 8	9.083284527	1.05E-19	2.09E-19	ENSG0000018648 1	ANKRD20A5P
38.5954446 1	1.894087131	0.1077836 3	17.57305017	3.96E-69	2.10E-68	ENSG0000018798 4	ANKRD19P
198.032221 7	-1.332953655	0.0962610 75	-13.84727575	1.32E-43	4.40E-43	ENSG0000018859 9	NIIPP1
377.898169 4	-1.426888878	0.2828881 36	-5.044003958	4.56E-07	6.41E-07	ENSG0000018893 3	USP32P1
472.297986 1	1.073965058	0.1220861 04	8.796783781	1.41E-18	2.73E-18	ENSG0000018934 3	RPS2P46
50.3124363 4	2.494445997	0.1254126 29	19.88991077	4.98E-88	3.64E-87	ENSG0000018942 3	USP32P3
587.277925 5	-5.309631792	0.2300686 65	-23.07846573	7.62E- 118	9.37E- 117	ENSG0000019758 2	GPX1P1
50.9734409 4	1.279337629	0.1110483 79	11.520543	1.04E-30	2.66E-30	ENSG0000019774 4	PTMAP2
171.741300 3	3.244034587	0.1719320 55	18.86811967	2.09E-79	1.33E-78	ENSG0000019784 7	SLC22A20P
28.3889682 7	1.221099234	0.1229503 22	9.931647298	3.03E-23	6.55E-23	ENSG0000019865 8	ABHD17AP1
293.547210 1	2.041352283	0.1640336 07	12.44471986	1.49E-35	4.21E-35	ENSG0000019874 4	MTCO3P12
145.237190 3	1.03022268	0.0947630 69	10.87156304	1.57E-27	3.76E-27	ENSG0000020376 1	MSTO2P
79.6211339	1.387342373	0.2162311 42	6.416015573	1.40E-10	2.20E-10	ENSG0000020379 9	CCDC162P
446.523037 1	4.577357606	0.1696253 48	26.98510371	2.21E- 160	5.35E- 159	ENSG0000020417 7	BMS1P1
375.708282	-2.171741745	0.1401311 45	-15.49792336	3.58E-54	1.45E-53	ENSG0000020462 2	HLA-J
678.822299 9	2.014476136	0.0933906 77	21.57042008	3.41E- 103	3.24E- 102	ENSG0000020462 3	ZNRD1ASP
116.137010 7	-3.529977922	0.2254836 48	-15.65513933	3.06E-55	1.27E-54	ENSG0000020479 1	SMPD5
33.8472799 7	1.140069308	0.1106176 13	10.30639945	6.59E-25	1.48E-24	ENSG0000020558 3	STAG3L1
105.231939 3	-1.692139454	0.1066837 57	-15.86126609	1.18E-56	4.99E-56	ENSG0000020570 2	CYP2D7

74.0776648 1	2.374825282	0.1150148 69	20.64798494	1.02E-94	8.37E-94	ENSG0000020577 1	CATSPER2P1
41.7096730 1	2.261894569	0.1221639 47	18.5152381	1.56E-76	9.39E-76	ENSG0000020591 8	PDPK2P
450.877723 9	1.406394941	0.0847927 95	16.58625528	8.76E-62	4.10E-61	ENSG0000020614 9	HERC2P9
2419.21126	-3.088271605	0.1391418 74	-22.19512735	3.83E- 109	4.07E- 108	ENSG0000020634 1	HLA-H
227.816788 8	-2.121026527	0.2856740 19	-7.424639221	1.13E-13	1.94E-13	ENSG0000021164 9	IGLV7-46
117.052101 5	-1.070956025	0.2701041 2	-3.964974792	7.34E-05	9.48E-05	ENSG0000021167 0	IGLV3-9
144.648643 6	1.109092964	0.0866523 27	12.79934419	1.65E-37	4.87E-37	ENSG0000021280 2	RPL15P3
55.1112727 9	1.441594892	0.0981349 48	14.68992358	7.48E-49	2.74E-48	ENSG0000021314 9	CNN2P9
43.6786761 7	1.527171243	0.1267739 61	12.04641103	2.03E-33	5.46E-33	ENSG0000021317 8	RPL22P1
58.9040218 1	1.262940342	0.1321046 03	9.560153978	1.18E-21	2.45E-21	ENSG0000021345 3	FTH1P3
199.975148 1	2.780610683	0.1533448 11	18.13306022	1.75E-73	1.01E-72	ENSG0000021361 3	RPL11P3
81.6257938 6	2.661853095	0.1126997 08	23.61898841	2.46E- 123	3.33E- 122	ENSG0000021369 3	SEC14L1P1
38.9449674 9	1.005408841	0.1161494 2	8.65616752	4.88E-18	9.33E-18	ENSG0000021370 7	HMGB1P10
103.885252	2.40026289	0.101677	23.6067438	3.29E- 123	4.42E- 122	ENSG0000021371 3	PIGCP1
159.094397 6	1.185015044	0.1065509 13	11.12158511	9.85E-29	2.41E-28	ENSG0000021380 1	ZNF321P
58.2872264 4	1.899324268	0.1571040 22	12.08959671	1.20E-33	3.25E-33	ENSG0000021383 0	CFL1P5
305.561674 5	1.669598589	0.1420411 52	11.75433012	6.71E-32	1.76E-31	ENSG0000021418 9	ZNF788P
123.365777 4	2.93204111	0.0951831 75	30.80419544	2.30E- 208	1.07E- 206	ENSG0000021419 9	EEF1A1P12
128.288061 2	1.320315025	0.1376195 96	9.59394641	8.48E-22	1.78E-21	ENSG0000021438 9	RPS3AP26
674.721081 4	2.16021879	0.1293153 91	16.70504007	1.20E-62	5.74E-62	ENSG0000021442 5	LRRC37A4P
81.1289372 3	1.887291458	0.0882970 58	21.37434127	2.32E- 101	2.14E- 100	ENSG0000021445 5	RCN1P2
81.7192292 1	1.749283009	0.1487084 53	11.76317135	6.04E-32	1.58E-31	ENSG0000021448 5	RPL7P1

356.194571 7	1.290318245	0.1144718 33	11.27192784	1.81E-29	4.50E-29	ENSG0000021482 6	DDX12P
1210.04934 4	-2.153671883	0.1621652 27	-13.28072562	2.99E-40	9.35E-40	ENSG0000021503 0	RPL13P12
68.7046206	2.912743041	0.1162838 94	25.04855093	1.81E- 138	3.11E- 137	ENSG0000021538 8	ACTG1P3
37.1540475 8	1.801024518	0.1167113 39	15.43144416	1.01E-53	4.05E-53	ENSG0000021585 9	PDZK1P1
49.5190910 6	-1.403724584	0.1922327 6	-7.302213144	2.83E-13	4.81E-13	ENSG0000021633 1	H1-12P
25.1966087 1	1.227826501	0.1047042 42	11.72661664	9.31E-32	2.43E-31	ENSG0000021662 4	GAPDHP72
157.263201 6	1.320100427	0.1061145 14	12.440338	1.58E-35	4.45E-35	ENSG0000021716 5	ANKRD18EP
220.097649 6	2.674109836	0.1034511 36	25.84901365	2.50E- 147	5.00E- 146	ENSG0000021822 6	TATDN2P2
282.071613 2	-1.457784129	0.0646152 76	-22.56098281	1.05E- 112	1.19E- 111	ENSG0000021828 3	MORF4L1P1
134.596331 1	-3.421583085	0.1893027 59	-18.0746604	5.05E-73	2.88E-72	ENSG0000021950 7	FTH1P8
262.822624 2	4.400515727	0.1497948 6	29.37694745	1.08E- 189	4.03E- 188	ENSG0000022051 7	ASS1P1
49.2789481 1	1.412826282	0.0745923 76	18.94062582	5.28E-80	3.38E-79	ENSG0000022084 8	RPS18P9
67.0113721 8	-2.629555353	0.1991460 87	-13.20415273	8.30E-40	2.57E-39	ENSG0000022211 2	RN7SKP16
43.4705863 4	1.627821663	0.1182904 17	13.76123028	4.36E-43	1.43E-42	ENSG0000022350 8	RPL23AP53
98.2229206 3	-1.365615518	0.1093341 38	-12.49029396	8.43E-36	2.39E-35	ENSG0000022355 1	TMSB4XP4
745.846141 7	1.504923302	0.1008979 24	14.91530496	2.62E-50	9.86E-50	ENSG0000022377 3	CD99P1
30.2928889 5	1.436007308	0.1177907 27	12.19117446	3.46E-34	9.49E-34	ENSG0000022380 3	RPS20P14
51.6469025 2	2.659037463	0.1075257 87	24.72930025	5.18E- 135	8.42E- 134	ENSG0000022408 0	UBE2FP1
168.834771 9	1.340749188	0.1010594 98	13.26692899	3.60E-40	1.12E-39	ENSG0000022463 1	RPS27AP16
51.9111709 1	1.135086439	0.1036009 5	10.95633233	6.20E-28	1.49E-27	ENSG0000022489 2	RPS4XP16
47.9603683 9	2.218354625	0.0935590 31	23.71074807	2.79E- 124	3.86E- 123	ENSG0000022503 1	EIF4BP7
190.980953 8	-1.019718364	0.2646042 02	-3.853749696	1.16E-04	1.49E-04	ENSG0000022510 1	OR52K3P

53.0693849 7	-2.568209842	0.1058347 17	-24.26623239	4.46E- 130	6.78E- 129	ENSG0000022513 1	PSME2P2
263.994697 7	1.651262178	0.1917475 11	8.611648564	7.20E-18	1.37E-17	ENSG0000022542 2	RBMS1P1
6718.78682 5	1.818133313	0.1408660 05	12.90682812	4.12E-38	1.23E-37	ENSG0000022563 0	MTND2P28
88.5983402 8	3.038998054	0.0860889 62	35.30066999	5.73E- 273	5.43E- 271	ENSG0000022601 5	CCT8P1
44.8098763 5	1.256603146	0.1192220 31	10.54002461	5.65E-26	1.30E-25	ENSG0000022605 5	PAICSP1
833.337833 4	-2.178149321	0.1225913 54	-17.76756067	1.26E-70	6.87E-70	ENSG0000022621 0	WASH8P
76.1702892 9	2.443162826	0.1385506 66	17.63371406	1.36E-69	7.25E-69	ENSG0000022622 1	RPL26P19
172.000624 6	-3.450018068	0.0933030 79	-36.97646528	2.74E- 299	3.30E- 297	ENSG0000022623 2	NPIP14P
49.2068865 1	1.621313459	0.1506960 41	10.75883249	5.38E-27	1.27E-26	ENSG0000022625 9	GTF2H2B
59.3108668 4	-1.954915054	0.0976459 87	-20.02043422	3.66E-89	2.72E-88	ENSG0000022628 7	TMEM191A
60.9782141 5	1.982441162	0.1568615 7	12.63815706	1.30E-36	3.75E-36	ENSG0000022649 1	FTOP1
118.086331 2	-2.857012216	0.1747669 57	-16.34755368	4.53E-60	2.06E-59	ENSG0000022656 4	FTH1P20
396.127850 6	-2.237941883	0.1589403 71	-14.08038667	5.01E-45	1.72E-44	ENSG0000022660 8	FTLP3
74.2112502 5	1.338689116	0.1029857 48	12.99878033	1.24E-38	3.75E-38	ENSG0000022694 2	IL9RP3
60.3206131 2	2.093655657	0.1587754 11	13.18627138	1.05E-39	3.25E-39	ENSG0000022703 2	RPS2P36
96.9284295 9	-1.155305078	0.1044654 24	-11.05921018	1.98E-28	4.81E-28	ENSG0000022723 2	WASH7P
61.2702578 8	1.185735101	0.1251100 2	9.477539048	2.60E-21	5.38E-21	ENSG0000022793 9	RPL3P2
50.7658623 1	1.580843171	0.1029479 65	15.35574963	3.24E-53	1.29E-52	ENSG0000022798 6	TRIM60P18
50.1402067	2.030880932	0.1486842 92	13.65901476	1.78E-42	5.80E-42	ENSG0000022805 7	SEC63P1
224.580303 4	1.158311822	0.0815424 5	14.20501623	8.53E-46	2.96E-45	ENSG0000022840 9	CCT6P1
41.3399832 3	1.706866128	0.1378874 85	12.37868777	3.41E-35	9.55E-35	ENSG0000022844 6	ANKRD49P1
90.3212479 2	1.595277959	0.1152356 21	13.84361832	1.39E-43	4.63E-43	ENSG0000022845 1	SDAD1P1

317.196911	3.494148747	0.0896809 03	38.96201559	0.00E+0 0	0.00E+0 0	ENSG0000022849 2	RAB11FIP1P1
190.792106 5	1.612534183	0.1557294 9	10.35471308	3.98E-25	9.00E-25	ENSG0000022850 2	EEF1A1P11
62.7705944 7	2.445568176	0.1124762 74	21.74296942	8.05E- 105	7.96E- 104	ENSG0000022892 9	RPS13P2
178.352479 5	4.287292039	0.0815888 21	52.54754247	0.00E+0 0	0.00E+0 0	ENSG0000022903 6	VDAC1P8
119.879824 2	1.610556028	0.1094206 18	14.71894475	4.87E-49	1.79E-48	ENSG0000022909 7	CALM2P2
317.635642 7	1.987084354	0.1505167 24	13.20175128	8.57E-40	2.65E-39	ENSG0000022934 4	MTCO2P12
134.980571 9	2.082817809	0.1700304 94	12.24967219	1.69E-34	4.65E-34	ENSG0000022935 8	DPY19L1P1
1475.80451 6	-1.928759906	0.2031222 83	-9.495560385	2.19E-21	4.54E-21	ENSG0000022939 1	HLA-DRB6
89.4382965 3	2.463523522	0.1374977 8	17.91682402	8.72E-72	4.85E-71	ENSG0000022947 3	RGS17P1
308.546227 9	-1.904494026	0.2156196 79	-8.83265401	1.02E-18	1.99E-18	ENSG0000022959 8	PRDX3P1
301.990861 7	1.192581339	0.0915567 48	13.02559745	8.75E-39	2.65E-38	ENSG0000022963 8	RPL4P4
679.697706 4	-4.105918448	0.2046945 06	-20.05876234	1.69E-89	1.27E-88	ENSG0000022964 4	NAMPTP1
360.230629 6	-1.220570812	0.2238467 02	-5.452708489	4.96E-08	7.20E-08	ENSG0000022975 4	CXCR2P1
88.2741433 1	1.520834793	0.0811347 04	18.74456574	2.14E-78	1.34E-77	ENSG0000022999 4	RPL5P4
155.060616 1	1.614661551	0.2350704 02	6.868842423	6.47E-12	1.06E-11	ENSG0000023000 6	ANKRD36BP2
107.782382 2	2.678971547	0.1051228 67	25.48419415	2.95E- 143	5.54E- 142	ENSG0000023006 9	LRRC37A15P
59.5551165 6	2.336517464	0.0862574 06	27.08773157	1.37E- 161	3.36E- 160	ENSG0000023007 1	RPL4P6
65.7598290 6	1.395642232	0.0958712 83	14.55745854	5.24E-48	1.90E-47	ENSG0000023020 7	RPL4P5
116.621924 7	1.334016956	0.0937816 03	14.22471901	6.44E-46	2.24E-45	ENSG0000023022 4	PHBP9
95.9051099 9	-1.009683972	0.1119423 25	-9.019680161	1.89E-19	3.73E-19	ENSG0000023043 8	SERPINB9P1
70.0571729 1	2.238744197	0.0702422 15	31.8717766	6.57E- 223	3.72E- 221	ENSG0000023058 1	ACTG1P14
52.7603463 3	1.960890611	0.1538575 88	12.74484175	3.33E-37	9.73E-37	ENSG0000023059 3	PPIAP40

107.917488 2	1.874083777	0.1091260 05	17.17357628	4.19E-66	2.12E-65	ENSG0000023062 9	RPS23P8
256.714529 2	-2.832708904	0.1419916 6	-19.949826	1.50E-88	1.11E-87	ENSG0000023079 5	HLA-K
68.5213235 7	2.441578433	0.1099675 42	22.20271895	3.23E- 109	3.44E- 108	ENSG0000023098 2	DSTNP1
86.7080251 8	1.114937687	0.1022107 61	10.90822213	1.05E-27	2.52E-27	ENSG0000023158 4	FAHD2CP
114.406021 8	-3.033270653	0.1735296 63	-17.47983943	2.04E-68	1.07E-67	ENSG0000023218 7	FTH1P7
115.036988 8	1.965576021	0.1242312 02	15.82191908	2.20E-56	9.28E-56	ENSG0000023247 2	EEF1B2P3
102.752544 5	1.606819579	0.0890711 57	18.03972951	9.50E-73	5.39E-72	ENSG0000023263 0	PRPS1P2
64.7068422 2	1.586868937	0.0877756 35	18.07869504	4.69E-73	2.68E-72	ENSG0000023271 3	RPS12P3
138.6052	2.697119976	0.0876492 35	30.77174573	6.26E- 208	2.87E- 206	ENSG0000023288 8	RPS11P5
42.8132851 7	1.529397102	0.1075078 2	14.22591495	6.33E-46	2.21E-45	ENSG0000023312 2	CTAGE7P
74.1501053 3	1.314212456	0.0959397 58	13.69830905	1.04E-42	3.40E-42	ENSG0000023323 1	HNRNPA1P49
387.591720 9	-1.372615565	0.1170839 63	-11.72334389	9.68E-32	2.53E-31	ENSG0000023336 9	GTF2IP4
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176.378384 5	1.538384938	0.0987094 65	15.584979	9.21E-55	3.77E-54	ENSG0000023342 6	EIF3FP3
524.403312 3	2.049768223	0.1604804 34	12.77269868	2.33E-37	6.84E-37	ENSG0000023347 6	EEF1A1P6
83.8395064 6	1.634901247	0.1290059 9	12.67306457	8.34E-37	2.41E-36	ENSG0000023357 8	EIF4EP1
97.9562284 5	1.551674229	0.1340459 71	11.57568718	5.47E-31	1.41E-30	ENSG0000023362 2	CYP2T1P
26.8805232 9	1.167837547	0.1026927 29	11.37215414	5.75E-30	1.45E-29	ENSG0000023389 2	PAIP1P1
1172.34926 8	1.59114596	0.0735112 05	21.64494451	6.78E- 104	6.55E- 103	ENSG0000023442 0	ZNF37BP
181.480903 7	-1.711517561	0.0816466 72	-20.96249024	1.44E-97	1.25E-96	ENSG0000023451 8	PTGES3P1
116.651202 2	-2.570292161	0.0856300 17	-30.01625185	6.02E- 198	2.48E- 196	ENSG0000023466 4	HMG2N2P5
44.8511027 2	-1.191202688	0.0949791 47	-12.54172869	4.41E-36	1.26E-35	ENSG0000023476 9	WASH4P

73.7185893 3	1.979102225	0.1356317 09	14.59173697	3.17E-48	1.15E-47	ENSG0000023478 2	TPT1P9
111.605748 7	1.354047229	0.1327184 32	10.20240528	1.93E-24	4.30E-24	ENSG0000023479 7	RPS3AP6
71.3203465 3	2.127565949	0.1015010 79	20.96101795	1.49E-97	1.29E-96	ENSG0000023485 1	RPL23AP42
64.7018274 7	2.386334437	0.1217509 19	19.60013497	1.54E-85	1.09E-84	ENSG0000023488 2	EIF3EP1
86.8631572 9	-2.710701646	0.1791077 79	-15.13447193	9.59E-52	3.71E-51	ENSG0000023497 5	FTH1P2
161.220003 4	3.799305302	0.1336848 78	28.41985833	1.15E- 177	3.67E- 176	ENSG0000023517 4	RPL39P3
173.855053 6	1.595625434	0.1272210 16	12.54215289	4.39E-36	1.25E-35	ENSG0000023521 7	TSPY26P
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166.176655 8	1.88941526	0.0798899 12	23.65023594	1.17E- 123	1.60E- 122	ENSG0000023531 6	DUSP8P5
113.380566	-2.023348359	0.1897836 74	-10.66134047	1.54E-26	3.60E-26	ENSG0000023550 5	CASP17P
109.008002 4	-1.736989391	0.0997116 49	-17.42012495	5.81E-68	3.02E-67	ENSG0000023550 8	RPS2P7
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82.1808771	-1.663632155	0.1647023 94	-10.10083773	5.48E-24	1.20E-23	ENSG0000023560 2	POU5F1P3
467.191367 2	-1.735172895	0.1466802 12	-11.82963179	2.74E-32	7.24E-32	ENSG0000023565 5	H3P6
54.0194013 3	1.408737908	0.1491188 03	9.447084363	3.48E-21	7.18E-21	ENSG0000023567 7	NPM1P26
62.6909344 2	1.332488883	0.1232333 27	10.81273155	3.00E-27	7.11E-27	ENSG0000023667 5	MTX1P1
43.7990000 9	2.286254542	0.1317151 48	17.35756727	1.73E-67	8.94E-67	ENSG0000023680 1	RPL24P8
122.611763 8	2.495552334	0.1228640 69	20.31149013	1.02E-91	7.90E-91	ENSG0000023729 6	SMG1P1
161.022330 9	1.495333341	0.0847981 66	17.63402934	1.35E-69	7.21E-69	ENSG0000023752 2	NONOP2
89.7211219 3	3.509182449	0.1113107 12	31.52600845	3.82E- 218	2.04E- 216	ENSG0000023767 2	KRR1P1
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202.596898 4	2.017407446	0.0910035 62	22.16844488	6.93E- 109	7.33E- 108	ENSG0000023988 3	PARGP1

27.857529	1.138814324	0.1213695 61	9.383030775	6.41E-21	1.31E-20	ENSG0000023988 4	RN7SL608P
25.1224644 1	1.16885327	0.1171588 17	9.976656442	1.93E-23	4.18E-23	ENSG0000024008 7	RPSAP12
210.424355 4	1.659695159	0.0968443 47	17.13775977	7.76E-66	3.92E-65	ENSG0000024022 5	ZNF542P
5029.30132 1	-2.283544166	0.1017333 81	-22.44636071	1.39E- 111	1.55E- 110	ENSG0000024034 2	RPS2P5
39.2408293 2	1.737237977	0.1447852 81	11.99871954	3.61E-33	9.67E-33	ENSG0000024039 5	RPL5P23
53.0264803 4	1.968244235	0.1601046 44	12.29348619	9.82E-35	2.72E-34	ENSG0000024040 9	MTATP8P1
60.5490743 5	2.234610936	0.1026354 85	21.77230367	4.25E- 105	4.22E- 104	ENSG0000024061 6	RPS6P25
88.7814345 1	3.054931243	0.0944728 18	32.33661606	2.14E- 229	1.28E- 227	ENSG0000024097 0	RPL23AP64
52.2844666 2	1.728771177	0.1065365 49	16.22702444	3.25E-59	1.46E-58	ENSG0000024197 5	ELOCP19
286.532017 8	2.605170723	0.1847095 5	14.10414743	3.58E-45	1.23E-44	ENSG0000024219 3	CRYZL2P
68.7587316 8	2.411122527	0.1737190 01	13.87944045	8.44E-44	2.82E-43	ENSG0000024277 9	ZNF702P
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37.3916476 6	1.384511096	0.1688901 48	8.197701933	2.45E-16	4.50E-16	ENSG0000024317 5	RPSAP36
68.0957164 5	1.899211626	0.1313800 42	14.45586099	2.30E-47	8.25E-47	ENSG0000024332 3	PTPRVP
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39.0264633 3	1.707081796	0.1487147 52	11.47890021	1.68E-30	4.29E-30	ENSG0000024354 4	RN7SL172P
55.1051588 7	1.092190091	0.1073282 91	10.17616216	2.53E-24	5.61E-24	ENSG0000024365 0	RN7SL834P
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64.7667708	2.291026635	0.1058658 21	21.64085262	7.41E- 104	7.14E- 103	ENSG0000024455 6	ODCP
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158.9710026	4.19232929	0.11881564	35.28432205	1.02E-272	9.56E-271	ENSG00000248923	MTND5P11
91.30014328	2.630798811	0.112576405	23.36900705	8.83E-121	1.14E-119	ENSG00000248971	KRT8P46
150.7275627	2.894772032	0.09322326	31.05203615	1.07E-211	5.27E-210	ENSG00000249264	EEF1A1P9
59.94313445	2.463314125	0.157111888	15.67872527	2.11E-55	8.77E-55	ENSG00000249274	PDLIM1P4
38.97908809	1.050095112	0.137398781	7.642681431	2.13E-14	3.73E-14	ENSG00000249459	ZNF286B
166.9257332	2.529321598	0.107484968	23.53186352	1.93E-122	2.56E-121	ENSG00000249855	EEF1A1P19
190.8018694	1.896405039	0.096237095	19.70555152	1.93E-86	1.39E-85	ENSG00000250182	EEF1A1P13
48.69943967	1.566409042	0.103676746	15.10858614	1.42E-51	5.48E-51	ENSG00000250539	KRT8P33
92.99335233	2.390032565	0.066675213	35.84589306	2.13E-281	2.17E-279	ENSG00000250959	GLUD1P3
33.99662735	1.245792425	0.110473326	11.27686176	1.71E-29	4.26E-29	ENSG00000251593	MSNP1
54.86947843	1.092860789	0.148279338	7.370283693	1.70E-13	2.91E-13	ENSG00000251634	NAIPP4
52.96742034	1.086072074	0.133826274	8.115536956	4.84E-16	8.82E-16	ENSG00000251669	FAM86EP
37.96639806	1.380208608	0.153095294	9.015356187	1.96E-19	3.88E-19	ENSG00000253328	SUMO2P19
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174.3548413	1.150473489	0.198496054	5.795951422	6.79E-09	1.01E-08	ENSG00000254681	PKD1P5
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436.326477 2	1.647279367	0.0587118 99	28.05699361	3.28E- 173	9.64E- 172	ENSG0000025712 2	RRN3P3
86.7734956 9	-2.418361953	0.1962832 89	-12.32077351	7.00E-35	1.95E-34	ENSG0000025835 2	IFITM3P6
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42.5266114 2	1.70982634	0.1010143 9	16.926562	2.87E-64	1.41E-63	ENSG0000025931 5	ACTG1P17
79.7778824 3	1.5537172	0.1559544 4	9.962635221	2.22E-23	4.81E-23	ENSG0000025965 7	PIGHP1
36.3057501 4	-2.259117214	0.1478159 97	-15.2833067	9.88E-53	3.90E-52	ENSG0000025985 6	RAB43P1
40.2143214 7	1.251683337	0.0994145 39	12.59054617	2.38E-36	6.83E-36	ENSG0000025991 7	HNRNPLP2
39.4407538 7	1.383349034	0.1359118 78	10.17827916	2.48E-24	5.49E-24	ENSG0000026072 7	SLC7A5P1
112.077486 4	2.681749668	0.2397353 09	11.1862941	4.76E-29	1.18E-28	ENSG0000026137 7	PDCD6IPP2
245.886370 2	3.518402508	0.1698960 72	20.70914566	2.86E-95	2.38E-94	ENSG0000026290 2	MTCO1P40
274.206305 7	2.835917535	0.2136949 53	13.27086812	3.42E-40	1.07E-39	ENSG0000026294 3	ALOX12P2
278.676513 5	2.499494956	0.0936803 73	26.68109532	7.80E- 157	1.78E- 155	ENSG0000026314 2	LRRC37A17P
127.826872 9	1.748241606	0.1391827 43	12.56076416	3.47E-36	9.92E-36	ENSG0000026326 6	RPS7P1
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844.807104	2.28233411	0.0733736 78	31.10562498	2.02E- 212	1.01E- 210	ENSG0000026453 8	SUZ12P1
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1835.45222 5	-1.26889734	0.0641897 53	-19.76791137	5.63E-87	4.07E-86	ENSG0000026580 8	SEC22B
190.555581 1	1.345034663	0.1017128 75	13.22383877	6.39E-40	1.98E-39	ENSG0000026677 7	SH3GL1P1
282.250457 3	4.101098702	0.1248515 79	32.84779211	1.22E- 236	7.95E- 235	ENSG0000026702 3	LRRC37A16P
25.4052619 2	1.169831693	0.1006177 48	11.62649452	3.02E-31	7.81E-31	ENSG0000026735 5	RPL9P29

28.2447566	1.489464273	0.1214960 57	12.25936307	1.50E-34	4.13E-34	ENSG0000026754 1	MTCO2P2
110.361108 1	1.667999524	0.1849684 96	9.01774928	1.92E-19	3.79E-19	ENSG0000026884 9	SIGLEC22P
305.157763 7	1.239124636	0.0898971 99	13.78379585	3.19E-43	1.05E-42	ENSG0000026983 7	IPO5P1
69.5965159 2	-2.01596088	0.1453120 89	-13.87331842	9.19E-44	3.07E-43	ENSG0000027169 9	SNX29P2
306.673847 1	-4.117658958	0.1078616 08	-38.17539016	0.00E+0 0	0.00E+0 0	ENSG0000027255 6	GTF2IP13
266.669219 2	-1.483518452	0.0728765 86	-20.3565854	4.06E-92	3.18E-91	ENSG0000027265 5	POLR2J4
56.1766270 7	-1.381166854	0.1001021 53	-13.79757397	2.64E-43	8.71E-43	ENSG0000027448 7	NPEPPSP1
88.8838868 1	3.255550334	0.1945359 7	16.7349531	7.29E-63	3.48E-62	ENSG0000027496 3	RN7SL600P
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60.6250559	2.618336056	0.1892261 78	13.83707099	1.52E-43	5.06E-43	ENSG0000027745 2	RN7SL473P
67.6701582 5	2.729787384	0.1027794 89	26.5596512	1.99E- 155	4.45E- 154	ENSG0000027777 8	PGM5P2
181.543555 5	-1.061846092	0.0984848 38	-10.78182298	4.19E-27	9.92E-27	ENSG0000027945 7	WASH9P
100.468696 7	2.270123446	0.1230962 28	18.44186039	6.06E-76	3.62E-75	ENSG0000028003 9	RN7SKP23
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409.488196 4	1.469033396	0.1117095 51	13.15047271	1.69E-39	5.21E-39	ENSG0000000046 0	C1orf112
34632.7074 3	-3.744351388	0.2069477 65	-18.09321977	3.60E-73	2.06E-72	ENSG0000000093 8	FGR
279.025051 5	2.094553294	0.2218488 7	9.441352104	3.68E-21	7.58E-21	ENSG0000000097 1	CFH
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760.251493 4	2.165593888	0.0619240 44	34.9717775	6.04E- 268	5.32E- 266	ENSG0000000201 6	RAD52
465.427531	-1.361555607	0.0777178 87	-17.51920513	1.02E-68	5.37E-68	ENSG0000000233 0	BAD

2577.93660 7	-1.300863883	0.1060178 48	-12.27023476	1.31E-34	3.62E-34	ENSG00000000254 9	LAP3
1308.37412 2	-1.273001773	0.0795240 48	-16.00775864	1.13E-57	4.89E-57	ENSG00000000282 2	MAD1L1
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886.859719 3	-2.3021763	0.2868672 42	-8.02523246	1.01E-15	1.83E-15	ENSG00000000293 3	TMEM176A
125.646012 9	-2.366483687	0.2101877 28	-11.25890514	2.09E-29	5.21E-29	ENSG00000000324 9	DBNDD1
1432.85239 7	2.604980241	0.1086935 54	23.96628076	6.25E- 127	8.95E- 126	ENSG00000000339 3	ALS2
18177.7521 5	-1.703351091	0.1177460 18	-14.46631589	1.98E-47	7.09E-47	ENSG00000000340 2	CFLAR
778.846825 8	4.075592	0.1934026 27	21.07309533	1.40E-98	1.24E-97	ENSG00000000343 6	TFPI
212.483488 4	3.012840893	0.0906410 57	33.23925153	2.92E- 242	2.06E- 240	ENSG00000000398 7	MTMR7
2920.37626 4	-1.884967094	0.0862030 27	-21.86659978	5.40E- 106	5.45E- 105	ENSG00000000405 9	ARF5
6916.98066	1.504099025	0.1727098 34	8.708820962	3.07E-18	5.90E-18	ENSG00000000439 9	PLXND1
3845.54798 5	2.279449639	0.1410018 87	16.16609315	8.75E-59	3.88E-58	ENSG00000000446 8	CD38
1296.00067 5	-2.211673128	0.1529867 4	-14.45663279	2.28E-47	8.16E-47	ENSG00000000466 0	CAMKK1
536.693111 4	2.677611435	0.1963084 45	13.63981787	2.32E-42	7.54E-42	ENSG00000000480 9	SLC22A16
13075.9753 2	-3.002842182	0.3051686 27	-9.83994395	7.58E-23	1.62E-22	ENSG00000000493 9	SLC4A1
520.691243 2	-1.147884975	0.0581471 9	-19.74102228	9.58E-87	6.91E-86	ENSG00000000496 1	HCCS
5713.60706 9	-1.695948982	0.0795011 21	-21.33239076	5.68E- 101	5.21E- 100	ENSG00000000500 7	UPF1
4913.52388 4	-1.071601166	0.1513984 88	-7.078017622	1.46E-12	2.44E-12	ENSG00000000502 0	SKAP2
974.255982 9	-2.166492616	0.0768175 56	-28.2030924	5.36E- 175	1.62E- 173	ENSG00000000507 5	POLR2J
887.949923 1	1.008352308	0.1250737 2	8.062063757	7.50E-16	1.36E-15	ENSG00000000510 0	DHX33
1374.34542 2	1.079603568	0.0658838 22	16.38647444	2.39E-60	1.09E-59	ENSG00000000515 6	LIG3

1358.681925	3.818950448	0.17208777	22.1918751	4.11E-109	4.37E-108	ENSG000000005187	ACSM3
460.6119511	2.161828489	0.149161524	14.49320458	1.34E-47	4.81E-47	ENSG000000005189	REXO5
4078.228589	-2.710509775	0.138182125	-19.6154877	1.14E-85	8.09E-85	ENSG000000005238	FAM214B
68.6305245	-1.338714133	0.176975786	-7.564391514	3.90E-14	6.79E-14	ENSG000000005243	COPZ2
5688.381871	-2.383735314	0.118858536	-20.0552303	1.82E-89	1.36E-88	ENSG000000005302	MSL3
5584.435015	1.965637392	0.179619435	10.94334472	7.15E-28	1.72E-27	ENSG000000005379	TSPOAP1
95251.68171	3.977248672	0.31936356	12.45367091	1.34E-35	3.77E-35	ENSG000000005381	MPO
482.9322342	1.143580865	0.104729298	10.91939778	9.31E-28	2.23E-27	ENSG000000005436	GCFC2
433.7083184	-1.40559208	0.120291015	-11.68492995	1.52E-31	3.96E-31	ENSG000000005448	WDR54
66.69599306	-1.539891344	0.16691805	-9.225433328	2.82E-20	5.69E-20	ENSG000000005471	ABCB4
2881.742774	-2.796846009	0.11892097	-23.51852675	2.64E-122	3.49E-121	ENSG000000005486	RHBDD2
1636.640724	1.317791056	0.119472187	11.0301074	2.74E-28	6.64E-28	ENSG000000005700	IBTK
936.7874785	1.582853406	0.106144627	14.91223297	2.74E-50	1.03E-49	ENSG000000005801	ZNF195
6267.896881	1.809124727	0.095610565	18.92180768	7.54E-80	4.82E-79	ENSG000000005810	MYCBP2
15582.59922	-1.535822212	0.129688881	-11.84235842	2.36E-32	6.23E-32	ENSG000000005844	ITGAL
1685.515236	1.017775166	0.075480465	13.4839546	1.94E-41	6.20E-41	ENSG000000005889	ZFX
3473.963424	-2.206415211	0.270085885	-8.169309588	3.10E-16	5.68E-16	ENSG000000005961	ITGA2B
896.1787369	-1.026933037	0.081722543	-12.56609253	3.24E-36	9.28E-36	ENSG000000006015	REX1BD
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1332.263207	-1.220214769	0.082996298	-14.70203847	6.25E-49	2.30E-48	ENSG000000006062	MAP3K14
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193.0298188	-1.760319751	0.151205776	-11.64188169	2.52E-31	6.54E-31	ENSG000000006432	MAP3K9

2526.48810 3	-1.308962324	0.1626771 81	-8.046379441	8.53E-16	1.54E-15	ENSG00000000645 9	KDM7A
150.279776 8	-2.296968394	0.1600703 69	-14.34974136	1.07E-46	3.79E-46	ENSG00000000655 5	TTC22
4255.6095	-2.291230362	0.1281681 24	-17.87675664	1.79E-71	9.92E-71	ENSG00000000665 2	IFRD1
2440.44345 6	-1.986220302	0.0698092 82	-28.45209466	4.59E- 178	1.47E- 176	ENSG00000000671 2	PAF1
1394.68760 9	1.50797362	0.1287226 82	11.71490216	1.07E-31	2.79E-31	ENSG00000000675 6	ARSD
1785.79326 8	-1.115252744	0.0883842 27	-12.61823273	1.68E-36	4.82E-36	ENSG00000000704 7	MARK4
1363.57340 1	-2.476732566	0.0909303 2	-27.23769777	2.32E- 163	5.82E- 162	ENSG00000000708 0	CCDC124
798.930124 2	-2.716157254	0.1413470 44	-19.21622966	2.71E-82	1.80E-81	ENSG00000000712 9	CEACAM21
6660.31650 8	1.383092476	0.0456734 74	30.28218264	1.97E- 201	8.54E- 200	ENSG00000000720 2	KIAA0100
10349.1758 1	-1.586440614	0.1842347 5	-8.610973835	7.24E-18	1.38E-17	ENSG00000000723 7	GAS7
576.169449 1	-1.370101238	0.0833657 7	-16.43481779	1.08E-60	4.95E-60	ENSG00000000725 5	TRAPPC6A
2087.38589 9	-2.151887841	0.2151118 38	-10.00357702	1.47E-23	3.20E-23	ENSG00000000726 4	MATK
1521.21876 3	-2.224460242	0.1159041 91	-19.19223301	4.30E-82	2.85E-81	ENSG00000000731 2	CD79B
416.878459 6	1.681380157	0.0594844 81	28.2658624	9.09E- 176	2.78E- 174	ENSG00000000734 1	ST7L
758.667076 6	-4.547635075	0.3072876 15	-14.79927877	1.48E-49	5.50E-49	ENSG00000000735 0	TKTL1
934.922855 8	-1.04485983	0.0763979 71	-13.67653896	1.40E-42	4.58E-42	ENSG00000000737 6	RPUSD1
156.135589 6	1.968136633	0.1883173 09	10.45117227	1.45E-25	3.30E-25	ENSG00000000738 4	RHBDF1
564.585003 3	-2.207233775	0.2067811 68	-10.67424947	1.34E-26	3.14E-26	ENSG00000000751 6	BAIAP3
769.297881 5	-1.680287189	0.0723042 33	-23.23912612	1.83E- 119	2.30E- 118	ENSG00000000752 0	TSR3
2263.54046 1	-1.030292007	0.1025358 66	-10.0481134	9.36E-24	2.05E-23	ENSG00000000794 4	MYLIP
1459.42835 2	-1.46197834	0.1251621 57	-11.68067392	1.60E-31	4.16E-31	ENSG00000000796 8	E2F2
203.852294 9	-3.019914731	0.2205421 79	-13.6931391	1.12E-42	3.65E-42	ENSG00000000805 6	SYN1

391.776497 1	-1.029478187	0.1498033 31	-6.872198248	6.32E-12	1.04E-11	ENSG00000000808 6	CDKL5
1058.34965 1	-2.196770219	0.0789830 35	-27.81319089	3.00E- 170	8.40E- 169	ENSG00000000812 8	CDK11A
9928.77008 9	-2.698102994	0.1269493 47	-21.25338223	3.07E- 100	2.78E-99	ENSG00000000813 0	NADK
242.354462 9	-1.086628222	0.1525354 55	-7.123774731	1.05E-12	1.76E-12	ENSG00000000822 6	DLEC1
79.1795619 2	1.287585652	0.2533073 25	5.08309679	3.71E-07	5.24E-07	ENSG00000000831 1	AASS
132.512766 8	2.371449229	0.1423958 96	16.65391557	2.83E-62	1.34E-61	ENSG00000000832 3	PLEKHG6
2714.48241 2	2.078738362	0.1634247 14	12.71985317	4.59E-37	1.34E-36	ENSG00000000839 4	MGST1
4668.27605 1	-6.710862251	0.2732445 79	-24.55990991	3.39E- 133	5.38E- 132	ENSG00000000843 8	PGLYRP1
23215.0738 9	-6.87048463	0.2521540 8	-27.24716817	1.80E- 163	4.50E- 162	ENSG00000000851 6	MMP25
3392.27658 4	-4.885336486	0.1564100 67	-31.2341564	3.66E- 214	1.88E- 212	ENSG00000000851 7	IL32
2902.33461 2	1.30675588	0.0871659 22	14.99159133	8.33E-51	3.16E-50	ENSG00000000871 0	PKD1
2702.04813 1	1.796536725	0.0596547 05	30.11559126	3.03E- 199	1.27E- 197	ENSG00000000886 9	HEATR5B
1887.91913 4	2.230429054	0.0987524 75	22.58605715	5.94E- 113	6.78E- 112	ENSG00000000941 3	REV3L
437.561433 1	-1.002709287	0.2309322 97	-4.34200543	1.41E-05	1.88E-05	ENSG00000000969 4	TENM1
233.419793 6	2.813664167	0.1112975 83	25.28055044	5.23E- 141	9.49E- 140	ENSG00000000972 4	MASP2
501.545423 3	1.013965335	0.0661454 04	15.32933911	4.87E-53	1.94E-52	ENSG00000000983 0	POMT2
4295.89563 7	-1.610790003	0.0744368 11	-21.63969663	7.60E- 104	7.32E- 103	ENSG0000001025 6	UQCRC1
273.155189 6	-2.870022245	0.2043736 64	-14.04301408	8.50E-45	2.89E-44	ENSG0000001031 0	GIPR
316.862675 1	1.71878662	0.0619738 68	27.73405441	2.71E- 169	7.39E- 168	ENSG0000001031 8	PHF7
8496.09881 4	-1.687309057	0.0864608 08	-19.51530516	8.14E-85	5.68E-84	ENSG0000001040 4	IDS
539.085726 3	-1.389623605	0.0952687 46	-14.58635349	3.43E-48	1.25E-47	ENSG0000001053 9	ZNF200
113.441512 3	-1.286296706	0.1583239 17	-8.124462384	4.49E-16	8.20E-16	ENSG0000001070 4	HFE

1528.34253	1.746905922	0.0936882 13	18.64595192	1.36E-77	8.37E-77	ENSG0000001080 3	SCMH1
4198.21443 6	-1.980505612	0.1424738 73	-13.90083363	6.26E-44	2.10E-43	ENSG0000001081 0	FYN
2107.83268	-1.956357726	0.0735162 25	-26.6112375	5.03E- 156	1.14E- 154	ENSG0000001100 9	LYPLA2
984.366184 1	1.058788459	0.2047771 96	5.170441229	2.34E-07	3.32E-07	ENSG0000001102 8	MRC2
169.307700 4	-2.007369716	0.2073974 96	-9.678852203	3.71E-22	7.82E-22	ENSG0000001110 5	TSPAN9
1361.75817 4	1.362038864	0.0676217 82	20.14201386	3.16E-90	2.40E-89	ENSG0000001111 4	BTBD7
717.263374 5	-1.258497296	0.0670751 98	-18.76248357	1.53E-78	9.57E-78	ENSG0000001113 2	APBA3
2819.64296 4	-3.244552585	0.1503245 93	-21.58364452	2.56E- 103	2.44E- 102	ENSG0000001119 8	ABHD5
3319.71076 7	-1.42240837	0.0842005 96	-16.89309144	5.06E-64	2.47E-63	ENSG0000001124 3	AKAP8L
1662.16894 4	1.818359069	0.0777908 15	23.37498404	7.68E- 121	9.89E- 120	ENSG0000001125 8	MBTD1
1486.33736 2	2.092138134	0.0834610 84	25.06722944	1.13E- 138	1.96E- 137	ENSG0000001129 5	TTC19
1588.32685 1	1.250878608	0.0872079 05	14.34363782	1.17E-46	4.13E-46	ENSG0000001140 5	PIK3C2A
11430.7241 8	-3.848659425	0.2209149 77	-17.42145089	5.67E-68	2.96E-67	ENSG0000001142 2	PLAUR
815.799332 6	1.691912137	0.1845677 11	9.166891275	4.87E-20	9.75E-20	ENSG0000001142 6	ANLN
183.022793	-1.354617791	0.2334303 55	-5.803091848	6.51E-09	9.71E-09	ENSG0000001146 5	DCN
485.705929 2	2.408995909	0.1003965 65	23.99480416	3.15E- 127	4.54E- 126	ENSG0000001156 6	MAP4K3
383.955509 8	-3.062676329	0.1891537 03	-16.19146901	5.79E-59	2.58E-58	ENSG0000001159 0	ZBTB32
20830.5478 7	-3.431339844	0.2358388 24	-14.5495122	5.88E-48	2.13E-47	ENSG0000001160 0	TYROBP
1283.65809	1.772338535	0.1414738 33	12.52767738	5.27E-36	1.50E-35	ENSG0000001204 8	BRCA1
2442.36241 9	-3.291561324	0.1703149 21	-19.32632389	3.23E-83	2.18E-82	ENSG0000001212 4	CD22
86.6434495 5	-1.23094292	0.1399949 66	-8.792765585	1.46E-18	2.82E-18	ENSG0000001217 1	SEMA3B
413.479018 8	1.583550776	0.1197411 96	13.22477838	6.31E-40	1.96E-39	ENSG0000001217 4	MBTPS2

38916.21008	-5.908917869	0.370761146	-15.93726294	3.49E-57	1.50E-56	ENSG00000012223	LTF
2163.177004	-1.731720152	0.127690718	-13.56183268	6.74E-42	2.18E-41	ENSG00000012232	EXTL3
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18963.82881	-3.838746421	0.204756334	-18.74787633	2.01E-78	1.26E-77	ENSG00000012779	ALOX5
4693.830965	-1.336117618	0.092936002	-14.37674955	7.24E-47	2.57E-46	ENSG00000012822	CALCOCO1
1323.737455	1.578794161	0.083711734	18.8598908	2.44E-79	1.55E-78	ENSG00000012983	MAP4K5
1837.202915	-1.326314673	0.056155601	-23.61856423	2.48E-123	3.36E-122	ENSG00000013275	PSMC4
58662.87101	-5.885137096	0.186135841	-31.61743093	2.13E-219	1.16E-217	ENSG00000013306	SLC25A39
11794.11913	-3.366091022	0.127655891	-26.36847375	3.15E-153	6.86E-152	ENSG00000013364	MVP
942.6393229	1.022349507	0.066785868	15.30787176	6.77E-53	2.68E-52	ENSG00000013523	ANGEL1
2439.200207	-3.18158687	0.202997583	-15.67302836	2.31E-55	9.58E-55	ENSG00000013725	CD6
6293.172609	-1.083442426	0.084087341	-12.88472685	5.49E-38	1.63E-37	ENSG00000013810	TACC3
2925.51366	-1.441415501	0.116954674	-12.32456513	6.68E-35	1.86E-34	ENSG00000014164	ZC3H3
7658.846063	-1.03629005	0.082544254	-12.55435714	3.76E-36	1.07E-35	ENSG00000014216	CAPN1
1299.749295	1.292671441	0.085301124	15.15421346	7.11E-52	2.76E-51	ENSG00000015171	ZMYND11
14030.07473	-2.957939704	0.124990078	-23.66539614	8.19E-124	1.12E-122	ENSG00000015285	WAS
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637.8405778	2.949435951	0.085656155	34.43343857	7.97E-260	6.49E-258	ENSG00000015479	MATR3
3063.500037	1.043559361	0.094262744	11.07075094	1.74E-28	4.24E-28	ENSG00000017260	ATP2C1
2959.725571	-2.699344714	0.143165774	-18.85467905	2.69E-79	1.71E-78	ENSG00000017483	SLC38A5
3966.575892	-1.007592239	0.068421594	-14.7262316	4.37E-49	1.61E-48	ENSG00000017797	RALBP1
942.1563535	1.365563747	0.093635054	14.58389443	3.56E-48	1.29E-47	ENSG00000018189	RUFY3

40821.09089	-5.099754705	0.270748883	-18.83573681	3.85E-79	2.43E-78	ENSG00000018280	SLC11A1
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600.9520801	1.235530909	0.1130367	10.9303519	8.25E-28	1.98E-27	ENSG00000018699	TTC27
86.78156509	1.474489774	0.076275132	19.33119925	2.94E-83	1.99E-82	ENSG00000018869	ZNF582
545.444027	2.442916381	0.110135026	22.18110318	5.23E-109	5.54E-108	ENSG00000019485	PRDM11
94334.86538	-1.250504806	0.148898397	-8.398376563	4.53E-17	8.46E-17	ENSG00000019582	CD74
2899.027724	2.957766674	0.253513736	11.66708646	1.88E-31	4.88E-31	ENSG00000019991	HGF
680.4065598	3.846958149	0.184920719	20.80328357	4.04E-96	3.43E-95	ENSG00000020181	ADGRA2
7962.81444	-2.695648825	0.160575305	-16.78744323	3.02E-63	1.45E-62	ENSG00000020633	RUNX3
1586.078106	1.097539774	0.072678315	15.10133764	1.59E-51	6.11E-51	ENSG00000020922	MRE11
257.5889695	-1.533412937	0.138243742	-11.09209657	1.37E-28	3.35E-28	ENSG00000021300	PLEKHB1
23651.68877	-1.329256961	0.190771112	-6.967810503	3.22E-12	5.32E-12	ENSG00000021355	SERPINB1
4888.211789	-2.222878841	0.089573661	-24.81621065	5.99E-136	9.87E-135	ENSG00000022277	RTF2
3296.856429	-3.602219757	0.162678508	-22.14318174	1.21E-108	1.28E-107	ENSG00000022567	SLC45A4
27913.31161	-3.513203858	0.138119461	-25.43597999	1.01E-142	1.87E-141	ENSG00000022840	RNF10
4959.926482	-1.132361052	0.085670712	-13.21759817	6.94E-40	2.15E-39	ENSG00000023191	RNH1
2544.103936	-1.702735446	0.086649202	-19.65090749	5.68E-86	4.05E-85	ENSG00000023330	ALAS1
2191.745925	-1.967944922	0.144668527	-13.603131	3.84E-42	1.24E-41	ENSG00000023445	BIRC3
2229.911037	1.234131582	0.129350915	9.5409575	1.42E-21	2.95E-21	ENSG00000023516	AKAP11
6318.225821	-2.144137738	0.092002326	-23.30525588	3.92E-120	4.99E-119	ENSG00000023892	DEF6
3789.195235	-1.27630581	0.093168837	-13.69884874	1.03E-42	3.38E-42	ENSG00000023902	PLEKHO1
338.6036808	2.263070313	0.219884531	10.29208516	7.65E-25	1.72E-24	ENSG00000024422	EHD2

1075.89485 1	-1.712406365	0.0720247 73	-23.77524141	6.02E- 125	8.38E- 124	ENSG0000002486 2	CCDC28A
8080.60312 1	-3.036082922	0.1790365 51	-16.95789443	1.68E-64	8.27E-64	ENSG0000002570 8	TYMP
1399.63770 9	-1.049671188	0.0761483 62	-13.78455368	3.16E-43	1.04E-42	ENSG0000002577 0	NCAPH2
1357.53671	-1.383395324	0.1050826 75	-13.16482782	1.40E-39	4.31E-39	ENSG0000002610 3	FAS
11028.9458 2	-2.569904657	0.1072376 9	-23.96456554	6.51E- 127	9.32E- 126	ENSG0000002629 7	RNASET2
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4685.10118 7	-1.45052457	0.0996027 32	-14.56310022	4.82E-48	1.75E-47	ENSG0000007251 8	MARK2
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347.384522 5	1.336246626	0.0994195 93	13.44047572	3.50E-41	1.11E-40	ENSG0000007493 5	TUBE1
2192.95036 4	-1.746173336	0.1174671 19	-14.86520955	5.54E-50	2.07E-49	ENSG0000007523 4	TTC38
1571.89794 1	1.000696835	0.0899457 47	11.12556032	9.42E-29	2.31E-28	ENSG0000007524 0	GRAMD4
208.883652 2	1.206990203	0.1674600 73	7.207629763	5.69E-13	9.60E-13	ENSG0000007527 5	CELSR1
3770.74297 1	1.1653409	0.0709171 56	16.43242564	1.12E-60	5.15E-60	ENSG0000007529 2	ZNF638
213.701830 3	3.718753174	0.1612711 79	23.05900653	1.19E- 117	1.46E- 116	ENSG0000007539 1	RASAL2
2842.93243 6	-3.21973224	0.1540338 83	-20.90275324	5.05E-97	4.33E-96	ENSG0000007539 9	VPS9D1
999.688706 1	1.681637622	0.1101908 13	15.26114186	1.39E-52	5.47E-52	ENSG0000007540 7	ZNF37A
5369.31459	1.154520878	0.1200249 45	9.619007739	6.65E-22	1.40E-21	ENSG0000007542 0	FNDC3B
19685.5811 3	-1.789888914	0.1889653 34	-9.472049052	2.74E-21	5.67E-21	ENSG0000007542 6	FOSL2
3302.44529 9	1.475964359	0.0663135 12	22.25736981	9.57E- 110	1.03E- 108	ENSG0000007553 9	FRYL
288709.325 1	-2.047679069	0.0901124 64	-22.72359418	2.62E- 114	3.05E- 113	ENSG0000007562 4	ACTB
1347.33036 1	1.94667936	0.1102541	17.65629899	9.10E-70	4.88E-69	ENSG0000007565 1	PLD1
715.644775	1.241935965	0.1332417 78	9.320920106	1.15E-20	2.34E-20	ENSG0000007570 2	WDR62
1641.55669 8	1.525482212	0.0804863 28	18.95330864	4.15E-80	2.66E-79	ENSG0000007571 1	DLG1

14801.6508 1	-2.069404116	0.0965520 47	-21.43304242	6.57E- 102	6.13E- 101	ENSG0000007578 5	RAB7A
876.713113 1	1.874631178	0.1015706 18	18.45643173	4.63E-76	2.77E-75	ENSG0000007606 7	RBMS2
126.966082 8	1.077962633	0.0802755 13	13.42828713	4.13E-41	1.31E-40	ENSG0000007625 8	FMO4
596.062263 8	1.140599425	0.0597142 15	19.10096979	2.48E-81	1.63E-80	ENSG0000007632 1	KLHL20
102.545261 5	1.46655211	0.1132765 97	12.94664692	2.45E-38	7.37E-38	ENSG0000007635 1	SLC46A1
5977.55696 7	-1.474124346	0.0795289 81	-18.53568769	1.06E-76	6.44E-76	ENSG0000007651 3	ANKRD13A
712.989543 4	-1.678319211	0.1735948 82	-9.668022395	4.12E-22	8.69E-22	ENSG0000007655 4	TPD52
716.138473 9	1.123531469	0.1276891 26	8.798959654	1.38E-18	2.68E-18	ENSG0000007655 5	ACACB
950.995909 7	-1.008364942	0.1621733 37	-6.217821991	5.04E-10	7.79E-10	ENSG0000007660 4	TRAF4
5572.45077 4	-1.366365228	0.1395268 11	-9.792850708	1.21E-22	2.58E-22	ENSG0000007664 1	PAG1
3700.01492 6	-3.204310765	0.1401976 88	-22.85566047	1.28E- 115	1.52E- 114	ENSG0000007666 2	ICAM3
154.736831 7	-1.066025118	0.1742877 22	-6.116467109	9.57E-10	1.46E-09	ENSG0000007670 6	MCAM
51.7117807 8	-2.342559933	0.1812550 71	-12.92410704	3.29E-38	9.85E-38	ENSG0000007682 6	CAMSAP3
895.517981 5	-4.23928838	0.2748429 35	-15.42440369	1.12E-53	4.51E-53	ENSG0000007686 4	RAP1GAP
2656.7054	-1.529807417	0.0684274 44	-22.35663529	1.04E- 110	1.14E- 109	ENSG0000007692 4	XAB2
21421.3841 5	-2.05290574	0.1020389 52	-20.11884386	5.05E-90	3.82E-89	ENSG0000007692 8	ARHGEF1
17297.3926 3	-3.754913172	0.1421820 3	-26.40919658	1.07E- 153	2.37E- 152	ENSG0000007694 4	STXBP2
1983.45758 8	-1.127351297	0.0674979 16	-16.70201637	1.27E-62	6.04E-62	ENSG0000007698 4	MAP2K7
7088.98143 6	-1.117321976	0.0833489 61	-13.40534983	5.63E-41	1.78E-40	ENSG0000007704 4	DGKD
7187.90391 6	1.055615644	0.0573340 87	18.41165878	1.06E-75	6.30E-75	ENSG0000007709 7	TOP2B
4529.18945 6	-3.229024279	0.0996738 43	-32.39590419	3.13E- 230	1.90E- 228	ENSG0000007715 0	NFKB2
2400.65761 9	1.439250627	0.0844141 49	17.04987426	3.50E-65	1.74E-64	ENSG0000007723 2	DNAJC10

13278.5635 4	-3.884893746	0.1537936 21	-25.26043481	8.70E- 141	1.57E- 139	ENSG0000007723 8	IL4R
12445.8395 3	-2.031069516	0.1177347 39	-17.25123393	1.10E-66	5.61E-66	ENSG0000007742 0	APBB1IP
8672.30233 4	-2.894069698	0.1128240 15	-25.65118517	4.10E- 145	7.91E- 144	ENSG0000007745 4	LRCH4
699.523309 7	-1.278693585	0.0754924 36	-16.93803587	2.36E-64	1.16E-63	ENSG0000007746 3	SIRT6
14322.3794 4	-2.149304431	0.0750096 33	-28.65371222	1.44E- 180	4.75E- 179	ENSG0000007754 9	CAPZB
442.148951 5	-1.719806868	0.1216572 41	-14.13649408	2.26E-45	7.80E-45	ENSG0000007758 5	GPR137B
75.3971429 7	1.218329813	0.1379495 9	8.831703054	1.03E-18	2.00E-18	ENSG0000007761 6	NAALAD2
503.998950 6	1.022443221	0.0821734 43	12.44250189	1.54E-35	4.33E-35	ENSG0000007771 3	SLC25A43
1042.57768 2	1.008916929	0.1934748 96	5.214717518	1.84E-07	2.63E-07	ENSG0000007778 2	FGFR1
25078.498	-3.689993638	0.2583939 05	-14.28049797	2.90E-46	1.02E-45	ENSG0000007798 4	CST7
1317.79922 5	1.178667281	0.0948181 16	12.43082363	1.78E-35	5.00E-35	ENSG0000007804 3	PIAS2
305.052944 4	-1.813726934	0.2566119 4	-7.067975619	1.57E-12	2.62E-12	ENSG0000007805 3	AMPH
4594.77738 1	-1.416736299	0.0780403 08	-18.15390441	1.20E-73	6.90E-73	ENSG0000007806 1	ARAF
1327.68961 3	2.673340347	0.1192803 69	22.41224081	2.99E- 111	3.32E- 110	ENSG0000007817 7	N4BP2
5146.67394 6	-1.082376787	0.0554291 68	-19.52720621	6.45E-85	4.51E-84	ENSG0000007830 4	PPP2R5C
49.4978989 3	-3.146633093	0.1526249 56	-20.6167666	1.94E-94	1.59E-93	ENSG0000007840 1	EDN1
2214.01754	2.040565662	0.0732553 51	27.855517	9.24E- 171	2.62E- 169	ENSG0000007840 3	MLLT10
485.212854 9	-2.416707236	0.1739213 22	-13.8954052	6.75E-44	2.26E-43	ENSG0000007858 9	P2RY10
2568.24867	1.013186884	0.1861331 57	5.443344422	5.23E-08	7.59E-08	ENSG0000007859 6	ITM2A
9838.66144 6	-1.387222979	0.0788852	-17.58533902	3.19E-69	1.69E-68	ENSG0000007861 8	NRDC
5596.53523	1.161712529	0.0813741 54	14.2761857	3.08E-46	1.08E-45	ENSG0000007867 4	PCM1
3513.07585 9	-1.181193385	0.0627265 93	-18.83082322	4.22E-79	2.67E-78	ENSG0000007880 8	SDF4

261.583492 6	2.71277348	0.1005671 78	26.97474007	2.92E- 160	7.06E- 159	ENSG0000007881 4	MYH7B
2633.92453 6	-1.759442384	0.0994252 72	-17.69612852	4.49E-70	2.42E-69	ENSG0000007890 2	TOLLIP
1229.24665 3	1.686667695	0.0770736 9	21.88383218	3.70E- 106	3.74E- 105	ENSG0000007913 4	THOC1
111.118947 1	2.501645545	0.1402934 85	17.83151614	4.02E-71	2.21E-70	ENSG0000007915 0	FKBP7
289.941958	1.144023616	0.1263143 18	9.05695912	1.34E-19	2.66E-19	ENSG0000007925 7	LXN
1193.92078 3	-2.699127464	0.1268870 82	-21.27188541	2.07E- 100	1.88E-99	ENSG0000007926 3	SP140
7829.71528 7	-2.390655426	0.1591894 88	-15.01767141	5.62E-51	2.14E-50	ENSG0000007927 7	MKNK1
3501.38431 6	-1.987655861	0.2064482 18	-9.627866386	6.10E-22	1.28E-21	ENSG0000007930 8	TNS1
788.356924 2	1.61165429	0.0804638 92	20.02953443	3.04E-89	2.27E-88	ENSG0000007933 5	CDC14A
245.813480 8	1.545338235	0.1293299 23	11.94880661	6.59E-33	1.76E-32	ENSG0000007933 7	RAPGEF3
2837.74564 6	-3.902134465	0.2165252 32	-18.02161548	1.32E-72	7.44E-72	ENSG0000007938 5	CEACAM1
6665.63367 5	-1.049022342	0.0980602 66	-10.69773097	1.04E-26	2.44E-26	ENSG0000007943 2	CIC
4941.23622	-1.042565038	0.0570148 72	-18.28584361	1.07E-74	6.28E-74	ENSG0000007945 9	FDFT1
123.380606 3	2.664911368	0.1752277 5	15.20827246	3.12E-52	1.22E-51	ENSG0000007948 2	OPHN1
1817.79920 5	-1.731182055	0.1002057 44	-17.27627572	7.10E-67	3.64E-66	ENSG0000007973 9	PGM1
13955.2441 1	-1.263414826	0.0862938 89	-14.64083765	1.54E-48	5.62E-48	ENSG0000007980 5	DNM2
54.3305552 1	1.571165698	0.1705468 44	9.212517007	3.19E-20	6.41E-20	ENSG0000008000 7	DDX43
401.652553 6	2.700791929	0.1611195 07	16.76266257	4.58E-63	2.20E-62	ENSG0000008020 0	CRYBG3
3192.02087 3	2.025240621	0.1089679 15	18.58566001	4.20E-77	2.56E-76	ENSG0000008034 5	RIF1
44.6243566 9	-1.08059252	0.2039058 05	-5.299469137	1.16E-07	1.67E-07	ENSG0000008056 1	MID2
109.478988 3	-1.672575738	0.2065110 88	-8.099205484	5.53E-16	1.01E-15	ENSG0000008057 3	COL5A3
219.134477 7	2.605314921	0.1640768 99	15.87862116	8.91E-57	3.79E-56	ENSG0000008082 3	MOK

935.781582 7	1.854853318	0.1102270 55	16.82756853	1.53E-63	7.41E-63	ENSG0000008083 9	RBL1
138.297391 4	1.20813508	0.1373568 22	8.795595761	1.42E-18	2.75E-18	ENSG0000008102 6	MAGI3
176.930499	1.956379852	0.2323500 31	8.41996813	3.77E-17	7.05E-17	ENSG0000008104 1	CXCL2
2837.94130 5	-1.923372018	0.1449970 56	-13.26490391	3.70E-40	1.15E-39	ENSG0000008105 9	TCF7
47.2635030 7	1.61435789	0.1405256 15	11.48799731	1.52E-30	3.86E-30	ENSG0000008114 8	IMPG2
368.832652 9	1.364536627	0.0959409 2	14.22267611	6.63E-46	2.31E-45	ENSG0000008117 7	EXD2
35016.2313 8	-1.859558142	0.1257932 8	-14.78265092	1.90E-49	7.03E-49	ENSG0000008123 7	PTPRC
9720.08569 3	-1.062675704	0.1146016 24	-9.27278052	1.81E-20	3.67E-20	ENSG0000008132 0	STK17B
133.234307 3	-1.119075657	0.1709589 68	-6.545872803	5.91E-11	9.42E-11	ENSG0000008137 7	CDC14B
467.890408 8	1.603114155	0.0775499 53	20.67201958	6.19E-95	5.12E-94	ENSG0000008138 6	ZNF510
1281.45853 5	1.513883014	0.0707410 35	21.40035138	1.33E- 101	1.23E- 100	ENSG0000008166 5	ZNF506
520.103924 7	5.214941125	0.1111310 9	46.92603227	0.00E+0 0	0.00E+0 0	ENSG0000008192 3	ATP8B1
1457.33225 2	-2.165529607	0.1899237 29	-11.40210133	4.08E-30	1.03E-29	ENSG0000008201 4	SMARCD3
5217.39504	-3.581961997	0.1803017 11	-19.86648918	7.94E-88	5.80E-87	ENSG0000008214 6	STRADB
172.350910 7	1.851161109	0.0890235 39	20.7940634	4.90E-96	4.13E-95	ENSG0000008219 6	C1QTNF3
496.760989 4	2.120251988	0.1445929 81	14.66358863	1.10E-48	4.03E-48	ENSG0000008226 9	FAM135A
91.2142844 4	-1.93702554	0.2331760 2	-8.307138689	9.80E-17	1.82E-16	ENSG0000008229 3	COL19A1
765.865619 8	-1.16145707	0.2767811 18	-4.196301672	2.71E-05	3.57E-05	ENSG0000008239 7	EPB41L3
541.890190 7	2.948981342	0.2245207 78	13.13455871	2.09E-39	6.41E-39	ENSG0000008243 8	COBLL1
212.270193 5	-2.069555023	0.1781238 19	-11.61863157	3.31E-31	8.55E-31	ENSG0000008245 8	DLG3
427.487566 6	-1.886977001	0.1788553 15	-10.55029873	5.06E-26	1.17E-25	ENSG0000008278 1	ITGB5
1390.55388 7	2.140844056	0.0675789 06	31.67917591	3.01E- 220	1.66E- 218	ENSG0000008280 5	ERC1

7130.53763	1.128273804	0.0950967 93	11.86447801	1.81E-32	4.80E-32	ENSG0000008289 8	XPO1
3165.67246 6	-1.951521279	0.1248593 69	-15.62975444	4.57E-55	1.88E-54	ENSG0000008299 6	RNF13
435.848752 4	1.075321941	0.1034458 61	10.39502143	2.61E-25	5.93E-25	ENSG0000008309 3	PALB2
963.762208	1.504011381	0.0905421 9	16.61116638	5.79E-62	2.72E-61	ENSG0000008309 7	DOP1A
3757.26565	-1.16948421	0.0942560 44	-12.40752492	2.38E-35	6.69E-35	ENSG0000008322 3	TUT7
3266.09534 8	-1.763493319	0.1081751 53	-16.30220316	9.52E-60	4.31E-59	ENSG0000008344 4	PLOD1
1081.04594	-2.346134787	0.1352161 8	-17.35099145	1.94E-67	1.00E-66	ENSG0000008345 4	P2RX5
642.604594 6	1.778186604	0.0963722 04	18.45123927	5.10E-76	3.05E-75	ENSG0000008353 5	PIBF1
453.725644 1	1.170076657	0.0793982 05	14.73681496	3.74E-49	1.38E-48	ENSG0000008375 0	RRAGB
1315.08035 6	1.617508714	0.0763763 98	21.17812251	1.52E-99	1.36E-98	ENSG0000008384 4	ZNF264
1195.09368 7	-1.375528157	0.0872938 24	-15.75745102	6.10E-56	2.56E-55	ENSG0000008393 7	CHMP2B
36442.7551 3	-3.463680248	0.1464300 97	-23.65415518	1.07E- 123	1.46E- 122	ENSG0000008407 0	SMAP2
2225.04978 7	1.714539825	0.0738513 96	23.2160786	3.13E- 119	3.92E- 118	ENSG0000008409 3	REST
2964.20905	-1.584085245	0.2386679 32	-6.637193483	3.20E-11	5.14E-11	ENSG0000008411 0	HAL
6604.96662 9	-1.103660463	0.0883217 33	-12.49591047	7.86E-36	2.23E-35	ENSG0000008420 7	GSTP1
287.976539 2	1.468862512	0.0980654 92	14.97838321	1.02E-50	3.85E-50	ENSG0000008444 4	FAM234B
3699.27387 3	-1.216369557	0.0607149 08	-20.03411663	2.78E-89	2.07E-88	ENSG0000008462 3	EIF3I
621.284231 4	-1.114132581	0.1540390 13	-7.232794869	4.73E-13	8.00E-13	ENSG0000008473 1	KIF3C
313.202086 1	-2.43490756	0.1462162 07	-16.65278844	2.89E-62	1.37E-61	ENSG0000008476 4	MAPRE3
2650.27746 6	1.163937831	0.0908371 63	12.81345428	1.38E-37	4.06E-37	ENSG0000008477 4	CAD
3586.83805	-2.616882102	0.1718018 28	-15.23198059	2.17E-52	8.52E-52	ENSG0000008506 3	CD59
6155.36381 7	-1.923619791	0.1194654 7	-16.10188941	2.47E-58	1.09E-57	ENSG0000008511 7	CD82

4484.84752 7	1.88270895	0.0808167 35	23.29602846	4.86E- 120	6.18E- 119	ENSG0000008522 4	ATRX
27912.7509 6	-2.884828606	0.3043027 68	-9.480126076	2.54E-21	5.25E-21	ENSG0000008526 5	FCN1
933.956624	1.271885256	0.0784763 5	16.2072428	4.48E-59	2.00E-58	ENSG0000008536 5	SCAMP1
494.302238 8	1.929033447	0.1137313 72	16.96131347	1.59E-64	7.81E-64	ENSG0000008538 2	HACE1
1372.91537 9	1.520473723	0.1101574 08	13.80273695	2.45E-43	8.12E-43	ENSG0000008541 5	SEH1L
131.140409 1	-1.176268984	0.1154747 8	-10.18637128	2.28E-24	5.06E-24	ENSG0000008546 5	OVGP1
4064.11453 5	-3.095379715	0.1847681 71	-16.75277562	5.40E-63	2.59E-62	ENSG0000008551 4	PILRA
1542.80012	-1.61747232	0.1053300 45	-15.35622933	3.22E-53	1.28E-52	ENSG0000008566 2	AKR1B1
389.694098 3	-2.441811206	0.1780146 65	-13.71691038	8.04E-43	2.63E-42	ENSG0000008573 3	CTTN
1287.75171 1	1.070598856	0.0896942 32	11.93609482	7.67E-33	2.05E-32	ENSG0000008578 8	DDHD2
881.845417 9	1.293523973	0.0861313 93	15.01803154	5.59E-51	2.13E-50	ENSG0000008598 2	USP40
425.393633 3	1.306996916	0.1889024 59	6.918898391	4.55E-12	7.49E-12	ENSG0000008599 9	RAD54L
5449.22622 3	-1.638834413	0.0745227 43	-21.9910639	3.51E- 107	3.59E- 106	ENSG0000008606 2	B4GALT1
1035.40338 5	1.192529907	0.0826313 35	14.43193314	3.26E-47	1.16E-46	ENSG0000008618 9	DIMT1
8042.15539 8	-1.620446558	0.1040701 36	-15.57071621	1.15E-54	4.71E-54	ENSG0000008623 2	EIF2AK1
504.213875 2	2.596168985	0.1622761 45	15.9984635	1.31E-57	5.67E-57	ENSG0000008628 9	EPDR1
1622.16236 8	-2.189120477	0.0705130 5	-31.04560755	1.31E- 211	6.42E- 210	ENSG0000008650 4	MRPL28
24039.2481 8	-11.22977911	0.2881400 06	-38.97334233	0.00E+0 0	0.00E+0 0	ENSG0000008650 6	HBQ1
1651.76158 3	-3.368465796	0.1635266 19	-20.59888368	2.81E-94	2.29E-93	ENSG0000008654 4	ITPKC
107.744680 6	1.678787919	0.1463055 82	11.47453091	1.77E-30	4.51E-30	ENSG0000008657 0	FAT2
823.939364 6	1.03142758	0.0894682 36	11.52842199	9.49E-31	2.43E-30	ENSG0000008671 2	TXLNG
10258.2456 5	-1.852618565	0.1253851 77	-14.77541935	2.11E-49	7.83E-49	ENSG0000008673 0	LAT2

11443.0204 2	1.063136825	0.0802201 92	13.25273343	4.35E-40	1.35E-39	ENSG0000008675 8	HUWE1
17126.2854	-2.486684162	0.1414458 85	-17.58046311	3.48E-69	1.84E-68	ENSG0000008707 4	PPP1R15A
517.162622 3	-1.064292296	0.1247950 34	-8.528322478	1.48E-17	2.81E-17	ENSG0000008707 7	TRIP6
216.367715 1	-2.065507966	0.2297340 49	-8.990865617	2.45E-19	4.83E-19	ENSG0000008708 5	ACHE
223891.286 2	-4.145801031	0.1376167 12	-30.12570915	2.23E- 199	9.39E- 198	ENSG0000008708 6	FTL
4450.31449 8	-1.071049429	0.0682628 77	-15.69007169	1.77E-55	7.34E-55	ENSG0000008708 7	SRRT
2770.46322 9	-1.668959622	0.0711641 95	-23.45223776	1.25E- 121	1.64E- 120	ENSG0000008708 8	BAX
4111.87836 3	-1.421080799	0.0916104 64	-15.51221048	2.87E-54	1.17E-53	ENSG0000008715 2	ATXN7L3
4923.30823 2	-2.152134916	0.1272825 22	-16.90833019	3.91E-64	1.91E-63	ENSG0000008715 7	PGS1
2580.77987 6	-1.761385722	0.0700910 62	-25.12996206	2.34E- 139	4.11E- 138	ENSG0000008720 6	UIMC1
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8134.18297 7	-1.434198316	0.0482235 22	-29.74063801	2.29E- 194	9.01E- 193	ENSG0000008736 5	SF3B2
860.556224 4	1.95587271	0.0737165 88	26.53232816	4.11E- 155	9.18E- 154	ENSG0000008744 8	KLHL42
46597.3822 2	-1.783587274	0.0921716 62	-19.35071184	2.01E-83	1.37E-82	ENSG0000008746 0	GNAS
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129.945033	1.869380729	0.0723610 49	25.83407441	3.67E- 147	7.34E- 146	ENSG0000008788 4	AAMDC
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41.6645203 3	-1.119404646	0.1914002 03	-5.848502935	4.96E-09	7.43E-09	ENSG0000008828 0	ASAP3
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610.286163 3	4.955776572	0.1398311 82	35.4411406	3.97E- 275	3.89E- 273	ENSG0000008830 5	DNMT3B
393.585731 8	-1.172151642	0.0560995 88	-20.894122	6.06E-97	5.18E-96	ENSG0000008835 6	PDRG1
122.936491 5	1.002333352	0.1921750 07	5.215732106	1.83E-07	2.61E-07	ENSG0000008853 8	DOCK3
218.816908 1	2.5267864	0.0743368 05	33.99105477	3.02E- 253	2.33E- 251	ENSG0000008872 7	KIF9
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1527.49819 2	1.829091964	0.0522298 41	35.02005614	1.11E- 268	1.01E- 266	ENSG0000008881 2	ATRN
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156.210969 8	-1.541415857	0.2585707 65	-5.961292084	2.50E-09	3.79E-09	ENSG0000008888 1	EBF4
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105.607070 1	-1.446762763	0.1542086 81	-9.381850341	6.48E-21	1.33E-20	ENSG0000008889 9	LZTS3
3134.66411 2	-3.255642687	0.1838453 02	-17.70859876	3.60E-70	1.95E-69	ENSG0000008899 2	TESC
267.730660 2	-2.366108294	0.2296314 61	-10.30393783	6.76E-25	1.52E-24	ENSG0000008901 2	SIRPG
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567.567289 6	1.423613131	0.1709472 94	8.32778979	8.24E-17	1.53E-16	ENSG0000008904 8	ESF1
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9927.96819 7	-2.495935693	0.1155648 58	-21.59770483	1.89E- 103	1.80E- 102	ENSG0000008935 1	GRAMD1A
197.654189	-1.38479653	0.1760148 53	-7.867498166	3.62E-15	6.46E-15	ENSG0000008950 5	CMTM1
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510.220246 5	2.272900256	0.0958939 89	23.70221833	3.42E- 124	4.72E- 123	ENSG0000008968 2	RBM41
561.363766 3	-3.695943768	0.2158307 12	-17.12427178	9.78E-66	4.92E-65	ENSG0000008969 2	LAG3
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46.7972844	2.132112781	0.1107865 79	19.24522634	1.55E-82	1.04E-81	ENSG0000008972 3	OTUB2
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6692.74047 9	-3.656898785	0.1794906 39	-20.37375768	2.86E-92	2.24E-91	ENSG0000009001 3	BLVRB
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15044.5045 7	-4.437842535	0.1567131 06	-28.31826041	2.06E- 176	6.40E- 175	ENSG0000009023 8	YPEL3
2631.16227 4	-1.6082917	0.0885957 85	-18.15314017	1.21E-73	6.99E-73	ENSG0000009027 3	NUDC
3811.89578 4	-1.822649423	0.0900646 99	-20.2371122	4.61E-91	3.56E-90	ENSG0000009031 6	MAEA
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875.238683 9	-4.484509648	0.1506625 16	-29.76526454	1.10E- 194	4.35E- 193	ENSG0000009055 4	FLT3LG
446.993852 4	1.493190547	0.1097627 29	13.60380306	3.80E-42	1.23E-41	ENSG0000009061 2	ZNF268
946.726292 2	-1.382260528	0.1493988 47	-9.252149905	2.20E-20	4.44E-20	ENSG0000009066 1	CERS4
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2203.58219 9	1.315544338	0.0628160 55	20.94280402	2.18E-97	1.89E-96	ENSG0000009090 5	TNRC6A
1221.33425 9	-2.090346867	0.0984135 81	-21.24043098	4.04E- 100	3.66E-99	ENSG0000009107 3	DTX2
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147.66805	1.158128937	0.1067088 39	10.85316784	1.93E-27	4.59E-27	ENSG0000009113 6	LAMB1
245.289404 4	1.951313238	0.1521646 47	12.82369643	1.21E-37	3.56E-37	ENSG0000009126 2	ABCC6
7014.68971 4	-1.228183287	0.1354970 39	-9.064281385	1.25E-19	2.49E-19	ENSG0000009131 7	CMTM6
1757.48447 4	2.135117813	0.1666003 27	12.81580806	1.34E-37	3.94E-37	ENSG0000009140 9	ITGA6
1370.72747	1.070691726	0.1421663 47	7.531260042	5.03E-14	8.74E-14	ENSG0000009143 6	MAP3K20
97.0134635 4	1.162850351	0.1993824 15	5.832261343	5.47E-09	8.17E-09	ENSG0000009151 3	TF
3212.75512 6	-1.161053485	0.0559759 79	-20.74199519	1.45E-95	1.21E-94	ENSG0000009154 2	ALKBH5
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141.452935 2	4.098573667	0.1281259 48	31.98863093	1.57E- 224	8.96E- 223	ENSG0000009187 9	ANGPT2
648.948960 6	-1.095366179	0.0590474 99	-18.55059394	8.07E-77	4.89E-76	ENSG0000009194 7	TMEM101
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8064.92406 2	-2.140430133	0.0664609 63	-32.20582475	1.46E- 227	8.68E- 226	ENSG0000009201 0	PSME1
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544.069396 6	-1.903723194	0.2681355 16	-7.099854652	1.25E-12	2.08E-12	ENSG0000009206 7	CEBPE
105.415463	-1.298742106	0.2147907 48	-6.046545853	1.48E-09	2.26E-09	ENSG0000009209 6	SLC22A17
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806.674962	1.234472067	0.1006782 23	12.26156	1.46E-34	4.02E-34	ENSG0000009214 0	G2E3
3768.29699 6	1.490510387	0.0731202 99	20.3843586	2.30E-92	1.81E-91	ENSG0000009214 8	HECTD1
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3318.15298 4	-1.25044783	0.0523075 15	-23.90570139	2.67E- 126	3.80E- 125	ENSG0000009220 3	TOX4
2861.02253 5	-1.749672945	0.0742206 85	-23.57392597	7.14E- 123	9.54E- 122	ENSG0000009233 0	TINF2
290.855087 3	1.388914472	0.1435976 93	9.672261762	3.96E-22	8.34E-22	ENSG0000009242 1	SEMA6A
2639.82336 9	1.698030682	0.0957598 79	17.73217243	2.37E-70	1.28E-69	ENSG0000009243 9	TRPM7
54.6915030 8	1.298238981	0.1655756 4	7.840760765	4.48E-15	7.98E-15	ENSG0000009244 5	TYRO3
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180.494789	-2.193441164	0.1978545 39	-11.0861301	1.46E-28	3.58E-28	ENSG0000009275 8	COL9A3
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11740.5092 4	-1.624594572	0.1124583 79	-14.44618526	2.65E-47	9.48E-47	ENSG0000009292 9	UNC13D
348.803758 9	1.272494905	0.0862165 15	14.7592942	2.68E-49	9.92E-49	ENSG0000009297 8	GPATCH2
464.884599 8	1.003173553	0.1767538 07	5.675541439	1.38E-08	2.04E-08	ENSG0000009300 9	CDC45
2033.28544 7	-4.970186347	0.2652966 09	-18.73445108	2.59E-78	1.61E-77	ENSG0000009313 4	VNN3
117.843628 2	2.201109533	0.1277863 93	17.22491324	1.73E-66	8.82E-66	ENSG0000009321 7	XYLB
4953.31767 2	1.380303393	0.1328539 78	10.38962785	2.76E-25	6.27E-25	ENSG0000009491 6	CBX5
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419.754132 3	-1.65515992	0.2147800 21	-7.706302987	1.30E-14	2.29E-14	ENSG0000009539 7	WHRN
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89.3838609 2	1.513605572	0.0965678 08	15.67401816	2.28E-55	9.44E-55	ENSG0000009553 9	SEMA4G
1049.24940 1	-2.971669182	0.1228863 81	-24.18224998	3.42E- 129	5.10E- 128	ENSG0000009579 4	CREM
1078.35741 3	-1.31246268	0.0581668 5	-22.56375735	9.84E- 113	1.12E- 111	ENSG0000009590 6	NUBP2
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562.892804 3	2.084547632	0.0834127 67	24.9907503	7.71E- 138	1.31E- 136	ENSG0000009609 3	EFHC1
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61.2445367 3	-2.333852079	0.1833667 31	-12.72778363	4.14E-37	1.21E-36	ENSG0000009669 6	DSP
312.849569 1	1.893037707	0.1249683 31	15.14813942	7.79E-52	3.02E-51	ENSG0000009687 2	IFT74

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576.724284 5	1.138181708	0.1401760 94	8.119656324	4.68E-16	8.53E-16	ENSG0000009704 6	CDC7
161.573345 9	-1.022328736	0.1961729 56	-5.211364291	1.87E-07	2.67E-07	ENSG0000009913 9	PCSK5
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617.44811	-2.580959386	0.0767706 52	-33.61908889	8.83E- 248	6.55E- 246	ENSG0000009920 3	TMED1
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188.913584 1	1.721323327	0.1223640 5	14.06723074	6.04E-45	2.06E-44	ENSG0000009933 8	CATSPERG
3061.52799 6	-1.510469739	0.0534091 73	-28.2810923	5.90E- 176	1.81E- 174	ENSG0000009934 1	PSMD8
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7838.97264 9	-1.689463987	0.0660547 33	-25.57672889	2.77E- 144	5.30E- 143	ENSG0000009962 2	CIRBP
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3483.62837 4	-3.710168899	0.1520088 15	-24.40759042	1.42E- 131	2.21E- 130	ENSG0000009978 5	2-Mar
854.857637 8	-1.969206964	0.0716333 8	-27.49007463	2.31E- 166	6.06E- 165	ENSG0000009979 5	NDUFB7
5450.63360 7	-4.378704639	0.1493182 07	-29.32465324	5.03E- 189	1.85E- 187	ENSG0000009980 4	CDC34

1023.52781 3	1.545025818	0.0909586 27	16.98602832	1.04E-64	5.14E-64	ENSG0000009981 0	MTAP
4029.56689 6	-1.895299307	0.0600529 23	-31.56048377	1.29E- 218	6.93E- 217	ENSG0000009981 7	POLR2E
151.017668 2	3.583646927	0.1286577 92	27.85409938	9.61E- 171	2.72E- 169	ENSG0000009983 4	CDHR5
150.196039 1	-1.889907867	0.1245257 63	-15.17684225	5.03E-52	1.96E-51	ENSG0000009984 0	IZUMO4
757.910570 4	-2.105693901	0.1014894 39	-20.74791149	1.28E-95	1.07E-94	ENSG0000009984 9	RASSF7
8779.62388 3	-4.662258936	0.1712727 88	-27.22124745	3.64E- 163	9.07E- 162	ENSG0000009986 0	GADD45B
309.785438 1	3.118341996	0.2114989 05	14.74401015	3.36E-49	1.24E-48	ENSG0000009986 4	PALM
31.8273623 9	-1.503365567	0.1330862 28	-11.29617687	1.37E-29	3.42E-29	ENSG0000009986 6	MADCAM1
13561.9532 5	-2.712990665	0.0684560 86	-39.63110997	0.00E+0 0	0.00E+0 0	ENSG0000009987 5	MKNK2
6397.43107 5	-1.105281762	0.0849832 29	-13.00588103	1.13E-38	3.43E-38	ENSG0000009991 7	MED15
86.8044586 5	1.468226171	0.1961317 5	7.485917863	7.10E-14	1.23E-13	ENSG0000009993 7	SERPIND1
413.636178 7	-1.752722819	0.0817100 19	-21.45052511	4.52E- 102	4.21E- 101	ENSG0000009997 7	DDT
3734.64563 5	-4.396332623	0.2297247 01	-19.13739625	1.23E-81	8.13E-81	ENSG0000009998 5	OSM
1171.50629 6	-2.335422017	0.0943889 23	-24.7425434	3.73E- 135	6.09E- 134	ENSG0000009999 2	TBC1D10A
6991.30646 3	-1.040880004	0.0705588 84	-14.75193405	2.99E-49	1.11E-48	ENSG0000009999 5	SF3A1
333.156968 1	3.415727388	0.2063790 98	16.55074288	1.58E-61	7.36E-61	ENSG0000009999 8	GGT5
174.995044 9	-2.50927449	0.1558975 24	-16.09566611	2.74E-58	1.20E-57	ENSG0000010002 4	UPB1
1105.03047	-2.203288478	0.1418117 74	-15.5367105	1.96E-54	7.98E-54	ENSG0000010003 1	GGT1
45.5604468 9	1.469444455	0.0663130 88	22.15919222	8.51E- 109	8.99E- 108	ENSG0000010003 8	TOP3B
15756.3570 7	-3.191843492	0.1796290 12	-17.76908675	1.23E-70	6.69E-70	ENSG0000010005 5	CYTH4
804.974791 5	-1.573901868	0.0670764 36	-23.46430386	9.45E- 122	1.24E- 120	ENSG0000010005 6	ESS2
7680.58172 4	-1.968471402	0.1518051 18	-12.96709512	1.88E-38	5.66E-38	ENSG0000010009 7	LGALS1

2191.42288 6	1.557560949	0.0841749 22	18.50385972	1.92E-76	1.16E-75	ENSG0000010009 9	HPS4
3898.25541 8	-2.673033296	0.1514931 41	-17.64458299	1.12E-69	6.00E-69	ENSG0000010010 0	PIK3IP1
1410.90874 9	1.364160671	0.0586623 54	23.25444836	1.28E- 119	1.62E- 118	ENSG0000010010 5	PATZ1
2528.00903 1	-2.140380407	0.0954299 28	-22.42881718	2.06E- 111	2.30E- 110	ENSG0000010010 6	TRIOBP
629.399187 5	4.5938952	0.1258423 31	36.50516605	9.18E- 292	1.04E- 289	ENSG0000010015 4	TTC28
83.1832796 2	2.379408742	0.1075047 3	22.13306105	1.52E- 108	1.60E- 107	ENSG0000010019 6	KDELR3
119.591820 5	1.231039074	0.1130084 06	10.89334071	1.24E-27	2.96E-27	ENSG0000010019 7	CYP2D6
3969.30032 7	-1.766792111	0.0982310 46	-17.98608664	2.50E-72	1.40E-71	ENSG0000010022 1	JOSD1
23922.6016 5	-3.456268099	0.1542212 31	-22.41110436	3.07E- 111	3.41E- 110	ENSG0000010022 5	FBXO7
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175.857881 5	-3.091854008	0.2084731 43	-14.83094638	9.24E-50	3.45E-49	ENSG0000010022 8	RAB36
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3541.00945 8	-1.712347681	0.0948363 91	-18.05580822	7.10E-73	4.03E-72	ENSG0000010025 8	LMF2
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28.8304451	1.309894373	0.1756137 56	7.458950837	8.72E-14	1.51E-13	ENSG0000010027 6	RASL10A
896.025060 4	1.095540027	0.0847501 22	12.92670737	3.18E-38	9.52E-38	ENSG0000010028 1	HMGXB4
6197.72854	-2.972510446	0.1400672 18	-21.22202821	5.98E- 100	5.39E-99	ENSG0000010028 4	TOM1
1908.98906 1	-3.55554186	0.0727428 49	-48.87823207	0.00E+0 0	0.00E+0 0	ENSG0000010028 8	CHKB
5900.25026 6	-4.070552892	0.2187699 2	-18.60654742	2.84E-77	1.74E-76	ENSG0000010029 2	HMOX1
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121.485726 3	-1.842189853	0.1522439 17	-12.10025257	1.05E-33	2.86E-33	ENSG0000010029 8	APOBEC3H
2254.38604 7	-2.086453585	0.1190988 78	-17.51866698	1.03E-68	5.42E-68	ENSG0000010029 9	ARSA

14243.7775 6	-3.862529547	0.1694255 52	-22.79779815	4.82E- 115	5.69E- 114	ENSG0000010030 0	TSPO
1550.29524 6	-2.160874048	0.1040514 12	-20.76736887	8.54E-96	7.18E-95	ENSG0000010030 7	CBX7
66.9077038 7	-1.494413227	0.1600455 61	-9.337423799	9.87E-21	2.01E-20	ENSG0000010031 1	PDGFB
384.934415 9	-1.459063871	0.0882320 91	-16.53665752	2.00E-61	9.29E-61	ENSG0000010031 9	ZMAT5
126.008858 5	2.061594669	0.1880009 03	10.9658764	5.58E-28	1.35E-27	ENSG0000010032 0	RBFOX2
1412.13726	2.128488694	0.1353909 38	15.72105731	1.08E-55	4.52E-55	ENSG0000010032 1	SYNGR1
7405.38961	-2.685702871	0.1316285 06	-20.40365687	1.55E-92	1.22E-91	ENSG0000010032 5	ASCC2
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147.393886 2	2.330806368	0.2385985 45	9.768736708	1.53E-22	3.26E-22	ENSG0000010033 6	APOL4
1098.04624 6	-1.533422647	0.0981827 37	-15.61804744	5.49E-55	2.26E-54	ENSG0000010034 2	APOL1
46968.8741 6	-1.060524707	0.0849390 43	-12.48571529	8.93E-36	2.53E-35	ENSG0000010034 5	MYH9
350.686049 8	-2.892230132	0.2133854 4	-13.55401816	7.50E-42	2.42E-41	ENSG0000010034 6	CACNA1I
550.242511	1.926069222	0.1461120 79	13.1821355	1.11E-39	3.43E-39	ENSG0000010035 0	FOXRED2
1452.02091 5	-2.480856535	0.1617115 17	-15.34124832	4.05E-53	1.61E-52	ENSG0000010035 1	GRAP2
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653.848229 1	1.697519393	0.0596200 3	28.4723001	2.58E- 178	8.27E- 177	ENSG0000010036 0	IFT27
16825.1782 1	-3.725372172	0.1613782 99	-23.0847158	6.59E- 118	8.12E- 117	ENSG0000010036 5	NCF4
8309.17347 1	-2.386705446	0.1844523 89	-12.93941196	2.70E-38	8.08E-38	ENSG0000010036 8	CSF2RB
313.146866 7	-1.86495373	0.1233807 11	-15.11543993	1.28E-51	4.94E-51	ENSG0000010037 9	KCTD17
6209.79627 3	-3.930903097	0.1804448 4	-21.78451375	3.25E- 105	3.24E- 104	ENSG0000010038 5	IL2RB
3765.62195 9	-1.074397438	0.0960612 98	-11.18449846	4.86E-29	1.20E-28	ENSG0000010040 1	RANGAP1
431.442365 7	-2.140970237	0.0986080 19	-21.71192825	1.58E- 104	1.55E- 103	ENSG0000010041 7	PMM1

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2586.63257 5	1.469481071	0.1828561 11	8.036269961	9.26E-16	1.68E-15	ENSG0000010042 7	MLC1
443.024838 3	2.57035441	0.1030032 69	24.95410516	1.93E- 137	3.24E- 136	ENSG0000010042 9	HDAC10
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2272.03358 9	-5.465604746	0.2754280 87	-19.84403554	1.24E-87	9.06E-87	ENSG0000010045 0	GZMH
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258.861806 9	1.323947895	0.2239990 82	5.910505887	3.41E-09	5.13E-09	ENSG0000010047 3	COCH
461.260849 5	1.543344341	0.0560360 24	27.5420028	5.52E- 167	1.46E- 165	ENSG0000010047 8	AP4S1
319.258603 7	2.18634612	0.1795642 74	12.17584139	4.18E-34	1.14E-33	ENSG0000010047 9	POLE2
103.589906 8	1.269700295	0.0994929 16	12.76171556	2.68E-37	7.85E-37	ENSG0000010049 0	CDKL1
18775.7125 7	-2.855742966	0.2174041 59	-13.13564093	2.06E-39	6.32E-39	ENSG0000010050 4	PYGL
314.802221 6	1.348740197	0.1498153 71	9.002682381	2.20E-19	4.34E-19	ENSG0000010052 2	GNPNAT1
1195.83614 7	-1.330317445	0.0754793 74	-17.62491365	1.59E-69	8.46E-69	ENSG0000010055 4	ATP6V1D
856.310718 1	1.288887679	0.0811690 57	15.87905204	8.85E-57	3.77E-56	ENSG0000010057 8	KIAA0586
45.5494626 9	1.114637759	0.1878092 98	5.934944507	2.94E-09	4.43E-09	ENSG0000010058 3	SAMD15
2653.63090 7	-1.355684801	0.0931284 81	-14.557145	5.26E-48	1.90E-47	ENSG0000010059 1	AHSA1
617.369638	1.17889828	0.1328222 43	8.875759449	6.95E-19	1.36E-18	ENSG0000010059 2	DAAM1
14434.6243 9	-2.289287826	0.1366801 71	-16.74923146	5.74E-63	2.75E-62	ENSG0000010059 9	RIN3
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4385.594938	-1.421581504	0.066149418	-21.49046137	1.91E-102	1.80E-101	ENSG00000100897	DCAF11
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256.3772486	-1.764831468	0.086772961	-20.33849549	5.87E-92	4.58E-91	ENSG00000100908	EMC9
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705.042749 7	-3.051467902	0.0682145 17	-44.73340913	0.00E+0 0	0.00E+0 0	ENSG0000010092 6	TM9SF1
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51.9652047 1	2.040236491	0.1394663 52	14.6288797	1.84E-48	6.70E-48	ENSG0000010104 9	SGK2
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3980.66423 2	-1.291306665	0.0543887 44	-23.74216745	1.32E- 124	1.84E- 123	ENSG0000010118 2	PSMA7
304.569241 7	-1.301442468	0.2815722 47	-4.622055197	3.80E-06	5.16E-06	ENSG0000010118 8	NTSR1
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163.277691 2	-1.531857082	0.1737448 9	-8.816702945	1.18E-18	2.29E-18	ENSG0000010129 8	SNPH
8948.50501 1	-3.175144151	0.2699434 93	-11.7622548	6.11E-32	1.60E-31	ENSG0000010130 7	SIRPB1
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187.969525 9	-1.147415187	0.1373005 29	-8.356961139	6.44E-17	1.20E-16	ENSG0000010140 0	SNTA1
5233.61922 7	-2.566915279	0.0754065 49	-34.04101237	5.51E- 254	4.28E- 252	ENSG0000010142 1	CHMP4B
5094.96023 5	-3.74741869	0.3458271 51	-10.83610317	2.32E-27	5.52E-27	ENSG0000010142 5	BPI
10135.8948 7	-1.260439045	0.1992634 94	-6.325489043	2.52E-10	3.94E-10	ENSG0000010143 9	CST3
2782.25586 2	-2.351730591	0.1614582 72	-14.56556276	4.65E-48	1.69E-47	ENSG0000010144 5	PPP1R16B
1659.89401	-2.021662488	0.1042754 49	-19.38771304	9.80E-84	6.71E-83	ENSG0000010145 7	DNTTIP1
524.039778 8	-3.359953875	0.1842852 92	-18.23234967	2.86E-74	1.66E-73	ENSG0000010146 0	MAP1LC3A
630.738101 9	1.073132778	0.0880239 03	12.19137917	3.46E-34	9.47E-34	ENSG0000010146 4	PIGU

61.9539778 6	-3.452748776	0.2095152 76	-16.47969948	5.13E-61	2.37E-60	ENSG0000010147 0	TNNC2
10802.1384 8	-2.955623542	0.1326460 64	-22.28202972	5.52E- 110	5.97E- 109	ENSG0000010147 4	APMAP
14364.8939 3	-2.504693665	0.1124398 03	-22.27586318	6.33E- 110	6.83E- 109	ENSG0000010160 8	MYL12A
214.107126 2	1.500195239	0.1203591 96	12.46431751	1.17E-35	3.30E-35	ENSG0000010162 4	CEP76
2074.25575 1	1.510323731	0.0942889 85	16.01802935	9.56E-58	4.15E-57	ENSG0000010163 9	CEP192
429.974381 7	-2.890300753	0.1435033 02	-20.14100523	3.23E-90	2.45E-89	ENSG0000010166 5	SMAD7
1723.61453	1.455696782	0.1191493 19	12.21741583	2.51E-34	6.90E-34	ENSG0000010169 5	RNF125
2978.79773 5	1.314466379	0.0846870 57	15.52145533	2.48E-54	1.01E-53	ENSG0000010174 5	ANKRD12
834.837189 7	1.36940745	0.1109022 47	12.34787827	5.00E-35	1.40E-34	ENSG0000010175 1	POLI
2289.61247 1	1.718152643	0.1110643 31	15.46988694	5.54E-54	2.24E-53	ENSG0000010175 2	MIB1
5847.61643	-1.845656372	0.1091894 22	-16.90325257	4.26E-64	2.08E-63	ENSG0000010178 2	RIOK3
62.6358301 7	-1.845450462	0.2019912 69	-9.136288269	6.46E-20	1.29E-19	ENSG0000010184 2	VSIG1
2805.52407 2	-1.471884264	0.1215037 11	-12.11390375	8.91E-34	2.42E-33	ENSG0000010184 9	TBL1X
794.328375 2	1.205692114	0.1329168 52	9.071025217	1.18E-19	2.34E-19	ENSG0000010186 8	POLA1
695.302117 4	1.16387404	0.1155710 23	10.07063892	7.45E-24	1.63E-23	ENSG0000010188 8	NXT2
85.8994459 6	3.219341245	0.0912382 73	35.28498661	9.98E- 273	9.40E- 271	ENSG0000010189 8	MCTS2P
1616.14501 4	1.365685993	0.0728704 95	18.74127503	2.28E-78	1.42E-77	ENSG0000010190 1	ALG13
4553.31743 1	-2.776713814	0.3132579 15	-8.863986141	7.72E-19	1.51E-18	ENSG0000010191 6	TLR8
556.597088 9	1.031718762	0.1007685 37	10.23850096	1.33E-24	2.97E-24	ENSG0000010193 5	AMMECR1
2585.87900 1	-1.836125027	0.0892894 96	-20.56372936	5.80E-94	4.69E-93	ENSG0000010194 0	WDR13
1269.21054 6	-1.019820097	0.1309705 2	-7.786638502	6.88E-15	1.22E-14	ENSG0000010198 6	ABCD1
1183.93182 8	-1.377514914	0.0692308 15	-19.89742451	4.28E-88	3.14E-87	ENSG0000010199 7	CCDC22

82.1357779 4	-1.774599659	0.1344693 88	-13.19705315	9.12E-40	2.82E-39	ENSG0000010200 3	SYT
11008.309	-2.133633068	0.1456632 35	-14.64771165	1.39E-48	5.09E-48	ENSG0000010200 7	PLP2
1247.42414 6	-1.815069485	0.0660654 9	-27.47379119	3.61E- 166	9.45E- 165	ENSG0000010203 0	NAA10
1029.68894	-2.181905223	0.1378459 33	-15.82857887	1.98E-56	8.35E-56	ENSG0000010203 2	RENBP
133.646384 1	2.597453524	0.1027491 95	25.2795512	5.36E- 141	9.72E- 140	ENSG0000010205 3	ZC3H12B
439.483632 1	-1.051015058	0.1167014 61	-9.006014559	2.14E-19	4.22E-19	ENSG0000010205 7	KCND1
4921.59570 7	-2.02965363	0.0982210 55	-20.6641399	7.28E-95	6.02E-94	ENSG0000010209 6	PIM2
423.659073 3	4.988483688	0.1509485 69	33.04757183	1.69E- 239	1.13E- 237	ENSG0000010209 8	SCML2
1488.64243 8	-1.356535431	0.0661890 32	-20.49486745	2.39E-93	1.92E-92	ENSG0000010210 3	PQBP1
3220.79186 2	-2.922584731	0.1321893 39	-22.10908054	2.58E- 108	2.71E- 107	ENSG0000010211 9	EMD
2529.64791 4	-1.527238603	0.0836673 74	-18.25369347	1.93E-74	1.13E-73	ENSG0000010212 5	TAZ
28341.4167 1	-2.374638669	0.0757426 08	-31.35142447	9.30E- 216	4.85E- 214	ENSG0000010214 4	PGK1
1203.84315 3	-2.728502045	0.2692666 56	-10.13308549	3.94E-24	8.69E-24	ENSG0000010214 5	GATA1
1015.79648 7	-1.05632934	0.0629265 08	-16.78671469	3.05E-63	1.47E-62	ENSG0000010217 8	UBL4A
1106.91403 4	1.472655942	0.1217767 75	12.09307722	1.15E-33	3.12E-33	ENSG0000010218 9	EEA1
359.803192 5	1.881246477	0.1117471 32	16.83485238	1.36E-63	6.57E-63	ENSG0000010222 1	JADE3
2848.99530 2	-1.036461969	0.0752407 06	-13.77528243	3.59E-43	1.18E-42	ENSG0000010222 5	CDK16
1403.57067 3	1.024401815	0.0718494 95	14.25760634	4.02E-46	1.41E-45	ENSG0000010224 1	HTATSF1
278.026143	-2.548489656	0.2271406 1	-11.21987678	3.26E-29	8.07E-29	ENSG0000010224 5	CD40LG
13922.7609 9	-3.394651946	0.1809692 31	-18.75817188	1.66E-78	1.04E-77	ENSG0000010226 5	TIMP1
389.643841	-1.276972011	0.0879663 56	-14.51659551	9.51E-48	3.43E-47	ENSG0000010231 2	PORCN
223.609613 4	1.449651288	0.2211043 57	6.556412128	5.51E-11	8.78E-11	ENSG0000010238 4	CENPI

1828.90002 6	-3.042884895	0.1789790 38	-17.00134791	8.03E-65	3.97E-64	ENSG0000010244 5	RUBCNL
190.267448 4	-1.552027999	0.1705432 17	-9.100496786	8.99E-20	1.79E-19	ENSG0000010255 4	KLF5
995.062762 8	-3.119374603	0.1480000 77	-21.07684446	1.30E-98	1.15E-97	ENSG0000010257 5	ACP5
166.366097 6	1.554364726	0.1095799 87	14.1847501	1.14E-45	3.95E-45	ENSG0000010274 3	SLC25A15
191.439853 2	-2.581567714	0.1796369 82	-14.37102583	7.87E-47	2.79E-46	ENSG0000010275 5	FLT1
572.122815 9	1.83769962	0.0913572 32	20.11553523	5.40E-90	4.07E-89	ENSG0000010278 1	KATNAL1
906.269517 9	-1.855357689	0.1332627 73	-13.92255051	4.62E-44	1.55E-43	ENSG0000010279 6	DHRS12
1699.35563 4	1.362016824	0.1105383 23	12.32167077	6.92E-35	1.93E-34	ENSG0000010280 4	TSC22D1
6924.40236 4	-1.066150632	0.0922439 25	-11.55794951	6.73E-31	1.73E-30	ENSG0000010285 8	MGRN1
615.273434 7	2.162387004	0.0775286 03	27.89147382	3.39E- 171	9.72E- 170	ENSG0000010287 0	ZNF629
1089.75069	-2.48679497	0.0674355 27	-36.87662974	1.10E- 297	1.31E- 295	ENSG0000010287 1	TRADD
222.701927 6	-1.162044269	0.1019181 88	-11.40173601	4.10E-30	1.04E-29	ENSG0000010287 8	HSF4
35343.2714 6	-2.408373662	0.1071161 14	-22.48376621	5.98E- 112	6.74E- 111	ENSG0000010287 9	CORO1A
4826.92651	-2.976958549	0.1193406 2	-24.9450568	2.42E- 137	4.06E- 136	ENSG0000010288 2	MAPK3
370.041654 3	-2.049016373	0.1363172 05	-15.03123821	4.58E-51	1.75E-50	ENSG0000010288 6	GDPD3
2858.95530 8	1.147181763	0.0511287 38	22.43712275	1.71E- 111	1.91E- 110	ENSG0000010289 3	PHKB
970.420106 9	-1.167724571	0.1093603 53	-10.6777689	1.29E-26	3.02E-26	ENSG0000010289 7	LYRM1
3986.32708	1.613693465	0.0842053 64	19.16378476	7.43E-82	4.92E-81	ENSG0000010290 8	NFAT5
4066.84001 1	-1.954845793	0.0915708 64	-21.34790168	4.08E- 101	3.75E- 100	ENSG0000010292 1	N4BP1
112.819266 2	2.256446388	0.0544327 8	41.45381487	0.00E+0 0	0.00E+0 0	ENSG0000010293 1	ARL2BP
485.021762 1	1.279256255	0.0844244 03	15.15268348	7.27E-52	2.82E-51	ENSG0000010296 7	DHODH
1651.05701 3	-1.102787568	0.0500298 92	-22.04257332	1.13E- 107	1.16E- 106	ENSG0000010297 8	POLR2C

118.965781 3	-2.154112986	0.0857065 96	-25.13357299	2.14E- 139	3.75E- 138	ENSG0000010298 1	PARD6A
118.496325 5	-1.51231487	0.0760317 16	-19.89057932	4.91E-88	3.59E-87	ENSG0000010298 4	ZNF821
110.155915 3	2.284338096	0.2041318 57	11.19050267	4.54E-29	1.12E-28	ENSG0000010299 6	MMP15
5278.29222 5	-2.376779698	0.1183450 91	-20.08346673	1.03E-89	7.75E-89	ENSG0000010300 5	USB1
629.395450 1	-1.863354657	0.0873292 35	-21.33712338	5.14E- 101	4.72E- 100	ENSG0000010302 4	NME3
362.779259 6	1.119225307	0.0786481 77	14.23078511	5.90E-46	2.06E-45	ENSG0000010303 7	SETD6
57.1943803	1.158573637	0.1054980 18	10.981947	4.67E-28	1.13E-27	ENSG0000010304 4	HAS3
912.155501 7	1.081952879	0.0726426 09	14.89419086	3.60E-50	1.35E-49	ENSG0000010306 4	SLC7A6
297.190521 8	5.203658473	0.1065076 31	48.85714239	0.00E+0 0	0.00E+0 0	ENSG0000010306 7	ESRP2
2511.20932 1	-1.024349647	0.0772589 93	-13.25864617	4.02E-40	1.25E-39	ENSG0000010312 6	AXIN1
664.676773 2	-1.891514632	0.0893148 12	-21.17806203	1.52E-99	1.36E-98	ENSG0000010314 5	HCFC1R1
6913.83413 3	-2.735225078	0.1543042 66	-17.7261793	2.63E-70	1.43E-69	ENSG0000010314 8	NPRL3
714.448203 6	1.122514145	0.0656968 17	17.08627905	1.88E-65	9.37E-65	ENSG0000010315 0	MLYCD
38217.2355 3	-3.457448708	0.1427020 45	-24.22844544	1.12E- 129	1.67E- 128	ENSG0000010318 7	COTL1
4723.15118 2	-1.071115827	0.0896362 23	-11.94958684	6.52E-33	1.74E-32	ENSG0000010319 4	USP10
2748.35883 7	-3.189140235	0.2536321 94	-12.57387787	2.94E-36	8.42E-36	ENSG0000010319 6	CRISPLD2
4352.19229 1	1.456960681	0.0806887 35	18.05655634	7.01E-73	3.98E-72	ENSG0000010322 2	ABCC1
255.649171 9	-1.167422461	0.0794363 01	-14.69633459	6.80E-49	2.50E-48	ENSG0000010325 4	ANTKMT
725.556389 6	-1.137306004	0.0724963 15	-15.68777676	1.83E-55	7.61E-55	ENSG0000010326 6	STUB1
6097.65531 2	-3.897472318	0.2765146 18	-14.09499559	4.08E-45	1.40E-44	ENSG0000010331 3	MEFV
1585.39738 1	1.516437993	0.1104448 68	13.73027125	6.69E-43	2.19E-42	ENSG0000010331 9	EEF2K
8772.21357 6	1.407385639	0.0957671 47	14.69591275	6.85E-49	2.51E-48	ENSG0000010333 5	PIEZO1

7479.36535 9	-1.148987004	0.1180957 1	-9.729286554	2.26E-22	4.80E-22	ENSG0000010334 2	GSPT1
396.501899 8	1.246386425	0.0729487 72	17.08577656	1.89E-65	9.44E-65	ENSG0000010335 1	CLUAP1
3282.57392 2	-2.583806073	0.1076944 35	-23.99201093	3.37E- 127	4.84E- 126	ENSG0000010336 3	ELOB
7545.75800 4	-2.535335592	0.1775844 63	-14.27678721	3.05E-46	1.07E-45	ENSG0000010338 1	CPPED1
395.506769 9	1.206905352	0.0849845 61	14.20146604	8.97E-46	3.12E-45	ENSG0000010340 4	USP31
1280.55626 5	-1.67431621	0.0633049 25	-26.44843545	3.80E- 154	8.43E- 153	ENSG0000010341 5	HMOX2
2226.90451 4	1.835008744	0.0995246 44	18.43773235	6.54E-76	3.91E-75	ENSG0000010348 9	XYLT1
2063.60266	-1.966458872	0.1508698 71	-13.034139	7.82E-39	2.37E-38	ENSG0000010349 0	PYCARD
163.174312	1.872055513	0.1586509 25	11.79983989	3.91E-32	1.03E-31	ENSG0000010349 4	RPGRIP1L
2059.10936 3	1.65494828	0.0706265 9	23.4323684	2.00E- 121	2.61E- 120	ENSG0000010349 5	MAZ
2561.25282 4	-1.822453529	0.0784887 54	-23.21929487	2.91E- 119	3.64E- 118	ENSG0000010349 6	STX4
2526.00604 4	-1.740560303	0.0975943 22	-17.8346472	3.80E-71	2.09E-70	ENSG0000010350 2	CDIPT
3047.06312 8	-2.099734243	0.0869814 29	-24.14002921	9.50E- 129	1.41E- 127	ENSG0000010350 7	BCKDK
2283.27382 9	-1.038677569	0.0927803 71	-11.19501414	4.31E-29	1.07E-28	ENSG0000010351 0	KAT8
664.990518 1	-3.373715753	0.1571639 44	-21.46621978	3.22E- 102	3.02E- 101	ENSG0000010352 2	IL21R
41.674	-1.529731231	0.1862698 39	-8.212447274	2.17E-16	3.98E-16	ENSG0000010353 4	TMC5
1245.41484 3	1.227045272	0.0975890 17	12.57360005	2.95E-36	8.45E-36	ENSG0000010354 0	CCP110
364.168758 6	1.524861356	0.1070462 49	14.24488365	4.82E-46	1.69E-45	ENSG0000010355 0	KNOP1
27494.0564 5	-6.815615941	0.2943956 43	-23.15121201	1.41E- 118	1.75E- 117	ENSG0000010356 9	AQP9
9959.75129 2	-2.054957031	0.0805647 7	-25.50689383	1.65E- 143	3.12E- 142	ENSG0000010365 3	CSK
47.4696940 3	1.389184635	0.1510143 96	9.19902124	3.61E-20	7.26E-20	ENSG0000010374 0	ACSBG1
4799.01584	-2.508265143	0.1239003 29	-20.244217	3.99E-91	3.08E-90	ENSG0000010381 1	CTSH

118.166414 4	1.088811127	0.1843219 19	5.907116916	3.48E-09	5.23E-09	ENSG0000010385 2	TTC23
98.6755402 3	1.513079583	0.2342046 15	6.460502858	1.04E-10	1.65E-10	ENSG0000010385 5	CD276
132.595561	2.936365015	0.1008862 09	29.10571272	3.04E- 186	1.08E- 184	ENSG0000010388 8	CEMIP
345.936073 9	1.847751918	0.1392560 95	13.26873282	3.51E-40	1.10E-39	ENSG0000010394 2	HOMER2
1318.04144 6	-1.39609605	0.1272847 44	-10.96829049	5.43E-28	1.31E-27	ENSG0000010396 6	EHD4
863.077080 2	1.402200513	0.1363331 54	10.28510288	8.23E-25	1.84E-24	ENSG0000010399 5	CEP152
4639.95922 8	3.42512211	0.1825200 26	18.7657332	1.44E-78	9.01E-78	ENSG0000010404 3	ATP8B4
589.593454 4	1.938379209	0.0826280 63	23.45909063	1.07E- 121	1.40E- 120	ENSG0000010404 7	DTWD1
4919.54435 1	2.222195669	0.1505095 84	14.76447949	2.48E-49	9.19E-49	ENSG0000010409 3	DMXL2
2204.57521 5	-1.870380019	0.1093827 53	-17.09940528	1.50E-65	7.49E-65	ENSG0000010414 2	VPS18
117.975316 5	1.371145205	0.1803613 77	7.602210777	2.91E-14	5.09E-14	ENSG0000010414 7	OIP5
842.568031 6	2.775324773	0.0916652 53	30.27673718	2.32E- 201	1.00E- 199	ENSG0000010421 8	CSPP1
724.121471 3	1.13466918	0.1197862 39	9.472450135	2.73E-21	5.65E-21	ENSG0000010423 1	ZFAND1
2583.76384 3	-2.993464997	0.2002099 46	-14.95162984	1.52E-50	5.74E-50	ENSG0000010432 4	CPQ
2109.52867 5	-1.359792897	0.0798008 02	-17.03983992	4.16E-65	2.06E-64	ENSG0000010432 5	DECR1
712.185063 3	2.44261541	0.1887121 09	12.94360718	2.55E-38	7.66E-38	ENSG0000010434 1	LAPTM4B
984.686049 1	1.494033891	0.1141903	13.08371977	4.08E-39	1.25E-38	ENSG0000010436 1	NIPAL2
9521.10825 7	-1.688737684	0.1684318 43	-10.02623767	1.17E-23	2.55E-23	ENSG0000010441 9	NDRG1
380.630800 3	-1.882857864	0.1659900 84	-11.34319481	8.02E-30	2.01E-29	ENSG0000010449 0	NCALD
290.670633 9	1.115809329	0.1077299 67	10.35746466	3.87E-25	8.75E-25	ENSG0000010449 7	SNX16
3882.24137	-1.897820454	0.0928567 44	-20.43815411	7.66E-93	6.08E-92	ENSG0000010451 8	GSDMD
3440.65167 9	-3.093371387	0.1580422 34	-19.57306793	2.62E-85	1.85E-84	ENSG0000010452 2	TSTA3

4988.74155 9	-1.338018914	0.0652363 36	-20.51033197	1.74E-93	1.40E-92	ENSG0000010452 9	EEF1D
817.719330 8	1.477467795	0.0799925 66	18.47006385	3.60E-76	2.16E-75	ENSG0000010464 3	MTMR9
2810.12699 4	-1.168102966	0.0857192 11	-13.62708495	2.76E-42	8.97E-42	ENSG0000010468 7	GSR
201.701420 8	1.011009437	0.0897663 29	11.26267993	2.01E-29	4.99E-29	ENSG0000010469 1	UBXN8
183.280281 8	1.661436026	0.1763938 94	9.418897612	4.56E-21	9.36E-21	ENSG0000010472 8	ARHGEF10
3215.84095 2	1.35919878	0.1748278 21	7.774499358	7.57E-15	1.34E-14	ENSG0000010473 8	MCM4
10574.7504 3	-1.874416532	0.1183385 07	-15.83944713	1.66E-56	7.04E-56	ENSG0000010476 3	ASAHI
7673.27833 7	-2.218224407	0.1157234 15	-19.16832828	6.81E-82	4.51E-81	ENSG0000010476 5	BNIP3L
10090.7918 7	-2.131193168	0.1063687 37	-20.0358981	2.68E-89	2.00E-88	ENSG0000010480 5	NUCB1
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3533.01571 5	-1.418079008	0.0681010 49	-20.82315967	2.67E-96	2.27E-95	ENSG0000010482 3	ECH1
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43.5763759 4	-1.120960369	0.1888039 58	-5.937165634	2.90E-09	4.38E-09	ENSG0000010653 8	RARRES2
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6587.58481 6	-1.315750783	0.0452721 14	-29.06316197	1.05E- 185	3.70E- 184	ENSG0000010668 2	EIF4H
1742.94474 3	-1.188040272	0.0714746 57	-16.6218394	4.84E-62	2.28E-61	ENSG0000010668 3	LIMK1
669.022025 2	1.584645788	0.1172675 77	13.51307695	1.31E-41	4.20E-41	ENSG0000010669 2	FKTN
2033.42808 2	2.431331216	0.0690776 81	35.19705918	2.22E- 271	2.06E- 269	ENSG0000010672 3	SPIN1
601.510613 6	-1.553045456	0.0984508 5	-15.77483027	4.64E-56	1.94E-55	ENSG0000010673 3	NMRK1
1929.26690 2	1.283872032	0.0806256 53	15.92386524	4.33E-57	1.85E-56	ENSG0000010677 1	TMEM245
6909.10039	-1.804173432	0.1948830 47	-9.257723848	2.09E-20	4.22E-20	ENSG0000010678 0	MEGF9
1527.60603 3	-1.425756449	0.0789228 47	-18.0651928	5.99E-73	3.41E-72	ENSG0000010680 3	SEC61B
387.713353 2	2.159285485	0.0939566 57	22.9817189	7.10E- 117	8.57E- 116	ENSG0000010680 4	C5
19954.2389 5	-1.755736171	0.1024809 92	-17.13231046	8.52E-66	4.29E-65	ENSG0000010694 8	AKNA
1022.22915	4.015141242	0.1698739 46	23.63600388	1.64E- 123	2.23E- 122	ENSG0000010697 6	DNM1
987.652996 1	-5.474834154	0.1546777 88	-35.39508946	2.03E- 274	1.95E- 272	ENSG0000010699 2	AK1
355.863744 2	-1.417766241	0.0890528 03	-15.9205122	4.57E-57	1.95E-56	ENSG0000010702 0	PLGRKT
628.366084 8	2.976959129	0.1150608 36	25.87291422	1.34E- 147	2.70E- 146	ENSG0000010710 4	KANK1
1151.44157 7	-1.407411507	0.1125879 62	-12.50055047	7.41E-36	2.10E-35	ENSG0000010714 0	TESK1
792.27522	-1.651314452	0.0531310 43	-31.08003077	4.48E- 212	2.22E- 210	ENSG0000010717 5	CREB3
3734.90681 6	-2.156817757	0.0665942 11	-32.38746621	4.12E- 230	2.48E- 228	ENSG0000010722 3	EDF1
5807.35446 2	-2.759528435	0.1377957 09	-20.02622909	3.25E-89	2.42E-88	ENSG0000010726 2	BAG1
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1468.25553 3	-2.134702875	0.2968497 11	-7.191190685	6.42E-13	1.08E-12	ENSG0000010731 7	PTGDS
7211.89630 1	-1.056863848	0.1795306 47	-5.886815783	3.94E-09	5.91E-09	ENSG0000010733 1	ABCA2
144.218065 2	-1.800844037	0.1438397 02	-12.51979818	5.82E-36	1.65E-35	ENSG0000010733 8	SHB
7650.93903 7	-1.956255468	0.0870211 93	-22.48021893	6.48E- 112	7.28E- 111	ENSG0000010734 1	UBE2R2
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531.307636 6	2.191860224	0.0813022 73	26.95939673	4.43E- 160	1.06E- 158	ENSG0000010744 3	CCNJ
362.730827 3	-2.15073802	0.1763866 32	-12.19331643	3.37E-34	9.25E-34	ENSG0000010748 5	GATA3
6770.17290 1	-1.882681017	0.1081544 93	-17.40733059	7.26E-68	3.77E-67	ENSG0000010752 1	HPS1
790.181078	1.491233264	0.0859309 71	17.35385098	1.84E-67	9.53E-67	ENSG0000010756 0	RAB11FIP2
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229.883960 9	1.493227036	0.1655340 45	9.020664203	1.87E-19	3.69E-19	ENSG0000010761 1	CUBN
433.703207 6	1.946099433	0.0904201 76	21.52284489	9.51E- 103	9.00E- 102	ENSG0000010761 4	TRDMT1
1156.45674 3	1.141224784	0.0823947 99	13.8506896	1.26E-43	4.20E-43	ENSG0000010764 3	MAPK8
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535.276521 1	-2.074407126	0.0829179 28	-25.01759474	3.93E- 138	6.74E- 137	ENSG0000010787 2	FBXL15
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482.465573 8	2.061735285	0.1625648 62	12.68253952	7.39E-37	2.14E-36	ENSG0000010789 0	ANKRD26
855.589200 9	-1.68025329	0.1204479 81	-13.9500328	3.14E-44	1.06E-43	ENSG0000010790 2	LHPP
724.794681 9	1.142966576	0.0853134 27	13.39726483	6.27E-41	1.98E-40	ENSG0000010795 1	MTPAP
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2228.88123 9	1.882063152	0.1115515 68	16.87168706	7.27E-64	3.54E-63	ENSG0000010802 1	TASOR2
1027.90961 4	-1.622205377	0.1065492 92	-15.22492869	2.42E-52	9.47E-52	ENSG0000010810 6	UBE2S
33225.8059 3	-1.77141547	0.0882717 89	-20.0677417	1.41E-89	1.06E-88	ENSG0000010810 7	RPL28
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8590.17843 9	-1.761008834	0.1308464 52	-13.45859066	2.74E-41	8.73E-41	ENSG0000010821 9	TSPAN14
33797.1546 3	-1.470302167	0.0733379 42	-20.04831496	2.09E-89	1.56E-88	ENSG0000010829 8	RPL19
2656.05749 2	1.370419973	0.0779302 34	17.58521559	3.20E-69	1.69E-68	ENSG0000010830 6	FBXL20
2732.10655 1	-6.817063732	0.2700910 83	-25.23986968	1.46E- 140	2.62E- 139	ENSG0000010830 9	RUNDC3A
8361.48094 9	-1.993344076	0.0826344 28	-24.12244055	1.45E- 128	2.15E- 127	ENSG0000010834 9	CASC3
491.548883 9	-1.062383604	0.0976654 15	-10.87778719	1.47E-27	3.51E-27	ENSG0000010835 2	RAPGEFL1
224.796298 7	-4.26164511	0.1847294 22	-23.06966085	9.34E- 118	1.15E- 116	ENSG0000010837 0	RGS9
218.304212 5	2.64502337	0.1325546 7	19.95420732	1.38E-88	1.02E-87	ENSG0000010837 5	RNF43
77.4396615 3	-1.717434756	0.1634906 51	-10.50478876	8.21E-26	1.89E-25	ENSG0000010838 7	SEPTIN4

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6942.15184 2	-2.598358531	0.0746286 39	-34.81717703	1.34E- 265	1.16E- 263	ENSG0000010863 9	SYNGR2
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1489.59907 8	-4.224796201	0.1503630 96	-28.09729459	1.06E- 173	3.12E- 172	ENSG0000010910 7	ALDOC
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1014.24065 9	-1.847432308	0.1160956 16	-15.91302392	5.15E-57	2.20E-56	ENSG0000010922 0	CHIC2
13437.9249 5	-1.184167371	0.0603279 2	-19.62884464	8.77E-86	6.23E-85	ENSG0000010933 2	UBE2D3
669.670258 5	1.027580695	0.2016897 96	5.094857139	3.49E-07	4.93E-07	ENSG0000010945 2	INPP4B
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549.338773 5	1.280937571	0.0860933 6	14.8784711	4.55E-50	1.70E-49	ENSG0000010961 8	SEPSECS
70.9218800 5	1.051932056	0.1700326 91	6.186645945	6.15E-10	9.47E-10	ENSG0000010965 4	TRIM2
247.392111 3	2.00251524	0.1973094 01	10.14911214	3.34E-24	7.39E-24	ENSG0000010967 4	NEIL3
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1376.85501 8	1.97745651	0.1303155 65	15.17436928	5.23E-52	2.03E-51	ENSG0000011045 5	ACCS
339.231672 7	2.446758827	0.1465800 33	16.69230644	1.49E-62	7.10E-62	ENSG0000011049 2	MDK
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914.848614 5	-2.357337024	0.1427247 15	-16.51666999	2.78E-61	1.29E-60	ENSG0000011062 8	SLC22A18
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4498.16302 4	-1.589833931	0.1036398 4	-15.33998834	4.13E-53	1.64E-52	ENSG0000011069 7	PITPNM1
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12102.3542 1	-1.809278322	0.0971455 16	-18.62441408	2.04E-77	1.25E-76	ENSG0000011122 9	ARPC3
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3564.68249 1	-2.761824597	0.0858500 76	-32.17032197	4.59E- 227	2.69E- 225	ENSG0000011127 6	CDKN1B
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18559.3271 8	-2.54006937	0.0815983 26	-31.12893964	9.78E- 213	4.88E- 211	ENSG0000011166 9	TPI1
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3776.95101 3	-3.660521132	0.1337301 99	-27.37243472	5.84E- 165	1.50E- 163	ENSG0000011256 1	TFEB
13725.7583 4	-2.313564807	0.1288083 23	-17.96129906	3.92E-72	2.18E-71	ENSG0000011257 6	CCND3
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492.799382 7	1.076800851	0.0910294 16	11.8291526	2.76E-32	7.28E-32	ENSG0000011359 7	TRAPPC13
2926.08877 1	1.32142127	0.1150599 1	11.48463673	1.58E-30	4.01E-30	ENSG0000011364 9	TCERG1
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32878.7051 1	-5.171459178	0.2469388 36	-20.94226761	2.21E-97	1.91E-96	ENSG0000011391 6	BCL6
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864.572357 8	-1.495830553	0.1191367 8	-12.55557309	3.70E-36	1.06E-35	ENSG0000011402 3	FAM162A
2503.51897 6	1.658717792	0.1025019 66	16.18230218	6.72E-59	2.99E-58	ENSG0000011406 2	UBE3A

345.408431 6	3.033756208	0.1524959 46	19.89401219	4.59E-88	3.36E-87	ENSG0000011410 7	CEP70
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3531.22419 4	2.087542157	0.1014947 25	20.56798664	5.31E-94	4.31E-93	ENSG0000011412 6	TFDP2
4031.05152 1	-3.673058256	0.1470536 79	-24.97766996	1.07E- 137	1.81E- 136	ENSG0000011426 8	PFKFB4
149.989839 2	-1.950373292	0.1393075 26	-14.00048766	1.55E-44	5.24E-44	ENSG0000011427 0	COL7A1
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739.015291 8	-1.682014112	0.0807490 77	-20.83013418	2.31E-96	1.96E-95	ENSG0000011438 3	TUSC2
717.991262 1	-1.251343053	0.0754647 16	-16.58182945	9.43E-62	4.41E-61	ENSG0000011439 5	CYB561D2
1428.86920 8	1.717646105	0.1186662 33	14.47459869	1.75E-47	6.30E-47	ENSG0000011445 0	GNB4
227.740107 3	1.675620701	0.0810802 73	20.66619462	6.98E-95	5.77E-94	ENSG0000011447 3	IQCG
86.5890713 5	-2.04406063	0.1923895 37	-10.62459355	2.29E-26	5.32E-26	ENSG0000011452 9	C3orf52
20965.0063 2	-4.46650162	0.1843300 43	-24.23100192	1.05E- 129	1.58E- 128	ENSG0000011462 6	ABTB1
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848.035411	1.00684397	0.0970713 46	10.37220573	3.32E-25	7.51E-25	ENSG0000011752 8	ABCD3
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410.940979 6	1.131307328	0.1581501 71	7.15337404	8.47E-13	1.42E-12	ENSG0000011758 6	TNFSF4
7176.09618 4	-1.795821912	0.0960264 72	-18.70132128	4.83E-78	2.99E-77	ENSG0000011759 2	PRDX6
370.790987 9	2.907175658	0.2859344 37	10.16728061	2.78E-24	6.14E-24	ENSG0000011759 5	IRF6
838.134095 6	1.490350011	0.1033404 99	14.42174193	3.78E-47	1.35E-46	ENSG0000011762 0	SLC35A3
5118.90825	1.195090556	0.1497722 23	7.979387207	1.47E-15	2.65E-15	ENSG0000011763 2	STMN1
14424.6808 8	-2.641088128	0.1243820 78	-21.233671	4.67E- 100	4.22E-99	ENSG0000011767 6	RPS6KA1
8328.82316 3	1.264963682	0.0589961 46	21.44146288	5.49E- 102	5.12E- 101	ENSG0000011771 3	ARID1A
2062.39433 2	1.27630056	0.2132064 89	5.986218186	2.15E-09	3.26E-09	ENSG0000011772 4	CENPF
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151.765901 4	-2.985120498	0.2771728 16	-10.76988913	4.78E-27	1.13E-26	ENSG0000011783 4	SLC5A9
5881.98577	1.606834697	0.0693508 95	23.16963184	9.22E- 119	1.15E- 117	ENSG0000011786 8	ESYT2
883.934232	1.78996705	0.0994190 82	18.00426057	1.80E-72	1.01E-71	ENSG0000011790 6	RCN2
52.7093726 6	2.128641157	0.1543643 76	13.78971761	2.94E-43	9.69E-43	ENSG0000011798 3	MUC5B

36073.5015 4	-2.808029794	0.1715014 85	-16.37320978	2.97E-60	1.36E-59	ENSG0000011798 4	CTSD
3785.80870 1	-1.882322384	0.0879962 54	-21.3909377	1.62E- 101	1.50E- 100	ENSG0000011804 6	STK11
7469.91634 2	2.104713633	0.0913218 08	23.04721829	1.57E- 117	1.91E- 116	ENSG0000011805 8	KMT2A
8459.15079 9	-4.522916109	0.3833490 55	-11.79842769	3.98E-32	1.05E-31	ENSG0000011811 3	MMP8
517.054824 7	1.097257362	0.2402576 38	4.567003036	4.95E-06	6.69E-06	ENSG0000011819 3	KIF14
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870.258373	1.044312474	0.0954595 84	10.93983898	7.43E-28	1.79E-27	ENSG0000011824 6	FASTKD2
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69.8749407 1	1.180273688	0.1074428 04	10.98513487	4.51E-28	1.09E-27	ENSG0000011829 2	C1orf54
3312.27612	-1.236389262	0.1042697 37	-11.85760411	1.97E-32	5.20E-32	ENSG0000011830 8	LRMP
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170.993059 3	1.940497438	0.1001523 19	19.37546196	1.24E-83	8.50E-83	ENSG0000011842 0	UBE3D
2581.12080 2	2.255907568	0.1149321 02	19.6281763	8.88E-86	6.31E-85	ENSG0000011849 5	PLAGL1
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246.799057	1.086478749	0.1393922 7	7.794397397	6.47E-15	1.15E-14	ENSG0000011850 7	AKAP7
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1442.68723 1	-1.205859897	0.1855403 61	-6.499178349	8.08E-11	1.28E-10	ENSG0000011851 5	SGK1
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964.795826 5	1.511927679	0.0920959 32	16.416878	1.45E-60	6.64E-60	ENSG0000011859 6	SLC16A7
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342.253618 5	-2.702892517	0.2858699 17	-9.45497361	3.23E-21	6.66E-21	ENSG0000011878 5	SPP1
193.701839 1	-3.532710993	0.1535537 67	-23.00634528	4.03E- 117	4.88E- 116	ENSG0000011880 4	STBD1
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3834.59445 2	-2.328629354	0.0982588 18	-23.69893519	3.70E- 124	5.10E- 123	ENSG0000011904 8	UBE2B
995.606912 7	-1.373004364	0.1583627 31	-8.669996763	4.32E-18	8.27E-18	ENSG0000011913 8	KLF9
177.133715 7	1.80952304	0.1057049 39	17.11862335	1.08E-65	5.41E-65	ENSG0000011922 7	PIGZ
926.211827 9	-1.083796401	0.1114558 13	-9.724000702	2.38E-22	5.05E-22	ENSG0000011924 2	CCDC92
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4754.29788 5	-1.156236934	0.0628956 29	-18.38342265	1.78E-75	1.05E-74	ENSG0000011931 8	RAD23B
4972.80850 1	-1.23990724	0.0974595 42	-12.72227646	4.45E-37	1.30E-36	ENSG0000011932 1	FKBP15
2710.66350 9	-1.007450707	0.0624124 03	-16.141835	1.30E-58	5.74E-58	ENSG0000011938 3	PTPA

4425.88711 5	1.732891249	0.0738555 95	23.46323593	9.69E- 122	1.27E- 120	ENSG0000011939 7	CNTRL
246.685558 6	1.61136158	0.1458335 26	11.04932191	2.21E-28	5.37E-28	ENSG0000011941 1	BSPRY
142.630054 7	-1.793285835	0.2489887 41	-7.202276801	5.92E-13	9.98E-13	ENSG0000011945 7	SLC46A2
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265.541685 7	-1.977331273	0.2368935 95	-8.346917396	7.01E-17	1.30E-16	ENSG0000011950 8	NR4A3
838.021727 6	1.326707789	0.0609022 77	21.78420658	3.28E- 105	3.26E- 104	ENSG0000011950 9	INVS
162178.268 9	-3.601368407	0.2563314 86	-14.04965292	7.74E-45	2.64E-44	ENSG0000011953 5	CSF3R
1016.64927 3	1.093834941	0.0723148 55	15.12600617	1.09E-51	4.21E-51	ENSG0000011953 7	KDSR
778.378917 7	-1.289787976	0.0730930 99	-17.64582423	1.10E-69	5.87E-69	ENSG0000011955 9	C19orf25
3393.51750 5	1.381835596	0.0656685 53	21.04257727	2.67E-98	2.34E-97	ENSG0000011959 6	YLPM1
87.7097360 7	2.387359363	0.1081934 12	22.06566289	6.76E- 108	7.02E- 107	ENSG0000011960 8	PROX2
374.500650 7	-1.765046484	0.1076698 19	-16.39314058	2.14E-60	9.79E-60	ENSG0000011963 2	IFI27L2
271.963193 5	-1.583172303	0.1790506 75	-8.842034804	9.40E-19	1.83E-18	ENSG0000011963 6	BBOF1
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4059.44167 2	-1.762055082	0.1144340 12	-15.39800146	1.69E-53	6.77E-53	ENSG0000011965 5	NPC2
240.361934 3	1.742019599	0.0884450 52	19.69606613	2.33E-86	1.67E-85	ENSG0000011966 1	DNAL1
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285.082207 4	-1.471115801	0.1682453 56	-8.743871657	2.25E-18	4.34E-18	ENSG0000011968 1	LTBP2
1087.08208 8	1.671843471	0.0577345 5	28.95741752	2.26E- 184	7.89E- 183	ENSG0000011968 5	TTLL5
464.472253 6	-1.311834111	0.1615649 54	-8.119546207	4.68E-16	8.53E-16	ENSG0000011968 6	FLVCR2
61.7348498 3	2.475642097	0.1047473 92	23.63440324	1.71E- 123	2.32E- 122	ENSG0000011970 3	ZC2HC1C
6708.62590 8	1.371421546	0.0682766 04	20.08625885	9.73E-90	7.33E-89	ENSG0000011970 7	RBM25

591.908560 8	1.403772132	0.0941599 69	14.90837506	2.91E-50	1.09E-49	ENSG0000011971 1	ALDH6A1
224.447105 4	-1.575512418	0.1312334 92	-12.00541409	3.33E-33	8.93E-33	ENSG0000011971 4	GPR68
1114.64466 4	1.004253793	0.0491273 99	20.44182684	7.10E-93	5.64E-92	ENSG0000011972 0	NRDE2
217.406154 1	1.6434997	0.0535830 63	30.67200003	1.35E- 206	6.05E- 205	ENSG0000011972 3	COQ6
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140.172520 4	3.307466056	0.1228229 4	26.92873217	1.01E- 159	2.40E- 158	ENSG0000011973 7	GPR75
385.760362 6	2.773576717	0.2081626 48	13.32408451	1.68E-40	5.26E-40	ENSG0000011977 1	KLHL29
1491.88903 9	1.326670583	0.0706674 82	18.7734238	1.25E-78	7.80E-78	ENSG0000011977 8	ATAD2B
103.920354 6	-2.44846848	0.2066915 84	-11.84599986	2.26E-32	5.97E-32	ENSG0000011978 2	FKBP1B
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475.574040 2	-2.874422885	0.2191460 14	-13.11647349	2.65E-39	8.12E-39	ENSG0000011986 2	LGALSL
174.730744 2	2.530150961	0.1966931 34	12.86344319	7.23E-38	2.14E-37	ENSG0000011986 5	CNRIP1
1877.43142 5	2.987033868	0.1121331 72	26.63827147	2.45E- 156	5.56E- 155	ENSG0000011986 6	BCL11A
1544.14875	1.317571691	0.0746850 13	17.64171477	1.18E-69	6.30E-69	ENSG0000011990 6	SLF2
1215.12069 6	1.059695472	0.0707237 59	14.98358532	9.40E-51	3.56E-50	ENSG0000011991 2	IDE
2259.37992 6	-3.343962452	0.1786549 47	-18.71743556	3.57E-78	2.21E-77	ENSG0000011991 7	IFIT3
1369.02418 2	-3.292647521	0.1797096 79	-18.32203777	5.52E-75	3.24E-74	ENSG0000011992 2	IFIT2
301.080717 9	1.373824789	0.1131835 87	12.13802126	6.64E-34	1.81E-33	ENSG0000011992 7	GPAM
4440.67456 9	-3.180700066	0.1509302 62	-21.07397161	1.38E-98	1.22E-97	ENSG0000011995 0	MXI1
1445.77837 4	1.560063839	0.2180516 53	7.154560935	8.39E-13	1.41E-12	ENSG0000011996 9	HELLS
304.813902 6	-3.087193783	0.1829102 6	-16.87818816	6.51E-64	3.17E-63	ENSG0000011998 6	AVPI1
68.5457482 7	-2.470871124	0.1482584 21	-16.66597496	2.32E-62	1.10E-61	ENSG0000012005 1	CFAP58

1233.37888 5	3.459573598	0.2353285 99	14.70103343	6.35E-49	2.33E-48	ENSG0000012009 3	HOXB3
43763.7914 1	-2.754101138	0.2059696 41	-13.3713936	8.89E-41	2.80E-40	ENSG0000012012 9	DUSP1
2114.59249 6	1.083178028	0.0978462 61	11.07020359	1.75E-28	4.26E-28	ENSG0000012013 7	PANK3
512.188205 8	1.10061921	0.1247215 81	8.824609214	1.10E-18	2.13E-18	ENSG0000012015 9	CAAP1
310.758895 5	1.349993169	0.1213430 29	11.12542827	9.44E-29	2.31E-28	ENSG0000012016 2	MOB3B
561.436014 7	-4.397030424	0.1949182 97	-22.55832571	1.11E- 112	1.26E- 111	ENSG0000012021 7	CD274
112.098082 3	2.766949805	0.1450094 14	19.08117366	3.62E-81	2.37E-80	ENSG0000012025 6	LRP11
6543.92807 7	-5.931200808	0.1822581 34	-32.54285925	2.64E- 232	1.62E- 230	ENSG0000012030 6	CYSTM1
2432.79612 7	-2.947279151	0.2389824 74	-12.33261627	6.05E-35	1.68E-34	ENSG0000012031 8	ARAP3
251.309873	3.210295355	0.2388484 01	13.44072364	3.49E-41	1.11E-40	ENSG0000012064 5	IQSEC3
856.149750 4	-1.257203792	0.0806776 87	-15.58304209	9.49E-55	3.89E-54	ENSG0000012065 6	TAF12
5974.04226 5	-2.073789664	0.1753061 97	-11.82952856	2.75E-32	7.25E-32	ENSG0000012069 4	HSPH1
648.829886 2	-1.222134526	0.1876995 78	-6.511120273	7.46E-11	1.18E-10	ENSG0000012069 6	KBTBD7
3059.71910 2	-2.537061733	0.2515948 58	-10.08391725	6.51E-24	1.43E-23	ENSG0000012070 8	TGFBI
7205.67033 2	-2.47285939	0.1135230 54	-21.78288289	3.37E- 105	3.35E- 104	ENSG0000012070 9	FAM53C
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241.102799 2	1.320107504	0.1469012 63	8.986359088	2.56E-19	5.03E-19	ENSG0000012078 4	ZFP30
950.401899 7	1.697794219	0.0722181 99	23.50922957	3.28E- 122	4.34E- 121	ENSG0000012079 8	NR2C1
889.105437 6	1.557528466	0.1355033 16	11.49439376	1.41E-30	3.59E-30	ENSG0000012080 0	UTP20
793.660100 6	1.719854329	0.1948603 81	8.826085228	1.08E-18	2.11E-18	ENSG0000012083 3	SOCS2
578.801283 7	1.242439332	0.1210875 88	10.26066632	1.06E-24	2.37E-24	ENSG0000012083 7	NFYB

732.536001 9	-4.236479558	0.2662523 87	-15.91151764	5.27E-57	2.25E-56	ENSG0000012087 5	DUSP4
5699.11384 8	-1.822003415	0.2453786 78	-7.425271934	1.13E-13	1.94E-13	ENSG0000012088 5	CLU
15637.8121 7	-1.487564229	0.0758305 64	-19.616948	1.11E-85	7.86E-85	ENSG0000012089 9	PTK2B
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158.185348	-2.235754239	0.1622856 26	-13.77666213	3.52E-43	1.16E-42	ENSG0000012091 5	EPHX2
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643.583815 8	-3.812780619	0.1820688 11	-20.94142642	2.25E-97	1.94E-96	ENSG0000012094 9	TNFRSF8
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4950.66888 9	-1.598978549	0.1787449 42	-8.945587649	3.70E-19	7.26E-19	ENSG0000012106 4	SCPEP1
37.3626579 4	1.696996952	0.1720276 72	9.864674261	5.92E-23	1.27E-22	ENSG0000012110 1	TEX14
496.091158 4	-1.229267308	0.2629193 29	-4.675454306	2.93E-06	4.00E-06	ENSG0000012129 7	TSHZ3
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503.28015	1.109120959	0.1066809 78	10.39661406	2.57E-25	5.83E-25	ENSG0000012141 3	ZSCAN18
314.934631 2	1.045066107	0.1750640 1	5.96962281	2.38E-09	3.60E-09	ENSG0000012145 4	LHX4
807.551630 2	-1.246834482	0.0896033 85	-13.91503777	5.13E-44	1.72E-43	ENSG0000012157 8	B4GALT4
178.949638 3	-3.310663325	0.2743956 47	-12.06529098	1.61E-33	4.36E-33	ENSG0000012159 4	CD80
893.258987 8	-1.671507179	0.0719526 63	-23.23065062	2.23E- 119	2.80E- 118	ENSG0000012168 0	PEX16
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2687.55009	-2.35287821	0.0997616 94	-23.58498654	5.50E- 123	7.37E- 122	ENSG0000012171 6	PILRB
71.0054970 8	-2.546367921	0.1893543 45	-13.44763396	3.18E-41	1.01E-40	ENSG0000012175 3	ADGRB2

89.2785030 2	-1.277640646	0.1792351 79	-7.128291725	1.02E-12	1.70E-12	ENSG0000012176 9	FABP3
428.514636	-2.075273803	0.1764353 46	-11.76223387	6.11E-32	1.60E-31	ENSG0000012179 7	CCRL2
3287.39944 2	-2.242496571	0.1968414 34	-11.39240108	4.56E-30	1.15E-29	ENSG0000012185 8	TNFSF10
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6303.48853 5	-3.198327481	0.1406244 59	-22.74374962	1.65E- 114	1.93E- 113	ENSG0000012553 4	PPDPF
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138.834624 1	1.85057449	0.2210347 45	8.372323955	5.65E-17	1.05E-16	ENSG0000012561 8	PAX8
943.133618 3	1.160267807	0.1241432 2	9.346203592	9.09E-21	1.85E-20	ENSG0000012563 0	POLR1B
8988.46453	-1.569040764	0.0766337 33	-20.47454433	3.63E-93	2.90E-92	ENSG0000012563 7	PSD4

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8639.198097	-1.405232494	0.092294361	-15.22555091	2.39E-52	9.39E-52	ENSG00000125772	GPCPD1
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4770.20383 6	-1.877577383	0.0669725 14	-28.03504395	6.08E- 173	1.78E- 171	ENSG0000012582 6	RBCK1
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872.869978 3	1.034237834	0.1288584 28	8.026155895	1.01E-15	1.82E-15	ENSG0000012588 5	MCM8
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7836.47831 3	-1.687375646	0.0657083 36	-25.6797807	1.97E- 145	3.82E- 144	ENSG0000012597 0	RALY
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147.835941	1.391486349	0.1814353 65	7.669322618	1.73E-14	3.04E-14	ENSG0000012601 6	AMOT
841.414875 3	-1.256713427	0.0908861 25	-13.82734083	1.74E-43	5.79E-43	ENSG0000012606 2	TMEM115
2498.28856 1	2.24005542	0.0532896 56	42.03546443	0.00E+0 0	0.00E+0 0	ENSG0000012607 0	AGO3
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2223.36534 6	-1.972451838	0.0717764 51	-27.48048723	3.00E- 166	7.87E- 165	ENSG0000012625 4	RBM42
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2508.48994 8	1.789091137	0.0763440 93	23.43457201	1.90E- 121	2.48E- 120	ENSG0000012677 3	PCNX4
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487.678619 3	1.530045963	0.0846880 08	18.06685508	5.81E-73	3.31E-72	ENSG0000012803 9	SRD5A3
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49.3163460 5	1.515817883	0.1008213 24	15.03469527	4.35E-51	1.66E-50	ENSG0000012919 4	SOX15
995.711292 9	1.116685906	0.0619681 42	18.02032251	1.35E-72	7.61E-72	ENSG0000012919 7	RPAIN
103.179831 8	2.451349382	0.2091966 68	11.71791792	1.03E-31	2.69E-31	ENSG0000012920 4	USP6
748.986396 9	-2.092137365	0.1488265 69	-14.05755294	6.92E-45	2.36E-44	ENSG0000012921 9	PLD2
10701.9186 4	-8.257499914	0.1868660 7	-44.18940206	0.00E+0 0	0.00E+0 0	ENSG0000012922 6	CD68
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1465.3454	-1.743180649	0.1038474 42	-16.78597584	3.09E-63	1.49E-62	ENSG0000012925 0	KIF1C
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1105.84609 7	1.64269021	0.1201282 9	13.67446597	1.44E-42	4.71E-42	ENSG0000012931 7	PUS7L
11723.5590 8	-3.457530034	0.1299444 12	-26.60776238	5.52E- 156	1.25E- 154	ENSG0000012935 3	SLC44A2
5786.54379 7	-4.578239582	0.1646508 81	-27.8057399	3.70E- 170	1.03E- 168	ENSG0000012935 5	CDKN2D

2237.54263 8	-2.965208225	0.2834085 74	-10.46266238	1.28E-25	2.93E-25	ENSG0000012945 0	SIGLEC9
1236.59833 1	-2.015771649	0.1276447 77	-15.79204176	3.53E-56	1.48E-55	ENSG0000012946 5	RIPK3
273.263372 5	1.361228246	0.1114282 64	12.21618465	2.55E-34	7.00E-34	ENSG0000012948 0	DTD2
95.8478702 9	-2.847561277	0.1943355 23	-14.65280889	1.29E-48	4.72E-48	ENSG0000012952 1	EGLN3
3057.22081 4	2.092349449	0.1017195 67	20.56978338	5.12E-94	4.15E-93	ENSG0000012953 4	MIS18BP1
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2553.36274 5	-1.924858399	0.0655778 05	-29.3522846	2.23E- 189	8.27E- 188	ENSG0000012955 9	NEDD8
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103.948391 4	-1.214631801	0.1582035 92	-7.677649961	1.62E-14	2.85E-14	ENSG0000012974 9	CHRNA10
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5453.64845 8	-2.468819201	0.1162632 05	-21.23474226	4.56E- 100	4.13E-99	ENSG0000012992 5	TMEM8A
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366.950958 4	-1.178166949	0.2359208 02	-4.993908716	5.92E-07	8.29E-07	ENSG0000013020 3	APOE
716.608086 2	-6.455757902	0.2206807 86	-29.25382863	4.01E- 188	1.47E- 186	ENSG0000013022 2	GADD45G
480.413317 8	-1.12296575	0.0838064 13	-13.39952055	6.09E-41	1.92E-40	ENSG0000013024 4	FAM98C
7811.65692 5	-1.324399394	0.0944050 12	-14.02890978	1.04E-44	3.52E-44	ENSG0000013025 5	RPL36
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1257.67271 5	-1.686962581	0.0739006 19	-22.82744874	2.45E- 115	2.89E- 114	ENSG0000013030 5	NSUN5
23.1744200 5	1.179701983	0.0927508 95	12.71903608	4.64E-37	1.35E-36	ENSG0000013030 7	USHBP1
6998.38789 8	-1.235183541	0.1104790 51	-11.18025122	5.09E-29	1.26E-28	ENSG0000013030 9	COLGALT1
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698.778462 6	-1.006862277	0.1284996 3	-7.835526691	4.67E-15	8.31E-15	ENSG0000013034 0	SNX9
386.146715 4	1.01742377	0.0832375 42	12.22313562	2.34E-34	6.43E-34	ENSG0000013036 3	RSPH3
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2420.47761 1	-1.571413836	0.0930918 39	-16.88025347	6.29E-64	3.06E-63	ENSG0000013047 5	FCHO1
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2876.76542 8	-2.353277669	0.0902198 41	-26.08381535	5.56E- 150	1.16E- 148	ENSG0000013072 5	UBE2M

937.133435 8	-1.475872401	0.0968150 26	-15.24424945	1.80E-52	7.07E-52	ENSG0000013073 4	ATG4D
8071.23885 3	-2.414283751	0.1338408 63	-18.03846525	9.72E-73	5.51E-72	ENSG0000013075 5	GMFG
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3776.83247 5	-1.140893437	0.1119519 1	-10.19092427	2.18E-24	4.83E-24	ENSG0000013101 8	SYNE1
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466.409129 7	-1.166713253	0.1359259 62	-8.583446725	9.21E-18	1.75E-17	ENSG0000013106 7	GGT7
3564.97271 5	-1.873308249	0.0686666 42	-27.2811979	7.09E- 164	1.80E- 162	ENSG0000013110 0	ATP6V1E1
589.107907 2	1.736840166	0.1095481 99	15.85457534	1.31E-56	5.54E-56	ENSG0000013112 7	ZNF141
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134.495911 9	-1.59609397	0.1431480 93	-11.14994921	7.16E-29	1.76E-28	ENSG0000013118 7	F12
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1993.67168 1	-3.236664007	0.1322371 38	-24.47621027	2.65E- 132	4.16E- 131	ENSG0000013124 2	RAB11FIP4
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484.066603 5	-2.372449383	0.1583136 1	-14.98575756	9.10E-51	3.45E-50	ENSG0000013137 0	SH3BP5
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4056.84285 5	-1.993741723	0.0813958 84	-24.49438018	1.70E- 132	2.67E- 131	ENSG0000013140 8	NR1H2
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206.203825 1	-2.784437829	0.1296457 41	-21.4772796	2.54E- 102	2.38E- 101	ENSG0000013148 0	AOC2

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2976.74298 9	-1.719235488	0.0787706 3	-21.82584412	1.32E- 105	1.32E- 104	ENSG0000013174 8	STARD3
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269.742361 8	2.460396956	0.0994666 42	24.73590057	4.40E- 135	7.16E- 134	ENSG0000013178 1	FMO5
224.124940 1	2.181743597	0.0733310 78	29.75196405	1.64E- 194	6.45E- 193	ENSG0000013184 8	ZSCAN5A
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191.368634 1	1.019915813	0.0884193 93	11.53497871	8.79E-31	2.25E-30	ENSG0000013200 4	FBXW9
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72.1999324 8	1.123608197	0.1205208 2	9.32293854	1.13E-20	2.30E-20	ENSG0000013214 1	CCT6B
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36.56880161	-1.617910787	0.178490801	-9.064393114	1.25E-19	2.49E-19	ENSG00000132259	CNGA4
9863.297501	-1.332212896	0.09785835	-13.61368646	3.32E-42	1.08E-41	ENSG00000132274	TRIM22
7656.200539	-1.003924427	0.149039277	-6.735972215	1.63E-11	2.64E-11	ENSG00000132334	PTPRE
1615.413493	-1.813797597	0.189302163	-9.581494322	9.57E-22	2.00E-21	ENSG00000132357	CARD6
2551.349405	-2.276496274	0.101196484	-22.49580397	4.56E-112	5.14E-111	ENSG00000132376	INPP5K
483.9380165	1.351184067	0.177984667	7.59157567	3.16E-14	5.52E-14	ENSG00000132436	FIGNL1
4591.723949	-1.241466124	0.226312564	-5.485626163	4.12E-08	6.00E-08	ENSG00000132465	JCHAIN
4587.420998	1.432443693	0.070042003	20.45120964	5.86E-93	4.66E-92	ENSG00000132466	ANKRD17
13867.93381	-3.632080331	0.116463428	-31.18644542	1.63E-213	8.28E-212	ENSG00000132471	WBP2
37042.22515	-2.249369489	0.105995574	-21.221353	6.07E-100	5.47E-99	ENSG00000132475	H3F3B
9912.38499	-2.558393934	0.123443744	-20.725181	2.05E-95	1.71E-94	ENSG00000132510	KDM6B
443.1603768	-1.457893383	0.322230086	-4.524386282	6.06E-06	8.15E-06	ENSG00000132514	CLEC10A
2550.39825	-3.512604754	0.101068594	-34.75466129	1.18E-264	1.01E-262	ENSG00000132522	GPS2
3356.407368	1.035191178	0.069935466	14.80209168	1.42E-49	5.28E-49	ENSG00000132549	VPS13B
59.23053131	1.207089929	0.147701618	8.172489528	3.02E-16	5.53E-16	ENSG00000132561	MATN2
417.9039536	2.208207663	0.062781577	35.17286066	5.20E-271	4.81E-269	ENSG00000132570	PCBD2
1382.496803	-1.8481997	0.089524474	-20.64463066	1.09E-94	8.96E-94	ENSG00000132581	SDF2
27242.53437	-3.669838444	0.175866625	-20.86716814	1.06E-96	9.08E-96	ENSG00000132589	FLOT2
2426.368084	-1.345857162	0.050107978	-26.85913913	6.60E-159	1.54E-157	ENSG00000132612	VPS4A

216.8191089	3.609709428	0.135752118	26.59044652	8.75E-156	1.97E-154	ENSG00000132613	MTSS2
67.54283281	1.624017553	0.149763162	10.84390534	2.13E-27	5.07E-27	ENSG00000132622	HSPA12B
660.7509886	2.721212529	0.114423193	23.78200136	5.13E-125	7.17E-124	ENSG00000132640	BTBD3
526.9942335	-1.185226541	0.099913591	-11.86251572	1.85E-32	4.91E-32	ENSG00000132661	NXT1
2568.83434	-1.416372804	0.191486162	-7.39673713	1.40E-13	2.39E-13	ENSG00000132694	ARHGEF11
210.084124	-1.338716947	0.198809141	-6.733679043	1.65E-11	2.68E-11	ENSG00000132704	FCRL2
223.4416179	2.468267251	0.231811756	10.6477225	1.79E-26	4.16E-26	ENSG00000132744	ACY3
587.8061844	1.613366069	0.129820244	12.42769245	1.85E-35	5.20E-35	ENSG00000132749	TESMIN
235.5416335	1.218785243	0.101310228	12.03022901	2.46E-33	6.64E-33	ENSG00000132763	MMACHC
14250.78139	-4.554824472	0.163057686	-27.93382254	1.04E-171	2.99E-170	ENSG00000132819	RBM38
2880.088748	-2.531701514	0.094286153	-26.85125479	8.15E-159	1.90E-157	ENSG00000132823	OSER1
972.7649236	-2.27122792	0.151676924	-14.97411646	1.08E-50	4.10E-50	ENSG00000132825	PPP1R3D
733.9942642	3.570490803	0.120318303	29.67537532	1.60E-193	6.20E-192	ENSG00000132846	ZBED3
827.6302618	-2.443929408	0.12147992	-20.11797015	5.14E-90	3.89E-89	ENSG00000132879	FBXO44
1561.007803	1.626161094	0.107707315	15.0979634	1.67E-51	6.43E-51	ENSG00000132953	XPO4
1714.806556	-1.529176596	0.079287762	-19.28641384	6.99E-83	4.70E-82	ENSG00000132963	POMP
22098.15982	-4.771194917	0.219401158	-21.74644359	7.46E-105	7.39E-104	ENSG00000132965	ALOX5AP
555.206541	1.447778898	0.138269004	10.47074074	1.18E-25	2.69E-25	ENSG00000133026	MYH10
2458.461016	-4.314930628	0.278090076	-15.5163057	2.69E-54	1.09E-53	ENSG00000133048	CHI3L1
1068.994387	1.178957569	0.100132118	11.77402009	5.31E-32	1.39E-31	ENSG00000133059	DSTYK
955.16875	-5.686060846	0.243951961	-23.30811696	3.67E-120	4.68E-119	ENSG00000133063	CHIT1
624.0346822	-2.915684422	0.295084271	-9.88085341	5.04E-23	1.08E-22	ENSG00000133067	LGR6

5184.20898 6	-4.259643901	0.2762705 46	-15.4183787	1.23E-53	4.95E-53	ENSG0000013306 9	TMCC2
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542.096829 4	1.024129636	0.1094946 55	9.353238579	8.50E-21	1.73E-20	ENSG0000013310 3	COG6
2113.40504 9	1.115835765	0.0908756 89	12.27870491	1.18E-34	3.26E-34	ENSG0000013310 4	SPART
943.876625 3	-1.930017529	0.1865702 33	-10.3447238	4.42E-25	9.98E-25	ENSG0000013310 6	EPSTI1
312.293331 1	1.326052563	0.0920006 13	14.41351885	4.25E-47	1.52E-46	ENSG0000013311 1	RFXAP
785.043459 1	1.35643907	0.0898518 72	15.09639188	1.71E-51	6.58E-51	ENSG0000013311 4	GPALPP1
90.7977240 4	-1.082081279	0.1811791 74	-5.972437428	2.34E-09	3.54E-09	ENSG0000013313 1	MORC4
97.6178349 8	-1.209870499	0.2093775 52	-5.778415545	7.54E-09	1.12E-08	ENSG0000013313 4	BEX2
1089.79196 1	1.67944213	0.0994580 27	16.88593858	5.71E-64	2.78E-63	ENSG0000013319 5	SLC39A11
6011.13984 3	-2.048251752	0.0831106 5	-24.64487709	4.18E- 134	6.69E- 133	ENSG0000013327 5	CSNK1G2
16398.1412 9	-2.189924479	0.1381486 85	-15.85193865	1.36E-56	5.78E-56	ENSG0000013331 8	RTN3
1201.78920 7	-3.11953494	0.1578993 3	-19.75647994	7.06E-87	5.10E-86	ENSG0000013332 1	PLAAT4
574.673054 6	1.198209693	0.1119007 06	10.70779381	9.36E-27	2.20E-26	ENSG0000013339 2	MYH11
862.099716 8	1.104874811	0.1070015 42	10.32578398	5.39E-25	1.21E-24	ENSG0000013339 3	FOPNL
291.496537 9	3.471459388	0.1133784 35	30.61833924	6.98E- 206	3.13E- 204	ENSG0000013340 1	PDZD2
128.506022 1	-1.987007684	0.1923621 19	-10.3295165	5.18E-25	1.17E-24	ENSG0000013342 4	LARGE1
2061.46272 9	-1.289979193	0.1386788 81	-9.301915223	1.38E-20	2.80E-20	ENSG0000013356 1	GIMAP6
3075.79811 8	-2.820046987	0.2206283 21	-12.78189028	2.07E-37	6.08E-37	ENSG0000013357 4	GIMAP4
10981.1497 7	-2.699387801	0.1177214 31	-22.93030056	2.32E- 116	2.78E- 115	ENSG0000013360 6	MKRN1
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14555.2674 5	-2.393631433	0.1180749 65	-20.2721333	2.27E-91	1.75E-90	ENSG0000013363 9	BTG1

314.872347 3	-3.418783257	0.2674133 89	-12.78463756	2.00E-37	5.87E-37	ENSG0000013368 7	TMTC1
3762.69959 8	1.202986447	0.0765610 6	15.71277153	1.24E-55	5.15E-55	ENSG0000013370 6	LARS
376.883275 6	2.103308937	0.1825743 34	11.52028816	1.04E-30	2.67E-30	ENSG0000013373 9	LRRCC1
8687.06962	-2.475762859	0.3325557 38	-7.444655372	9.72E-14	1.68E-13	ENSG0000013374 2	CA1
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234.016615 7	-2.567653638	0.2801491 39	-9.165309775	4.94E-20	9.90E-20	ENSG0000013380 0	LYVE1
3185.73475 4	-1.90083387	0.1918641 93	-9.907184047	3.87E-23	8.35E-23	ENSG0000013381 6	MICAL2
352.179787 3	-2.074261783	0.1863138 23	-11.13316095	8.65E-29	2.12E-28	ENSG0000013381 8	RRAS2
749.751557 2	-1.834421832	0.0998965 78	-18.36320983	2.59E-75	1.53E-74	ENSG0000013387 4	RNF122
8151.99488 4	-1.448272156	0.1121282 42	-12.91621211	3.65E-38	1.09E-37	ENSG0000013396 1	NUMB
371.363380 3	-1.396355769	0.1093416 76	-12.77057226	2.39E-37	7.02E-37	ENSG0000013398 3	COX16
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3675.95402 6	-1.622483509	0.0691108 8	-23.47652812	7.09E- 122	9.33E- 121	ENSG0000013404 6	MBD2
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377.646719 5	-1.637042462	0.1254595 56	-13.04836802	6.49E-39	1.97E-38	ENSG0000013407 0	IRAK2
570.550611 1	-2.72575495	0.1795353 12	-15.18227761	4.63E-52	1.81E-51	ENSG0000013407 2	CAMK1
6961.25128 7	-3.215371111	0.1716380 92	-18.73343537	2.64E-78	1.64E-77	ENSG0000013410 7	BHLHE40
206.238491 6	1.04556681	0.1020085 65	10.24979436	1.19E-24	2.65E-24	ENSG0000013414 6	DPH6
1175.43685	-1.394661135	0.0606117 93	-23.00973248	3.72E- 117	4.52E- 116	ENSG0000013415 3	EMC7
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165.708684 5	2.278756653	0.0774831 67	29.40969946	4.13E- 190	1.55E- 188	ENSG0000013424 5	WNT2B

126.457782 5	2.084485095	0.1995245 5	10.44726123	1.51E-25	3.44E-25	ENSG0000013424 7	PTGFRN
1955.36867	-1.426041153	0.0824258 91	-17.30088864	4.63E-67	2.38E-66	ENSG0000013424 8	LAMTOR5
111.327799 7	2.750447886	0.1258423 42	21.85629926	6.77E- 106	6.80E- 105	ENSG0000013425 3	TRIM45
143.893180 5	1.697620879	0.1722983 95	9.852795652	6.67E-23	1.43E-22	ENSG0000013427 8	SPIRE1
1547.98600 8	1.769466433	0.0772853 06	22.89525041	5.18E- 116	6.17E- 115	ENSG0000013431 8	ROCK2
721.488168 7	-1.330922868	0.2069726 39	-6.430429047	1.27E-10	2.00E-10	ENSG0000013432 1	RSAD2
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1016.33437 5	3.01716479	0.1644190 39	18.35045879	3.27E-75	1.93E-74	ENSG0000013436 9	NAV1
169.187204 8	1.281672034	0.0845307 23	15.16220366	6.29E-52	2.45E-51	ENSG0000013446 1	ANKRD16
861.332805 9	-4.101988366	0.2248952 14	-18.23955387	2.50E-74	1.46E-73	ENSG0000013446 3	ECHDC3
118.646770 5	1.824957763	0.1672817 82	10.90948302	1.04E-27	2.49E-27	ENSG0000013450 4	KCTD1
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590.801148 8	-3.818545471	0.1940093 22	-19.68227828	3.06E-86	2.19E-85	ENSG0000013457 1	MYBPC3
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268.475403 5	-2.894159112	0.1251169 61	-23.131629	2.23E- 118	2.75E- 117	ENSG0000013459 4	RAB33A
723.621922 6	2.33333839	0.1611924 05	14.47548594	1.73E-47	6.22E-47	ENSG0000013462 7	PIWIL4
3298.47829 9	1.538462341	0.0591303 06	26.01816994	3.08E- 149	6.38E- 148	ENSG0000013464 4	PUM1
20588.4968 7	-4.069561561	0.1664155 4	-24.45421593	4.54E- 132	7.11E- 131	ENSG0000013468 6	PHC2
1434.81505 4	1.237172193	0.0775999 55	15.94294997	3.19E-57	1.37E-56	ENSG0000013471 7	BTF3L4
3179.72983 7	1.593678414	0.0695809 82	22.90393697	4.24E- 116	5.07E- 115	ENSG0000013474 4	TUT4
1079.17363 1	-1.570091861	0.2902562 25	-5.40933054	6.33E-08	9.16E-08	ENSG0000013475 5	DSC2

1884.31989 6	1.113566027	0.0739436 34	15.05966058	2.98E-51	1.14E-50	ENSG0000013475 9	ELP2
126.720220 2	2.416998453	0.2639899 06	9.155647239	5.40E-20	1.08E-19	ENSG0000013476 9	DTNA
144.387930 3	1.854416495	0.1981414 87	9.359052067	8.05E-21	1.64E-20	ENSG0000013478 0	DAGLA
2838.67016 8	-1.036925028	0.0963742 09	-10.75936224	5.35E-27	1.26E-26	ENSG0000013480 2	SLC43A3
383.311332 6	-1.161819545	0.0975826 65	-11.90600347	1.10E-32	2.93E-32	ENSG0000013480 9	TIMM10
7678.46961 4	-3.539945396	0.1312841 29	-26.96400112	3.91E- 160	9.39E- 159	ENSG0000013481 5	DHX34
1283.51761 9	-4.10072607	0.3280501 68	-12.5003017	7.44E-36	2.11E-35	ENSG0000013482 7	TCN1
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850.786734 7	1.727103849	0.0889104 55	19.42520543	4.72E-84	3.25E-83	ENSG0000013485 2	CLOCK
375.750006 2	1.778006525	0.1573961 71	11.29637722	1.37E-29	3.42E-29	ENSG0000013489 7	BIVM
485.664772 2	3.205599336	0.0627504 91	51.08484898	0.00E+0 0	0.00E+0 0	ENSG0000013489 9	ERCC5
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520.149805 3	2.649131564	0.2018613 68	13.12351932	2.41E-39	7.40E-39	ENSG0000013490 9	ARHGAP32
6277.69643 5	-2.447748191	0.1301582 98	-18.80593274	6.75E-79	4.25E-78	ENSG0000013495 4	ETS1
1503.89406 8	1.096983686	0.0938607 84	11.68734843	1.48E-31	3.85E-31	ENSG0000013498 2	APC
2598.10577 4	3.612594107	0.1264850 06	28.56144145	2.03E- 179	6.55E- 178	ENSG0000013498 6	NREP
4663.64021 5	-2.653096584	0.1231459 24	-21.54433134	5.98E- 103	5.68E- 102	ENSG0000013499 6	OSTF1
456.077987 2	1.239061445	0.0860810 86	14.3941195	5.63E-47	2.00E-46	ENSG0000013500 2	RFK
613.511370 9	1.037850481	0.0944350 87	10.990094	4.26E-28	1.03E-27	ENSG0000013504 0	NAA35
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371.085246 4	-2.747712332	0.2323348 26	-11.82651941	2.85E-32	7.51E-32	ENSG0000013506 9	PSAT1
885.114218 5	-1.110658332	0.1101806 42	-10.08033998	6.75E-24	1.48E-23	ENSG0000013507 0	ISCA1
3721.09863 3	-3.677655217	0.1661835 25	-22.13008303	1.62E- 108	1.70E- 107	ENSG0000013507 4	ADAM19
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4849.68360 7	1.051428205	0.0490701 17	21.42705725	7.48E- 102	6.96E- 101	ENSG0000013509 0	TAOK3
162.590667 7	-2.851431919	0.2532571 89	-11.25903645	2.09E-29	5.20E-29	ENSG0000013509 4	SDS
1273.92804 6	-4.384374751	0.1826602 33	-24.00289696	2.59E- 127	3.75E- 126	ENSG0000013511 4	OASL
357.450833 1	-2.295456806	0.1453386 99	-15.79384446	3.43E-56	1.44E-55	ENSG0000013512 7	BICDL1
242.857084 8	-2.369132251	0.1970722 52	-12.02164299	2.73E-33	7.35E-33	ENSG0000013514 4	DTX1
2701.17374 6	-2.072973197	0.0694554 78	-29.84607218	9.87E- 196	3.98E- 194	ENSG0000013514 8	TRAFFD1
3099.41399 5	1.162143893	0.0689739 22	16.84903311	1.07E-63	5.18E-63	ENSG0000013516 4	DMTF1
4125.73527 9	1.070763162	0.2325711 19	4.604024633	4.14E-06	5.62E-06	ENSG0000013521 8	CD36
4872.39799 4	-5.478338812	0.2247691 37	-24.37318074	3.29E- 131	5.09E- 130	ENSG0000013524 5	HILPDA
2005.63208 7	-1.014719426	0.0671874 5	-15.10281203	1.55E-51	5.98E-51	ENSG0000013525 0	SRPK2
2640.01983 5	-1.071421412	0.1038513 37	-10.31687642	5.91E-25	1.33E-24	ENSG0000013526 9	TES
83.9940947 2	1.580590767	0.1178611 58	13.41061628	5.24E-41	1.66E-40	ENSG0000013531 4	KHDC1
3034.99314 2	-1.548022054	0.0857219 13	-18.05865041	6.75E-73	3.83E-72	ENSG0000013533 4	AKIRIN2
6834.39860 2	-1.442820828	0.1048810 31	-13.7567376	4.64E-43	1.52E-42	ENSG0000013536 5	PHF21A
14147.6344 1	-2.840066245	0.1326137 75	-21.41607265	9.46E- 102	8.80E- 101	ENSG0000013540 4	CD63
858.937454 4	1.656202713	0.0986868 77	16.78240073	3.28E-63	1.58E-62	ENSG0000013541 4	GDF11
778.161218 7	-1.48375389	0.2182349 58	-6.798882755	1.05E-11	1.72E-11	ENSG0000013542 4	ITGA7
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302.889735 3	1.035836463	0.0570410 15	18.15950273	1.08E-73	6.23E-73	ENSG0000013749 4	ANKRD42
498.563528 6	-1.225470029	0.1949670 18	-6.285524827	3.27E-10	5.08E-10	ENSG0000013750 1	SYTL2
483.164240 5	-2.130179856	0.1655558 17	-12.86683787	6.92E-38	2.05E-37	ENSG0000013750 2	RAB30
96.5485995	-1.262874356	0.2142590 09	-5.894148208	3.77E-09	5.65E-09	ENSG0000013750 7	LRRC32

4073.16954	-1.867359237	0.1196934 68	-15.60117914	7.15E-55	2.94E-54	ENSG0000013750 9	PRCP
468.101927	1.102167236	0.1160749 51	9.495306458	2.20E-21	4.55E-21	ENSG0000013751 3	NARS2
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423.604484 7	1.53984799	0.1169506 62	13.16664619	1.37E-39	4.21E-39	ENSG0000013760 1	NEK1
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75.6661696 9	-1.01674834	0.1477447 22	-6.881791276	5.91E-12	9.70E-12	ENSG0000013774 7	TMPRSS13
4536.38713 3	-2.204258298	0.1586069 04	-13.89761889	6.55E-44	2.19E-43	ENSG0000013775 2	CASP1
258.209150 1	1.12037801	0.1125122 22	9.957833813	2.33E-23	5.05E-23	ENSG0000013776 0	ALKBH8
4668.84169 1	-3.445558109	0.1261930 34	-27.30386939	3.82E- 164	9.69E- 163	ENSG0000013776 7	SQOR
1839.07720 7	1.567446861	0.0878732 08	17.83759684	3.61E-71	1.99E-70	ENSG0000013777 0	CTDSPL2
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971.314912 1	1.637592285	0.2064577 47	7.93185196	2.16E-15	3.87E-15	ENSG0000013781 2	KNL1
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891.221592 7	1.873007995	0.0777948 2	24.07625595	4.43E- 128	6.49E- 127	ENSG0000013782 2	TUBGCP4
177.682493 9	1.081395289	0.1595562 27	6.777518543	1.22E-11	1.99E-11	ENSG0000013783 1	UACA
63.1920586 9	1.639151396	0.1593589 24	10.28590904	8.16E-25	1.83E-24	ENSG0000013783 4	SMAD6
51.8618738 4	-1.716567999	0.1514804 3	-11.33194564	9.12E-30	2.29E-29	ENSG0000013784 3	PAK6
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1364.04717 6	2.066348421	0.0734461 85	28.13418324	3.74E- 174	1.11E- 172	ENSG0000013787 1	ZNF280D
167.944366 2	-1.38646699	0.1575920 25	-8.797824556	1.39E-18	2.70E-18	ENSG0000013787 7	SPTBN5

74.6810418	1.885832391	0.2020771 19	9.332241073	1.04E-20	2.11E-20	ENSG0000013794 1	TTLL7
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2467.19573 3	-1.650651749	0.3061003 45	-5.392518415	6.95E-08	1.00E-07	ENSG0000013795 9	IFI44L
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788.410107 9	1.167169006	0.1085779 94	10.74959077	5.95E-27	1.40E-26	ENSG0000013807 8	PREPL
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4723.51644 8	-1.758997613	0.0785891 43	-22.38219617	5.87E- 111	6.48E- 110	ENSG0000013810 7	ACTR1A
644.021080 2	-1.493008182	0.1239185 34	-12.04830413	1.98E-33	5.34E-33	ENSG0000013811 1	MFSD13A
131.628668 3	3.458185527	0.1693165 11	20.42438451	1.02E-92	8.05E-92	ENSG0000013813 1	LOXL4
1316.90227 1	1.041717136	0.1822876 39	5.714688839	1.10E-08	1.63E-08	ENSG0000013816 0	KIF11
1154.23506 3	-2.52550082	0.1831596 42	-13.78852238	2.99E-43	9.85E-43	ENSG0000013816 6	DUSP5
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787.615385 8	1.028338182	0.0512054 31	20.08259989	1.05E-89	7.88E-89	ENSG0000013828 6	FAM149B1
161.331194 1	2.277859391	0.2357562 31	9.661926586	4.38E-22	9.22E-22	ENSG0000013831 6	ADAMTS14
210.086809 8	3.363170122	0.1661483 6	20.24197003	4.18E-91	3.22E-90	ENSG0000013833 6	TET1
481.179895 2	1.147556143	0.1592976 28	7.20384955	5.85E-13	9.87E-13	ENSG0000013834 6	DNA2
991.525799 3	-2.132095239	0.1753919 41	-12.15617564	5.32E-34	1.45E-33	ENSG0000013837 8	STAT4
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679.909746 8	1.381619797	0.1262118 45	10.94683144	6.88E-28	1.66E-27	ENSG0000013844 8	ITGAV
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3220.24592 2	-1.222316962	0.0964036 29	-12.67915924	7.72E-37	2.24E-36	ENSG0000013918 2	CLSTN3
386.785623 8	-1.051036341	0.1800484 27	-5.837520257	5.30E-09	7.92E-09	ENSG0000013918 7	KLRG1
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134.234520 5	1.073052048	0.1982088 25	5.413745055	6.17E-08	8.94E-08	ENSG0000013935 4	GAS2L3
3818.70049 7	-2.767265222	0.0844083 54	-32.78425756	9.87E- 236	6.36E- 234	ENSG0000013937 0	SLC15A4
1533.03059 5	-1.885915125	0.0835660 09	-22.56796919	8.95E- 113	1.02E- 111	ENSG0000013943 3	GLTP
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373.234329 7	-1.283945619	0.1906993 22	-6.732827404	1.66E-11	2.69E-11	ENSG0000013973 7	SLAIN1
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1710.85024 5	-4.287298662	0.1663530 85	-25.77228228	1.81E- 146	3.58E- 145	ENSG0000013983 2	RAB20
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220.671248 9	2.648906685	0.0843405 63	31.4072681	1.61E- 216	8.45E- 215	ENSG0000013990 8	TSSK4
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2320.59762 3	-2.343965828	0.1538775 85	-15.23266579	2.15E-52	8.43E-52	ENSG0000014004 4	JDP2
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2578.25431 3	1.668801223	0.0777321 39	21.46861317	3.06E- 102	2.87E- 101	ENSG0000014026 2	TCF12
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277.455147 9	2.623367227	0.1616779 24	16.22588392	3.31E-59	1.48E-58	ENSG0000014028 4	SLC27A2
559.307823	1.662568568	0.3118686 24	5.330990172	9.77E-08	1.41E-07	ENSG0000014028 7	HDC
87.9706460 8	3.478785522	0.1220556 76	28.50162852	1.12E- 178	3.59E- 177	ENSG0000014032 3	DISP2
11009.4580 6	-2.893475011	0.1235483 44	-23.41977984	2.69E- 121	3.49E- 120	ENSG0000014033 2	TLE3
8357.01575 7	-1.105642347	0.0629045 47	-17.57650916	3.73E-69	1.97E-68	ENSG0000014035 0	ANP32A
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5762.66889 3	-2.946810743	0.1631018 23	-18.06730719	5.77E-73	3.29E-72	ENSG0000014036 8	PSTPIP1
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821.396938 5	1.319893128	0.0577317 21	22.86252861	1.10E- 115	1.30E- 114	ENSG0000014038 6	SCAPER
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2227.23910 4	-1.962168296	0.1954969 07	-10.03682528	1.05E-23	2.29E-23	ENSG0000014040 3	DNAJA4
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195.920051 3	1.339741374	0.0536223 15	24.98477321	8.95E- 138	1.52E- 136	ENSG0000014054 3	DET1
5639.39042 7	-1.256670289	0.1492478 25	-8.420024144	3.76E-17	7.05E-17	ENSG0000014056 3	MCTP2
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17355.0224 8	-1.130314769	0.1140638 62	-9.90949057	3.79E-23	8.16E-23	ENSG0000014057 5	IQGAP1
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31438.4520 8	-3.709213983	0.2105877 34	-17.61362787	1.94E-69	1.03E-68	ENSG0000014067 8	ITGAX
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277.538296 6	-4.547188915	0.1036674 16	-43.8632418	0.00E+0 0	0.00E+0 0	ENSG0000014108 6	CTRL
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2439.29852	-1.479594616	0.153037248	-9.668199309	4.12E-22	8.68E-22	ENSG00000143409	MINDY1
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440.651429 2	-1.241142178	0.2944220 31	-4.215520745	2.49E-05	3.28E-05	ENSG0000015165 0	VENTX
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376.61251	1.570969858	0.0970691 52	16.18402788	6.54E-59	2.91E-58	ENSG0000015166 5	PIGF
231.041828 5	2.544773545	0.0788591 65	32.26985142	1.85E- 228	1.10E- 226	ENSG0000015168 7	ANKAR
1222.13312 3	1.432761864	0.1026115 57	13.96296783	2.62E-44	8.85E-44	ENSG0000015169 2	RNF144A
130.162312 8	3.424901271	0.1796430 8	19.06503309	4.93E-81	3.22E-80	ENSG0000015169 3	ASAP2
1666.11849 5	1.01984548	0.1073234 32	9.502542592	2.05E-21	4.25E-21	ENSG0000015169 4	ADAM17
214.742678 3	-3.548795501	0.1907844 76	-18.60107059	3.15E-77	1.92E-76	ENSG0000015171 5	TMEM45B

166.042583 9	1.851975341	0.2056576 16	9.00513863	2.15E-19	4.25E-19	ENSG0000015171 8	WWC2
805.767643 1	1.539462631	0.1742331 93	8.835644924	9.95E-19	1.94E-18	ENSG0000015172 5	CENPU
59778.7952 9	-4.937352758	0.1920680 61	-25.70626649	9.95E- 146	1.94E- 144	ENSG0000015172 6	ACSL1
275.886534 3	-2.601585825	0.1528961 5	-17.01537825	6.32E-65	3.13E-64	ENSG0000015172 9	SLC25A4
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563.455858 7	1.795268564	0.1246542 8	14.40198089	5.03E-47	1.79E-46	ENSG0000015174 6	BICD1
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1843.17618 8	1.207948389	0.0800255 65	15.09453126	1.76E-51	6.76E-51	ENSG0000015177 9	NBAS
1016.52264 4	1.043218103	0.0887520 61	11.75429716	6.71E-32	1.76E-31	ENSG0000015180 6	GUF1
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116.749657 6	2.569153961	0.0929373 88	27.6439225	3.30E- 168	8.88E- 167	ENSG0000015184 6	PABPC3
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5607.21417 1	-6.12486447	0.2623549 96	-23.3457131	1.52E- 120	1.95E- 119	ENSG0000015194 8	GLT1D1
226.403092 7	1.169705785	0.1981470 95	5.903219444	3.56E-09	5.36E-09	ENSG0000015205 6	AP1S3
899.533257 2	-1.609715781	0.0909810 93	-17.69286053	4.76E-70	2.57E-69	ENSG0000015208 2	MZT2B
466.323688 4	4.900106324	0.2127539 36	23.03180101	2.24E- 117	2.73E- 116	ENSG0000015210 4	PTPN14
64.4364602 6	1.624213559	0.1695002 96	9.582364143	9.48E-22	1.99E-21	ENSG0000015212 8	TMEM163
779.535570 2	1.564547085	0.1069995 79	14.62199297	2.03E-48	7.41E-48	ENSG0000015213 3	GPATCH11
302.654831 9	1.837654714	0.1911199 88	9.615188496	6.90E-22	1.45E-21	ENSG0000015220 7	CYSLTR2
1526.18604 8	-1.551869089	0.1399969 59	-11.08502002	1.48E-28	3.62E-28	ENSG0000015221 3	ARL11
3998.57683	-1.614294802	0.1535253 29	-10.51484348	7.38E-26	1.70E-25	ENSG0000015222 9	PSTPIP2

109.197527	-1.349652256	0.1146954 12	-11.76727327	5.76E-32	1.51E-31	ENSG0000015228 4	TCF7L1
234.615790 5	1.206988476	0.0699430 77	17.25672537	9.96E-67	5.10E-66	ENSG0000015234 8	ATG10
57.9364375 9	1.317601964	0.2278628 7	5.782433805	7.36E-09	1.10E-08	ENSG0000015237 7	SPOCK1
458.139398 7	1.228940414	0.1091291 33	11.26134133	2.04E-29	5.07E-29	ENSG0000015238 2	TADA1
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448.036774 2	1.913942672	0.1606376 7	11.9146566	9.93E-33	2.64E-32	ENSG0000015245 5	SUV39H2
988.111990 9	1.712948759	0.0577814 96	29.64528215	3.90E- 193	1.51E- 191	ENSG0000015245 7	DCLRE1C
640.548757 1	-2.090698996	0.1564528 66	-13.36312362	9.93E-41	3.13E-40	ENSG0000015249 5	CAMK4
14963.3993	1.111400386	0.1195511 93	9.2964391	1.45E-20	2.94E-20	ENSG0000015251 8	ZFP36L2
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282.164445	2.394281481	0.1309140 82	18.28895295	1.01E-74	5.93E-74	ENSG0000015258 2	SPEF2
137.456610 6	-1.752340783	0.1858779 62	-9.427372474	4.20E-21	8.65E-21	ENSG0000015258 3	SPARCL1
671.373282 7	1.898087364	0.0778478 11	24.38202629	2.65E- 131	4.12E- 130	ENSG0000015262 0	NADK2
882.716572 7	-2.78204144	0.0851676 15	-32.66548469	4.83E- 234	3.04E- 232	ENSG0000015268 4	PELO
428.171057 6	1.100759326	0.1432542 58	7.683955376	1.54E-14	2.72E-14	ENSG0000015274 9	GPR180
289.998841 8	3.236606278	0.2604424 01	12.42734004	1.86E-35	5.22E-35	ENSG0000015276 0	TCTEX1D1
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902.597104	2.089748054	0.1620600 93	12.89489602	4.81E-38	1.43E-37	ENSG0000015278 4	PRDM8
4749.20268 6	1.052991343	0.0927218 59	11.35645204	6.89E-30	1.73E-29	ENSG0000015281 8	UTRN

817.724848 2	1.501591428	0.0801237 95	18.74089261	2.30E-78	1.43E-77	ENSG0000015294 4	MED21
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182.773425 6	-3.505620677	0.1734754 95	-20.20816067	8.30E-91	6.38E-90	ENSG0000015296 9	JAKMIP1
595.646444 4	5.268323448	0.1350144 88	39.02043051	0.00E+0 0	0.00E+0 0	ENSG0000015299 0	ADGRA3
1190.66943 7	1.783347774	0.0825123 54	21.61310032	1.35E- 103	1.30E- 102	ENSG0000015300 6	SREK1IP1
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8671.69527 1	-1.745018685	0.1152163 84	-15.1455776	8.10E-52	3.14E-51	ENSG0000015331 0	FAM49B
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1016.08406	-1.400243818	0.0692965 66	-20.20653974	8.58E-91	6.58E-90	ENSG0000015348 7	ING1
95.6598776 8	3.149077697	0.1031462 38	30.53022359	1.04E- 204	4.59E- 203	ENSG0000015355 8	FBXL2
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155.552527 9	2.196595672	0.2144253 15	10.24410608	1.26E-24	2.81E-24	ENSG0000015372 1	CNKS3
3546.60961 9	-1.376025427	0.0971488 08	-14.16409994	1.53E-45	5.29E-45	ENSG0000015378 6	ZDHHC7
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47.2520034 9	1.252921038	0.1037994 37	12.07059566	1.51E-33	4.09E-33	ENSG0000015383 2	FBXO36

499.298386 1	1.735227737	0.1649711 98	10.51836778	7.11E-26	1.64E-25	ENSG0000015388 5	KCTD15
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4711.17238 4	2.159116373	0.1326450 2	16.2774025	1.43E-59	6.44E-59	ENSG0000015394 4	MSI2
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126.967683 5	1.083183172	0.1312686 05	8.251654443	1.56E-16	2.88E-16	ENSG0000015402 5	SLC5A10
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577.039674 9	1.607902092	0.0802156 09	20.04475326	2.24E-89	1.68E-88	ENSG0000015405 9	IMPACT
224.809472 8	1.189775794	0.1254306 99	9.48552313	2.41E-21	4.99E-21	ENSG0000015410 2	C16orf74
2064.62820 2	-1.238498341	0.1309957 18	-9.45449487	3.25E-21	6.69E-21	ENSG0000015412 2	ANKH
1944.97913 4	1.431661163	0.1494446 48	9.57987579	9.72E-22	2.03E-21	ENSG0000015412 7	UBASH3B
401.091681 2	1.25869177	0.1776707 64	7.084405677	1.40E-12	2.33E-12	ENSG0000015413 4	ROBO3
6735.66902 1	-3.611598492	0.2151643 78	-16.78529934	3.13E-63	1.50E-62	ENSG0000015414 6	NRGN
31.1720091 7	1.471678852	0.1489793 02	9.878411521	5.16E-23	1.11E-22	ENSG0000015417 5	ABI3BP
1150.87815 4	6.320634122	0.2183647 35	28.94530626	3.22E- 184	1.12E- 182	ENSG0000015418 8	ANGPT1
1780.40266 5	-1.931635815	0.1285619 69	-15.02493954	5.04E-51	1.92E-50	ENSG0000015421 7	PITPNC1
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77.3019128 4	2.432870471	0.2068278 04	11.76278251	6.07E-32	1.59E-31	ENSG0000015425 8	ABCA9

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384.546540 5	1.951898228	0.0936310 58	20.84669632	1.63E-96	1.39E-95	ENSG0000015508 5	AK9
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676.844303 2	1.539387957	0.1441999 77	10.67536898	1.33E-26	3.10E-26	ENSG0000015584 6	PPARGC1B
716.769025 4	2.402521949	0.1058460 37	22.6982702	4.66E- 114	5.42E- 113	ENSG0000015585 0	SLC26A2
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1693.40814 2	1.5263397	0.1441990 71	10.58494826	3.50E-26	8.10E-26	ENSG0000016267 6	GFI1
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1794.65832 7	1.038371843	0.0611880 92	16.97016223	1.37E-64	6.72E-64	ENSG0000016269 5	SLC30A7
13740.5142 4	-2.187309685	0.1119050 58	-19.54611988	4.45E-85	3.13E-84	ENSG0000016270 4	ARPC5

4193.09081 5	-2.005815938	0.2323007 2	-8.634566159	5.90E-18	1.12E-17	ENSG0000016271 1	NLRP3
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2119.72874 6	-1.213766255	0.0933557 39	-13.00151733	1.20E-38	3.62E-38	ENSG0000016273 4	PEA15
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57.0561049 4	-1.642942218	0.1306980 75	-12.5705158	3.07E-36	8.79E-36	ENSG0000016274 6	FCRLB
38115.6668 2	-9.03081084	0.3238023 81	-27.88988396	3.54E- 171	1.01E- 169	ENSG0000016274 7	FCGR3B
278.309814 4	-1.605700133	0.0722680 61	-22.21866918	2.27E- 109	2.43E- 108	ENSG0000016275 7	C1orf74
1087.62326 8	-1.972154692	0.2160337 99	-9.128917338	6.92E-20	1.38E-19	ENSG0000016277 2	ATF3
3161.13921	-2.203578267	0.0858136 87	-25.67863398	2.03E- 145	3.93E- 144	ENSG0000016277 7	DENND2D
2079.98754 7	-2.267001234	0.1206269 9	-18.79348262	8.54E-79	5.36E-78	ENSG0000016278 3	IER5
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91.2094839 1	-2.503681407	0.1832625 1	-13.66172166	1.72E-42	5.60E-42	ENSG0000016281 7	C1orf115
398.711627 1	1.183488924	0.1366558 34	8.660361531	4.70E-18	9.00E-18	ENSG0000016285 1	TFB2M
2005.39161 5	1.826041518	0.0840126 06	21.73532755	9.51E- 105	9.38E- 104	ENSG0000016285 2	CNST
686.297121 4	-2.513843178	0.1536386 2	-16.36205254	3.57E-60	1.63E-59	ENSG0000016288 1	OXER1
284.042328 5	1.956215475	0.1177835 43	16.60856373	6.04E-62	2.84E-61	ENSG0000016288 5	B3GALNT2
9021.85128 2	-1.615699026	0.1010097 1	-15.99548223	1.37E-57	5.94E-57	ENSG0000016288 9	MAPKAPK2
503.393802 6	-2.816687768	0.1288467 76	-21.86075479	6.14E- 106	6.18E- 105	ENSG0000016289 2	IL24
3614.19683 1	-3.169912917	0.1286696 64	-24.63605496	5.19E- 134	8.30E- 133	ENSG0000016289 4	FCMR
942.530659 2	-2.746362538	0.1150690 06	-23.86709178	6.73E- 126	9.54E- 125	ENSG0000016291 0	MRPL55
8309.16760 9	-1.09893643	0.0773026 69	-14.21602184	7.29E-46	2.54E-45	ENSG0000016292 3	WDR26

423.949254 4	1.949329318	0.0757570 5	25.73132545	5.22E- 146	1.02E- 144	ENSG0000016292 7	PUS10
348.624917 1	1.801764423	0.0858452 11	20.98852568	8.35E-98	7.28E-97	ENSG0000016292 9	KIAA1841
113.814504 1	1.291869781	0.1159203 61	11.14445965	7.62E-29	1.87E-28	ENSG0000016293 1	TRIM17
58.8489341 5	1.390509077	0.1544480 21	9.003087672	2.19E-19	4.33E-19	ENSG0000016294 4	RFTN2
384.408890 9	2.027065419	0.0757316 9	26.76640955	7.95E- 158	1.85E- 156	ENSG0000016295 9	MEMO1
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184.962437 2	2.304178853	0.1222102 9	18.85421308	2.71E-79	1.72E-78	ENSG0000016299 4	CLHC1
83.3083244 3	2.01106096	0.1549326 98	12.98022297	1.58E-38	4.77E-38	ENSG0000016299 9	DUSP19
234.475016 4	2.328622465	0.1633296 69	14.25719206	4.04E-46	1.42E-45	ENSG0000016300 6	CCDC138
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236.342424 4	-1.098586575	0.1974388 1	-5.564187575	2.63E-08	3.85E-08	ENSG0000016308 2	SGPP2
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2435.50966 2	1.428603854	0.0433532 65	32.95262417	3.88E- 238	2.56E- 236	ENSG0000016312 5	RPRD2
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204.200802 8	1.838085777	0.0967761 83	18.9931626	1.94E-80	1.25E-79	ENSG0000016313 8	PACRGL
61.1286315 7	-1.06870803	0.1423613 94	-7.507007342	6.05E-14	1.05E-13	ENSG0000016314 1	BNIP1
1622.32749 9	-2.009316899	0.1718464 39	-11.69251402	1.39E-31	3.62E-31	ENSG0000016315 4	TNFAIP8L2
1346.94452 8	-1.683601437	0.0790547 11	-21.29666183	1.22E- 100	1.11E-99	ENSG0000016315 6	SCNM1
12198.7741 9	-2.904636602	0.1476740 55	-19.66924113	3.96E-86	2.83E-85	ENSG0000016316 2	RNF149
161.039399 3	-1.057632702	0.1450047 42	-7.293780105	3.01E-13	5.12E-13	ENSG0000016317 0	BOLA3

5782.59897 5	-1.852203678	0.1556419 1	-11.90041728	1.18E-32	3.13E-32	ENSG0000016317 1	CDC42EP3
39650.4865 7	-5.062476612	0.2098449 36	-24.12484531	1.37E- 128	2.03E- 127	ENSG0000016319 1	S100A11
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718.430772 8	-3.206740802	0.2544014 31	-12.60504233	1.98E-36	5.69E-36	ENSG0000016323 5	TGFA
191.493901 8	1.001677621	0.1076923 02	9.301292717	1.39E-20	2.81E-20	ENSG0000016325 1	FZD5
1498.33325 8	1.32889279	0.0837761 16	15.86243023	1.15E-56	4.90E-56	ENSG0000016325 7	DCAF16
431.826305 9	1.162638108	0.1196870 13	9.713987141	2.63E-22	5.57E-22	ENSG0000016328 1	GNPDA2
448.244253 5	1.793888443	0.0988708 88	18.14374766	1.44E-73	8.28E-73	ENSG0000016329 1	PAQR3
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412.551987 7	1.727894599	0.0826129 89	20.91553181	3.87E-97	3.31E-96	ENSG0000016332 2	ABRAXAS1
791.356024 1	-1.583187782	0.1272646 26	-12.44012447	1.58E-35	4.46E-35	ENSG0000016332 8	GPR155
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538.509544	1.93174189	0.0769118 6	25.11630717	3.30E- 139	5.77E- 138	ENSG0000016337 8	EOGT
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1634.16591 5	2.645986845	0.0977427 1	27.07093814	2.17E- 161	5.30E- 160	ENSG0000016340 6	SLC15A2
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7025.68991 4	-4.379959615	0.3016441 66	-14.5202862	9.01E-48	3.25E-47	ENSG0000016342 1	PROK2

2074.25843 3	1.807395553	0.1174682 86	15.38624267	2.02E-53	8.10E-53	ENSG0000016342 8	LRRC58
1636.99947 1	-1.322598464	0.0599687	-22.05481288	8.59E- 108	8.91E- 107	ENSG0000016344 4	TMEM183A
1860.40897 4	1.586696137	0.1624764 98	9.765696333	1.58E-22	3.36E-22	ENSG0000016345 3	IGFBP7
373.358530 7	1.632099085	0.1462067 16	11.16295566	6.19E-29	1.52E-28	ENSG0000016346 2	TRIM46
1401.75832 9	-1.960876685	0.0769627 94	-25.47824198	3.44E- 143	6.43E- 142	ENSG0000016346 3	KRTCAP2
30880.3326 9	-10.14719774	0.3048358 2	-33.28741922	5.87E- 243	4.17E- 241	ENSG0000016346 4	CXCR1
24296.3716 7	-1.731822742	0.0787336 18	-21.99597576	3.15E- 107	3.23E- 106	ENSG0000016346 6	ARPC2
6950.20057 6	-1.423803409	0.0636622 62	-22.36495152	8.64E- 111	9.52E- 110	ENSG0000016347 9	SSR2
526.357969 4	-1.289662411	0.0588912 26	-21.8990588	2.65E- 106	2.68E- 105	ENSG0000016348 1	RNF25
488.948110 4	1.040501087	0.1824841 25	5.701871804	1.18E-08	1.75E-08	ENSG0000016350 7	CIP2A
789.865775 8	-3.714656567	0.2382740 55	-15.58984912	8.53E-55	3.50E-54	ENSG0000016350 8	EOMES
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2701.69626	-1.735192676	0.0645087 98	-26.89854304	2.28E- 159	5.37E- 158	ENSG0000016351 6	ANKZF1
581.703528 2	-1.185720898	0.2331637 37	-5.085357239	3.67E-07	5.17E-07	ENSG0000016353 4	FCRL1
537.092515 2	1.128111211	0.2092168 61	5.392066413	6.97E-08	1.01E-07	ENSG0000016353 5	SGO2
2061.07433 8	1.883191369	0.0738610 62	25.49640237	2.16E- 143	4.07E- 142	ENSG0000016353 9	CLASP2
2006.69428 7	-4.266284402	0.2091124 03	-20.40187164	1.61E-92	1.27E-91	ENSG0000016354 5	NUAK2
744.432827 4	1.493175684	0.0713454 83	20.92880482	2.93E-97	2.52E-96	ENSG0000016355 8	PRKCI
26892.5712 9	-3.386190484	0.2190333 3	-15.45970416	6.49E-54	2.62E-53	ENSG0000016356 3	MNDA
1006.32096 4	-1.965722132	0.2001426 01	-9.821607812	9.09E-23	1.94E-22	ENSG0000016356 4	PYHIN1
8317.42879 6	-1.493006739	0.0928993 33	-16.07123205	4.06E-58	1.78E-57	ENSG0000016356 5	IFI16
471.52801	-3.460582935	0.1853005 27	-18.67551587	7.83E-78	4.84E-77	ENSG0000016356 8	AIM2

656.761209 1	1.109267153	0.1367139 33	8.113782783	4.91E-16	8.94E-16	ENSG0000016359 0	PPM1L
404.261152 8	3.086185019	0.1034911 44	29.82076434	2.10E- 195	8.40E- 194	ENSG0000016359 6	ICA1L
111.452593 9	-2.339137104	0.2251177 59	-10.39072668	2.73E-25	6.20E-25	ENSG0000016359 9	CTLA4
179.547491 6	-2.316744371	0.2193873 42	-10.56006397	4.56E-26	1.05E-25	ENSG0000016360 0	ICOS
4187.26810 7	-1.444102108	0.1013195 06	-14.25295251	4.30E-46	1.50E-45	ENSG0000016360 2	RYBP
605.386638 8	1.699244628	0.0990853 44	17.14930348	6.36E-66	3.22E-65	ENSG0000016361 1	SPICE1
271.214077 5	1.11915274	0.0834907 3	13.40451489	5.69E-41	1.80E-40	ENSG0000016361 7	CCDC191
3127.56681 4	-1.737386611	0.2264637 13	-7.671810145	1.70E-14	2.98E-14	ENSG0000016362 5	WDFY3
123.770888 3	1.364771498	0.1929508 11	7.073157611	1.51E-12	2.52E-12	ENSG0000016362 9	PTPN13
137.578799 6	2.940292699	0.1157834 13	25.39476621	2.88E- 142	5.28E- 141	ENSG0000016363 3	C4orf36
1937.68584 6	-1.193135845	0.0941249 43	-12.67608569	8.02E-37	2.32E-36	ENSG0000016365 9	TIPARP
340.090966 2	-1.566031347	0.2146975 37	-7.294128138	3.01E-13	5.10E-13	ENSG0000016366 1	PTX3
1104.1708	-1.026447125	0.1321533 29	-7.767092443	8.03E-15	1.42E-14	ENSG0000016368 3	SMIM14
2790.91543 5	-1.237378783	0.2071010 27	-5.974759288	2.30E-09	3.49E-09	ENSG0000016369 4	RBM47
172.410112	-1.279563767	0.1937200 4	-6.605221474	3.97E-11	6.35E-11	ENSG0000016369 7	APBB2
416.742839 2	4.574118303	0.2396350 67	19.08785037	3.19E-81	2.09E-80	ENSG0000016370 1	IL17RE
275.160618 4	1.277926466	0.1349953 99	9.466444627	2.90E-21	5.98E-21	ENSG0000016370 2	IL17RC
3738.83337 3	1.256415828	0.1008179 54	12.46222309	1.20E-35	3.39E-35	ENSG0000016371 4	U2SURP
3292.50552	-1.16560381	0.0869655 49	-13.40305245	5.80E-41	1.84E-40	ENSG0000016371 9	MTMR14
74.2825646 7	1.299022987	0.2339940 37	5.551521761	2.83E-08	4.14E-08	ENSG0000016373 4	CXCL3
1811.99403 9	-2.143431631	0.3397778 63	-6.308332186	2.82E-10	4.39E-10	ENSG0000016373 6	PPBP
1420.51727 8	-3.586161897	0.3365891 11	-10.65442042	1.66E-26	3.87E-26	ENSG0000016373 7	PF4

501.928666 1	2.671628355	0.1121975 39	23.8118266	2.52E- 125	3.53E- 124	ENSG0000016373 8	MTHFD2L
303.802193 4	-3.491718552	0.2658793 32	-13.13271899	2.14E-39	6.57E-39	ENSG0000016373 9	CXCL1
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8440.16381 8	-3.617190033	0.1719334 56	-21.03831399	2.93E-98	2.56E-97	ENSG0000016375 4	GYG1
51.1374705 3	1.062822762	0.1053701 35	10.08656546	6.33E-24	1.39E-23	ENSG0000016379 4	UCN
618.483586 3	-1.224430804	0.0674838 69	-18.14405165	1.43E-73	8.24E-73	ENSG0000016379 5	ZNF513
2658.18476	-2.348441298	0.2205944 2	-10.64596874	1.82E-26	4.24E-26	ENSG0000016380 3	PLB1
99.7325485 9	2.75231291	0.0873902 95	31.49449176	1.03E- 217	5.48E- 216	ENSG0000016380 6	SPDYA
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3835.06110 1	-1.69163474	0.0962463 73	-17.57608815	3.76E-69	1.99E-68	ENSG0000016381 2	ZDHC3
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224.150224 1	1.937000411	0.1352151 04	14.32532578	1.52E-46	5.37E-46	ENSG0000016386 4	NMNAT3
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2526.89836 5	-2.922941564	0.1199990 52	-24.35803878	4.76E- 131	7.34E- 130	ENSG0000016387 4	ZC3H12A
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77.5965951	-1.363876906	0.1875658 15	-7.27145778	3.56E-13	6.03E-13	ENSG0000016392 3	RPL39L
39509.7068 6	-2.529788479	0.1236798 89	-20.45432363	5.50E-93	4.38E-92	ENSG0000016393 1	TKT
9971.40062	-1.988366516	0.1313902 03	-15.13329356	9.77E-52	3.77E-51	ENSG0000016393 2	PRKCD
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6883.97673 1	-2.089152886	0.1263880 91	-16.5296657	2.24E-61	1.04E-60	ENSG0000016395 6	LRPAP1
528.174030 7	-2.601333284	0.1831260 51	-14.20515141	8.51E-46	2.96E-45	ENSG0000016395 9	SLC51A
5101.96503 3	-5.983176192	0.2876664 65	-20.79900484	4.42E-96	3.73E-95	ENSG0000016399 3	S100P
231.337494 9	1.15920585	0.1052802 85	11.01066402	3.39E-28	8.23E-28	ENSG0000016403 9	BDH2
2436.08830 9	-6.482663207	0.3094908 16	-20.94622155	2.03E-97	1.76E-96	ENSG0000016404 7	CAMP
466.550330 3	2.056622938	0.1600176 43	12.85247612	8.33E-38	2.46E-37	ENSG0000016405 0	PLXNB1
205.726499	-3.446493385	0.0530039 06	-65.02338553	0.00E+0 0	0.00E+0 0	ENSG0000016405 3	ATRIP
11511.2970 9	-3.002870275	0.1156710 58	-25.96042885	1.39E- 148	2.83E- 147	ENSG0000016405 4	SHISA5
328.332908 7	1.864752488	0.1889720 72	9.867873419	5.74E-23	1.23E-22	ENSG0000016405 6	SPRY1
58.9171442 1	1.356205254	0.1031972 79	13.14187033	1.89E-39	5.83E-39	ENSG0000016406 1	BSN
927.943505 9	1.431246776	0.0730081 19	19.60393981	1.43E-85	1.01E-84	ENSG0000016407 4	ABHD18
1715.39702 1	1.29561628	0.0597276 55	21.69206691	2.44E- 104	2.37E- 103	ENSG0000016408 0	RAD54L2
5342.18299 4	-3.436770232	0.1586691 89	-21.65997225	4.90E- 104	4.74E- 103	ENSG0000016408 8	PPM1M
4775.03006 4	-2.107282083	0.1014300 52	-20.77571719	7.18E-96	6.05E-95	ENSG0000016409 6	C4orf3
96.1775232 5	2.181624658	0.1667626 3	13.08221551	4.16E-39	1.27E-38	ENSG0000016410 6	SCRG1
5969.74140 5	-2.282311571	0.1663797 54	-13.71748374	7.98E-43	2.61E-42	ENSG0000016411 1	ANXA5
1230.02334 5	4.840469992	0.1859028 6	26.03763063	1.86E- 149	3.86E- 148	ENSG0000016411 6	GUCY1A1
2219.62661 2	-3.401775056	0.3343544 85	-10.17415711	2.59E-24	5.73E-24	ENSG0000016412 0	HPGD
260.334199 4	1.075695143	0.1604496 19	6.704254894	2.02E-11	3.27E-11	ENSG0000016412 4	TMEM144
1837.72442 5	1.199378018	0.1104793 49	10.8561286	1.86E-27	4.44E-27	ENSG0000016413 4	NAA15
1982.22399 7	1.182893878	0.1453845 62	8.136310087	4.08E-16	7.44E-16	ENSG0000016416 3	ABCE1

2227.17549 1	1.821410032	0.0815188 6	22.34341884	1.40E- 110	1.53E- 109	ENSG0000016416 4	OTUD4
550.448645 6	-1.00645787	0.0886251 28	-11.3563489	6.90E-30	1.73E-29	ENSG0000016416 7	LSM6
947.874799 3	1.009675451	0.0647639 18	15.59009223	8.50E-55	3.49E-54	ENSG0000016416 8	TMEM184C
75.9055224 3	2.919440315	0.1927792 36	15.14395621	8.31E-52	3.22E-51	ENSG0000016417 1	ITGA2
733.419383 2	1.025530583	0.1171786 86	8.751852542	2.10E-18	4.05E-18	ENSG0000016418 0	TMEM161B
751.209305 2	1.33281241	0.1056082 54	12.62034326	1.63E-36	4.70E-36	ENSG0000016418 7	LMBRD2
221.018575 3	1.266558047	0.1226240 31	10.32879149	5.22E-25	1.18E-24	ENSG0000016422 1	CCDC112
344.323148 6	1.483952098	0.1727709 39	8.589130244	8.76E-18	1.67E-17	ENSG0000016423 7	CMBL
220.338092 6	1.446757995	0.1295512 6	11.16745602	5.88E-29	1.45E-28	ENSG0000016424 1	C5orf63
715.432534	1.513428509	0.1788204 57	8.463396935	2.60E-17	4.88E-17	ENSG0000016429 2	RHOBTB3
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395.835238 5	1.954987329	0.0884052 99	22.11391559	2.32E- 108	2.43E- 107	ENSG0000016430 6	PRIMPOL
61.1969037 5	-1.322647809	0.1553916 71	-8.511703342	1.71E-17	3.24E-17	ENSG0000016430 9	CMYA5
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106.403317 7	1.018239606	0.1596100 18	6.379546962	1.78E-10	2.78E-10	ENSG0000016444 0	TXLNB
3376.48882 9	-1.095902814	0.1092868 45	-10.02776517	1.15E-23	2.51E-23	ENSG0000016446 3	CREBRF
605.313762 4	-2.809877416	0.2251940 4	-12.47758342	9.89E-36	2.80E-35	ENSG0000016448 3	SAMD3
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238.032403 9	-1.648266486	0.1269517 55	-12.98340838	1.52E-38	4.58E-38	ENSG0000016462 0	RELL2
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3280.56194	-4.379708999	0.1567759 66	-27.93609965	9.73E- 172	2.81E- 170	ENSG0000016467 4	SYTL3
183.188638 8	4.40507928	0.2162649 77	20.36889808	3.16E-92	2.47E-91	ENSG0000016468 4	ZNF704
4097.16783 5	-1.734762002	0.1618352 2	-10.71931068	8.26E-27	1.94E-26	ENSG0000016469 1	TAGAP
5017.71822 1	-3.48381017	0.1362048 46	-25.57772549	2.70E- 144	5.17E- 143	ENSG0000016471 3	BRI3
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492.927722 1	3.217613015	0.2017572 41	15.94794321	2.94E-57	1.27E-56	ENSG0000016474 1	DLC1
165.993511 5	1.878009422	0.0867240 31	21.65500623	5.45E- 104	5.27E- 103	ENSG0000016477 6	PHKG1
155.247982 4	-2.10407394	0.1630499 42	-12.90447523	4.25E-38	1.27E-37	ENSG0000016484 9	GPR146
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895.131412 1	2.58600905	0.1682458 05	15.37042219	2.58E-53	1.03E-52	ENSG0000016487 7	MICAL2
68.8082570 9	-1.076295753	0.2284964 48	-4.710339093	2.47E-06	3.38E-06	ENSG0000016487 9	CA3
1861.95208 5	-1.050206574	0.0686170 45	-15.30533079	7.04E-53	2.79E-52	ENSG0000016489 6	FASTK
1497.50603	-2.250518288	0.0835485 04	-26.93666768	8.17E- 160	1.95E- 158	ENSG0000016489 7	TMUB1
163.745422 9	1.150442745	0.1872889 87	6.142607551	8.12E-10	1.25E-09	ENSG0000016490 4	ALDH7A1
24085.6238 2	-1.570989018	0.0618586 44	-25.39643458	2.76E- 142	5.07E- 141	ENSG0000016492 4	YWHAZ
919.413177 2	5.435314006	0.2533344 87	21.45508916	4.09E- 102	3.82E- 101	ENSG0000016492 9	BAALC

216.042874 2	1.654346353	0.2095929 18	7.893140528	2.95E-15	5.27E-15	ENSG0000016493 0	FZD6
1001.66444 8	1.036777103	0.1202311 13	8.623201401	6.51E-18	1.24E-17	ENSG0000016493 4	DCAF13
523.658317 7	1.217419136	0.0956427 25	12.72882107	4.09E-37	1.19E-36	ENSG0000016495 1	PDP1
179.942879 5	2.583819806	0.1752589 18	14.74287203	3.42E-49	1.26E-48	ENSG0000016495 3	TMEM67
351.273067 7	-1.21798743	0.0853526 59	-14.2700584	3.36E-46	1.18E-45	ENSG0000016496 7	RPP25L
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273.087321 1	3.49970054	0.1619580 39	21.60868678	1.49E- 103	1.43E- 102	ENSG0000016498 9	CCDC171
6413.09571 5	-2.685135811	0.1055639 61	-25.43610322	1.01E- 142	1.86E- 141	ENSG0000016500 6	UBAP1
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2393.95907 7	-1.00923794	0.0803776 54	-12.55620055	3.68E-36	1.05E-35	ENSG0000016517 5	MID1IP1
156.741693 7	2.296882295	0.1992311 3	11.52873197	9.45E-31	2.42E-30	ENSG0000016518 1	SHOC1
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5727.36812	-2.143242772	0.1375795 79	-15.5782042	1.02E-54	4.19E-54	ENSG0000016540 6	8-Mar
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361.472511 7	1.246795257	0.2142591 82	5.819098383	5.92E-09	8.84E-09	ENSG0000016548 0	SKA3
3825.10605 4	-1.650057568	0.0602226 57	-27.39928199	2.80E- 165	7.20E- 164	ENSG0000016550 2	RPL36AL
336.842150 1	1.279868431	0.1145795 32	11.17013145	5.71E-29	1.41E-28	ENSG0000016550 6	DNAAF2
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272.402934 6	-2.259996232	0.0947609 76	-23.84944021	1.03E- 125	1.45E- 124	ENSG0000016564 4	COMTD1
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174.294672 1	3.192473948	0.1505778 4	21.20148582	9.25E- 100	8.31E-99	ENSG0000016612 6	AMN
4278.44118 6	-1.815835688	0.0791393 27	-22.94479563	1.66E- 116	2.00E- 115	ENSG0000016612 8	RAB8B
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2020.17998 6	-1.873983753	0.1093956 88	-17.1303256	8.82E-66	4.44E-65	ENSG0000016616 9	POLL
967.912025	-1.077838464	0.1254615 27	-8.590987948	8.62E-18	1.64E-17	ENSG0000016618 8	ZNF319
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692.017051 4	1.626791205	0.0696366 43	23.36113764	1.06E- 120	1.36E- 119	ENSG0000016622 5	FRS2
42.8904568 7	1.446067355	0.1140687 21	12.67715939	7.91E-37	2.29E-36	ENSG0000016625 0	CLMP
107.059281 8	1.526716127	0.1044387 18	14.61829639	2.15E-48	7.82E-48	ENSG0000016626 2	FAM227B
301.481661 5	2.451906758	0.1154326 21	21.24102123	3.99E- 100	3.62E-99	ENSG0000016626 3	STXBP4
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2223.25011 1	-1.040001443	0.1136975 73	-9.147085683	5.85E-20	1.17E-19	ENSG0000016627 2	WBP1L
537.000286 5	-3.390022231	0.1329659 38	-25.49541838	2.22E- 143	4.17E- 142	ENSG0000016628 9	PLEKHF1
2794.92944 2	-1.28053998	0.0475397 76	-26.93618031	8.28E- 160	1.97E- 158	ENSG0000016629 5	ANAPC16
915.813914 6	-1.484637277	0.0966151 77	-15.36650168	2.75E-53	1.10E-52	ENSG0000016631 1	SMPD1
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71.3713150 7	1.118256809	0.1206258 79	9.270455189	1.85E-20	3.75E-20	ENSG0000016632 3	C11orf65
3315.58825 7	-5.020348624	0.0878157 59	-57.16910788	0.00E+0 0	0.00E+0 0	ENSG0000016633 3	ILK
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596.348286 8	2.432224799	0.1980711 91	12.2795485	1.17E-34	3.23E-34	ENSG0000016634 1	DCHS1
430.115227 7	2.443987358	0.0921833 1	26.51225443	7.00E- 155	1.56E- 153	ENSG0000016634 8	USP54
139.980825 1	3.103217306	0.1391315 01	22.30420349	3.36E- 110	3.66E- 109	ENSG0000016635 2	C11orf74
54.6009270 8	2.886528384	0.0946577 21	30.4943786	3.09E- 204	1.37E- 202	ENSG0000016635 9	WDR88
1275.05944	1.025939616	0.0538315 57	19.05833078	5.60E-81	3.65E-80	ENSG0000016637 7	ATP9B
510.829678 1	-1.560079229	0.1416127 66	-11.01651551	3.18E-28	7.72E-28	ENSG0000016638 7	PPFIBP2
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146.700871 7	-1.819078031	0.1508871 43	-12.05588495	1.81E-33	4.87E-33	ENSG0000016640 5	RIC3
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455.481047 1	1.130096951	0.0971287 82	11.63503673	2.73E-31	7.07E-31	ENSG0000016643 5	XRR1A1
1234.12458 4	1.105152799	0.0858914 61	12.86685289	6.92E-38	2.05E-37	ENSG0000016643 9	RNF169
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98.1942626	1.534682394	0.1309852 16	11.71645508	1.05E-31	2.74E-31	ENSG0000016644 4	ST5
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42.5134928 4	1.834111499	0.1127981 46	16.26012097	1.89E-59	8.52E-59	ENSG0000016645 5	C16orf46
908.847942 8	-1.054084077	0.0572780 1	-18.40294526	1.24E-75	7.38E-75	ENSG0000016647 8	ZNF143
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320.131196 9	2.413998087	0.2253701 92	10.71125717	9.01E-27	2.12E-26	ENSG0000016648 2	MFAP4

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2502.15752 7	-3.864999981	0.1071957 57	-36.05553138	1.13E- 284	1.18E- 282	ENSG0000016650 7	NDST2
5572.87418 2	-5.564947548	0.3264334 99	-17.047722	3.63E-65	1.81E-64	ENSG0000016652 3	CLEC4E
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127.706616 4	1.025000619	0.0630731 92	16.25097109	2.20E-59	9.88E-59	ENSG0000016652 9	ZSCAN21
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980.924739 2	-1.683389628	0.0576485 01	-29.20092643	1.89E- 187	6.75E- 186	ENSG0000016659 5	CIAO2B
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1589.83729 2	-1.078459736	0.0570118 3	-18.9164203	8.35E-80	5.34E-79	ENSG0000016809 0	COPS6
817.257416 7	-1.62840796	0.0692166 97	-23.52623032	2.20E- 122	2.92E- 121	ENSG0000016810 1	NUDT16L1
363.303393 5	1.485348455	0.1414302 99	10.50233557	8.43E-26	1.94E-25	ENSG0000016811 6	KIAA1586
78.6142978 2	1.230801601	0.1020590 34	12.05970268	1.72E-33	4.66E-33	ENSG0000016814 0	VASN
149.417379 4	1.43938682	0.1014668 74	14.18578063	1.12E-45	3.89E-45	ENSG0000016815 2	THAP9
3780.51775	-2.117547783	0.1043816 95	-20.28658167	1.69E-91	1.31E-90	ENSG0000016815 9	RNF187
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8707.63219 5	-4.649171918	0.2112993 66	-22.00277266	2.71E- 107	2.79E- 106	ENSG0000016820 9	DDIT4
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511.301708	-1.214341932	0.0850230 76	-14.28249828	2.81E-46	9.90E-46	ENSG0000016823 7	GLYCTK
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195.864199 7	-2.615978425	0.1569340 82	-16.66928174	2.19E-62	1.04E-61	ENSG0000016882 4	NSG1
65.5863962 1	-2.168355892	0.1996432 22	-10.86115455	1.77E-27	4.21E-27	ENSG0000016887 8	SFTPB
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7772.52840 4	1.718515753	0.0985036 16	17.44621992	3.68E-68	1.92E-67	ENSG0000016890 6	MAT2A
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1968.13167 1	-2.584937208	0.0892387 7	-28.96652672	1.74E- 184	6.08E- 183	ENSG0000016923 0	PRELID1
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131.444767 5	1.978067673	0.0987073 28	20.03972461	2.48E-89	1.85E-88	ENSG0000016962 1	APLF
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401.165845 2	2.449314818	0.1616036 8	15.15630592	6.88E-52	2.67E-51	ENSG0000016986 0	P2RY1

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61.2601046 3	-1.076696364	0.2372774 22	-4.537710986	5.69E-06	7.67E-06	ENSG0000017032 3	FABP4
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117.279351 7	1.308344432	0.1367053 25	9.570544758	1.06E-21	2.22E-21	ENSG0000017042 5	ADORA2B
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16414.715	-4.501294773	0.1561674 85	-28.8235081	1.09E- 182	3.72E- 181	ENSG0000017052 5	PFKFB3
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440.613409 6	2.374556879	0.2399638 01	9.895479519	4.36E-23	9.38E-23	ENSG0000017062 7	GTSF1
5194.80465 8	-1.819925147	0.0925116 58	-19.67238708	3.72E-86	2.66E-85	ENSG0000017063 8	TRABD
286.024453 1	1.919017236	0.1180505 7	16.25589136	2.03E-59	9.12E-59	ENSG0000017067 7	SOCS6
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867.409564 9	5.609999371	0.2480953 84	22.61226826	3.28E- 113	3.77E- 112	ENSG0000017089 1	CYTL1
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1650.97048 8	-1.490411497	0.0637448 76	-23.38088329	6.69E- 121	8.62E- 120	ENSG0000017311 3	TRMT112
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330.593060 9	-2.635380734	0.2672926 3	-9.859533847	6.23E-23	1.34E-22	ENSG0000017321 0	ABLIM3
577.537665 2	2.49049267	0.0878008 25	28.36525365	5.43E- 177	1.70E- 175	ENSG0000017321 4	MFSD4B
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2350.80812 5	-1.431594393	0.1071128 82	-13.36528688	9.65E-41	3.04E-40	ENSG0000017322 1	GLRX
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700.568162 3	-1.027640967	0.0923740 08	-11.12478493	9.50E-29	2.33E-28	ENSG0000017327 2	MZT2A
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3695.67806 3	-4.431091879	0.1607896 87	-27.558309	3.52E- 167	9.33E- 166	ENSG0000017328 1	PPP1R3B
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179.3217528	1.921348547	0.180113901	10.66740842	1.45E-26	3.37E-26	ENSG00000176293	ZNF135
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290.937301 9	2.041216171	0.1181717 9	17.27329487	7.48E-67	3.83E-66	ENSG0000017683 4	VSIG10
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38.0056335 1	1.85205394	0.1384904 28	13.37315484	8.68E-41	2.73E-40	ENSG0000017766 9	MBOAT4
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427.230429 4	3.3169473	0.1407501 87	23.56620178	8.56E- 123	1.14E- 121	ENSG0000017885 2	EFCAB13
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4790.811906	-1.572239139	0.065545014	-23.9871662	3.79E-127	5.44E-126	ENSG00000178982	EIF3K
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2576.026585	-1.438809963	0.083632605	-17.20393572	2.48E-66	1.26E-65	ENSG00000179918	SEPHS2
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3007.510155	-1.063163315	0.064000176	-16.61188121	5.72E-62	2.69E-61	ENSG00000179950	PUF60
76.85893345	2.487952669	0.170315449	14.60790952	2.50E-48	9.10E-48	ENSG00000179954	SSC5D
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1216.51629 4	-1.483432627	0.0557476 06	-26.60979948	5.23E- 156	1.18E- 154	ENSG0000018362 4	HMCES
166.862892 4	-3.479675327	0.2473859 84	-14.06577392	6.16E-45	2.10E-44	ENSG0000018362 5	CCR3
230.905825	-1.94433303	0.1569132 92	-12.39113018	2.92E-35	8.19E-35	ENSG0000018365 5	KLHL25
6153.69802 9	-4.228822074	0.2043186 18	-20.69719401	3.67E-95	3.05E-94	ENSG0000018369 6	UPP1

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286.868605 9	-1.791236883	0.2376799 32	-7.536340427	4.83E-14	8.41E-14	ENSG0000018377 9	ZNF703
797.002793 3	1.356392176	0.1184740 17	11.44885786	2.38E-30	6.05E-30	ENSG0000018380 8	RBM12B
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150.243330 7	-1.067739757	0.1332961 26	-8.010283465	1.14E-15	2.07E-15	ENSG0000018382 8	NUDT14
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781.745776 4	1.929891153	0.1765239 54	10.93274372	8.04E-28	1.93E-27	ENSG0000018385 6	IQGAP3
63.2174204 1	1.129723113	0.2183033 39	5.175015268	2.28E-07	3.24E-07	ENSG0000018396 0	KCNH8
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315.216639 6	-4.183737892	0.2575166 64	-16.24647443	2.37E-59	1.06E-58	ENSG0000018400 5	ST6GALNAC3
85833.1517 5	-1.06056173	0.0663697 33	-15.9795992	1.77E-57	7.66E-57	ENSG0000018400 9	ACTG1
7497.01049 5	-1.089391276	0.1136005 41	-9.589666237	8.84E-22	1.85E-21	ENSG0000018401 4	DENND5A
1059.20694 8	-1.30066624	0.0729544 22	-17.82847718	4.25E-71	2.34E-70	ENSG0000018407 6	UQCR10
338.443705 8	1.838932098	0.0717794 27	25.61920848	9.32E- 145	1.79E- 143	ENSG0000018408 3	FAM120C
179.157482 6	-2.699206667	0.2101265 03	-12.84562696	9.10E-38	2.69E-37	ENSG0000018411 3	CLDN5
328.049596 8	1.734107673	0.0901389 94	19.23815214	1.77E-82	1.19E-81	ENSG0000018415 4	LRTOMT
2276.86874 2	-2.682452765	0.1128139 95	-23.77765953	5.69E- 125	7.92E- 124	ENSG0000018418 2	UBE2F

2114.01418 1	-1.050485446	0.0608810 09	-17.25473127	1.03E-66	5.28E-66	ENSG0000018420 3	PPP1R2
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689.179609 1	-1.131602112	0.0688874 96	-16.4268144	1.23E-60	5.64E-60	ENSG0000018420 9	SNRNP35
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628.443436 1	1.406570185	0.1280366 93	10.98568041	4.48E-28	1.08E-27	ENSG0000018423 2	OAF
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388.029855 6	-1.234111808	0.1221262 99	-10.10520928	5.24E-24	1.15E-23	ENSG0000018427 1	POU6F1
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386.965274 4	2.467501043	0.1366805 19	18.05305584	7.46E-73	4.23E-72	ENSG0000018430 7	ZDHHC23
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2826.30379 9	-3.313992571	0.1425523 66	-23.24754521	1.51E- 119	1.90E- 118	ENSG0000018448 1	FOXO4
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249.861003 7	-4.029252907	0.2060947 06	-19.55049198	4.09E-85	2.88E-84	ENSG0000018454 5	DUSP8
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4357.89871	-3.390780115	0.1314479 46	-25.79561124	9.93E- 147	1.97E- 145	ENSG0000018460 2	SNN
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374.813821 1	1.516424041	0.1184621 57	12.80091528	1.62E-37	4.77E-37	ENSG0000018463 5	ZNF93
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3662.65699 8	-1.131161566	0.0523395 68	-21.61197752	1.39E- 103	1.33E- 102	ENSG0000018484 0	TMED9
126.691953 3	-1.972355489	0.1843432 7	-10.69936262	1.02E-26	2.40E-26	ENSG0000018486 7	ARMCX2
988.149456 6	-1.648834513	0.0799837 26	-20.61462484	2.03E-94	1.66E-93	ENSG0000018488 7	BTBD6
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78.6925678 5	-1.658566616	0.1783663 38	-9.298652612	1.42E-20	2.88E-20	ENSG0000018491 6	JAG2
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176.321173 3	-1.539069995	0.2235412 63	-6.884948102	5.78E-12	9.49E-12	ENSG0000018497 9	USP18
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2638.22298	-1.571490886	0.1051205 89	-14.94941103	1.57E-50	5.93E-50	ENSG0000018500 0	DGAT1
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2670.31314 6	-2.418407782	0.1337359 56	-18.0834523	4.30E-73	2.46E-72	ENSG0000018503 3	SEMA4B
2532.96861 3	-1.942821901	0.0864873 29	-22.46365937	9.41E- 112	1.05E- 110	ENSG0000018504 3	CIB1
278.947900 9	1.795298983	0.2453210 71	7.318160538	2.51E-13	4.28E-13	ENSG0000018505 2	SLC24A3
133.452773 7	2.27943472	0.1671345 28	13.63832325	2.37E-42	7.69E-42	ENSG0000018509 0	MANEAL
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661.082915 7	-1.42969833	0.0908379 76	-15.73899374	8.17E-56	3.41E-55	ENSG0000018511 5	NSMCE3
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875.921224 2	1.185066058	0.0712072 03	16.64250266	3.43E-62	1.62E-61	ENSG0000018515 8	LRRC37B
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477.980199 6	-1.067883252	0.1424305 35	-7.497572429	6.50E-14	1.13E-13	ENSG0000018518 9	NRBP2
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8385.28879	-1.559104472	0.1711895 71	-9.107473462	8.43E-20	1.68E-19	ENSG0000018521 5	TNFAIP2
4002.38186	-1.713924198	0.0789676 33	-21.70413548	1.88E- 104	1.83E- 103	ENSG0000018523 6	RAB11B
522.093508 1	1.304657002	0.1180178 78	11.05474037	2.08E-28	5.06E-28	ENSG0000018523 8	PRMT3
489.838717 5	1.518183044	0.0755818 29	20.08661414	9.66E-90	7.28E-89	ENSG0000018525 2	ZNF74
7145.72848 8	-3.335115299	0.1053975 7	-31.64318954	9.41E- 220	5.14E- 218	ENSG0000018526 2	UBALD2

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331.1470393	1.643229257	0.198103697	8.294793503	1.09E-16	2.01E-16	ENSG00000185480	PARPBP
146.9390946	1.084810318	0.116139749	9.340560235	9.58E-21	1.95E-20	ENSG00000185499	MUC1
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3611.971603	-1.627633692	0.055426938	-29.36539073	1.52E-189	5.64E-188	ENSG00000185627	PSMD13
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45.3179370 3	1.061897818	0.1047694 77	10.13556476	3.84E-24	8.48E-24	ENSG0000018566 4	PMEL
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2749.39542 8	1.132940968	0.0693756 28	16.33053291	5.99E-60	2.72E-59	ENSG0000018572 2	ANKFY1
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774.967931 4	2.101903407	0.1945116 2	10.80605576	3.22E-27	7.64E-27	ENSG0000018576 0	KCNQ5
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6443.78010 9	-1.010265026	0.0571424 97	-17.67974929	6.01E-70	3.23E-69	ENSG0000018578 7	MORF4L1
539.830331 3	-2.110361604	0.1315864 08	-16.03783883	6.95E-58	3.03E-57	ENSG0000018580 0	DMWD
7085.50498 6	-2.574169383	0.0974863 46	-26.4054352	1.19E- 153	2.61E- 152	ENSG0000018582 5	BCAP31
157.106448	1.855431107	0.1152267 38	16.10243537	2.45E-58	1.08E-57	ENSG0000018582 9	ARL17A
213.113634 2	3.738978567	0.1428657 64	26.17127056	5.64E- 151	1.20E- 149	ENSG0000018584 2	DNAH14
23976.6137 1	-2.649007197	0.1445570 36	-18.32499656	5.23E-75	3.07E-74	ENSG0000018586 2	EVI2B
488.341480 3	1.669978189	0.0761762 29	21.92256319	1.58E- 106	1.61E- 105	ENSG0000018586 4	NPIP4
150.040115 4	1.701312703	0.1430748 07	11.89107109	1.32E-32	3.50E-32	ENSG0000018586 9	ZNF829
153.707015 5	1.125453071	0.1595330 01	7.054672492	1.73E-12	2.88E-12	ENSG0000018587 5	THNSL1
1368.59566 3	-2.089258089	0.0830350 87	-25.16114757	1.07E- 139	1.89E- 138	ENSG0000018588 0	TRIM69
15642.3007 6	-5.791575077	0.1352310 56	-42.82725603	0.00E+0 0	0.00E+0 0	ENSG0000018588 3	ATP6V0C
9174.88586 7	-4.873001204	0.1542193 39	-31.59786082	3.95E- 219	2.14E- 217	ENSG0000018588 5	IFITM1
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238.226472 3	3.548478051	0.1337362 01	26.53341451	3.99E- 155	8.93E- 154	ENSG0000018590 0	POMK

4181.66835 7	-1.155270398	0.1484362 28	-7.78294096	7.09E-15	1.26E-14	ENSG0000018590 5	C16orf54
516.390038 1	-2.271875417	0.1744148 66	-13.02569824	8.74E-39	2.65E-38	ENSG0000018590 9	KLHDC8B
1024.87488 6	1.425476947	0.0970250 37	14.69184652	7.27E-49	2.67E-48	ENSG0000018594 6	RNPC3
68.9968073 8	-1.184738026	0.1467100 34	-8.075371497	6.73E-16	1.22E-15	ENSG0000018595 5	C7orf61
3295.32265 8	-1.530748032	0.1081444 37	-14.15466278	1.75E-45	6.04E-45	ENSG0000018598 9	RASA3
1647.46935 3	-3.145059008	0.0705923 99	-44.55237487	0.00E+0 0	0.00E+0 0	ENSG0000018601 0	NDUFA13
310.390831 4	2.151612931	0.1069593 29	20.11617833	5.33E-90	4.02E-89	ENSG0000018601 7	ZNF566
904.941552 2	1.58022827	0.1038297 29	15.21942016	2.63E-52	1.03E-51	ENSG0000018602 0	ZNF529
2662.67308 7	-1.679798022	0.2335006 69	-7.193975209	6.29E-13	1.06E-12	ENSG0000018607 4	CD300LF
3927.68340 5	-1.258160439	0.0929572 48	-13.53482879	9.74E-42	3.13E-41	ENSG0000018618 4	POLR1D
1164.92856 8	2.164608796	0.0917910 02	23.58192785	5.91E- 123	7.92E- 122	ENSG0000018618 7	ZNRF1
2271.62862 2	-2.130471149	0.2655534 53	-8.022758222	1.03E-15	1.87E-15	ENSG0000018620 5	l-Mar
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636.848393 3	2.301609679	0.1185052 87	19.42199992	5.03E-84	3.46E-83	ENSG0000018626 0	MRTFB
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192.980705 4	1.237992146	0.0954847 16	12.9653435	1.92E-38	5.78E-38	ENSG0000018627 2	ZNF17
178.998122 9	1.210402852	0.1102370 22	10.98000319	4.77E-28	1.15E-27	ENSG0000018630 0	ZNF555
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818.297376 6	2.993605725	0.0816643 2	36.65744985	3.48E- 294	4.07E- 292	ENSG0000018631 8	BACE1
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122.275612 5	1.60101145	0.0575801 92	27.80489932	3.78E- 170	1.05E- 168	ENSG0000018636 4	NUDT17

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108.865157 5	-2.642403835	0.2137211 93	-12.36378947	4.10E-35	1.15E-34	ENSG0000018652 2	SEPTIN10
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2341.91248 4	1.612542951	0.0676218 77	23.84646847	1.10E- 125	1.55E- 124	ENSG0000018656 6	GPATCH8
532.970027	-2.034980764	0.0809116 39	-25.15065571	1.39E- 139	2.45E- 138	ENSG0000018657 7	SMIM29
157.799936 2	-2.823470841	0.2147655 2	-13.14676044	1.78E-39	5.47E-39	ENSG0000018658 3	SPATC1
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1177.97717 4	-1.85446389	0.0676254 98	-27.42255414	1.48E- 165	3.82E- 164	ENSG0000018705 1	RPS19BP1

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81.8075063 8	3.38398114	0.0887868 06	38.11355878	0.00E+0 0	0.00E+0 0	ENSG0000018710 5	HEATR4
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429.597954 2	1.75226364	0.0801468 66	21.86315858	5.83E- 106	5.87E- 105	ENSG0000018753 5	IFT140
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204.196452 9	1.503700796	0.0906272 76	16.59214375	7.94E-62	3.72E-61	ENSG0000018767 6	B3GLCT

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33369.6514 6	-4.113550219	0.1248514 57	-32.94755482	4.59E- 238	3.02E- 236	ENSG0000018906 7	LITAF
848.850111 5	-1.469747025	0.2955358 06	-4.973160596	6.59E-07	9.21E-07	ENSG0000018906 8	VSTM1
3219.43676	-4.46721409	0.1388205 16	-32.17978302	3.39E- 227	1.99E- 225	ENSG0000018907 7	TMEM120A
2305.42307 3	1.805976401	0.0648586 1	27.84482119	1.24E- 170	3.49E- 169	ENSG0000018907 9	ARID2
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3888.74081 1	-2.67231328	0.0942388 27	-28.35681803	6.90E- 177	2.16E- 175	ENSG0000018915 9	JPT1
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341.606581 3	1.797500084	0.0833194 21	21.5736026	3.18E- 103	3.03E- 102	ENSG0000018929 8	ZKSCAN3
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364.599203 7	-1.864083293	0.0651475 83	-28.61323783	4.60E- 180	1.50E- 178	ENSG0000018937 6	C8orf76
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138.837103 2	3.739415957	0.1567477 09	23.85627182	8.72E- 126	1.23E- 124	ENSG0000019626 3	ZNF471
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230.770572 1	-2.650945338	0.1937799 86	-13.68018129	1.33E-42	4.36E-42	ENSG0000019740 9	HIST1H3D
241.915451 3	-1.471234994	0.0668959 77	-21.99287708	3.37E- 107	3.45E- 106	ENSG0000019741 7	SHPK
6899.23613 1	-1.285170423	0.0940653 36	-13.66252944	1.70E-42	5.53E-42	ENSG0000019744 8	GSTK1
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5312.61282 6	-2.127501141	0.2171147 17	-9.798972519	1.14E-22	2.43E-22	ENSG0000019774 7	S100A10
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9852.83927 7	-2.77233427	0.1068874 35	-25.93695205	2.55E- 148	5.18E- 147	ENSG0000019805 5	GRK6
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104.087886 1	1.2560861	0.2431402 86	5.166096173	2.39E-07	3.40E-07	ENSG0000019840 0	NTRK1
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2813.58261 9	1.529748322	0.1375222 27	11.12364416	9.63E-29	2.36E-28	ENSG0000019858 9	LRBA
7314.90689 9	-2.228875888	0.0903788 12	-24.66148693	2.77E- 134	4.46E- 133	ENSG0000019862 4	CCDC69
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4616.51165 4	-2.357384518	0.1097347 7	-21.48256677	2.27E- 102	2.13E- 101	ENSG0000019892 5	ATG9A
2322.42707 6	-1.790940082	0.0727496 43	-24.61785388	8.13E- 134	1.30E- 132	ENSG0000019893 1	APRT
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47.9435940 6	-1.717656681	0.1562364 31	-10.9939575	4.09E-28	9.89E-28	ENSG0000019893 4	MAGEE1
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627.462896	2.06611062	0.1422152 09	14.52805669	8.05E-48	2.90E-47	ENSG0000020366 6	EFCAB2
156.296447 6	3.860217792	0.0720565 25	53.5720785	0.00E+0 0	0.00E+0 0	ENSG0000020366 7	COX20
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127.050213 5	2.311004134	0.1061873 89	21.76345183	5.15E- 105	5.11E- 104	ENSG0000020387 2	C6orf163
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626.570125 7	5.121977975	0.1633712 11	31.35177815	9.20E- 216	4.81E- 214	ENSG0000020597 8	NYNRIN
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79513.1024 3	-3.40651315	0.1017672 41	-33.47357267	1.17E- 245	8.51E- 244	ENSG0000020650 3	HLA-A
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35933.55187	1.475527889	0.105958896	13.92547439	4.44E-44	1.49E-43	ENSG00000212907	MT-ND4L
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3103.80391 4	-2.264114351	0.1506525 82	-15.0287126	4.76E-51	1.82E-50	ENSG0000021372 2	DDAH2
58.6543882 7	-1.235432359	0.1091521 93	-11.31843831	1.06E-29	2.66E-29	ENSG0000021376 0	ATP6V1G2
298.733950 7	-2.440361429	0.0671999 95	-36.31490466	9.41E- 289	1.01E- 286	ENSG0000021378 0	GTF2H4
126.796574 8	-1.175858117	0.0949100 09	-12.38918977	2.99E-35	8.39E-35	ENSG0000021379 3	ZNF888
1665.75857 5	-6.636534253	0.2352056 55	-28.21587882	3.73E- 175	1.13E- 173	ENSG0000021380 9	KLRK1
324.781711 2	-2.076159414	0.0954359 32	-21.75448367	6.26E- 105	6.21E- 104	ENSG0000021385 9	KCTD11
136.485065	-1.768671855	0.1468195 97	-12.04656526	2.02E-33	5.45E-33	ENSG0000021388 9	PPM1N
5322.44625 7	-2.031853751	0.1504971 81	-13.50094224	1.54E-41	4.94E-41	ENSG0000021390 3	LTB4R
107.387296 8	-3.225779025	0.0865200 71	-37.28359216	3.03E- 304	3.77E- 302	ENSG0000021392 0	MDP1
3564.03385 2	-3.075412531	0.0861202 24	-35.71068881	2.70E- 279	2.73E- 277	ENSG0000021392 8	IRF9
538.753590 9	-3.629318632	0.2422670 39	-14.98065377	9.82E-51	3.72E-50	ENSG0000021393 7	CLDN9
129.242751 9	-1.046269025	0.1634912 85	-6.399540053	1.56E-10	2.45E-10	ENSG0000021394 9	ITGA1
137.087554 4	2.236400981	0.1524966 64	14.66524528	1.08E-48	3.93E-48	ENSG0000021396 7	ZNF726
759.188862 5	-3.66759633	0.0950293 48	-38.59435439	0.00E+0 0	0.00E+0 0	ENSG0000021397 7	TAX1BP3
155.330409 1	1.406771966	0.1970078 6	7.140689531	9.29E-13	1.56E-12	ENSG0000021398 8	ZNF90

835.547701 6	-1.148766362	0.0698456 12	-16.44722298	8.78E-61	4.04E-60	ENSG0000021399 5	NAXD
668.921781 9	-4.979135582	0.0897352 72	-55.48693901	0.00E+0 0	0.00E+0 0	ENSG0000021399 9	MEF2B
1191.30603	1.09773475	0.0678349 16	16.18244418	6.71E-59	2.98E-58	ENSG0000021401 3	GANC
5457.63673	-1.598335838	0.0920341 87	-17.36676222	1.47E-67	7.63E-67	ENSG0000021402 1	TTLL3
784.761124 6	-1.891463591	0.0823518 52	-22.96807583	9.72E- 117	1.17E- 115	ENSG0000021402 6	MRPL23
472.258460 2	2.595792553	0.1044426 52	24.85375952	2.35E- 136	3.89E- 135	ENSG0000021402 9	ZNF891
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579.907447 6	-1.151078607	0.1592280 65	-7.229118873	4.86E-13	8.21E-13	ENSG0000021419 3	SH3D21
3882.90515 6	-3.741415987	0.1936385 87	-19.32164478	3.53E-83	2.39E-82	ENSG0000021421 2	C19orf38
2659.24192 2	-2.575745134	0.1246631 34	-20.66164271	7.67E-95	6.33E-94	ENSG0000021425 3	FIS1
73.7824658 8	-2.811811391	0.1862702 63	-15.09533159	1.74E-51	6.69E-51	ENSG0000021427 4	ANG
139.294170 4	1.147723568	0.1601621 51	7.166009946	7.72E-13	1.30E-12	ENSG0000021427 9	SCART1
371.143950 7	4.168613877	0.0744864 73	55.96471007	0.00E+0 0	0.00E+0 0	ENSG0000021430 0	SPDYE3
583.662081 5	4.760867092	0.1577851 99	30.1730906	5.34E- 200	2.26E- 198	ENSG0000021435 7	NEURL1B
693.007619	1.301125147	0.0966317 12	13.46478422	2.52E-41	8.03E-41	ENSG0000021436 7	HAUS3
1894.39981 9	-6.314607102	0.2353163 2	-26.83454813	1.28E- 158	2.98E- 157	ENSG0000021445 6	PLIN5
697.815210 3	-3.301142317	0.1293452 06	-25.52195346	1.12E- 143	2.13E- 142	ENSG0000021453 0	STARD10
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80.2908327	1.051967596	0.1442686 79	7.291725418	3.06E-13	5.19E-13	ENSG0000021459 5	EML6
4534.41139 4	-1.217663174	0.0872961	-13.94865483	3.21E-44	1.08E-43	ENSG0000021465 5	ZSWIM8
276.130939 8	-4.451722828	0.2645045 88	-16.8304182	1.46E-63	7.07E-63	ENSG0000021468 8	C10orf105
38.0703988 3	1.601235385	0.1648706 62	9.712069846	2.68E-22	5.67E-22	ENSG0000021471 1	CAPN14

4184.81024 6	-2.340952709	0.0460473 41	-50.83795675	0.00E+0 0	0.00E+0 0	ENSG0000021475 3	HNRNPUL2
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498.855929 3	3.201145901	0.2320404 59	13.79563681	2.71E-43	8.94E-43	ENSG0000021478 7	MS4A4E
105.154308 9	-1.300897799	0.0866420 29	-15.01462758	5.89E-51	2.24E-50	ENSG0000021482 7	MTCP1
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4075.71905 9	-2.205465185	0.1275230 31	-17.29464217	5.16E-67	2.65E-66	ENSG0000021511 4	UBXN2B
1600.33946 2	-1.436194988	0.0685434 67	-20.9530544	1.76E-97	1.52E-96	ENSG0000021530 5	VPS16
2619.78311 5	-2.813859577	0.1071565 82	-26.25932571	5.59E- 152	1.21E- 150	ENSG0000021544 0	NPEPL1
66.5010885 9	-2.143189617	0.1808808 69	-11.84862518	2.19E-32	5.78E-32	ENSG0000021552 9	EFCAB8
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492.636782 3	-1.783301423	0.0899290 68	-19.8300891	1.64E-87	1.19E-86	ENSG0000021584 5	TSTD1
334.313270 9	1.205718658	0.0985458 02	12.23510933	2.02E-34	5.56E-34	ENSG0000021588 3	CYB5RL
29824.6046 3	-8.700657248	0.1869214 3	-46.54713623	0.00E+0 0	0.00E+0 0	ENSG0000021649 0	IFI30
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1024.29715 3	-2.695009564	0.1637371 12	-16.4593691	7.18E-61	3.31E-60	ENSG0000021755 5	CKLF
8155.60740 2	-5.953480203	0.1115053 9	-53.39186029	0.00E+0 0	0.00E+0 0	ENSG0000021920 0	RNASEK
323.400544 2	1.628387822	0.1000156 09	16.28133682	1.34E-59	6.04E-59	ENSG0000021948 1	NBPF1
44.7560600 5	1.671741506	0.1882615 88	8.87988635	6.69E-19	1.31E-18	ENSG0000021960 7	PPP1R3G
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89.4034427 3	-1.661829741	0.1174070 46	-14.15442936	1.75E-45	6.06E-45	ENSG0000022020 1	ZGLP1
5778.79592 9	-1.977109146	0.1128057 15	-17.5266754	8.97E-69	4.72E-68	ENSG0000022020 5	VAMP2

124.887991 9	-2.437586277	0.0894062 01	-27.26417478	1.13E- 163	2.83E- 162	ENSG0000022182 1	C6orf226
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7087.88161 4	-3.140519145	0.2175462 4	-14.43609938	3.07E-47	1.10E-46	ENSG0000022186 9	CEBPD
76.5555176 9	-1.140049794	0.0791132 78	-14.41034713	4.45E-47	1.59E-46	ENSG0000022188 3	ARIH2OS
74.5433786 1	1.066966265	0.1682493 68	6.341576663	2.27E-10	3.55E-10	ENSG0000022188 6	ZBED8
212.850061 2	1.520877927	0.0967761 8	15.71541607	1.19E-55	4.94E-55	ENSG0000022194 4	TIGD1
85.4837054 6	-2.446192471	0.2056603 25	-11.89433338	1.27E-32	3.37E-32	ENSG0000022194 6	FXYP7
227.163874 1	-4.395709356	0.2728131 27	-16.11252875	2.08E-58	9.19E-58	ENSG0000022195 5	SLC12A8
44562.8629 6	-3.418691854	0.1302226 8	-26.25266095	6.66E- 152	1.44E- 150	ENSG0000022198 3	UBA52
504.678910 9	2.195924012	0.0753764 15	29.13277325	1.38E- 186	4.92E- 185	ENSG0000022199 5	TIAF1
240.275211 8	1.15065631	0.1536063 37	7.490942959	6.84E-14	1.18E-13	ENSG0000022200 9	BTBD19
454.487304 4	1.300226852	0.0884484 16	14.70039721	6.41E-49	2.35E-48	ENSG0000022354 7	ZNF844
469532.317 3	-9.522563084	0.3138738 19	-30.33882567	3.53E- 202	1.54E- 200	ENSG0000022360 9	HBD
8244.43599 1	-1.135213216	0.1655749 7	-6.856188555	7.07E-12	1.16E-11	ENSG0000022386 5	HLA-DPB1
735.754005 2	-1.740682563	0.0932929 25	-18.65824826	1.08E-77	6.66E-77	ENSG0000022405 1	CPTP
97.0347794 1	1.97070002	0.1425590 81	13.82374248	1.83E-43	6.08E-43	ENSG0000022442 0	ADM5
3418.47933 2	-1.276737428	0.1100378 71	-11.60270924	3.99E-31	1.03E-30	ENSG0000022519 0	PLEKHM1
84.2079944	-1.63095381	0.1794911 75	-9.086540365	1.02E-19	2.03E-19	ENSG0000022552 8	Z82206.1
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323.045153	1.440778952	0.1191438 33	12.0927698	1.15E-33	3.13E-33	ENSG0000022582 8	FAM229A

86.6421089 2	2.181244511	0.1315730 53	16.57820098	1.00E-61	4.68E-61	ENSG0000022612 4	FTCDNL1
66.5224833 6	1.396554768	0.1138390 49	12.26780077	1.35E-34	3.73E-34	ENSG0000022617 4	TEX22
47.5914708 9	1.572547918	0.0917622 13	17.13720562	7.83E-66	3.95E-65	ENSG0000022676 3	SRRM5
593.739664 7	-5.883591451	0.2073695 44	-28.37249548	4.42E- 177	1.39E- 175	ENSG0000022697 9	LTA
360.078567 3	2.10952763	0.1200750 85	17.5684042	4.30E-69	2.27E-68	ENSG0000022712 4	ZNF717
3283.59492 8	-4.334417169	0.1540194 21	-28.14201697	3.00E- 174	8.95E- 173	ENSG0000022750 7	LTB
143.665309 2	-2.813217214	0.2187670 76	-12.85941769	7.61E-38	2.25E-37	ENSG0000022827 8	ORM2
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166.085636 5	2.197005766	0.0918728 43	23.91354944	2.21E- 126	3.16E- 125	ENSG0000022848 6	C2orf92
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648.669364 4	-1.149438939	0.1062003 58	-10.82330572	2.67E-27	6.34E-27	ENSG0000022947 4	PATL2
551.569702 7	-1.508516307	0.0872862 8	-17.28239878	6.38E-67	3.28E-66	ENSG0000022983 3	PET100
14020.9612 9	-1.482360692	0.1729251 79	-8.572266369	1.01E-17	1.92E-17	ENSG0000023138 9	HLA-DPA1
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248.209874 2	-1.142061097	0.1293940 03	-8.826228959	1.08E-18	2.10E-18	ENSG0000023243 4	AJM1
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33.3961643 8	1.113477114	0.0840235 92	13.25195807	4.40E-40	1.37E-39	ENSG0000023283 8	PET117
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8636.23156 4	-2.364811052	0.0903255 11	-26.18098717	4.38E- 151	9.34E- 150	ENSG0000023392 7	RPS28
2166.25144 7	-1.323744313	0.0634238 72	-20.87138919	9.75E-97	8.32E-96	ENSG0000023412 7	TRIM26
89.1866029 6	1.407157955	0.1168575 05	12.04165666	2.15E-33	5.78E-33	ENSG0000023428 4	ZNF879
991.437604 5	1.891143462	0.1225605 17	15.43028303	1.02E-53	4.12E-53	ENSG0000023444 4	ZNF736
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153.350241 9	3.01875163	0.1504021 56	20.07119923	1.32E-89	9.89E-89	ENSG0000023510 9	ZSCAN31
773.672620 8	-1.468762555	0.1736238 2	-8.45945304	2.69E-17	5.04E-17	ENSG0000023516 2	C12orf75
671.717580 8	-5.165868016	0.2437754 97	-21.19108801	1.15E-99	1.03E-98	ENSG0000023516 9	SMIM1
127.828052 1	-1.114053622	0.0829545 08	-13.42969361	4.05E-41	1.28E-40	ENSG0000023545 3	SMIM27
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773.025177 9	-1.136061436	0.0705172 52	-16.11040419	2.16E-58	9.50E-58	ENSG0000023610 4	ZBTB22
117.318176 6	-1.030673745	0.0799233 51	-12.89577746	4.75E-38	1.42E-37	ENSG0000023717 2	B3GNT9
295.223848 9	1.86305703	0.1422487 16	13.09717994	3.42E-39	1.05E-38	ENSG0000023744 0	ZNF737
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691.294742 7	-1.116643643	0.1032806 57	-10.81174027	3.03E-27	7.18E-27	ENSG0000023776 5	FAM200B
630.21589	-3.25472611	0.2574092 74	-12.64416803	1.20E-36	3.48E-36	ENSG0000023824 3	OR2W3
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231.988104 5	-3.401495416	0.1112497 17	-30.57531743	2.61E- 205	1.17E- 203	ENSG0000023928 2	CASTOR1
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853.766615 8	-2.956436022	0.1614303 03	-18.31400894	6.40E-75	3.76E-74	ENSG0000023969 7	TNFSF12
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1574.99485	-1.765112269	0.0711497 51	-24.8084109	7.27E- 136	1.20E- 134	ENSG0000023971 3	APOBEC3G
536.800412 7	-5.203048648	0.1418819 99	-36.67166147	2.07E- 294	2.43E- 292	ENSG0000023973 2	TLR9
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102.815686 3	1.386626199	0.0864318 54	16.04299965	6.40E-58	2.79E-57	ENSG0000023985 7	GET4
298.215378	-2.115908668	0.2462966 3	-8.59089572	8.63E-18	1.64E-17	ENSG0000023996 1	LILRA4
7286.15086 9	-2.761117994	0.2191406 58	-12.5997522	2.12E-36	6.08E-36	ENSG0000023999 8	LILRA2
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2956.75377 2	-2.90067755	0.0843743 51	-34.37866518	5.25E- 259	4.23E- 257	ENSG0000024006 5	PSMB9
337.142808 4	-3.66187393	0.0967818 9	-37.83635483	0.00E+0 0	0.00E+0 0	ENSG0000024030 3	ACAD11
592.154637 5	-5.412038597	0.2298422 47	-23.54675292	1.36E- 122	1.80E- 121	ENSG0000024050 5	TNFRSF13B
503.826481 1	-1.56720479	0.2162739 01	-7.246388884	4.28E-13	7.24E-13	ENSG0000024058 3	AQP1
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174.180394 7	-2.829220185	0.1479158 55	-19.12722727	1.50E-81	9.87E-81	ENSG0000024089 1	PLCXD2
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520.336419 1	1.339320434	0.0815461 58	16.42407769	1.29E-60	5.90E-60	ENSG0000024105 8	NSUN6
428.037716 6	-2.365475853	0.1226565 15	-19.28536653	7.13E-83	4.79E-82	ENSG0000024110 6	HLA-DOB
91.0193167 9	1.08043983	0.1286793 88	8.396370572	4.60E-17	8.60E-17	ENSG0000024112 7	YAE1
3527.61303 5	-1.495445873	0.1534876 32	-9.743103445	1.97E-22	4.19E-22	ENSG0000024134 3	RPL36A
53.1175518 6	1.723035971	0.1054783 37	16.33544875	5.52E-60	2.51E-59	ENSG0000024136 0	PDXP
234.500835 8	-2.515326154	0.0596326 41	-42.18035783	0.00E+0 0	0.00E+0 0	ENSG0000024137 0	RPP21
160.780363	-1.002884726	0.1313257 24	-7.636620565	2.23E-14	3.91E-14	ENSG0000024140 4	EGFL8
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1874.87551 9	-1.511170543	0.0785034 82	-19.24972621	1.42E-82	9.50E-82	ENSG0000024183 7	ATP5PO
8026.87408 8	-3.268154932	0.1341518 76	-24.36160434	4.37E- 131	6.74E- 130	ENSG0000024183 9	PLEKHO2
324.927240 2	-1.13067477	0.0803967 76	-14.06368304	6.35E-45	2.17E-44	ENSG0000024185 2	C8orf58
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665.458685 3	-5.047815114	0.1289262 14	-39.15274454	0.00E+0 0	0.00E+0 0	ENSG0000024211 4	MTFP1
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166.884520 9	-2.349679331	0.2817878 63	-8.3384689	7.53E-17	1.40E-16	ENSG0000024226 5	PEG10
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48.6052068	1.905691645	0.0973488 4	19.57590509	2.48E-85	1.75E-84	ENSG0000024268 9	CNTF
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94.0054748 7	-2.000645578	0.1314160 63	-15.2237522	2.46E-52	9.64E-52	ENSG0000024344 9	C4orf48
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504.341834 9	1.564317337	0.0820068 62	19.07544435	4.04E-81	2.64E-80	ENSG0000024568 0	ZNF585B
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1417.63543 4	5.820478303	0.1947051 94	29.8938009	2.37E- 196	9.59E- 195	ENSG0000025132 2	SHANK3
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104.680901 7	2.069066343	0.0891370 14	23.21220172	3.43E- 119	4.28E- 118	ENSG0000025446 9	AP002495.1
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3859.78868 6	-1.643270068	0.0675593 26	-24.32336395	1.11E- 130	1.70E- 129	ENSG0000025499 9	BRK1
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2586.58222 5	-1.229885906	0.0551619 14	-22.29592526	4.05E- 110	4.39E- 109	ENSG0000026436 4	DYNLL2
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499.199778 5	-5.257290708	0.1836450 95	-28.6274497	3.06E- 180	1.00E- 178	ENSG0000026736 8	UPK3BL1
76.5353257 3	2.174368097	0.1568185 15	13.86550625	1.03E-43	3.42E-43	ENSG0000026750 8	ZNF285
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437.974006 3	-3.323021855	0.0711757 23	-46.68757428	0.00E+0 0	0.00E+0 0	ENSG0000026785 5	NDUFA7
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288.489099 7	3.439533123	0.1569213 26	21.918838	1.72E- 106	1.74E- 105	ENSG0000026902 8	MTRNR2L12
476.114858 1	-2.390010851	0.0946329 8	-25.25558047	9.83E- 141	1.77E- 139	ENSG0000026933 5	IKBKKG
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5910.85476 5	-3.481517482	0.1058999 26	-32.87554224	4.92E- 237	3.21E- 235	ENSG0000026985 8	EGLN2
59.7660528 7	-1.366579324	0.1876893 75	-7.281069201	3.31E-13	5.62E-13	ENSG0000027037 9	HEATR9
2072.85244 9	-7.30973201	0.1583324 11	-46.16699753	0.00E+0 0	0.00E+0 0	ENSG0000027130 3	SRXN1

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442.1798805	-1.119683555	0.076995556	-14.54218418	6.55E-48	2.37E-47	ENSG00000275074	NUDT18
110.3083534	-1.100704678	0.113044624	-9.736904228	2.10E-22	4.45E-22	ENSG00000275183	LENG9
3056.371634	-5.772149731	0.199617939	-28.91598697	7.52E-184	2.60E-182	ENSG00000275302	CCL4
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115.830646 1	-1.790797381	0.2677808 89	-6.687547373	2.27E-11	3.66E-11	ENSG0000028110 6	TMEM272