

geneName	logFC	logCPM	PValue	FDR
A2ML1	2.952984	6.799622	0.003714	0.010219
ABCA1	1.327989	3.526844	0.002825	0.008107
ABCA12	2.157059	4.001445	8.99E-07	1.02E-05
ABCA5	-1.06522	5.35883	0.000279	0.001152
ABCC4	-1.20328	4.3407	0.012283	0.028058
ABCC6	-1.01494	5.273875	0.002378	0.007001
ABCC6P2	-1.16542	1.031697	5.60E-05	0.000306
ABCD2	-1.06256	1.732938	0.003608	0.009976
ABCG4	3.357462	-0.72389	1.52E-05	0.000105
ABLIM2	1.157698	1.152937	0.007912	0.019246
ABLIM3	2.114936	4.900384	0.013211	0.029806
ABTB2	1.774613	2.972821	2.49E-06	2.34E-05
ACAT2	1.749057	6.639002	1.66E-33	2.48E-29
ACE	-1.32438	1.455212	0.002366	0.006977
ACLY	1.09996	8.260229	2.07E-14	3.13E-12
ACOT7	1.859033	5.659093	2.76E-16	7.93E-14
ACRBP	-1.00289	-0.51831	0.002077	0.006249
ACSBG1	-1.36654	4.67702	9.50E-05	0.000474
ACSS1	-1.22021	6.498255	6.03E-06	4.91E-05
ACTA1	2.966613	-1.22857	0.004103	0.0111
ACTB	1.301227	11.62964	1.08E-12	8.94E-11
ACTBL2	2.693564	1.199579	1.53E-11	9.63E-10
ACTG1	1.130506	11.40765	3.97E-13	3.73E-11
ACTN1	1.153876	8.660201	1.21E-10	5.68E-09
ACTRT3	1.101972	1.137083	1.83E-05	0.000122
ADA	2.940754	2.912785	3.94E-11	2.19E-09
ADAM12	2.383006	1.261253	0.007649	0.018694
ADAM15	1.048921	7.893082	3.30E-10	1.31E-08
ADAM19	3.376351	2.033881	0.000998	0.003355
ADAM22	-1.34126	-0.30869	0.009937	0.023408
ADAM28	-1.02779	5.539504	0.014873	0.032817
ADAM32	-1.08583	-0.4554	0.001778	0.005491
ADAM8	1.735475	3.877102	2.50E-06	2.34E-05
ADAM9	1.085457	8.483253	1.81E-13	1.88E-11
ADAMTS1	4.114332	5.017029	7.32E-12	4.93E-10
ADAMTS14	1.335286	2.046747	0.019227	0.040678
ADAMTS15	1.092057	3.634985	0.010544	0.024666
ADAMTS6	3.394056	-0.48537	8.46E-07	9.64E-06
ADAMTS7	2.28713	1.322046	8.45E-07	9.64E-06
ADAMTSL3	1.036956	3.701779	0.023664	0.048575
ADAMTSL4	3.006076	4.724596	4.77E-07	6.04E-06
ADAMTSL5	1.053773	3.839453	0.000342	0.001366
ADARB2	-1.5126	3.031134	0.00071	0.002519
ADAT2	1.211757	1.868775	1.53E-05	0.000105
ADCK3	-1.25752	5.136718	2.45E-09	7.07E-08

ADCY3	1.049803	4.774152	4.17E-08	7.77E-07
ADCY7	1.665166	4.144095	3.69E-05	0.000217
ADGB	-1.08994	5.322153	0.00018	0.000802
ADH1C	-1.26939	6.101939	0.01395	0.03119
ADH6	-2.16593	4.180852	1.28E-06	1.36E-05
ADIRF	1.876619	5.300004	0.000167	0.000753
ADPRHL1	-1.05064	2.721926	0.001973	0.005993
ADRA1B	1.711836	-0.75331	0.002098	0.006303
ADRA2A	-3.35135	-1.28569	0.018983	0.040219
ADSSL1	-1.27122	4.595316	5.97E-08	1.04E-06
ADTRP	1.472246	0.554067	0.002252	0.006691
AEBP1	2.375654	0.311898	0.001965	0.005972
AEN	1.07396	4.83478	8.81E-10	2.93E-08
AFAP1	1.080024	5.404081	3.67E-08	6.98E-07
AFAP1L2	2.349554	3.094563	7.26E-06	5.73E-05
AGBL2	-1.00299	5.808753	0.000705	0.002505
AGBL4	-1.31327	2.467903	4.20E-05	0.000241
AGMAT	1.179363	0.448447	2.97E-05	0.000182
AGRN	1.029792	9.070184	4.57E-08	8.35E-07
AHCY	1.252807	7.541616	4.68E-11	2.53E-09
AHNAK	1.176903	10.23764	5.31E-09	1.36E-07
AIF1L	1.59751	3.659217	5.24E-06	4.37E-05
AIM1	1.111497	7.353459	3.89E-09	1.04E-07
AIM1L	2.844035	5.154041	3.13E-09	8.76E-08
AJUBA	1.072302	6.688022	1.03E-11	6.73E-10
AK4	1.33041	5.256614	1.56E-08	3.42E-07
AK7	-1.04044	7.411861	9.08E-06	6.87E-05
AK8	-1.31355	5.607744	6.74E-05	0.000358
AKAP12	2.74259	4.377508	2.14E-06	2.07E-05
AKAP14	-1.0963	5.913121	4.98E-07	6.26E-06
AKAP7	-1.05558	0.792776	1.12E-05	8.20E-05
AKD1	-1.13116	5.843123	3.45E-08	6.66E-07
AKR1B10	1.792414	6.798443	0.000531	0.001982
ALDH1A3	1.657128	9.772629	1.55E-11	9.76E-10
ALDH1B1	1.503521	4.348304	6.63E-10	2.33E-08
ALDH1L2	1.060452	2.233476	0.004223	0.011368
ALG1L	-1.29829	3.069247	0.003595	0.009946
ALOX12	1.908615	-0.1322	3.06E-05	0.000186
ALOX15	-1.47476	9.627203	9.34E-05	0.000469
ALOX15B	1.500591	4.904398	0.014428	0.03202
ALOX5	1.074872	2.883903	0.003322	0.009292
ALOXE3	2.037599	1.941649	0.000806	0.002807
ALS2CR12	-1.36008	4.191586	3.69E-05	0.000217
AMIGO2	1.910757	4.510745	4.23E-06	3.65E-05
AMOTL1	2.526595	5.670686	5.99E-11	3.06E-09
ANG	-1.14358	3.082872	0.000128	0.000604

ANGPT1	-1.59673	2.765207	0.000328	0.001315
ANGPTL4	3.311683	3.907647	1.71E-06	1.72E-05
ANGPTL5	-2.20908	-0.17765	9.99E-08	1.63E-06
ANKRD13B	1.07258	2.850839	3.41E-07	4.59E-06
ANKRD2	1.498815	-0.71282	0.000556	0.00206
ANKRD22	2.119559	2.584042	5.28E-05	0.000292
ANKRD24	-1.01754	1.508087	0.000625	0.002273
ANKRD29	1.300949	1.105005	0.01407	0.031369
ANKRD30B	2.318013	0.317313	3.17E-05	0.000191
ANKRD31	-1.58878	0.404536	5.17E-06	4.32E-05
ANKRD33B	2.830951	1.688843	1.83E-09	5.49E-08
ANKRD37	-1.23948	4.349793	1.91E-08	4.09E-07
ANKRD45	-1.08869	5.748437	3.21E-05	0.000193
ANKRD66	-1.28502	6.026108	3.54E-07	4.73E-06
ANKUB1	-1.09862	5.868649	1.52E-06	1.56E-05
ANLN	1.742802	5.098424	1.50E-05	0.000104
ANO1	2.581955	4.09838	3.93E-08	7.39E-07
ANO9	1.266062	4.751863	3.38E-08	6.56E-07
ANXA10	3.59866	0.429902	0.001345	0.004333
ANXA2	1.059979	11.51148	6.21E-13	5.53E-11
ANXA2P1	1.124078	1.07994	9.97E-06	7.41E-05
ANXA2P2	1.072598	0.437748	0.000538	0.002005
ANXA3	2.631094	6.877456	1.08E-16	3.63E-14
ANXA8L2	1.686361	4.22989	6.46E-07	7.71E-06
ANXA9	1.202411	3.493626	0.015351	0.033699
AOX1	3.039989	3.19229	2.77E-13	2.70E-11
AP2B1	1.002684	8.137445	3.40E-09	9.37E-08
APBB1	-1.01419	5.26432	0.004091	0.011082
APCDD1L	3.566315	0.757929	1.57E-11	9.83E-10
APOBEC3B	1.831202	1.347501	4.97E-08	8.93E-07
APOBEC4	-1.40398	5.250027	4.91E-07	6.19E-06
APOC1	2.597088	-0.33989	1.61E-07	2.42E-06
APOE	2.160277	4.128307	0.001654	0.005167
AQP4	-1.10601	2.896654	7.38E-05	0.000384
AREG	5.755108	0.232045	1.57E-15	3.50E-13
ARHGAP11	1.56857	3.390589	1.33E-05	9.41E-05
ARHGAP18	-1.01225	7.605431	2.45E-08	5.05E-07
ARHGAP25	1.226887	1.369087	0.0016	0.005019
ARHGAP29	1.089225	4.771534	1.43E-06	1.48E-05
ARHGAP4	-1.08935	2.446707	0.003886	0.010625
ARHGAP40	1.956322	1.400103	0.005475	0.014155
ARHGEF26	-1.37314	2.83143	5.21E-07	6.48E-06
ARID3A	1.022956	1.231363	9.96E-06	7.41E-05
ARL14	2.310866	-0.24204	1.36E-05	9.55E-05
ARL4C	1.461181	3.978478	0.000368	0.001456
ARL9	1.211894	-0.49596	0.007311	0.017986

ARMC2	-1.05382	5.464849	6.74E-05	0.000358
ARMC3	-1.15704	7.476461	2.16E-06	2.08E-05
ARMC4	-1.24013	6.712146	8.25E-06	6.33E-05
ARMCX1	1.239172	1.219287	0.001605	0.005032
ARNTL2	1.879977	5.525872	2.47E-12	1.94E-10
ARPC2	1.001921	8.425552	3.86E-12	2.83E-10
ARSI	3.743044	3.075379	0.000221	0.000949
ARTN	1.743043	3.543424	6.75E-10	2.37E-08
ARX	-1.14965	2.753703	0.000558	0.002066
ASB14	-1.00223	-0.06013	0.008514	0.020485
ASB4	-1.61367	-1.19656	0.01369	0.030705
ASB9	-1.47911	1.802435	3.04E-05	0.000185
ASF1B	1.532731	3.127697	0.000376	0.001483
ASPHD1	1.310921	-0.55479	0.017177	0.037092
ASPM	2.16001	2.24136	9.56E-05	0.000477
ASPRV1	3.336922	1.904348	8.90E-05	0.00045
ASTN2	-1.10187	4.68088	0.021296	0.044328
ATAD3B	1.635617	3.908867	5.36E-13	4.98E-11
ATF7IP2	-1.13998	3.961075	0.00028	0.001154
ATOH8	-1.65859	3.133471	0.012734	0.028903
ATP10D	1.132189	5.682192	2.13E-06	2.06E-05
ATP1A1OS	-1.25674	1.745886	1.14E-06	1.23E-05
ATP2A3	-1.42427	4.399433	2.36E-05	0.00015
ATP6V0A4	-1.37996	5.075433	7.16E-05	0.000375
ATP6V1B1	-1.17197	4.659872	0.004019	0.010926
ATPBD4-AS	-1.22159	-0.47663	0.000166	0.000749
AUNIP	3.335242	0.876904	6.93E-14	8.71E-12
AURKA	1.693463	3.39199	1.54E-07	2.34E-06
AURKB	2.953964	2.195219	1.80E-09	5.45E-08
AVEN	1.405377	3.214395	7.88E-13	6.75E-11
AXL	1.086808	3.863925	0.001549	0.004887
AZU1	-1.93235	-0.00464	0.000308	0.00125
B3GNT6	1.622239	-0.74216	0.016486	0.035801
B3GNT8	1.220438	2.664608	0.000239	0.001011
B4GALNT4	1.327668	2.589226	4.85E-05	0.000273
BAALC	-1.18173	4.268802	0.002603	0.007559
BAI1	1.821562	0.229489	0.003538	0.009812
BAK1	1.181022	5.90424	2.65E-08	5.38E-07
BCAS3	-1.0269	5.861943	1.09E-06	1.19E-05
BCAT1	1.45348	2.732037	0.013099	0.029589
BCDIN3D-A	-1.22642	1.002129	4.51E-06	3.85E-05
BCL2A1	3.51279	-0.59458	1.09E-05	7.99E-05
BCYRN1	2.854988	0.244861	2.04E-08	4.35E-07
BDNF-AS	-1.07614	2.574801	3.03E-08	5.97E-07
BEAN1	2.527338	-0.53826	0.001931	0.005891
BEGAIN	3.033748	-0.27428	4.58E-09	1.20E-07

BEND5	-1.30999	1.821676	0.019314	0.040822
BIRC5	2.430984	3.260775	1.04E-06	1.14E-05
BLM	1.097125	1.471828	0.00645	0.01621
BMF	-1.03832	4.478911	0.00067	0.002403
BMP1	2.278407	6.109654	4.25E-10	1.62E-08
BMP2	1.192074	2.258788	0.004466	0.011915
BNC1	1.945557	5.991776	2.65E-13	2.61E-11
BOC	-2.00481	2.924665	7.44E-05	0.000387
BOK	1.35481	5.527375	5.49E-09	1.39E-07
BOP1	1.429461	5.345871	1.34E-14	2.18E-12
BPI	-1.6006	-0.39132	0.008036	0.019497
BPIFA1	-1.10011	13.51492	0.018874	0.040062
BPIFB1	-1.30087	12.66474	0.003642	0.010054
BRCA2	1.412972	1.031183	0.003458	0.009629
BRIP1	1.311006	1.892536	2.07E-05	0.000135
BRSK2	2.17599	-0.67902	5.72E-05	0.000311
BSCL2	-1.26868	1.633857	3.53E-10	1.38E-08
BST1	-1.37797	1.186093	0.000837	0.002895
BTBD11	1.078122	3.968504	0.002291	0.00679
BTG4	-1.06372	1.921012	3.20E-05	0.000192
BUB1	1.92055	3.02377	3.50E-05	0.000207
BUB1B	2.099139	2.921728	1.21E-05	8.68E-05
BVES	1.684399	-0.12193	0.001523	0.004817
BYSL	1.120116	4.571661	3.05E-11	1.75E-09
BZRAP1-AS	-1.05239	0.828803	0.001249	0.004069
C10orf55	2.758914	-0.55097	5.61E-07	6.91E-06
C10orf67	-1.24711	2.856736	3.68E-06	3.22E-05
C11orf16	-1.09417	5.818908	0.000644	0.00233
C11orf24	1.109436	4.679999	5.15E-14	6.75E-12
C11orf45	1.053643	2.161284	0.000103	0.000505
C11orf74	-1.02097	5.2797	2.20E-06	2.12E-05
C11orf82	1.992793	1.394195	1.60E-05	0.00011
C11orf88	-1.00903	6.905892	1.88E-05	0.000124
C11orf91	1.255678	1.101184	5.21E-05	0.000289
C11orf92	-1.19326	6.161638	0.000609	0.00223
C12orf5	1.146831	4.769191	7.09E-09	1.72E-07
C12orf54	2.028115	1.639472	7.60E-13	6.61E-11
C14orf132	-1.13226	5.611791	0.000348	0.001388
C14orf142	-1.01137	5.849056	5.19E-06	4.33E-05
C15orf26	-1.17182	5.605965	5.64E-07	6.93E-06
C15orf48	2.906908	4.041553	1.88E-05	0.000124
C15orf52	1.66178	5.188502	1.36E-08	3.03E-07
C15orf56	-1.00824	0.153931	0.003893	0.010644
C16orf59	1.136801	1.446495	0.00012	0.000574
C16orf71	-1.20181	6.195668	1.09E-06	1.19E-05
C16orf74	1.751488	3.696677	2.75E-06	2.54E-05

C16orf89	-1.75015	1.644854	0.006852	0.017022
C17orf50	-1.03086	-0.26266	0.010596	0.024766
C17orf72	-1.06596	7.753406	7.24E-06	5.71E-05
C17orf96	1.565176	2.030964	2.64E-08	5.37E-07
C19orf26	2.386913	0.177933	5.71E-07	7.02E-06
C19orf40	1.079217	0.332372	0.000199	0.000874
C19orf48	1.437063	4.782847	4.57E-10	1.72E-08
C1QL2	-1.54561	-0.76886	0.000701	0.002494
C1QTNF6	1.14604	1.459536	0.003291	0.009218
C1orf101	-1.15565	1.361804	0.000257	0.001075
C1orf110	-1.08898	6.142616	0.000168	0.000757
C1orf114	-1.20435	5.158033	1.24E-05	8.83E-05
C1orf158	-1.14619	5.524737	6.08E-07	7.35E-06
C1orf168	-1.22214	4.504652	0.002963	0.008445
C1orf173	-1.21867	8.048697	7.81E-05	0.000404
C1orf189	-1.29072	4.835827	0.000164	0.000742
C1orf192	-1.0462	7.434535	1.89E-06	1.86E-05
C1orf194	-1.18989	7.075451	3.53E-05	0.000209
C1orf74	2.006541	3.628539	5.94E-10	2.15E-08
C1orf87	-1.13665	6.213448	0.00046	0.001757
C20orf24	1.054209	2.657147	3.39E-05	0.000202
C20orf26	-1.04409	5.752386	8.22E-05	0.000421
C20orf27	1.096632	4.258253	2.67E-10	1.10E-08
C20orf85	-1.08439	8.794246	2.82E-05	0.000174
C20orf96	-1.29412	6.008925	2.51E-07	3.57E-06
C21orf128	-1.60924	4.07857	2.02E-05	0.000132
C21orf49	-1.23995	0.661177	4.79E-05	0.000269
C21orf58	-1.024	6.663583	7.24E-05	0.000378
C21orf7	1.828443	1.150722	3.72E-08	7.05E-07
C22orf23	-1.25142	3.993746	0.000158	0.000721
C2CD4A	1.526795	1.711593	0.001658	0.005177
C2orf40	-1.29943	4.537696	0.0011	0.00365
C2orf50	-1.08652	4.090656	1.23E-05	8.79E-05
C2orf73	-1.2571	4.02787	1.41E-06	1.46E-05
C4orf22	-1.3522	3.97932	4.35E-07	5.62E-06
C4orf26	2.580961	-1.13952	0.006767	0.016851
C4orf32	1.36277	1.964372	1.32E-05	9.36E-05
C4orf47	-1.17603	4.355838	8.46E-06	6.47E-05
C5orf4	-1.39866	5.018816	1.05E-06	1.16E-05
C5orf49	-1.00079	7.434818	1.01E-05	7.48E-05
C6	-1.32897	5.34935	0.02288	0.047219
C6orf141	3.44151	0.33455	3.94E-11	2.19E-09
C6orf15	6.584067	1.134927	2.42E-05	0.000153
C6orf165	-1.13726	6.73176	7.55E-06	5.90E-05
C6orf52	-1.18746	2.43756	0.00333	0.009311
C7	3.02679	-1.04956	0.022798	0.047082

C7orf57	-1.02199	5.87503	0.000129	0.000609
C8orf34	-1.16469	4.369058	0.007111	0.017556
C8orf47	-1.12151	5.487099	8.29E-05	0.000423
C9orf116	-1.01702	7.052834	7.81E-06	6.06E-05
C9orf135	-1.05441	5.871713	0.000426	0.001648
C9orf171	-1.18938	6.528199	3.25E-05	0.000195
C9orf174	-1.00213	-0.08042	0.005597	0.014415
C9orf24	-1.15661	7.828522	7.34E-06	5.77E-05
C9orf40	1.030031	1.540712	2.53E-05	0.000159
C9orf43	-1.13657	1.578594	0.002921	0.008342
C9orf72	-1.06349	5.149078	1.19E-05	8.59E-05
C9orf9	-1.17265	6.009133	1.58E-06	1.61E-05
CA12	1.656259	5.97401	0.000537	0.002002
CA2	3.605205	4.116183	7.91E-07	9.10E-06
CACNG6	-1.23472	5.649413	0.006227	0.015735
CAD	1.048164	5.471637	6.05E-11	3.07E-09
CALB2	3.796606	-1.22697	0.007332	0.018033
CALD1	1.748396	6.546018	3.65E-08	6.95E-07
CAMK2N1	2.384561	3.936998	8.32E-08	1.39E-06
CAMSAP2	1.005028	5.752499	1.56E-09	4.81E-08
CAND2	-1.14924	2.022009	0.001	0.003358
CAP1	1.211888	8.891509	1.22E-13	1.41E-11
CAPG	1.222032	6.650085	3.25E-13	3.09E-11
CAPN14	3.892825	3.433184	0.001524	0.004819
CAPN9	-1.28946	3.813365	0.002099	0.006304
CAPNS2	2.51113	1.590356	0.00038	0.001494
CAPRIN2	1.142655	4.000643	4.17E-09	1.11E-07
CAPS	-1.16103	10.8093	1.17E-05	8.50E-05
CAPS2	-1.24572	4.415798	3.66E-05	0.000216
CAPSL	-1.10888	7.03817	1.71E-06	1.72E-05
CARD10	2.587204	4.900832	4.70E-19	3.06E-16
CARD11	1.518924	4.278348	1.84E-05	0.000123
CARD18	4.812415	-0.0537	0.000126	0.000599
CASC1	-1.12313	6.008085	1.57E-06	1.60E-05
CASC2	-1.21835	4.591497	1.03E-05	7.59E-05
CASC5	1.274988	2.156323	0.002434	0.007138
CATSPERD	-1.29636	4.146459	0.003263	0.00916
CAV1	2.930915	7.961823	1.92E-15	4.16E-13
CAV2	1.650188	6.676674	2.85E-14	4.21E-12
CBLC	1.172783	4.854883	1.66E-08	3.62E-07
CBX2	2.107087	1.048703	4.33E-06	3.71E-05
CBX7	-1.25499	5.668698	1.52E-12	1.23E-10
CCBE1	1.791644	2.412086	0.005377	0.013936
CCDC103	-1.0987	6.365722	1.23E-05	8.83E-05
CCDC108	-1.10173	7.621402	0.00015	0.000689
CCDC11	-1.37301	6.530348	2.63E-06	2.44E-05

CCDC110	-1.71292	-0.31312	0.000604	0.002215
CCDC113	-1.06123	8.243778	6.15E-06	4.98E-05
CCDC121	-1.22272	4.046294	5.46E-07	6.76E-06
CCDC135	-1.00844	6.69542	0.000158	0.000721
CCDC136	-1.34399	1.811978	4.68E-06	3.97E-05
CCDC138	-1.03294	3.576702	0.001044	0.003487
CCDC146	-1.2346	7.628512	7.01E-07	8.20E-06
CCDC147	-1.13719	5.719374	5.53E-05	0.000304
CCDC148	-1.01382	3.611931	0.000121	0.00058
CCDC151	-1.1162	6.16663	5.25E-05	0.000291
CCDC164	-1.08771	7.491979	0.001215	0.003972
CCDC170	-1.23612	8.284135	1.92E-06	1.89E-05
CCDC173	-1.36076	4.710294	1.26E-05	8.98E-05
CCDC176	-1.01033	7.058895	1.77E-05	0.000118
CCDC19	-1.06817	7.808175	4.59E-06	3.91E-05
CCDC28A	-1.05806	5.115932	6.06E-11	3.07E-09
CCDC30	-1.02113	3.987643	9.26E-06	6.97E-05
CCDC33	-1.13257	6.127652	0.000121	0.000577
CCDC39	-1.15795	6.105989	0.000107	0.000524
CCDC60	-1.12296	5.637368	1.84E-06	1.82E-05
CCDC65	-1.07302	6.816413	6.68E-06	5.34E-05
CCDC67	-1.13721	2.497473	0.001466	0.004669
CCDC68	1.993147	2.242152	2.38E-10	1.01E-08
CCDC81	-1.36208	5.840319	0.00027	0.001122
CCDC88A	1.086124	3.65571	5.75E-08	1.01E-06
CCDC89	-1.23592	4.732815	0.003972	0.010819
CCL20	2.481369	2.250366	0.000861	0.002965
CCL22	1.794606	1.25716	0.002681	0.007745
CCNA1	1.88466	5.724868	6.12E-09	1.52E-07
CCNA2	2.020695	3.092513	9.62E-06	7.19E-05
CCNB1	1.242942	4.744739	3.79E-05	0.000222
CCNB2	1.968331	2.766661	4.99E-06	4.19E-05
CCND1	1.482355	9.09003	1.04E-07	1.69E-06
CCND2	2.086586	5.552955	1.57E-06	1.60E-05
CCNE1	2.309239	1.565049	4.04E-09	1.08E-07
CCNE2	1.867729	1.146298	0.000334	0.001338
CCNF	1.111294	3.282437	5.78E-05	0.000314
CCRN4L	1.591973	2.772387	1.49E-08	3.27E-07
CCT6B	-1.02462	2.323473	8.40E-05	0.000428
CD109	1.860395	6.983197	1.39E-09	4.34E-08
CD14	-1.12669	4.465646	0.000547	0.002033
CD200R1L	-2.53361	-1.52245	0.014489	0.032127
CD274	1.1838	2.405574	0.000335	0.001342
CD276	1.073215	5.801078	3.08E-09	8.69E-08
CD38	-1.30144	3.999245	0.000452	0.001734
CD3EAP	1.206228	3.881455	1.96E-09	5.84E-08

CD44	1.78259	8.733133	1.27E-08	2.86E-07
CD83	1.055874	-0.11221	0.014658	0.032449
CD86	3.561769	0.170769	1.32E-06	1.39E-05
CDA	5.037871	1.853987	5.94E-11	3.05E-09
CDC14A	-1.52609	5.713019	1.74E-08	3.77E-07
CDC20	1.930602	4.458825	4.31E-06	3.70E-05
CDC25A	1.382831	2.678324	0.000158	0.000721
CDC25B	1.465598	4.732192	2.01E-10	8.77E-09
CDC25C	1.595747	0.42665	0.001432	0.004574
CDC42EP1	1.674227	5.083069	1.81E-07	2.70E-06
CDC42EP2	1.241336	4.032274	2.21E-08	4.63E-07
CDC42EP5	1.011042	3.027542	0.001343	0.004329
CDC45	2.47018	2.642813	1.06E-06	1.16E-05
CDC6	2.812719	3.390531	5.29E-10	1.96E-08
CDCA2	2.177872	2.053463	4.72E-07	6.00E-06
CDCA3	1.394235	2.175242	0.000289	0.001187
CDCA5	2.017253	3.213068	7.52E-07	8.71E-06
CDCA8	1.659132	3.117235	1.67E-06	1.69E-05
CDH13	1.651772	4.668662	7.69E-07	8.89E-06
CDH16	4.10386	-0.17777	4.75E-05	0.000268
CDH22	-1.62146	-0.389	0.012903	0.029207
CDH24	1.205727	2.691265	2.20E-07	3.18E-06
CDH3	1.542828	8.508378	2.83E-10	1.15E-08
CDH4	3.17482	0.04074	9.61E-06	7.18E-05
CDHR1	2.31939	3.605108	5.19E-07	6.47E-06
CDHR2	-1.22292	1.041885	0.005199	0.013568
CDHR3	-1.40851	8.646636	4.54E-06	3.88E-05
CDK6	1.15115	6.019693	9.47E-07	1.06E-05
CDKN2B	1.648183	5.955978	1.83E-05	0.000122
CDKN3	2.063019	1.311759	2.41E-05	0.000153
CDNF	-1.25576	1.579487	1.63E-05	0.000111
CDON	-1.06115	3.990397	9.76E-05	0.000484
CDR2L	1.215212	5.384683	1.13E-08	2.57E-07
CDRT1	2.328758	1.606254	4.49E-09	1.18E-07
CDSN	5.337315	1.469888	1.17E-05	8.48E-05
CEACAM1	1.834089	5.101374	8.77E-05	0.000444
CEACAM19	2.152367	1.876237	8.22E-08	1.38E-06
CEACAM5	2.435807	6.647375	0.000815	0.002834
CEACAM6	1.51646	9.22502	0.000563	0.002081
CEACAM7	2.45202	2.070994	0.00317	0.00894
CELF2	-1.08898	3.303466	0.008176	0.019785
CELSR2	1.053057	7.083568	4.87E-08	8.79E-07
CEMP1	-1.11203	-0.19657	0.001073	0.00357
CENPA	2.284806	0.607412	2.40E-05	0.000152
CENPE	2.071718	2.480712	2.43E-05	0.000154
CENPI	2.10381	0.942587	2.20E-06	2.12E-05

CENPN	1.463726	3.644958	1.41E-09	4.38E-08
CENPW	2.00647	2.18489	2.68E-09	7.66E-08
CEP55	2.520857	3.301754	6.63E-07	7.88E-06
CERCAM	2.016229	4.027758	7.06E-05	0.000371
CERKL	-1.20821	5.672385	6.64E-06	5.32E-05
CERS3	1.787279	3.35673	0.010154	0.023863
CES1	-1.37033	7.784008	0.01497	0.033013
CES4A	-1.02955	5.399074	0.001071	0.003565
CETN2	-1.09069	8.336002	2.33E-07	3.35E-06
CFD	-1.55966	3.206756	0.013501	0.030335
CFL1	1.08628	9.235332	8.30E-16	2.00E-13
CH25H	-1.36444	2.178939	0.002349	0.006938
CHAC2	1.240171	1.316137	9.12E-08	1.51E-06
CHAD	-3.06924	0.933057	1.38E-05	9.68E-05
CHEK1	2.352417	2.545848	4.12E-11	2.26E-09
CHN2	-1.14505	3.92577	4.24E-05	0.000244
CHPF	1.276901	6.802806	3.82E-09	1.03E-07
CHST2	1.873327	1.224152	3.00E-05	0.000183
CHST9	-1.38794	7.626986	3.20E-07	4.35E-06
CHTF18	1.154758	3.033053	4.52E-05	0.000257
CIDEA	3.321741	-1.12459	0.002427	0.007121
CISH	1.072201	1.500451	0.000225	0.000962
CKAP2L	2.376653	2.180515	2.32E-07	3.33E-06
CKS2	1.584808	3.769125	3.01E-11	1.74E-09
CLCA3P	2.167105	-0.80272	0.002525	0.007379
CLCF1	1.962051	3.235084	1.46E-18	7.79E-16
CLDN17	4.118897	-0.73123	0.01767	0.03796
CLDN22	-1.70643	0.604584	0.002547	0.007427
CLIC3	2.107833	4.240042	0.000113	0.00055
CLMP	4.746983	1.588547	2.06E-13	2.11E-11
CLSPN	2.455977	2.382688	5.32E-08	9.49E-07
CLTB	1.749088	7.549178	5.90E-16	1.53E-13
CLU	-1.06859	9.840721	0.001122	0.003711
CMTM3	1.687614	3.705433	5.10E-06	4.27E-05
CNFN	1.204851	3.058878	0.016613	0.036041
CNGA4	-1.15683	5.727637	0.001371	0.004409
CNGB1	1.229426	-0.56559	0.00732	0.018006
CNIH2	-1.07254	2.718985	0.010635	0.024833
CNNM1	-1.24663	2.401065	0.00102	0.003415
CNTD1	-1.99457	1.566801	0.000221	0.00095
CNTN1	1.763077	2.42424	0.000495	0.00187
CNTN5	-1.2045	1.725244	0.000602	0.002208
COL12A1	1.453238	5.284061	7.00E-05	0.000368
COL17A1	2.785975	9.1379	6.81E-11	3.39E-09
COL1A1	1.34412	5.602277	0.01866	0.039687
COL22A1	2.370428	2.843066	5.25E-05	0.000291

COL27A1	2.569958	4.082872	3.65E-12	2.73E-10
COL4A1	2.506602	3.624748	0.00021	0.000915
COL4A2	2.372426	4.729972	3.66E-05	0.000215
COL5A2	1.38877	4.605327	0.009872	0.023277
COL5A3	2.739293	2.691519	4.97E-06	4.18E-05
COL7A1	1.640835	7.954129	5.20E-09	1.33E-07
COL9A3	-1.13133	0.651437	0.001113	0.003687
COMTD1	1.144457	3.505912	1.37E-07	2.12E-06
CORO1A	3.456311	2.039437	1.79E-11	1.11E-09
CORO1C	1.19585	6.947813	1.48E-12	1.21E-10
CORO6	2.075767	0.743385	8.04E-05	0.000413
COTL1	2.154768	5.978889	5.82E-11	3.02E-09
CP	-1.11737	9.069645	7.53E-05	0.00039
CPA4	3.141704	6.642258	3.40E-06	3.02E-05
CPM	1.474107	3.566936	0.010267	0.024093
CPNE7	3.622202	0.668642	2.83E-06	2.60E-05
CRABP2	2.391216	6.728369	1.88E-05	0.000125
CRB1	-1.38324	-0.17207	0.0133	0.029966
CRCT1	4.00722	2.111484	0.000395	0.001543
CREB5	2.471625	0.510963	3.81E-09	1.03E-07
CREBRF	-1.02409	4.046459	5.75E-07	7.04E-06
CREG2	2.756758	-0.52629	0.000212	0.00092
CRHR1	-2.68832	-0.75828	0.000702	0.002494
CRIP1	-1.25932	7.224497	1.65E-06	1.67E-05
CROCC	-1.00214	7.589113	0.000324	0.001303
CRYM	-1.41796	3.584621	0.000195	0.000858
CSMD1	-1.51877	2.127378	0.021881	0.045413
CSPG4	1.422369	3.533412	0.015434	0.03384
CSTA	2.258142	7.126551	0.000847	0.002924
CTHRC1	1.625218	-0.00954	0.007785	0.018978
CTPS1	1.909687	5.372071	1.19E-22	1.62E-19
CTRL	1.41714	-0.95918	0.000841	0.002907
CTSE	3.140764	-1.59181	0.002135	0.006396
CTSF	-1.13216	3.75063	3.02E-08	5.97E-07
CTSL2	1.920476	5.887525	0.000201	0.000878
CUX2	2.599939	2.278599	0.001259	0.004098
CXCL1	1.4202	6.914855	9.95E-06	7.40E-05
CXCL10	2.387279	-1.19545	0.002843	0.008147
CXCL14	1.35389	5.059435	0.024186	0.049466
CXCL2	3.540983	1.500042	3.17E-08	6.22E-07
CXCL3	3.676677	1.640614	1.02E-07	1.66E-06
CXCL5	5.976575	2.90104	2.04E-07	2.98E-06
CXCL6	2.912704	4.73639	0.001953	0.005944
CXCR4	-2.19811	0.17884	0.013945	0.031184
CXXC4	-1.63174	2.058937	0.000279	0.001152
CXorf57	-1.25958	3.365719	0.00033	0.001324

CXorf58	-1.11571	0.032948	0.003211	0.009029
CYP1A1	4.438822	-0.12164	0.011304	0.026118
CYP26B1	3.211638	1.443099	7.66E-13	6.63E-11
CYP27A1	-1.47576	5.34309	5.36E-11	2.84E-09
CYP27B1	3.210919	1.594509	2.69E-10	1.10E-08
CYP27C1	1.031922	2.350342	1.82E-05	0.000122
CYP2B6	-1.90996	3.740314	0.006759	0.016833
CYP2D6	1.295526	-0.97971	0.007857	0.019138
CYP2D7P1	1.169017	-0.5252	0.001928	0.005886
CYP2E1	2.312952	1.03362	5.89E-05	0.000319
CYP2F1	-1.00394	7.862684	0.016952	0.036712
CYP2G1P	-1.04425	-0.65698	0.015698	0.034353
CYP4X1	-1.38438	7.142462	0.001509	0.004783
CYP51A1	1.248851	7.25992	2.70E-23	4.49E-20
CYR61	2.203511	6.282945	1.25E-09	3.96E-08
CYSLTR1	-2.58884	-0.19216	0.0001	0.000495
CYYR1	-1.25839	2.454034	0.001283	0.004165
DACT2	-1.5999	1.25303	1.02E-05	7.55E-05
DAPK3	1.02741	5.622892	1.09E-06	1.19E-05
DAW1	-1.03418	6.262213	0.000635	0.0023
DBN1	1.488611	6.228738	5.02E-10	1.87E-08
DCBLD1	1.303699	4.075085	1.38E-06	1.44E-05
DCDC1	-1.06003	2.283782	0.000681	0.002434
DCDC2B	-1.25606	5.904329	9.70E-05	0.000482
DCDC5	-1.025	4.261336	0.00049	0.001854
DDO	-1.07026	2.769961	7.40E-06	5.81E-05
DDX12P	1.026333	0.400437	0.007262	0.017883
DDX21	1.248572	7.205627	1.63E-13	1.76E-11
DEFB1	2.384804	2.360226	7.18E-05	0.000375
DEGS2	-1.06647	6.446975	0.000572	0.002111
DEPDC1	1.551805	1.687327	0.002843	0.008147
DEPDC1B	2.869123	1.362119	1.16E-08	2.63E-07
DEPDC7	1.246968	0.73039	0.000234	0.000992
DFNA5	1.414797	4.290495	1.25E-10	5.83E-09
DGKA	1.211684	6.553813	1.80E-09	5.45E-08
DHCR7	1.514467	7.028858	1.52E-28	4.54E-25
DHRS1	1.060037	4.939221	0.000406	0.001578
DHRS4L1	-1.22598	-0.5278	0.001561	0.004918
DIAPH3	2.850191	1.959478	9.91E-10	3.24E-08
DIO2	2.767281	0.97241	0.004071	0.011043
DIP2B	1.042755	6.25364	2.50E-12	1.95E-10
DIRC3	2.266403	-1.51999	0.003263	0.00916
DISC2	-1.02186	-0.22601	0.002843	0.008147
DISP2	2.239615	1.262325	0.016205	0.035278
DKK1	3.420959	4.895751	2.40E-16	7.18E-14
DLC1	1.688603	1.436674	0.001213	0.003966

DLGAP5	2.18256	2.758659	1.61E-05	0.00011
DLL1	-1.02775	4.710665	1.34E-05	9.47E-05
DLX4	-1.02391	0.555098	0.000897	0.003068
DNA2	1.445169	1.328258	0.000122	0.000581
DNAAF1	-1.16272	7.429218	2.16E-05	0.00014
DNAAF3	-1.0235	7.093885	0.000148	0.000682
DNAH12	-1.10383	6.2008	0.000122	0.000581
DNAH2	-1.07011	7.044665	0.000563	0.00208
DNAH5	-1.18074	8.061805	0.000285	0.001175
DNAI1	-1.02754	7.115616	1.71E-05	0.000115
DNAI2	-1.11	6.871395	0.001007	0.003381
DNAJA4	-1.218	8.832799	2.84E-07	3.94E-06
DNAJB13	-1.10085	5.407166	7.09E-05	0.000372
DNAJC27-A	-1.12208	0.173479	0.00041	0.001594
DNASE1L2	1.364681	-0.92973	0.009492	0.022519
DNMBP-AS	-1.03525	2.593352	0.000516	0.001938
DOCK3	1.150704	0.876023	0.004446	0.011873
DOK3	1.497566	1.347596	1.72E-09	5.25E-08
DPF1	1.803756	0.000469	0.000207	0.000903
DPYS	-2.75315	-1.27529	0.002265	0.006727
DRAP1	1.19748	5.615251	2.33E-10	9.90E-09
DSC2	2.656127	5.72107	2.21E-05	0.000143
DSC3	1.586398	7.145204	1.89E-05	0.000125
DSCAM	3.281563	-1.48827	0.000152	0.000699
DSCC1	1.599997	0.9712	0.000154	0.000705
DSG1	5.451249	3.81888	0.00145	0.004626
DSG2	1.151498	8.032397	3.50E-08	6.72E-07
DSG3	2.363068	7.720251	5.00E-06	4.20E-05
DSP	1.243915	9.704192	6.21E-07	7.49E-06
DST	1.264585	8.183428	4.79E-10	1.80E-08
DTHD1	-1.19013	7.121052	6.63E-05	0.000353
DTL	2.2161	2.523143	4.32E-06	3.70E-05
DUOXA2	3.285153	-0.94967	0.001724	0.005352
DUSP19	-1.29302	3.610656	1.77E-06	1.77E-05
DUSP2	1.801485	0.313474	5.79E-05	0.000314
DUSP5	3.444236	4.533003	2.33E-15	4.85E-13
DUSP6	2.034804	5.133196	1.21E-05	8.68E-05
DUSP7	2.272336	5.924575	5.40E-16	1.47E-13
DUSP8	1.25701	2.699877	4.99E-07	6.27E-06
DYDC1	-1.05302	2.924244	4.43E-05	0.000252
DYNLRB2	-1.34415	5.871114	2.07E-05	0.000135
DYSF	4.849748	1.11186	6.35E-10	2.24E-08
E2F1	1.835626	2.66897	7.02E-06	5.57E-05
E2F2	1.186892	2.255971	0.012084	0.027667
E2F3	1.624708	3.518473	8.35E-17	2.90E-14
EBP	1.214109	6.279658	2.06E-27	5.14E-24

ECM1	3.367144	5.763209	2.96E-05	0.000181
ECT2L	-1.22076	7.015022	0.000294	0.001203
EDN1	2.664513	3.937838	9.97E-07	1.11E-05
EDNRA	1.449428	1.278747	0.015249	0.033523
EFCAB1	-1.21642	7.514918	1.19E-06	1.27E-05
EFCAB10	-1.11945	4.946972	7.69E-06	5.99E-05
EFCAB12	-1.02983	6.066352	5.50E-05	0.000302
EFCAB2	-1.03753	5.412793	3.06E-06	2.77E-05
EFCAB6	-1.16862	5.535	7.71E-07	8.90E-06
EFCAB7	-1.08993	4.40487	2.99E-07	4.10E-06
EFHB	-1.19674	6.174737	1.19E-05	8.60E-05
EFHC1	-1.06053	7.816047	1.10E-05	8.07E-05
EFHC2	-1.05624	6.317091	2.48E-05	0.000156
EFHD1	-1.67424	3.787843	0.011262	0.026042
EFNB1	1.70485	6.569041	1.04E-14	1.78E-12
EFNB2	1.039699	5.446752	8.10E-05	0.000415
EFNB3	-1.13278	5.470825	0.000135	0.00063
EGLN3	-1.89698	5.107931	1.67E-11	1.04E-09
EGR3	2.559964	1.082077	1.11E-06	1.21E-05
EHD1	1.581838	6.248039	6.28E-12	4.33E-10
EHD2	1.52251	6.903366	5.58E-10	2.06E-08
EHD3	1.841072	3.426098	9.81E-05	0.000486
EID3	-1.20801	-0.02093	0.004733	0.01254
EIF4EBP1	1.485494	5.185397	3.96E-11	2.19E-09
EIF5A	1.184453	8.284994	8.76E-14	1.07E-11
EIF6	1.05916	7.360247	7.01E-11	3.49E-09
ELFN2	1.416802	4.225954	0.000438	0.001688
ELN	-2.0109	5.167083	0.004024	0.010934
ELOVL4	1.401256	2.184132	7.26E-05	0.000379
ELOVL6	2.74722	4.600562	8.75E-16	2.08E-13
EME1	2.057782	0.401893	3.93E-06	3.41E-05
EME2	1.646764	1.969482	3.27E-08	6.39E-07
EMILIN2	1.39587	1.098589	0.003673	0.01012
EMP1	3.00501	6.663422	9.92E-08	1.62E-06
EMP3	1.7553	3.541186	1.39E-11	8.87E-10
EMR2	1.359621	3.346551	0.001278	0.004153
ENC1	1.156139	6.470318	4.45E-05	0.000253
ENG	1.391845	2.803098	1.93E-06	1.89E-05
ENKUR	-1.11072	7.424427	4.64E-06	3.94E-05
ENO2	-1.27695	4.950482	3.90E-09	1.04E-07
ENOX1	-1.64126	1.632829	0.000174	0.000782
ENPP5	-1.5066	6.068667	3.22E-06	2.89E-05
ENTPD3	1.008649	4.85185	0.000248	0.001044
EPGN	3.686652	1.561671	3.54E-07	4.74E-06
EPHA1	1.217663	5.388902	1.03E-06	1.13E-05
EPHA2	1.047967	8.206251	7.75E-09	1.86E-07

EPHX1	-1.03276	9.005169	1.72E-07	2.57E-06
EPHX3	1.172362	3.527042	0.005059	0.013246
EPPIN	-2.07742	2.400149	6.38E-07	7.63E-06
EPPIN-WF	-1.81692	0.521722	8.63E-05	0.000438
EPS8L1	1.200606	7.070969	3.31E-09	9.20E-08
ERCC6L	1.582986	1.531192	0.000478	0.001818
EREG	3.976038	2.564686	1.05E-09	3.40E-08
ERG	1.780328	0.376184	0.000543	0.002019
ERMN	-3.14538	0.840475	0.010188	0.023931
ERVMER34	1.497824	1.826307	7.97E-07	9.16E-06
ESAM	1.133417	-0.85054	0.019498	0.041148
ESCO2	1.79834	1.136474	0.00098	0.003306
ESPL1	1.834794	2.758968	1.78E-05	0.000119
ESRRG	-1.02242	3.016287	2.75E-05	0.00017
ESYT1	1.339318	7.490959	1.78E-15	3.92E-13
ETHE1	1.492362	5.8193	2.99E-11	1.73E-09
ETS1	1.206455	6.083699	4.19E-09	1.11E-07
ETV4	3.007797	2.244532	3.03E-08	5.97E-07
EVI2B	1.338813	-1.00568	0.003542	0.009819
EVPL	1.042404	7.228996	7.94E-05	0.000409
EXO1	2.675638	1.653338	2.88E-07	3.98E-06
F3	1.452766	9.007916	5.44E-05	0.000299
FABP5	1.631497	7.10846	0.003205	0.009017
FADS1	1.331657	6.429853	2.07E-11	1.26E-09
FADS2	1.701044	8.064502	2.73E-15	5.52E-13
FADS3	2.868686	3.348751	3.29E-10	1.31E-08
FAM101B	2.104321	2.231582	0.000301	0.001225
FAM111B	2.474105	2.779255	3.14E-05	0.00019
FAM126A	1.086701	4.097713	3.81E-05	0.000222
FAM127A	1.1572	5.086141	6.23E-09	1.55E-07
FAM132A	1.403245	-0.54356	0.012162	0.027829
FAM134B	-1.08619	4.040471	1.53E-05	0.000105
FAM13C	-1.28482	2.992433	0.004681	0.012424
FAM154B	-1.24373	7.594295	4.05E-05	0.000234
FAM156A	1.100181	-1.06196	0.013766	0.030842
FAM161A	-1.06158	4.107707	7.61E-07	8.81E-06
FAM166B	-1.03849	7.37328	0.000127	0.000602
FAM171A2	2.343346	-0.8405	0.000754	0.002656
FAM183A	-1.06194	7.065771	8.08E-06	6.22E-05
FAM186B	-1.22229	-0.15919	5.29E-05	0.000293
FAM194A	-1.57364	-0.42219	1.14E-05	8.33E-05
FAM20A	-1.246	3.704086	0.005061	0.013246
FAM20C	1.04927	3.398548	2.60E-06	2.41E-05
FAM211B	1.573249	0.368554	2.74E-06	2.53E-05
FAM212A	1.280782	2.657448	3.22E-07	4.37E-06
FAM216B	-1.42326	8.661909	3.01E-08	5.97E-07

FAM219A	1.110422	3.809558	2.11E-13	2.13E-11
FAM227B	-1.17197	2.312133	1.24E-07	1.96E-06
FAM229B	-1.00643	6.223594	3.46E-06	3.07E-05
FAM25A	6.468158	0.174442	6.22E-06	5.03E-05
FAM26E	2.589795	0.017912	0.003879	0.010609
FAM46B	1.129859	5.423714	7.49E-06	5.86E-05
FAM46C	-1.69291	5.310165	9.17E-07	1.03E-05
FAM47E	-1.05768	3.346925	2.54E-06	2.36E-05
FAM64A	2.448642	1.369238	1.45E-06	1.51E-05
FAM65B	-1.09383	5.98383	0.000488	0.001846
FAM66C	-1.38034	0.992053	0.000521	0.001952
FAM81B	-1.17412	6.654116	6.13E-06	4.97E-05
FAM83A	1.769936	7.48676	9.44E-08	1.55E-06
FAM83G	1.3623	4.884116	3.50E-08	6.72E-07
FAM89A	2.039002	0.936499	2.67E-06	2.47E-05
FAM92B	-1.07807	7.61065	1.33E-06	1.40E-05
FAP	4.353999	2.361121	0.000374	0.001476
FASN	1.351589	9.308108	5.60E-12	3.90E-10
FAT1	1.466693	8.100124	4.67E-08	8.46E-07
FBLIM1	2.087431	6.428014	3.80E-11	2.14E-09
FBN2	1.97934	3.013098	0.000384	0.001509
FBXL6	1.230675	4.064475	6.99E-15	1.29E-12
FBXO15	-1.56253	5.062857	1.14E-06	1.23E-05
FBXO36	-1.16556	5.484847	1.15E-06	1.24E-05
FDFT1	1.085917	8.71122	8.11E-29	3.03E-25
FDPS	1.796427	8.199597	4.84E-27	1.03E-23
FEN1	1.155147	4.723178	1.21E-05	8.68E-05
FERMT1	2.28332	6.277271	4.42E-14	6.03E-12
FEZ1	3.249659	3.381829	1.29E-10	5.98E-09
FGD1	1.163777	3.240932	1.84E-09	5.50E-08
FGD3	1.056754	2.917667	0.008526	0.020503
FGD6	1.149004	4.42401	8.16E-12	5.45E-10
FGF1	2.631184	1.766046	1.15E-05	8.37E-05
FGF5	3.179667	0.71393	9.21E-07	1.04E-05
FGFBP1	2.951459	8.606663	1.75E-20	1.87E-17
FGFBP3	-1.08837	1.009259	0.000174	0.000782
FGFR4	1.643524	0.755491	1.50E-06	1.54E-05
FHAD1	-1.11235	7.315999	0.000181	0.000807
FHL2	1.20055	5.979149	4.65E-08	8.44E-07
FHL3	1.441389	3.059565	4.48E-09	1.18E-07
FIBIN	-1.04912	3.102117	0.00434	0.011645
FIGN	1.312148	1.240343	2.33E-06	2.21E-05
FILIP1L	2.952842	2.944986	6.45E-07	7.71E-06
FJX1	1.730122	4.299716	5.80E-11	3.02E-09
FKBP6	-1.21232	1.145169	0.007532	0.018462
FLG	3.689496	2.17985	0.001244	0.004056

FLG2	4.090545	1.376346	0.000419	0.001623
FLJ13197	-1.34472	1.542335	1.08E-05	7.93E-05
FLJ26850	-1.34714	2.716937	5.43E-06	4.49E-05
FLJ27352	-1.13084	2.072224	0.005796	0.014851
FLJ35946	-1.21331	1.220963	0.000118	0.000568
FLJ37035	-1.00265	0.97156	6.68E-06	5.34E-05
FLNA	2.579351	9.838212	4.99E-19	3.11E-16
FLNB	1.21968	9.265771	6.83E-05	0.000361
FLNC	2.073731	1.33104	1.79E-05	0.00012
FLRT2	2.881762	3.069254	1.54E-07	2.34E-06
FLT1	-2.1486	3.160622	0.012449	0.028377
FMNL3	1.341488	1.452317	3.24E-05	0.000194
FMO1	-3.3265	-0.17489	0.000514	0.001931
FMO5	-1.30273	4.619614	0.006659	0.016637
FMO6P	-1.27855	3.435976	3.49E-05	0.000207
FN1	3.660103	8.680488	5.07E-05	0.000283
FNDC4	1.825238	0.948455	0.000105	0.000513
FOLR3	4.683108	-1.20905	4.99E-06	4.19E-05
FOSL1	4.301067	4.002693	1.45E-17	6.02E-15
FOXA3	-1.645	-0.38666	0.012763	0.028952
FOXD1	1.778283	0.752591	0.004833	0.012755
FOXD2	1.157581	1.121646	0.004125	0.01115
FOXL2	2.880243	-1.12302	0.000882	0.003026
FOXM1	2.400727	4.052023	5.81E-08	1.02E-06
FOXP2	-1.02249	3.741379	0.000752	0.002649
FRAT1	-1.01451	3.097295	1.34E-06	1.41E-05
FRMD6	1.551444	5.81869	6.42E-08	1.11E-06
FRMPD2	-1.14345	5.151315	9.80E-06	7.30E-05
FRMPD2P1	-1.19988	1.066368	0.003527	0.009789
FSCN1	3.008002	6.943149	1.32E-12	1.09E-10
FSD1L	-1.22319	4.380697	1.00E-05	7.45E-05
FST	2.430279	5.891317	5.65E-09	1.42E-07
FSTL3	2.786779	6.071598	4.68E-23	7.00E-20
FUOM	1.209902	1.74072	0.000181	0.000807
FUZ	-1.05785	6.413198	2.09E-05	0.000136
FXYD1	-1.90036	1.864412	2.67E-05	0.000167
FXYD5	2.633224	4.858803	9.13E-10	3.01E-08
FYB	2.976698	3.724655	3.89E-06	3.38E-05
FZD8	-1.11833	3.44029	0.000496	0.00187
G0S2	1.438072	2.472481	0.007349	0.018067
GABBR1	1.281989	2.607949	4.02E-05	0.000233
GADD45A	1.590126	5.71571	1.11E-08	2.54E-07
GADD45G	-1.28202	2.522126	6.64E-05	0.000354
GAL	6.010611	-0.54489	1.96E-14	3.06E-12
GALM	-1.29622	3.977475	1.15E-06	1.24E-05
GALNT5	2.302231	5.928902	5.66E-13	5.16E-11

GAPDH	1.055453	11.16784	1.49E-10	6.72E-09
GAS2	-1.12406	0.149738	0.005758	0.01476
GAS2L2	-1.01993	6.631251	3.20E-05	0.000192
GAS2L3	1.205412	-0.04002	0.001692	0.005266
GDF15	1.831	5.944547	1.10E-06	1.20E-05
GDF9	-1.24654	0.064113	0.001919	0.005865
GDNF	-1.58881	-0.71582	0.008164	0.019763
GDPD2	2.522836	-0.79212	0.000225	0.000961
GDPD3	1.056778	2.903047	0.011884	0.027276
GFOD1	1.12771	3.973431	2.86E-07	3.96E-06
GGT1	2.568754	1.007566	0.000183	0.000813
GINS1	1.767914	2.219336	3.85E-06	3.36E-05
GINS2	2.286411	2.519033	1.78E-06	1.78E-05
GINS4	1.450759	2.487647	5.61E-06	4.60E-05
GIPC2	-1.11745	3.028035	0.00162	0.005071
GJA1	1.479205	6.169205	0.000328	0.001315
GJA3	2.306684	0.675379	5.23E-06	4.37E-05
GJA4	-2.42681	1.595318	0.009781	0.023095
GJB1	-1.10205	1.470979	0.023367	0.048045
GJB2	2.275397	8.402357	3.12E-05	0.000189
GJB3	1.776361	6.25197	1.74E-14	2.77E-12
GJB5	1.081097	5.751675	1.66E-05	0.000113
GJB6	2.258821	3.668401	0.002681	0.007745
GJC1	1.213128	1.2871	0.018783	0.039914
GKAP1	-1.01297	1.517174	0.000163	0.000739
GLIPR1	3.487154	3.723871	8.49E-15	1.53E-12
GLIPR1L2	-1.05607	1.361475	0.000866	0.002978
GLIPR2	-1.11472	6.045485	1.78E-08	3.84E-07
GLS	1.215625	5.170534	2.87E-10	1.16E-08
GLT25D1	1.478097	6.161396	2.64E-15	5.42E-13
GLT25D2	-1.62654	-0.5481	0.001844	0.005663
GMNC	-1.29203	0.518055	0.003543	0.009819
GNA14	-1.18873	4.817369	0.007161	0.017656
GNA15	1.015949	6.596938	2.99E-08	5.95E-07
GNG7	-1.50601	0.807129	0.000564	0.002083
GOLGA6L5	1.033961	-0.486	0.016624	0.036059
GOLGA7B	2.675387	1.728436	1.95E-06	1.91E-05
GP9	-1.30136	-0.16488	0.008183	0.019798
GPC1	1.184392	8.35773	9.25E-10	3.04E-08
GPM6B	-1.2711	2.082109	5.02E-05	0.000281
GPR1	2.593147	-0.17687	0.00078	0.002735
GPR115	2.564757	4.842246	6.66E-12	4.53E-10
GPR126	1.447593	4.918806	7.80E-07	8.98E-06
GPR146	-1.79301	0.938682	6.25E-07	7.51E-06
GPR153	1.696961	5.712263	5.32E-09	1.36E-07
GPR156	-1.20135	1.620482	0.003984	0.010847

GPR68	2.197095	3.104285	1.49E-05	0.000104
GPR87	1.150463	5.395149	3.58E-07	4.78E-06
GPR98	-1.2419	4.866061	8.96E-05	0.000452
GPRASP1	-1.07292	1.816881	5.93E-05	0.00032
GPRC5A	1.874074	7.885012	2.60E-08	5.31E-07
GPRIN1	1.171449	2.768088	1.88E-06	1.86E-05
GPSM1	2.205555	3.2154	3.37E-11	1.93E-09
GREB1L	3.373127	-0.85042	9.82E-05	0.000486
GRHL3	2.061681	4.77211	3.80E-05	0.000222
GRK5	1.839595	1.851248	1.20E-06	1.28E-05
GRM4	-1.25627	0.027701	0.001465	0.004668
GSDMA	2.933815	-0.27231	7.48E-05	0.000388
GSG2	2.23003	1.17117	4.54E-09	1.19E-07
GSTA1	-1.82478	7.611492	0.000279	0.001151
GSTA2	-2.31682	6.537623	0.00586	0.014986
GSTA7P	-1.93276	-0.87665	0.019363	0.040909
GTF2IRD2	-1.00798	1.314578	5.46E-05	0.0003
GTF2IRD2E	-1.0185	1.034104	2.30E-05	0.000147
GTSE1	2.035446	2.227171	3.76E-05	0.00022
HAS2	2.337953	0.25939	0.006366	0.016035
HAS3	2.531895	5.131097	5.63E-09	1.42E-07
HBEGF	3.141755	4.133553	2.00E-16	6.10E-14
HCN2	1.231249	-0.04294	0.002877	0.008226
HCN4	-1.0467	2.287336	0.001824	0.00561
HDAC9	2.271689	4.199578	1.33E-07	2.07E-06
HELLS	1.000842	2.240083	0.009342	0.02219
HEPACAM2	-1.48493	0.320621	0.000183	0.000813
HEPHL1	4.376549	1.661769	0.000692	0.002469
HERC5	-1.03743	1.653512	0.002582	0.007515
HES2	2.011911	5.959794	4.05E-12	2.94E-10
HES4	1.247002	4.026297	3.59E-08	6.87E-07
HESX1	-1.01042	-0.67952	0.010768	0.025058
HEY1	-1.27673	4.480393	0.001741	0.005398
HIC1	1.387197	0.272486	0.001073	0.00357
HIF1A	1.107762	7.646909	2.77E-07	3.86E-06
HIST1H2AI	1.525464	-1.25477	0.007665	0.018732
HIST1H3D	1.883348	-0.11948	0.000258	0.001076
HIST1H3H	1.345251	-0.17616	0.004582	0.012201
HIST1H4H	1.179528	0.818218	0.00502	0.013171
HJURP	2.204771	2.42631	4.61E-06	3.92E-05
HKDC1	2.364104	0.542366	1.76E-06	1.76E-05
HLA-DOB	1.871269	0.054317	0.000213	0.000922
HLF	-1.16696	1.301146	0.005847	0.014954
HMGA1	1.529508	7.717039	3.04E-12	2.30E-10
HMGA2	1.418776	3.675673	6.05E-08	1.05E-06
HMGCR	1.331157	7.475653	4.66E-19	3.06E-16

HMGCS1	1.92966	7.732857	1.57E-21	1.86E-18
HMMR	1.459829	2.305722	0.003943	0.010755
HMOX2	1.196544	6.189567	1.90E-10	8.43E-09
HN1	1.212268	7.196713	2.11E-11	1.28E-09
HNRNPA1F	2.134154	3.395378	2.05E-06	1.99E-05
HOMER3	1.813705	5.743075	9.92E-10	3.24E-08
HOPX	3.085976	4.374777	0.00092	0.003133
HPDL	1.130722	-0.21649	0.010625	0.024817
HRH1	1.45592	3.67552	1.67E-07	2.52E-06
HS3ST2	5.498382	0.914832	9.04E-13	7.60E-11
HS3ST6	-1.19987	4.625931	4.94E-05	0.000277
HSD11B1	1.823059	1.230115	0.01118	0.025879
HSD17B1	2.423242	2.781977	4.38E-10	1.66E-08
HSD17B13	-2.12578	0.246895	0.000111	0.00054
HSPA1A	-1.03312	6.513372	6.23E-10	2.21E-08
HSPA1L	-1.24094	2.797736	1.05E-07	1.70E-06
HSPA2	-1.33934	4.766809	0.000411	0.001597
HSPA6	3.331632	-0.22818	7.91E-06	6.12E-05
HSPB8	3.046812	3.953288	3.36E-06	2.99E-05
HSPG2	1.198795	7.730963	2.32E-06	2.21E-05
HTR3A	1.223313	0.666934	0.018112	0.038715
HTR7	2.230814	1.649564	5.32E-07	6.61E-06
HUNK	-1.48969	3.188517	0.000477	0.001811
HYAL1	1.181966	2.971922	0.000599	0.002197
HYAL3	2.260005	2.679754	5.90E-11	3.04E-09
ICAM1	1.42247	6.373834	0.002953	0.008416
ICOSLG	1.479982	1.217573	7.75E-05	0.000401
ID2	-1.0108	4.577815	0.00462	0.012285
IDO1	2.939052	2.518483	1.39E-05	9.74E-05
IER3	1.355326	5.353923	0.000166	0.00075
IFLTD1	-1.15476	4.664428	0.000379	0.001491
IFNE	1.341679	-0.83147	0.005158	0.013478
IFRD2	1.1162	5.935835	9.87E-15	1.73E-12
IFT172	-1.08711	7.847631	3.58E-06	3.16E-05
IFT88	-1.11486	6.142393	7.85E-06	6.08E-05
IGFBP5	-1.94396	8.620221	4.70E-08	8.50E-07
IGFBP6	3.212816	4.221978	1.36E-08	3.04E-07
IGFL1	2.644911	2.713127	0.004734	0.012541
IGFL2	4.091006	0.781068	0.00013	0.000612
IGSF10	-1.03019	5.366182	0.006806	0.016928
IGSF3	1.017133	6.813567	2.79E-07	3.88E-06
IKBIP	1.309777	3.710811	1.14E-09	3.63E-08
IKBKE	1.196421	4.582707	4.94E-07	6.22E-06
IL11	1.427758	0.931921	0.000131	0.000617
IL12RB2	1.834293	0.918364	5.04E-05	0.000282
IL18	1.715753	5.442867	1.29E-13	1.46E-11

IL1A	4.218384	3.070086	4.01E-08	7.53E-07
IL1B	6.152157	3.005272	5.46E-08	9.70E-07
IL1R2	2.6445	0.916225	0.000388	0.001519
IL1RL1	5.744097	4.02236	1.01E-06	1.12E-05
IL1RL2	1.4995	0.792157	1.40E-05	9.82E-05
IL1RN	2.371953	7.417963	0.000146	0.000676
IL23A	1.698052	0.583359	0.001757	0.005438
IL2RB	-1.80124	0.877779	0.003139	0.00886
IL31RA	2.177659	0.465245	5.58E-05	0.000306
IL32	2.46306	3.982602	3.29E-05	0.000197
IL36A	4.247537	-0.28895	0.000836	0.002895
IL36B	3.678336	-1.90628	0.022577	0.046689
IL36G	3.450956	2.76804	0.000115	0.000556
IL36RN	4.724794	0.908893	0.000242	0.001021
IL5RA	-1.3026	6.422922	1.49E-05	0.000103
IL6	3.499294	-0.32191	0.000668	0.002397
IL7R	3.659857	-0.85255	6.67E-06	5.34E-05
IL8	2.289506	6.202791	3.07E-06	2.77E-05
IMPDH1	1.391939	5.632591	4.18E-17	1.60E-14
INA	1.347492	0.39605	0.007681	0.018765
INE1	1.150706	-0.42088	0.009405	0.022324
INF2	2.167599	6.634199	1.14E-13	1.34E-11
INHBA	2.641293	1.255621	0.001573	0.00495
INPP4B	1.060014	5.24724	9.46E-06	7.10E-05
INPP5J	-1.26041	2.724254	7.75E-05	0.000401
IP6K3	-1.55297	4.512134	2.98E-05	0.000182
IQCG	-1.03765	7.719892	5.03E-07	6.31E-06
IQCH	-1.17338	5.328983	1.24E-06	1.32E-05
IQCK	-1.03736	6.207963	7.85E-07	9.03E-06
IQGAP3	2.354399	2.800792	1.55E-06	1.59E-05
IQUB	-1.24983	5.109683	2.02E-05	0.000132
IRAK1	1.000542	7.414877	3.88E-14	5.38E-12
IRAK2	1.121207	3.352809	5.46E-05	0.0003
IRX3	-1.17014	5.630423	0.000315	0.001272
ISYNA1	-1.05334	5.637785	2.84E-06	2.60E-05
ITGA3	1.613673	9.33645	7.16E-15	1.31E-12
ITGA5	2.517447	5.363103	7.63E-10	2.60E-08
ITGA6	2.412271	7.987788	6.01E-13	5.42E-11
ITGA9	-1.41401	-0.37709	0.00615	0.015582
ITGAM	1.964301	-0.56092	0.008013	0.019447
ITGB1	1.319537	9.404452	1.18E-10	5.55E-09
ITGB4	1.183251	9.606464	9.01E-10	2.98E-08
ITGB6	1.764607	6.829228	8.30E-05	0.000423
ITGB7	1.280358	2.264999	0.001267	0.004118
ITLN1	-3.10651	0.393714	0.000104	0.000512
ITPR2	1.308365	3.321359	0.00089	0.00305

ITPR3	1.059204	7.563907	3.04E-12	2.30E-10
ITPRIP	1.821396	5.075816	2.43E-10	1.02E-08
IVL	3.67368	6.157272	0.000156	0.000716
JAG1	1.403393	7.321706	3.65E-06	3.20E-05
JAKMIP2-A	-1.68542	-0.55961	0.000728	0.002576
JUP	1.207873	9.518403	1.75E-09	5.34E-08
KAL1	-1.63062	4.342352	2.14E-05	0.000138
KANK3	1.045669	-0.13037	0.002257	0.006703
KANK4	5.01001	1.244991	2.51E-08	5.16E-07
KANSL1L	-1.06953	4.810549	3.41E-05	0.000203
KATNAL2	-1.00013	4.749158	0.000214	0.000927
KBTBD8	1.707406	0.562107	7.55E-08	1.27E-06
KCNAB2	-1.13523	3.637761	0.000975	0.00329
KCNG1	1.092746	1.549852	0.017805	0.038184
KCNH2	-1.58009	-0.25328	0.014922	0.032911
KCNIP2	1.144803	-1.06269	0.014699	0.032527
KCNJ12	-1.52309	-0.52304	0.002525	0.007379
KCNJ16	-1.75203	4.780671	0.016811	0.036433
KCNJ2-AS1	-1.00979	2.036463	0.000222	0.000953
KCNJ5	1.791115	2.35939	0.005821	0.014902
KCNK6	1.757375	4.761296	3.34E-10	1.31E-08
KCNK7	1.898099	-0.17713	0.003	0.008524
KCNMB2	-2.11582	1.659861	0.000175	0.000785
KCNN4	1.228996	3.846497	0.023188	0.047741
KCNQ5	1.126809	1.809534	0.008438	0.020331
KCNRG	-1.27825	4.398885	7.26E-06	5.73E-05
KCP	2.67755	2.19311	1.24E-06	1.32E-05
KCTD15	1.152344	4.151043	1.30E-05	9.22E-05
KCTD16	-1.29336	-0.34966	0.004952	0.013022
KDM4D	-1.05777	1.26688	6.33E-09	1.57E-07
KIAA0101	1.689723	2.14523	5.59E-05	0.000306
KIAA0922	1.041015	4.079424	8.32E-08	1.39E-06
KIAA1009	-1.06031	5.115996	5.95E-07	7.22E-06
KIAA1199	1.907332	4.556663	2.78E-05	0.000172
KIAA1324	-1.91181	6.20749	1.67E-05	0.000113
KIAA1377	-1.15655	6.040763	5.94E-05	0.000321
KIAA1407	-1.01102	5.755334	4.74E-06	4.01E-05
KIAA1462	1.012252	1.064006	0.000891	0.003052
KIAA1524	1.439783	2.220202	4.09E-05	0.000236
KIAA1549L	2.618248	1.982086	1.66E-05	0.000113
KIF12	4.158486	-1.20355	1.77E-06	1.77E-05
KIF14	2.270774	1.749084	2.99E-05	0.000182
KIF15	1.958971	1.608276	5.27E-05	0.000292
KIF18B	2.293414	2.124055	2.54E-06	2.36E-05
KIF19	-1.0306	7.275722	2.50E-05	0.000157
KIF20A	1.475843	3.983581	0.000137	0.000641

KIF20B	1.119422	2.718986	0.001568	0.004935
KIF21A	-1.06331	7.704438	8.08E-06	6.22E-05
KIF23	1.923362	3.752912	7.05E-08	1.20E-06
KIF26A	1.653527	-1.06552	0.006637	0.016594
KIF2C	2.035677	3.088196	2.12E-06	2.05E-05
KIF3C	1.387346	4.118464	2.48E-05	0.000156
KIF4A	1.829115	2.720719	5.82E-05	0.000316
KIF6	-1.20092	4.286139	8.30E-05	0.000423
KIFC1	1.946917	3.518156	9.78E-07	1.09E-05
KIFC2	1.03437	4.936526	6.41E-07	7.66E-06
KIFC3	1.116948	5.416526	2.98E-06	2.71E-05
KIRREL	1.125061	4.076177	1.67E-06	1.69E-05
KIT	-1.10398	1.364155	0.016002	0.034882
KLC3	1.587676	3.515089	1.43E-08	3.16E-07
KLF15	-1.01555	1.040842	0.01873	0.039807
KLF2	-1.09654	2.164541	0.001082	0.003594
KLF6	1.398452	6.811459	3.81E-07	5.04E-06
KLF7	1.726361	4.895996	1.41E-13	1.55E-11
KLF8	1.457323	2.721377	0.00046	0.001757
KLHDC1	-1.12748	0.383282	4.36E-07	5.62E-06
KLHL18	1.114999	4.998284	3.43E-11	1.95E-09
KLHL32	-1.24805	3.947329	7.25E-05	0.000378
KLHL38	-2.54754	-0.60845	0.007355	0.01808
KLHL4	5.938341	-1.30404	7.29E-07	8.51E-06
KLHL6	-1.09724	6.670822	2.57E-05	0.000161
KLK10	2.259737	8.17029	2.05E-10	8.88E-09
KLK13	1.626204	4.819395	0.013438	0.030217
KLK5	4.197642	3.81373	3.93E-05	0.000228
KLK6	4.118469	3.726562	9.59E-05	0.000478
KLK7	4.175994	6.563299	2.99E-07	4.10E-06
KLK8	2.842966	3.152336	0.000311	0.001262
KLK9	5.832003	1.814348	5.68E-10	2.08E-08
KLLN	-1.14884	2.734859	5.56E-07	6.87E-06
KMO	1.911671	1.144133	0.000408	0.001586
KPNA2	1.335193	6.019919	9.60E-14	1.16E-11
KRT1	7.66013	5.377054	0.001086	0.003607
KRT10	2.070894	7.964032	0.018246	0.03894
KRT14	3.594004	10.49745	9.26E-08	1.53E-06
KRT16	3.212664	8.638453	7.50E-05	0.000389
KRT16P1	2.399767	-0.88702	0.000168	0.000758
KRT16P2	2.956582	0.261332	5.57E-05	0.000305
KRT16P3	2.712409	-0.38998	2.22E-05	0.000143
KRT17	2.996812	11.6642	5.64E-13	5.16E-11
KRT23	1.975493	7.941812	2.07E-12	1.64E-10
KRT3	2.506514	-0.42695	8.23E-06	6.32E-05
KRT31	1.949738	-0.55131	7.20E-05	0.000376

KRT4	2.512184	9.641725	0.000128	0.000605
KRT5	2.05214	12.23972	9.44E-09	2.19E-07
KRT6A	2.640552	11.92992	2.08E-07	3.04E-06
KRT6B	4.196572	7.424989	3.26E-06	2.92E-05
KRT6C	3.915297	5.335047	0.000237	0.001004
KRT75	3.266038	3.642882	0.005883	0.015025
KRT76	2.055786	0.3305	0.009246	0.021994
KRT78	5.641474	3.113808	3.51E-05	0.000208
KRT79	3.300994	-1.01774	0.000165	0.000745
KRT80	1.271081	6.810564	5.83E-07	7.12E-06
KRT86	2.172691	-1.05592	0.004384	0.011732
KRT9	2.088124	-0.96885	0.00012	0.000574
KRTAP2-3	4.873676	0.265223	6.07E-05	0.000327
KRTDAP	4.778429	2.655884	0.000275	0.00114
KYNU	1.394647	4.398327	8.65E-06	6.59E-05
L1CAM	5.844464	2.180949	8.68E-07	9.87E-06
LAD1	2.230935	7.519234	9.74E-11	4.65E-09
LAG3	-2.15015	2.889074	2.51E-06	2.35E-05
LAMA3	3.136675	8.851447	5.33E-18	2.42E-15
LAMA4	2.015925	2.094639	0.000774	0.002716
LAMA5	1.013326	8.37354	2.46E-09	7.08E-08
LAMB1	2.531547	5.462034	2.09E-05	0.000136
LAMB3	2.022518	9.45007	5.76E-13	5.22E-11
LAMC2	2.489904	10.32759	6.63E-18	2.92E-15
LCA5	-1.13862	5.734237	3.30E-07	4.47E-06
LCA5L	-1.1985	3.875396	6.53E-05	0.000349
LCAT	1.044539	2.221551	2.18E-06	2.10E-05
LCE3D	7.212854	0.387967	0.000425	0.001643
LCN2	2.587751	9.439291	1.07E-05	7.87E-05
LDHA	1.282721	9.301927	9.07E-11	4.39E-09
LDLR	1.845118	8.795218	1.52E-29	7.58E-26
LDLRAD1	-1.29331	8.303616	0.000217	0.000935
LDLRAD4	-1.10287	5.37451	0.000391	0.00153
LEKR1	-1.23801	2.485079	6.02E-06	4.90E-05
LEPREL1	2.281675	5.092403	2.87E-05	0.000177
LETM1	1.059065	6.228984	2.25E-11	1.35E-09
LETM2	1.336883	2.717827	3.94E-07	5.16E-06
LGALS1	3.554163	6.586408	7.12E-11	3.53E-09
LGALS7B	2.883428	4.77068	0.000218	0.000938
LGALSL	2.270229	4.75477	1.19E-09	3.78E-08
LGI3	3.360519	-0.15951	6.99E-05	0.000368
LGR5	-2.41749	0.032301	0.005251	0.01367
LHFP	1.481982	2.221753	1.32E-05	9.36E-05
LIF	2.454659	4.428329	8.44E-09	2.00E-07
LIFR	-1.02036	3.990415	3.93E-07	5.16E-06
LIMD2	1.116725	1.754431	0.001784	0.00551

LIMS2	2.671925	0.708383	0.000776	0.002723
LINC00152	3.060933	2.385445	1.33E-11	8.57E-10
LINC00271	-1.45887	1.745587	2.02E-06	1.97E-05
LINC00326	-1.00377	2.009475	0.001992	0.006036
LINC00441	-1.41283	-0.57309	0.000213	0.000922
LINC00478	-1.07149	1.949188	4.98E-05	0.000279
LINC00494	-1.44554	-0.17436	0.000354	0.001406
LINC00638	-1.04608	1.493847	6.64E-05	0.000354
LINC00663	-1.05428	2.500727	3.38E-07	4.55E-06
LINC00704	2.950429	0.037843	0.000265	0.001104
LINC00707	5.19841	2.509524	8.06E-11	3.95E-09
LINC00842	1.421348	3.653827	4.11E-08	7.68E-07
LINC00857	1.255669	2.659874	3.89E-05	0.000226
LIPG	2.881525	5.030367	4.18E-06	3.61E-05
LIPK	3.202452	-0.85554	0.001978	0.006006
LMO2	-1.09645	4.930094	0.000971	0.003277
LOC100128	2.086476	1.714662	1.71E-09	5.23E-08
LOC100130	-1.40058	0.746751	2.55E-07	3.60E-06
LOC100130	-1.48967	-0.21805	0.000226	0.000964
LOC100130	-1.07248	-0.01337	0.000284	0.001168
LOC100131	-1.08017	-0.18368	0.00185	0.00568
LOC100131	-1.11985	2.597706	5.63E-08	9.95E-07
LOC100270	-1.00561	0.890244	0.000138	0.000645
LOC100287	2.91251	1.237197	4.91E-14	6.50E-12
LOC100288	-1.14986	1.049205	4.71E-05	0.000266
LOC100294	-1.10197	1.848885	9.07E-05	0.000457
LOC100495	-1.20005	0.394746	2.79E-06	2.56E-05
LOC100505	-1.43138	0.590319	0.00475	0.012574
LOC100505	-1.13717	3.283063	0.00029	0.00119
LOC100505	1.741192	-0.88136	0.004161	0.011232
LOC100505	2.799021	0.389271	0.000272	0.001128
LOC100505	-1.12996	0.084699	0.001817	0.005593
LOC100506	1.372463	0.755554	1.93E-05	0.000127
LOC100506	1.353596	3.142582	2.76E-05	0.000171
LOC100506	-1.1781	2.15292	0.000701	0.002492
LOC100506	-1.03389	1.224714	0.004324	0.011616
LOC100506	-1.16376	1.197369	0.003908	0.01067
LOC100506	-1.20744	4.404853	5.04E-06	4.23E-05
LOC100506	3.163443	-0.74383	3.43E-05	0.000204
LOC100506	-1.01169	6.225231	5.62E-05	0.000307
LOC100507	-1.71095	0.704286	5.29E-09	1.35E-07
LOC100507	-1.30884	1.402302	4.27E-07	5.52E-06
LOC100507	-1.04908	2.531503	1.14E-06	1.23E-05
LOC100616	-1.73885	-0.18504	0.00025	0.001049
LOC145837	-1.60308	0.080523	9.81E-05	0.000486
LOC151174	-1.41764	-0.64122	0.009666	0.022862

LOC157381	-1.01393	2.103418	0.018484	0.039386
LOC201651	-1.32909	2.464651	5.84E-05	0.000316
LOC254559	-1.27529	-0.62735	0.008006	0.019434
LOC255167	-1.40189	-0.88793	0.019239	0.040687
LOC284276	-1.06844	3.346505	0.00013	0.000613
LOC284454	1.701888	2.835352	3.75E-07	4.96E-06
LOC284801	1.226842	-0.2788	0.023725	0.048687
LOC285540	-1.34748	-0.22647	2.49E-05	0.000157
LOC344887	1.293023	1.563562	0.003423	0.009547
LOC389791	1.032578	0.45279	0.000211	0.000917
LOC401052	-1.1734	2.883784	8.20E-08	1.38E-06
LOC440300	1.216897	-0.50526	2.80E-05	0.000173
LOC541471	2.206408	3.719106	3.90E-12	2.84E-10
LOC541473	-1.26692	2.667253	0.000938	0.003179
LOC642366	-1.24733	1.397577	0.00013	0.000612
LOC646329	1.158091	-0.29426	0.002747	0.007903
LOC646862	1.014675	0.47396	0.011806	0.027142
LOC646903	-1.00438	1.065005	0.000153	0.000704
LOC653513	-1.17124	0.25294	0.002663	0.007702
LOC728024	-1.05854	1.006952	0.000148	0.000684
LOC728392	-1.18516	5.158761	4.89E-05	0.000275
LOC728819	-1.315	0.138918	0.000125	0.000594
LOC729013	-1.17251	5.019805	1.59E-07	2.41E-06
LOC729444	-1.48425	-0.91505	0.022554	0.046648
LOC729603	1.614415	-0.26766	1.93E-07	2.85E-06
LOC730091	-1.10752	3.816975	0.00075	0.002646
LOC730101	-1.81742	3.665692	6.07E-05	0.000327
LOC84931	-1.85711	-1.15788	0.018952	0.040183
LOC90784	1.058701	3.304952	1.90E-08	4.08E-07
LOC90834	1.055007	-0.40539	0.008681	0.020836
LOXL2	2.455198	3.42751	0.000842	0.002909
LPAR3	-1.19633	4.430344	2.79E-05	0.000173
LPAR5	1.18835	2.949109	0.000874	0.003004
LPCAT1	1.214776	4.791056	4.46E-08	8.19E-07
LPPR3	-1.79609	4.690123	9.32E-05	0.000468
LPXN	1.484348	2.728854	1.76E-06	1.76E-05
LRP2BP	-1.17272	3.421977	1.72E-05	0.000116
LRP8	1.354802	4.431223	2.90E-08	5.82E-07
LRRC18	-1.06915	4.647553	0.002554	0.007441
LRRC2	-1.2992	-0.3076	0.004029	0.010945
LRRC23	-1.03255	7.900326	3.71E-05	0.000218
LRRC26	-1.43656	2.926825	0.005958	0.015188
LRRC27	-1.00605	4.919235	9.19E-06	6.94E-05
LRRC3	2.199265	0.342336	2.97E-06	2.71E-05
LRRC34	-1.07892	4.807233	2.92E-05	0.000179
LRRC36	-1.40013	1.906297	0.023237	0.047799

LRR37B	-1.08701	3.166003	0.000337	0.001347
LRR43	-1.11566	5.383606	3.71E-06	3.24E-05
LRR46	-1.21447	8.149293	7.42E-06	5.81E-05
LRR48	-1.23691	7.207477	1.14E-05	8.33E-05
LRR49	-1.03669	5.538097	2.42E-05	0.000153
LRR56	-1.13829	6.174576	2.88E-06	2.63E-05
LRR6	-1.03422	5.914605	2.41E-06	2.28E-05
LRR71	-1.00742	6.264603	0.000296	0.001211
LRR8A	1.587921	8.178734	1.97E-13	2.03E-11
LRR8C	1.517224	3.552802	1.07E-07	1.72E-06
LRRCC1	-1.05721	3.61784	7.74E-05	0.0004
LRRIQ1	-1.18519	6.457393	1.65E-05	0.000112
LRRIQ3	-1.24293	1.795006	0.000424	0.001642
LRRN4	4.531906	-1.45052	1.07E-07	1.73E-06
LRTOMT	-1.1879	7.115081	1.77E-06	1.77E-05
LSS	1.387894	7.485288	1.20E-29	7.58E-26
LTBP1	1.62801	4.420121	1.99E-05	0.00013
LUZP1	1.009356	6.77274	1.88E-11	1.15E-09
LY6G5B	1.276258	1.000031	0.000129	0.00061
LY6G6C	2.411193	1.577169	0.010403	0.024368
LY6H	-1.14217	1.520588	0.022639	0.046811
LY6K	1.657205	0.685133	0.006278	0.015847
LYPD3	2.34089	6.609298	0.000276	0.001142
LYPD5	1.405146	1.81241	0.002381	0.007008
LZTFL1	-1.02096	6.773601	5.67E-06	4.65E-05
LZTS1	1.742324	1.38298	5.69E-06	4.67E-05
M1	-1.10136	0.811758	0.000115	0.000555
MACC1	1.356848	6.748788	4.51E-08	8.26E-07
MACROD1	-1.01868	3.466569	4.45E-06	3.81E-05
MAFF	2.075283	4.136639	6.73E-16	1.70E-13
MAGI2	-1.09336	2.186355	0.000109	0.00053
MAK	-1.06462	4.797532	6.73E-06	5.37E-05
MAL	5.989853	3.982085	0.004523	0.012056
MALL	1.33647	6.935758	9.45E-05	0.000473
MAOB	-1.16768	2.915065	0.001404	0.004497
MAP2	1.290629	4.312781	3.44E-05	0.000204
MAP2K6	-1.02778	2.664291	0.004336	0.011642
MAP3K19	-1.24535	6.643603	7.94E-08	1.34E-06
MAP4	1.203917	7.986701	4.12E-10	1.58E-08
MAP4K4	1.590703	7.26411	3.21E-19	2.29E-16
MAP6	-1.03166	7.027911	0.000105	0.000514
MAP7D1	1.37638	7.262286	2.20E-13	2.20E-11
MAPK11	1.86093	3.438251	8.34E-07	9.54E-06
MAPK12	2.751807	1.726595	9.37E-11	4.52E-09
MAPKAPK3	1.73508	6.258417	3.20E-18	1.58E-15
mars.10	-1.23132	5.172177	7.44E-05	0.000387

MARVELD1	1.201431	4.740178	7.14E-06	5.64E-05
MATN2	-1.03097	4.564069	0.000506	0.001905
MATN3	1.404363	1.14175	0.000122	0.000583
MB	-1.89072	4.423864	9.23E-14	1.12E-11
MB21D2	1.49461	2.074317	2.12E-07	3.08E-06
MCAM	2.158345	5.24263	3.14E-05	0.00019
MCF2L-AS1	-1.56258	-0.25837	0.00015	0.000689
MCF2L2	-1.6002	0.477615	2.57E-05	0.000161
MCM10	3.116571	2.287668	7.65E-09	1.85E-07
MCM5	1.037973	4.841389	0.000525	0.001965
MCM6	2.063282	4.630357	2.10E-07	3.05E-06
MDFI	1.721999	4.87254	1.12E-09	3.58E-08
MDH1B	-1.32268	5.759216	5.89E-07	7.18E-06
MDM1	-1.11526	5.372873	1.38E-07	2.13E-06
MEIG1	-1.48268	2.157588	2.05E-06	2.00E-05
MELK	2.348763	3.269989	2.97E-10	1.19E-08
METRNL	1.066366	4.217878	0.000132	0.00062
METTL1	1.104376	3.134787	3.87E-08	7.30E-07
METTL7A	-1.02095	8.633883	6.03E-06	4.91E-05
METTL8	1.183634	3.782506	8.76E-08	1.45E-06
MEX3B	1.263339	0.992993	0.000584	0.002149
MFAP4	-2.17479	-0.33404	0.005361	0.013904
MFAP5	1.986405	1.190233	0.007018	0.017388
MFGE8	1.433754	5.778814	0.000101	0.000496
MFI2	2.095526	3.343097	8.08E-07	9.26E-06
MGAM	1.898565	4.48189	0.000665	0.00239
MGC16121	4.187093	-0.44333	4.02E-05	0.000233
MGC16275	-1.12181	-0.60076	0.001742	0.005401
MGC39372	1.820576	0.60779	0.005629	0.01448
MICA	1.306167	4.210823	1.00E-09	3.25E-08
MICAL2	2.171258	4.460187	2.48E-16	7.28E-14
MICALCL	2.00219	2.388217	3.59E-09	9.77E-08
MICALL1	1.140261	7.412793	2.95E-12	2.25E-10
MILR1	1.980092	-0.78936	0.006046	0.015372
MIR205HG	1.180304	5.353951	1.64E-07	2.48E-06
MIR34B	-1.42342	-0.57004	0.00013	0.000612
MIR34C	-1.35345	1.177474	9.05E-05	0.000456
MIR614	1.412153	1.300494	5.90E-05	0.000319
MKI67	2.572952	5.13384	4.76E-07	6.04E-06
MLF1IP	1.217393	3.09643	0.00132	0.004266
MLKL	1.830412	2.6283	7.43E-10	2.54E-08
MLLT11	1.873329	2.224902	2.90E-11	1.69E-09
MMP10	-2.27438	7.706874	0.005922	0.015116
MMP17	1.670193	1.156261	0.010227	0.02401
MMP28	2.198009	4.809977	1.86E-08	4.02E-07
MMP3	-2.62151	2.510046	0.000194	0.000855

MMRN2	3.393133	0.550681	2.42E-07	3.46E-06
MN1	1.822896	3.210606	9.24E-05	0.000464
MND1	1.752466	0.476526	4.23E-05	0.000243
MNS1	-1.26886	6.118484	1.91E-06	1.88E-05
MOB3B	1.573232	3.244188	3.27E-14	4.66E-12
MOGAT2	-1.97206	-0.66142	0.016508	0.035844
MORN3	-1.20067	4.802653	7.53E-06	5.88E-05
MORN5	-1.2419	6.664914	5.28E-06	4.39E-05
MPP3	1.625479	1.318187	1.57E-08	3.43E-07
MPV17L2	1.10839	3.719211	1.30E-14	2.15E-12
MPZ	1.395696	-0.4181	0.001189	0.003904
MRAP2	-1.08349	3.246254	0.015754	0.034443
MRC2	1.403117	5.717576	1.80E-06	1.79E-05
MREG	1.219019	3.91646	1.64E-05	0.000112
MROH6	2.099103	3.798314	4.95E-09	1.29E-07
MROH8	-1.18311	1.75659	6.30E-07	7.56E-06
MRT04	1.016178	5.458295	6.92E-10	2.41E-08
MRVI1	1.699193	-0.25123	0.000198	0.000867
MS4A8B	-1.40661	8.008773	6.67E-05	0.000355
MSMO1	1.258622	7.207503	3.37E-08	6.54E-07
MSN	1.861035	8.185124	4.89E-14	6.50E-12
MST1R	1.129771	6.220152	4.14E-10	1.58E-08
MSX1	2.402054	-0.11228	0.011486	0.026498
MT1L	2.26735	1.08081	3.81E-09	1.03E-07
MT2A	1.541527	7.553083	1.08E-09	3.46E-08
MTFR2	1.414568	0.693118	0.000272	0.001128
MTHFD1L	2.158271	4.535908	1.32E-16	4.22E-14
MTHFD2	1.079655	5.490185	3.85E-05	0.000224
MTMR7	-1.759	-0.09442	6.65E-05	0.000354
MTTP	-1.61929	1.35652	0.000201	0.000879
MTUS2	-1.56707	0.271334	0.021133	0.044032
MUC21	1.790545	4.715634	0.003354	0.009372
MVD	1.92579	6.592786	1.60E-19	1.26E-16
MXRA8	2.074025	-0.60107	0.011354	0.02622
MYB	-1.26791	5.478238	3.10E-06	2.80E-05
MYBL2	2.999492	3.465574	2.00E-09	5.94E-08
MYC	2.076208	6.258287	7.16E-13	6.30E-11
MYCBPAP	-1.37529	4.782199	0.000241	0.001018
MYCT1	-1.32766	3.203511	0.005235	0.01364
MYD88	1.059433	6.517436	2.34E-10	9.90E-09
MYEOV	3.261034	4.316574	3.04E-06	2.75E-05
MYH16	3.772831	-0.88024	3.87E-08	7.30E-07
MYH7B	-1.027	-0.67658	0.016216	0.035296
MYH9	1.583176	9.832483	1.03E-10	4.89E-09
MYL7	6.674775	-1.32715	1.49E-06	1.54E-05
MYL9	2.126603	6.683692	4.50E-07	5.78E-06

MYLIP	-1.11785	4.894651	1.95E-09	5.81E-08
MYLK3	-1.46814	2.598004	0.000517	0.00194
MYO18A	1.054894	6.51458	1.00E-08	2.32E-07
MYO19	1.075345	5.849249	2.58E-10	1.07E-08
MYO1B	1.279997	7.843015	3.21E-14	4.61E-12
MYO1C	1.372886	7.39476	3.28E-18	1.58E-15
MYO5A	1.241428	5.719307	4.60E-13	4.30E-11
MYOM3	1.898419	-0.34036	0.000161	0.000734
MYRF	1.347502	3.886016	0.000655	0.002358
MYRIP	-1.41239	1.520704	0.018978	0.040219
MYZAP	1.237906	0.871308	0.000718	0.002544
NABP1	2.376448	4.08226	5.01E-12	3.54E-10
NAPA-AS1	-1.00342	1.122321	0.000147	0.000679
NAT1	-1.05602	5.554238	2.21E-06	2.12E-05
NAV3	1.635348	-0.10855	0.001712	0.005322
NBEAL2	1.027346	7.686535	8.08E-06	6.22E-05
NCALD	-1.16703	4.889054	8.41E-05	0.000428
NCAM1	-2.49109	1.359562	0.007111	0.017556
NCAPG	2.761297	2.835505	4.59E-07	5.88E-06
NCAPH	1.768934	2.697723	5.29E-05	0.000293
NCCRP1	1.981256	5.618032	0.002743	0.007893
NCF4	2.069772	-0.32843	0.000524	0.001963
NCLN	1.101631	6.578245	2.06E-14	3.13E-12
NDC80	2.183577	2.291154	1.93E-05	0.000127
NDRG4	1.642741	1.215547	0.000336	0.001345
NDST1	1.276575	7.779286	4.30E-12	3.11E-10
NEB	1.026051	0.835779	0.004735	0.012541
NEDD4	1.191994	3.458899	2.98E-05	0.000182
NEFL	5.510178	-1.81431	0.000188	0.000831
NEGR1	-1.33887	1.77955	0.023733	0.048688
NEIL3	1.697996	0.193228	0.003275	0.009182
NEK10	-1.11827	5.636356	0.000377	0.001486
NEK5	-1.01585	5.325447	9.02E-05	0.000455
NELL1	-2.8757	-0.39731	0.013275	0.029926
NES	4.257984	1.087031	4.27E-08	7.92E-07
NETO2	1.547808	4.588474	1.23E-11	7.99E-10
NEXN	3.060043	1.005941	5.37E-07	6.66E-06
NFATC2	-1.01646	4.40029	0.000464	0.00177
NFKB2	1.309868	5.341894	8.83E-09	2.07E-07
NFKBID	1.29397	0.889497	9.44E-07	1.06E-05
NFKBIZ	1.415678	4.514909	0.000124	0.00059
NHLRC4	-1.14665	6.083953	3.04E-05	0.000185
NIPAL1	1.824204	2.560848	5.44E-07	6.74E-06
NIPAL4	4.243854	2.141019	1.33E-08	2.97E-07
NLE1	1.037901	3.673837	8.68E-09	2.04E-07
NLN	1.435619	4.132276	6.49E-15	1.21E-12

NLRP1	1.769601	4.169613	1.09E-06	1.19E-05
NLRP10	5.170695	0.549794	1.64E-08	3.57E-07
NMBR	-1.25241	-0.26623	0.000543	0.00202
NME1	1.514804	4.828851	1.17E-13	1.37E-11
NME5	-1.13181	5.909151	0.000221	0.000949
NME9	-1.32671	4.783243	1.91E-07	2.83E-06
NMU	1.595882	1.406667	0.001075	0.003575
NNMT	1.788397	1.121659	0.008184	0.019798
NOP16	1.493622	4.748654	2.48E-12	1.94E-10
NOP2	1.071353	5.769811	1.00E-13	1.20E-11
NOS1	2.336671	0.262686	0.0098	0.023131
NOTUM	-1.56011	-0.7582	0.010805	0.025127
NPC1	1.225504	5.957106	1.69E-13	1.81E-11
NPM3	1.328101	4.33635	3.62E-09	9.83E-08
NPR2	1.18112	0.869816	0.000623	0.002268
NRCAM	1.309351	2.954467	0.002696	0.007778
NRG1	2.680461	3.592368	2.02E-08	4.31E-07
NRG4	-1.14065	2.650978	0.017707	0.038022
NRGN	1.329606	-0.77	0.010141	0.023836
NRIP1	1.18034	5.338495	5.95E-09	1.49E-07
NSG1	1.736331	3.385475	0.000313	0.001265
NSUN7	-1.25981	5.742391	7.27E-06	5.73E-05
NT5DC2	1.124096	6.095512	4.40E-11	2.40E-09
NT5E	4.259744	3.58302	5.67E-12	3.93E-10
NTF3	-1.86426	-0.62137	0.001077	0.00358
NTM	1.943958	0.039349	0.018845	0.040022
NTRK2	-1.17432	0.789154	0.010349	0.02426
NUCB2	-1.3226	7.866279	4.55E-07	5.83E-06
NUDT10	2.397461	-0.90358	0.000121	0.000577
NUDT11	2.181774	0.902332	6.86E-10	2.40E-08
NUF2	1.640461	1.266842	0.001662	0.005188
NUSAP1	1.470622	3.510249	0.001213	0.003966
NWD1	-1.29775	8.724018	6.49E-06	5.22E-05
NXPH4	-1.02503	1.753439	0.00262	0.007599
OAF	1.002872	3.808192	1.75E-07	2.62E-06
OAS3	1.077098	5.580298	4.15E-06	3.59E-05
ODC1	1.196581	6.375168	1.89E-06	1.86E-05
OIP5	1.836345	0.298209	0.000141	0.000653
OLFM1	1.365795	-0.76594	0.01511	0.033285
OLFML2B	-2.52583	-0.69601	0.00138	0.004435
OLR1	3.589817	-1.11861	0.003521	0.009779
OPRL1	-1.34308	1.232779	0.012407	0.028294
OR7E37P	-1.71989	2.122662	4.74E-05	0.000268
ORC1	2.602716	2.017206	2.23E-07	3.22E-06
ORC6	2.055124	2.109809	3.94E-11	2.19E-09
OSBPL6	-1.42848	6.070489	0.00065	0.002345

OSGIN1	1.000474	4.214937	9.32E-05	0.000468
OTOP2	4.155375	-0.5155	3.15E-06	2.84E-05
OTOP3	2.958842	0.066448	0.00029	0.00119
OTUB2	1.099417	2.964186	0.00037	0.001464
OVCA2	1.046914	0.390194	0.00383	0.010488
OVCH2	2.892677	-0.97636	4.41E-05	0.000251
P2RY2	1.197487	5.067756	5.57E-07	6.87E-06
PACRG	-1.11221	6.015189	1.59E-05	0.000109
PADI1	2.21679	4.849575	0.00165	0.005154
PALD1	1.923147	-0.9438	0.006042	0.015367
PANX1	1.214168	4.83168	3.72E-10	1.45E-08
PAQR5	3.042185	2.09866	2.33E-05	0.000149
PAQR6	1.054128	1.097165	0.001932	0.005893
PARD6G	1.199929	4.272824	1.35E-06	1.41E-05
PARPBP	1.167157	1.256426	0.00021	0.000914
PARVB	1.64891	1.120531	1.74E-05	0.000117
PBK	1.958751	2.090399	0.000442	0.001699
PCDP1	-1.23169	6.842287	1.10E-05	8.04E-05
PCED1B	1.179533	1.167432	0.000312	0.001262
PCOLCE-AS	-1.25995	-0.01604	0.015133	0.033321
PCP4L1	-1.1366	3.082415	0.003719	0.010229
PCSK7	1.150615	6.156812	4.12E-15	7.90E-13
PCSK9	2.567555	4.270268	4.73E-10	1.78E-08
PDCD1LG2	3.106976	0.61457	6.48E-07	7.73E-06
PDE1A	-1.19056	0.873735	0.007099	0.017541
PDE6B	-1.00679	3.740124	2.50E-06	2.34E-05
PDF	1.094668	0.419649	0.000249	0.001047
PDGFB	1.274178	2.22093	0.021082	0.043938
PDGFD	-1.73052	0.752927	2.12E-05	0.000138
PDGFRA	1.233041	0.249589	0.010965	0.025441
PDK4	-1.02507	4.386331	4.78E-05	0.000269
PDLIM2	1.319065	5.007764	3.03E-06	2.75E-05
PDLIM7	1.938605	5.644174	3.76E-14	5.25E-12
PDPN	1.385288	5.338824	0.000136	0.000635
PDZK1IP1	2.657168	5.039838	2.23E-05	0.000143
PEA15	1.25946	7.174613	8.55E-09	2.02E-07
PEAR1	3.139883	0.190794	1.14E-08	2.60E-07
PELI2	-1.21338	3.230728	3.97E-06	3.44E-05
PENK	-4.09468	2.792823	0.000866	0.00298
PEX5L	-1.74719	-0.1108	0.000259	0.001081
PFN1	1.334746	9.138512	1.02E-18	5.87E-16
PGAM1	1.023358	8.247837	6.54E-11	3.27E-09
PGAM4	1.411512	-0.77618	0.012125	0.027753
PGBD5	2.143771	3.192749	2.31E-05	0.000147
PGLYRP3	2.138917	2.075002	0.010207	0.023968
PGLYRP4	2.352015	1.728978	0.000145	0.000672

PHACTR3	1.035181	3.537373	0.002727	0.007852
PHF19	1.492926	3.360051	9.56E-06	7.15E-05
PHKG1	-2.07875	1.701505	2.08E-08	4.42E-07
PHLDA1	2.688954	5.438531	2.54E-07	3.60E-06
PHLDA2	2.644966	4.766113	1.06E-19	9.29E-17
PHLDA3	1.172054	6.727931	4.54E-09	1.19E-07
PHLDB2	2.544016	5.509474	1.13E-14	1.92E-12
PHOSPHO1	-3.0505	-1.21406	0.001755	0.005432
PI3	2.143041	8.610449	0.004289	0.011532
PIEZO1	1.951036	7.221318	2.00E-17	8.09E-15
PIEZO2	-2.58838	-0.73477	0.001116	0.003693
PIF1	2.265623	0.378152	2.59E-05	0.000162
PIFO	-1.11828	8.687413	3.05E-07	4.16E-06
PIH1D2	-1.16687	5.383477	3.00E-06	2.72E-05
PIH1D3	-1.30614	5.010239	9.28E-07	1.04E-05
PIK3R1	-1.01837	6.16384	5.15E-05	0.000287
PINX1	1.157422	3.03146	9.37E-09	2.17E-07
PITPNC1	1.391365	4.174239	5.34E-08	9.50E-07
PITPNM2	2.052477	2.618722	7.95E-09	1.90E-07
PKIB	-1.78355	3.186335	1.24E-05	8.87E-05
PKMYT1	3.471324	2.961416	6.09E-11	3.07E-09
PKP1	1.962862	8.497207	1.40E-06	1.46E-05
PKP3	1.503863	7.385347	8.57E-14	1.06E-11
PLA2G4E	1.822073	2.131853	0.002165	0.006471
PLA2G4F	1.480086	2.843017	0.002544	0.007423
PLAU	3.120443	6.693403	7.04E-10	2.44E-08
PLAUR	2.152117	4.165073	4.32E-08	8.00E-07
PLCB3	1.333283	6.229319	1.71E-13	1.82E-11
PLCB4	-1.05939	6.033217	1.94E-05	0.000128
PLCD3	1.480347	6.102705	2.37E-09	6.88E-08
PLCH1	-1.06651	5.817699	0.000262	0.001091
PLCH2	1.557175	6.191419	2.33E-08	4.83E-07
PLEC	1.399519	9.488417	7.15E-09	1.73E-07
PLEK2	1.431677	4.586879	1.86E-06	1.83E-05
PLEKHB1	-1.24786	7.558326	3.52E-06	3.12E-05
PLEKHD1	-1.44522	0.005047	0.002591	0.007535
PLEKHG2	1.508932	4.126299	4.36E-12	3.12E-10
PLEKHG3	1.085321	6.127165	5.04E-12	3.54E-10
PLEKHG5	1.878427	5.401045	4.08E-11	2.24E-09
PLEKHN1	2.355712	3.545302	9.01E-11	4.39E-09
PLEKHO1	1.046863	2.034914	0.000177	0.000792
PLK1	2.652069	3.621129	4.28E-09	1.13E-07
PLK2	1.094268	7.362245	5.07E-06	4.25E-05
PLK3	1.540313	3.814486	6.80E-16	1.70E-13
PLP2	1.082327	6.972058	2.83E-12	2.18E-10
PLS3	1.364678	7.855276	1.31E-10	6.05E-09

PLSCR4	-1.07552	3.784847	1.46E-06	1.52E-05
PLXNA1	1.153273	7.871442	5.61E-14	7.23E-12
PLXNA3	1.242832	5.818886	8.95E-10	2.96E-08
PLXNB3	1.23341	3.808811	9.54E-08	1.56E-06
PNCK	-2.55911	-0.04003	2.40E-05	0.000152
PNLDC1	-1.44085	1.012361	0.001303	0.004222
PNLIPRP3	2.26516	2.551738	0.000654	0.002357
PNP	1.19035	6.01283	1.27E-10	5.89E-09
PNPLA3	2.218013	2.140351	1.37E-07	2.12E-06
PODN	-2.66247	-0.65193	0.003117	0.008804
POLE2	2.219816	0.582003	7.41E-06	5.81E-05
POLR3G	1.092539	1.460287	7.15E-06	5.65E-05
PON3	-1.1808	0.534523	0.010662	0.02489
POP1	1.465963	4.143121	5.08E-16	1.41E-13
PORCN	1.293236	5.756519	3.02E-08	5.97E-07
POU2F2	1.397575	0.362021	0.000302	0.001231
PPARGC1A	-1.08443	4.77043	0.001495	0.004747
PPBP	5.408217	-0.71172	1.88E-08	4.05E-07
PPFIBP1	1.004396	5.241047	0.000191	0.000844
PPIA	1.076832	9.682597	2.92E-14	4.28E-12
PPIL6	-1.07324	6.897474	0.000141	0.000657
PPM1F	1.019168	4.762926	1.62E-08	3.54E-07
PPM1H	-1.03656	7.209308	2.05E-10	8.87E-09
PPP1R14B	1.837058	6.299354	8.31E-20	8.28E-17
PPP1R18	2.193269	4.904208	1.39E-13	1.55E-11
PPP1R1C	1.081818	0.289639	0.001288	0.004178
PPP1R32	-1.22099	5.755466	0.001365	0.004393
PPP1R36	-1.10317	3.337579	0.000823	0.002856
PPP1R42	-1.16712	3.210612	0.000209	0.00091
PPP2R2C	3.402833	1.769884	5.38E-06	4.45E-05
PPRC1	1.059009	5.638344	1.02E-13	1.21E-11
PRC1	1.972326	4.363769	1.52E-06	1.56E-05
PRDM1	1.432409	2.39679	0.000577	0.002127
PRELID1	1.028518	6.808619	6.51E-12	4.45E-10
PRIMA1	-2.88386	-0.21849	0.000558	0.002066
PRKAR1B	1.439465	3.440053	1.26E-13	1.43E-11
PRKCDBP	1.556107	4.299559	5.94E-07	7.22E-06
PRKCQ	1.146423	0.69523	0.004478	0.011947
PRMT8	-1.26209	1.603094	0.004455	0.011893
PROCA1	-1.02808	1.258308	0.000816	0.002835
PROCR	3.39665	2.8741	1.17E-15	2.69E-13
PROM2	1.049993	7.772314	0.000739	0.002613
PROS1	-1.45839	6.706807	0.000929	0.003156
PRR11	2.695907	3.172457	3.77E-13	3.57E-11
PRR18	-1.28271	2.679407	0.00486	0.012822
PRRT3	-1.01465	5.791259	4.04E-05	0.000234

PRSS22	1.139165	6.638013	8.14E-05	0.000417
PRSS27	2.04888	2.107229	0.001081	0.003594
PRSS3	2.929539	2.911829	0.000124	0.000589
PSD	-1.02568	2.474529	0.004896	0.012895
PSG5	4.146292	-0.95524	1.18E-06	1.27E-05
PSIP1	-1.02334	5.548282	1.02E-05	7.55E-05
PSRC1	1.015975	1.821956	0.005532	0.014269
PSTPIP2	1.362256	4.040309	2.76E-07	3.85E-06
PTAFR	1.158552	5.901378	0.00055	0.00204
PTCHD2	3.461756	-0.40476	3.89E-07	5.11E-06
PTGFR	-1.66949	4.716968	0.000781	0.002736
PTGFRN	1.109124	7.27383	4.40E-09	1.16E-07
PTGS1	2.615471	1.766865	0.000344	0.001372
PTHLH	1.951709	5.906006	0.000797	0.002784
PTK6	1.030367	5.039422	0.003353	0.009372
PTN	-1.50299	2.851305	0.006019	0.015324
PTPLA	1.679342	1.611639	5.42E-12	3.79E-10
PTPRD	2.559396	1.82456	1.95E-05	0.000128
PTPRE	1.105319	4.237904	8.81E-09	2.07E-07
PTPRH	1.480602	2.122006	0.001456	0.004641
PTPRN2	-1.00549	5.29115	0.005101	0.013339
PTRF	2.078559	7.82287	5.83E-16	1.53E-13
PTTG1	1.356563	4.133068	2.73E-08	5.53E-07
PTX3	2.435584	-1.27083	0.018519	0.039443
PVR	1.907317	6.011119	6.10E-17	2.23E-14
PXDN	1.373844	6.334922	5.14E-05	0.000286
PYGB	1.78914	8.427216	3.66E-09	9.92E-08
PZP	-1.24682	6.428337	0.006755	0.016826
RAB27B	1.304223	5.314444	3.33E-07	4.49E-06
RAB32	2.276516	3.845852	1.20E-19	1.00E-16
RAB38	1.301765	4.739649	3.11E-06	2.81E-05
RAB3B	-1.68387	3.534527	5.62E-05	0.000307
RAB44	-1.13632	0.661799	0.004077	0.011052
RAB9B	-1.1819	-0.29531	0.007451	0.018292
RABL2A	-1.22436	4.70416	1.69E-06	1.70E-05
RAC2	2.787482	4.287009	7.14E-10	2.46E-08
RACGAP1	1.281195	4.512511	6.04E-07	7.32E-06
RAD51	1.899126	1.818631	3.14E-05	0.000189
RAD51AP1	1.113199	1.494828	0.00528	0.013739
RAD54L	1.91889	1.614724	4.59E-05	0.00026
RAET1G	1.255275	3.817109	0.001396	0.004476
RAET1L	2.494705	2.048541	8.68E-05	0.00044
RANGAP1	1.007003	7.033258	3.14E-13	3.03E-11
RAP1GDS1	1.155574	5.127566	4.77E-11	2.56E-09
RAP2B	1.401041	4.952475	5.65E-11	2.95E-09
RAPGEF3	2.017719	3.082129	1.72E-06	1.73E-05

RASAL1	1.809987	1.598898	0.001956	0.005949
RASGEF1A	1.139411	0.709581	0.010559	0.024693
RASGEF1B	-1.05383	4.454252	1.59E-06	1.62E-05
RASGRP1	1.396099	0.611735	0.007604	0.018601
RASL11B	1.962331	1.038573	2.02E-07	2.96E-06
RBM3	1.156995	6.681491	2.07E-09	6.09E-08
RBM43	-1.06986	4.521022	2.00E-07	2.94E-06
RBP1	2.42707	4.412121	1.25E-07	1.97E-06
RCAN3AS	-1.08967	1.48681	2.71E-05	0.000168
RDH12	2.474948	1.209852	0.002205	0.006572
RECQL4	1.51607	3.228744	5.93E-07	7.22E-06
RELB	1.131287	3.907473	1.57E-06	1.60E-05
RELL2	1.234369	3.382013	1.11E-07	1.77E-06
RELT	1.302069	2.021013	1.22E-06	1.31E-05
RFX2	-1.03597	7.045751	7.98E-05	0.00041
RGS10	1.279661	3.279751	3.57E-09	9.73E-08
RGS2	1.672468	2.660572	0.00011	0.000535
RGS20	3.186001	2.230977	2.35E-19	1.76E-16
RGS22	-1.25369	5.34133	0.000543	0.002019
RGS4	-1.20654	1.386281	0.001279	0.004153
RGS5	-1.18278	2.519967	5.29E-06	4.39E-05
RGS7BP	-1.77987	0.193549	0.020391	0.042735
RHBDF2	1.067049	5.120566	2.52E-07	3.58E-06
RHCE	-1.24425	0.0423	0.018157	0.038782
RHCG	3.249683	5.19731	0.00977	0.023076
RHOD	1.688762	6.514912	4.59E-17	1.72E-14
RHOF	2.15311	3.315786	0.000178	0.000794
RIBC1	-1.07659	6.226322	0.000691	0.002465
RIBC2	-1.07432	5.675168	2.59E-07	3.66E-06
RIIAD1	-1.02341	3.784998	0.000224	0.000959
RIMKLA	-1.36416	1.7846	5.37E-05	0.000296
RIMS2	1.717706	0.579503	0.015718	0.034388
RIMS3	2.033451	1.571566	3.09E-07	4.21E-06
RLN2	-1.07906	0.19121	0.001723	0.005352
RMI2	1.264443	1.279572	0.000876	0.003008
RNASE4	-1.30179	4.319603	6.94E-05	0.000366
RNASE7	3.487756	2.388465	5.40E-11	2.85E-09
RND1	1.916172	0.613919	0.000314	0.001269
RND2	-1.04568	3.079035	0.000409	0.00159
RND3	1.342251	6.610045	3.68E-12	2.74E-10
RNF130	-1.06047	6.241206	3.40E-12	2.56E-10
RNF222	4.089	-0.551	5.72E-05	0.000311
RNF32	-1.33301	2.563608	8.14E-06	6.26E-05
ROPN1B	-1.5192	2.117068	0.000117	0.000562
RORC	-1.14611	5.185059	2.55E-06	2.37E-05
ROS1	2.196821	1.918215	0.004102	0.0111

RP1	-1.53034	4.39208	5.55E-06	4.57E-05
RPGR	-1.02749	5.802814	1.24E-06	1.32E-05
RPL22L1	1.195471	4.57956	8.31E-08	1.39E-06
RPL35	1.042494	8.239983	4.73E-08	8.55E-07
RPS6KA4	1.663715	6.051098	1.25E-18	6.91E-16
RPS6KA5	-1.26243	4.460685	6.45E-11	3.24E-09
RPSAP52	3.899623	0.067637	5.32E-08	9.49E-07
RPTN	4.201156	5.070548	0.00012	0.000575
RRAS	1.304081	5.092578	6.89E-08	1.18E-06
RRM2	2.452304	4.833711	1.71E-07	2.57E-06
RSPH1	-1.14351	8.746197	1.40E-05	9.84E-05
RSPH4A	-1.0759	8.068255	2.91E-06	2.65E-05
RSPH9	-1.12185	6.109859	0.000101	0.0005
RTDR1	-1.24934	4.522905	0.000312	0.001262
RTKL1	1.13691	0.506043	8.74E-06	6.64E-05
RTKN	1.400762	5.405699	1.09E-16	3.63E-14
RTKN2	1.602895	1.884852	6.98E-05	0.000367
RTN4R	1.409822	2.272729	1.86E-14	2.93E-12
RUNDC3A	4.206846	0.038118	2.30E-07	3.32E-06
S100A10	2.034298	9.06916	2.42E-13	2.41E-11
S100A12	3.601486	1.269491	0.001401	0.004491
S100A14	2.647027	8.80179	6.07E-13	5.44E-11
S100A16	2.481529	8.764566	6.63E-14	8.40E-12
S100A2	3.226983	10.96436	1.08E-24	2.02E-21
S100A3	2.679222	2.097202	3.23E-13	3.09E-11
S100A7	6.872562	4.801391	9.02E-06	6.82E-05
S100A7A	7.59917	1.534061	0.000838	0.002898
S100A8	2.972114	8.08527	0.002969	0.008456
S100A9	2.366092	9.766787	0.000997	0.003351
S1PR3	2.922404	3.182088	1.77E-07	2.65E-06
S1PR4	-1.137	0.444685	0.000898	0.00307
SAA1	2.276741	8.130142	0.000652	0.002352
SAA2	2.406603	6.691292	0.000808	0.002813
SAA4	2.727581	-1.27092	0.000669	0.002402
SACS	1.919315	2.792353	1.94E-10	8.55E-09
SALL2	-1.02379	2.212319	0.000267	0.00111
SAMD4A	1.856338	3.937572	2.16E-11	1.31E-09
SAMD9	1.09722	6.116879	0.002205	0.006572
SAMHD1	-1.0003	8.117817	1.03E-05	7.63E-05
SBSN	4.001433	5.489477	0.002053	0.006187
SCARB1	1.453834	5.352663	6.39E-12	4.39E-10
SCD	1.937935	9.797667	2.19E-18	1.13E-15
SCEL	3.400327	6.621218	6.69E-07	7.91E-06
SCG3	-1.2136	0.554129	0.006093	0.015473
SCGB1A1	-1.83431	11.58095	0.000157	0.000719
SCGB2A1	-1.64429	4.033009	0.000918	0.003126

SCN11A	-1.00677	-0.52051	0.008326	0.020109
SCN1B	-1.42679	0.610716	0.000288	0.001183
SCN2B	-1.15228	0.718089	0.007061	0.017469
SCNN1G	-1.45045	2.504572	0.00066	0.002375
SCUBE3	-1.03619	0.440274	0.000832	0.002882
SDC1	1.421561	9.494239	2.39E-08	4.95E-07
SDC3	1.309719	4.916203	0.000182	0.00081
SEC14L2	1.72133	6.386549	2.68E-05	0.000167
SEC14L5	-1.27005	3.529315	0.01068	0.024917
SELENBP1	-1.15448	7.742929	3.36E-06	2.99E-05
SELPLG	-1.0183	3.793938	0.001486	0.004725
SEMA3B	2.029309	2.687817	2.04E-06	1.99E-05
SEMA3E	-1.11458	1.912267	0.002882	0.008239
SEMA7A	2.886661	3.498678	1.22E-08	2.74E-07
SEPP1	-1.09692	6.33226	0.000163	0.00074
SERPINA5	-1.51891	0.732936	0.006652	0.016625
SERPINB1	1.08752	8.630334	4.28E-07	5.53E-06
SERPINB13	1.886521	6.090285	7.97E-06	6.16E-05
SERPINB2	2.956429	8.337199	1.53E-07	2.33E-06
SERPINB5	2.159826	8.638673	9.54E-11	4.57E-09
SERPINB7	2.559837	5.595155	3.60E-06	3.17E-05
SERPINB8	1.177971	5.534596	9.41E-10	3.09E-08
SERPINB9	1.499736	2.65461	0.000257	0.001074
SERPINE1	3.759971	6.4384	2.88E-10	1.16E-08
SERPINE2	2.209225	4.861934	3.65E-07	4.85E-06
SERPINF1	-1.4795	8.010985	1.48E-05	0.000103
SERPINF2	-1.02235	3.367742	0.002782	0.007995
SERPINI2	-1.20666	1.65592	0.004095	0.011087
SERTAD4	-1.26938	4.423394	4.48E-08	8.20E-07
SFN	2.910701	9.437529	4.88E-16	1.38E-13
SFTA1P	4.116845	1.377151	7.20E-10	2.47E-08
SFTPB	-1.16383	0.267762	0.001865	0.005722
SGK223	1.408178	5.290076	7.54E-09	1.82E-07
SGOL1	1.073236	0.908712	0.00604	0.015367
SGPP1	1.058985	2.612147	1.23E-05	8.81E-05
SH2D3A	1.300391	5.748993	1.15E-15	2.69E-13
SH2D5	6.703884	2.58723	1.31E-16	4.22E-14
SH3BGRL3	1.435822	8.049364	9.29E-15	1.65E-12
SH3BP1	1.307748	5.477674	6.19E-10	2.21E-08
SH3GL1	1.001053	7.052168	1.30E-09	4.06E-08
SH3RF3	-1.43767	3.043092	0.002044	0.006163
SH3TC1	2.148689	3.92485	1.10E-10	5.19E-09
SH3TC2	3.100558	3.651668	2.59E-13	2.57E-11
SHC1	1.322909	8.165853	2.61E-12	2.02E-10
SHCBP1	3.071466	2.281938	5.40E-09	1.37E-07
SHISA2	-1.74876	2.562216	1.83E-06	1.82E-05

SHISA9	-1.13904	2.524427	0.004222	0.011368
SHROOM1	1.06979	2.664936	1.30E-05	9.21E-05
SIAH3	-1.16628	2.521861	0.01995	0.041923
SIGMAR1	1.108271	6.079055	1.74E-13	1.83E-11
SIRPA	1.131858	5.708937	1.51E-07	2.31E-06
SIRPB2	2.347621	-0.30867	8.29E-07	9.49E-06
SKA1	1.923978	1.394915	2.34E-05	0.000149
SKA3	1.390806	1.867525	0.001239	0.00404
SLA2	-1.41344	0.006932	0.000181	0.000807
SLAMF9	4.312676	-1.5102	1.35E-07	2.10E-06
SLC10A6	1.876289	0.11888	0.000401	0.001561
SLC12A8	1.24532	3.220487	0.000995	0.003346
SLC13A2	-1.89094	2.544867	0.020217	0.042406
SLC13A5	1.970549	1.767073	0.000305	0.001242
SLC16A1	1.828071	5.069185	1.48E-10	6.69E-09
SLC16A11	-1.62298	2.720048	9.19E-07	1.04E-05
SLC16A2	1.342659	4.885286	8.41E-08	1.40E-06
SLC16A4	1.387372	2.806288	1.24E-05	8.86E-05
SLC19A1	1.522473	1.848076	3.84E-07	5.07E-06
SLC22A3	3.555577	1.591269	4.36E-08	8.05E-07
SLC22A4	-1.60727	5.584318	2.18E-08	4.57E-07
SLC23A1	-1.59711	6.243857	0.001488	0.004731
SLC23A3	1.964799	-0.06102	1.53E-05	0.000106
SLC25A15	1.186698	3.095706	2.71E-09	7.71E-08
SLC25A21	1.020525	-0.37969	0.00401	0.010911
SLC25A5-A	-1.04685	1.067664	3.76E-05	0.00022
SLC26A1	-1.21832	-0.79659	0.004178	0.01127
SLC26A2	-1.24925	6.518374	0.013151	0.029689
SLC26A4	3.609415	0.084698	5.40E-05	0.000297
SLC26A6	1.211638	4.199189	1.22E-10	5.69E-09
SLC27A4	1.619493	5.486949	1.19E-13	1.38E-11
SLC2A3	-1.37457	-1.01493	0.012654	0.028775
SLC2A6	3.260377	3.341126	1.52E-13	1.64E-11
SLC2A9	1.468958	3.813456	3.51E-05	0.000208
SLC30A4	1.900629	-0.12615	6.49E-06	5.22E-05
SLC35F2	1.75645	4.245625	3.04E-07	4.16E-06
SLC35G2	1.807206	0.471842	6.05E-05	0.000326
SLC37A2	1.386486	4.489572	0.000111	0.000538
SLC38A5	1.474926	6.426352	1.15E-06	1.24E-05
SLC39A14	1.382319	4.966269	2.75E-17	1.08E-14
SLC39A2	2.636963	1.371361	0.002651	0.007673
SLC3A2	1.418367	7.047833	5.99E-14	7.66E-12
SLC47A2	-1.47892	3.031153	0.010026	0.023595
SLC4A3	1.63962	3.046949	6.82E-08	1.17E-06
SLC4A8	-1.34729	5.267092	0.005912	0.015093
SLC51B	-1.52013	2.581782	5.72E-07	7.02E-06

SLC52A3	1.181303	2.815741	0.008199	0.019832
SLC6A11	4.583484	0.26796	4.14E-07	5.38E-06
SLC6A14	1.821431	7.144997	7.42E-06	5.81E-05
SLC6A15	1.428219	2.750133	0.005643	0.014509
SLC6A16	-1.27055	2.169762	1.63E-05	0.000111
SLC7A11	1.946103	3.591186	8.98E-06	6.80E-05
SLC7A2	-1.34952	7.037051	0.000205	0.000897
SLC7A5	3.242596	7.480023	7.90E-13	6.75E-11
SLC9B2	1.19998	2.68929	1.21E-07	1.91E-06
SLCO3A1	1.031591	5.234347	3.32E-06	2.96E-05
SLCO4C1	-1.11202	4.22743	0.000917	0.003124
SLIT1	-1.45283	2.873902	1.64E-05	0.000112
SLIT2	-1.7761	-1.09792	0.014759	0.032628
SLURP1	2.847003	1.324306	0.008553	0.020552
SMAD6	-1.56413	0.702785	0.000307	0.001247
SMAD9	-1.24463	2.96009	0.006693	0.016711
SMIM1	-1.64641	0.355546	3.82E-07	5.04E-06
SMOC2	-2.21499	-0.0773	0.000931	0.003162
SMTN	3.070895	4.77114	1.71E-16	5.34E-14
SNAI2	1.488802	4.97915	1.63E-09	5.01E-08
SNCG	1.924208	2.005465	0.000139	0.000649
SNED1	-1.03653	4.172358	0.000469	0.001789
SNHG1	1.196558	4.129694	3.27E-06	2.92E-05
SNHG12	1.336907	2.886035	2.71E-11	1.59E-09
SNHG15	1.04302	3.13318	5.11E-07	6.39E-06
SNORA61	2.094922	-0.6616	6.82E-06	5.43E-05
SNORA67	1.773212	0.034094	7.56E-06	5.90E-05
SNORA70	1.529252	0.494852	7.01E-07	8.20E-06
SNORD104	1.39015	-0.50757	0.000148	0.000682
SNORD22	1.089895	-0.8993	0.02272	0.046947
SNORD36A	1.484755	-0.1755	3.51E-05	0.000208
SNORD76	1.263085	-0.76902	0.001776	0.005487
SNPH	1.003403	2.779935	0.001824	0.00561
SNTN	-1.29905	8.059136	1.13E-06	1.22E-05
SNX10	1.450072	-0.56271	0.003156	0.008908
SNX29P2	-1.7301	-0.77412	0.017354	0.037394
SOBP	-1.08823	4.475159	0.000153	0.0007
SOCS2	1.21609	1.903368	0.001993	0.006037
SORD	-1.26882	7.213747	4.58E-06	3.90E-05
SOSTDC1	-2.09548	0.430086	0.009237	0.021983
SOWAHB	1.189394	4.883888	2.21E-06	2.12E-05
SOWAHC	1.247789	5.094055	5.64E-13	5.16E-11
SOX15	1.73891	4.81426	1.30E-10	5.98E-09
SOX2	-1.04586	6.831571	9.07E-09	2.12E-07
SOX2-OT	-1.38689	2.54207	2.95E-07	4.05E-06
SOX21	-1.00382	4.084584	2.52E-05	0.000158

SOX5	-1.08052	2.215446	0.014248	0.031715
SOX7	1.007341	4.054257	0.000113	0.000547
SP6	2.227017	2.746857	9.34E-07	1.05E-05
SPAG16	-1.0839	5.350918	7.21E-08	1.22E-06
SPAG17	-1.06196	6.72802	0.00744	0.018269
SPAG6	-1.05917	8.169842	2.01E-05	0.000132
SPARCL1	-2.20556	0.114548	0.003539	0.009812
SPATA4	-1.3452	3.723151	8.53E-07	9.71E-06
SPATA6	-1.15991	5.777938	3.64E-06	3.20E-05
SPATS1	-1.41626	3.44393	6.52E-06	5.24E-05
SPC24	2.477195	0.028192	1.20E-05	8.62E-05
SPC25	1.44661	0.80385	0.002229	0.00663
SPEF2	-1.15934	6.371144	6.63E-06	5.31E-05
SPEG	1.179842	2.025696	0.001107	0.00367
SPHK1	3.394785	4.335219	3.05E-11	1.75E-09
SPINK5	2.604087	6.676059	0.008727	0.020922
SPINK7	6.741988	2.32808	0.017325	0.037347
SPNS2	2.034456	5.625406	1.70E-05	0.000115
SPOCD1	3.19746	2.646748	8.80E-06	6.68E-05
SPOCK1	1.999669	3.814211	6.00E-05	0.000323
SPP1	-2.19269	-0.29659	0.011873	0.027258
SPRED3	1.900687	0.759828	9.66E-07	1.08E-05
SPRR1A	3.392725	6.699197	0.002748	0.007905
SPRR1B	3.504163	8.177056	7.84E-06	6.08E-05
SPRR2A	3.82845	4.254708	0.000662	0.002381
SPRR2B	4.921031	-1.34455	0.008875	0.021231
SPRR2C	3.301642	-0.94555	0.002223	0.006619
SPRR2D	4.274898	5.426664	7.88E-05	0.000406
SPRR2E	5.016756	4.516438	0.00103	0.003448
SPRR2F	3.502008	-0.08927	0.012575	0.028607
SPRR2G	4.945269	-0.62489	0.005018	0.013169
SPRR3	3.657616	7.942388	0.013466	0.030272
SPRY4	2.701579	1.676598	2.85E-06	2.61E-05
SPTBN5	1.780652	1.712689	1.12E-05	8.20E-05
SPTSSB	1.830923	3.837075	0.003072	0.008699
SQRDL	1.088406	6.830721	3.57E-11	2.01E-09
SRM	1.584586	5.696025	2.32E-15	4.85E-13
SRPX	2.997467	0.510671	1.24E-06	1.32E-05
SRPX2	2.256158	4.872692	4.13E-09	1.10E-07
SRXN1	1.051017	6.369309	2.42E-10	1.02E-08
SSC5D	-1.62212	1.629818	2.24E-05	0.000144
ST6GALNA	1.41043	-0.86994	0.013197	0.029779
ST8SIA4	-1.26288	5.025628	0.004945	0.013013
STAC	1.614427	0.366022	0.005288	0.013755
STAC2	-1.37878	0.641591	0.004145	0.011191
STARD4	1.117206	4.211602	2.82E-08	5.67E-07

STARD5	1.063628	3.331903	1.26E-07	1.98E-06
STAT4	1.017856	1.360264	0.010366	0.024292
STC1	-2.40682	2.188505	0.001355	0.004363
STC2	2.912261	3.578096	2.62E-06	2.43E-05
STK33	-1.19132	6.267859	5.80E-05	0.000315
STK4-AS1	-1.01684	-0.20639	0.000705	0.002504
STMN1	1.086031	5.182945	8.63E-05	0.000438
STMN3	1.31768	3.589598	0.000245	0.001035
STMND1	-1.29095	5.573097	2.43E-06	2.29E-05
STOML3	-1.19976	7.103481	4.47E-05	0.000254
STOX1	-1.28417	6.150659	2.03E-07	2.98E-06
STRA6	1.147072	4.481692	0.01937	0.040911
STRIP2	3.508	2.123342	2.00E-14	3.09E-12
STXBP6	-1.45338	2.687363	0.003269	0.009172
SULT1E1	-1.41827	3.500567	0.008532	0.020514
SVEP1	1.906158	0.029841	0.013862	0.031039
SVOPL	-1.1434	2.728272	8.53E-05	0.000434
SYCP2	-1.04158	0.71902	0.006263	0.015813
SYNC	1.292939	3.146328	1.84E-07	2.74E-06
SYNE3	-1.38104	1.108741	0.001945	0.005925
SYTL3	-1.21049	6.163661	5.50E-08	9.76E-07
TACC3	1.629514	4.210393	3.68E-06	3.23E-05
TACR1	-1.71898	3.173045	0.000751	0.002647
TAGAP	1.143466	-0.2349	0.014407	0.031983
TAGLN	3.713675	7.470048	9.07E-11	4.39E-09
TAP2	1.019065	6.245097	1.80E-09	5.45E-08
TAPT1-AS1	-1.14217	1.50298	6.14E-07	7.42E-06
TBC1D2	1.139475	6.9491	7.47E-07	8.68E-06
TCEA3	-1.04216	4.266043	0.001514	0.004794
TCF19	1.601048	3.812991	2.26E-05	0.000145
TCTE1	-1.11932	5.434521	2.11E-05	0.000137
TCTEX1D4	-1.29749	4.615011	0.000101	0.000496
TCTN1	-1.00908	7.093674	9.74E-08	1.59E-06
TCTN2	-1.0432	6.279005	8.94E-05	0.000452
TDRD1	-1.10325	0.645922	0.012001	0.027512
TEAD4	1.142208	2.867084	3.63E-06	3.20E-05
TEKT1	-1.23039	7.80994	1.10E-06	1.19E-05
TEKT2	-1.14128	6.982192	2.47E-05	0.000156
TEKT3	-1.19002	3.082669	0.00022	0.000944
TEKT4	-1.13075	5.035064	0.000161	0.000733
TENM2	2.5976	5.824431	5.72E-05	0.000311
TENM3	1.103643	0.869903	0.015618	0.034194
TEPP	1.223581	-0.62739	0.003237	0.009093
TEX26	-1.15398	5.346898	0.001352	0.004354
TEX9	-1.16589	4.791631	1.77E-05	0.000119
TF	-2.61634	2.392938	0.000409	0.00159

TFF3	-2.63653	5.629993	4.20E-07	5.44E-06
TFPI2	2.631278	4.249681	7.99E-12	5.36E-10
TGFA	1.198054	6.36286	1.82E-10	8.12E-09
TGFB1	1.202248	5.429006	8.98E-07	1.02E-05
TGFB1I1	2.252078	3.208802	3.02E-08	5.97E-07
TGFBI	2.426209	7.532118	6.23E-09	1.55E-07
TGM1	2.361771	7.158485	1.41E-07	2.17E-06
TGM4	4.276122	1.571304	1.35E-08	3.01E-07
TGM5	1.779018	3.190306	0.00134	0.004319
THBD	1.831263	4.748312	2.30E-05	0.000147
THBS1	3.395037	8.394478	2.68E-11	1.59E-09
THBS2	2.228673	0.986221	0.020611	0.043106
THEM5	4.04814	-0.85684	0.005007	0.013142
THEMIS2	1.756095	1.326074	6.96E-05	0.000367
THRA	-1.14083	4.856514	1.33E-09	4.17E-08
THSD1	3.390629	2.980527	3.41E-09	9.39E-08
TIAM1	1.737226	3.807731	1.27E-05	9.01E-05
TIAM2	2.187115	0.192541	0.000262	0.001091
TICAM1	1.193639	4.918338	1.18E-08	2.67E-07
TICRR	2.498758	1.794982	1.49E-06	1.54E-05
TIGD7	-1.03719	2.163925	1.14E-06	1.23E-05
TIMP1	1.90155	7.52018	5.06E-10	1.88E-08
TIMP2	2.021457	6.024634	7.31E-07	8.52E-06
TIMP3	1.22917	5.723754	2.53E-07	3.59E-06
TINAGL1	3.015275	7.358513	2.84E-13	2.76E-11
TINCR	1.058964	3.225258	0.003305	0.009255
TK1	1.739556	4.100305	1.60E-05	0.00011
TLE6	-1.20778	-0.13488	0.001458	0.004648
TLL2	2.254763	1.87673	8.34E-06	6.40E-05
TM4SF1	2.508856	7.094298	6.13E-11	3.09E-09
TMBIM1	1.386771	8.595942	1.05E-10	4.99E-09
TMC7	1.993622	2.449207	4.37E-12	3.12E-10
TMC8	1.28257	0.378065	0.002413	0.00709
TMCC3	2.401265	3.993553	5.85E-09	1.47E-07
TMEM121	-1.1685	2.122141	5.16E-06	4.31E-05
TMEM132	1.11252	6.645481	2.89E-05	0.000178
TMEM150	-1.19641	2.987967	0.000286	0.001177
TMEM156	1.263484	0.466145	0.006157	0.015593
TMEM171	1.819516	0.279197	0.000178	0.000795
TMEM190	-1.18193	7.100673	0.006119	0.015523
TMEM191	1.487966	0.37321	4.81E-06	4.07E-05
TMEM198	1.235234	1.514721	5.11E-05	0.000285
TMEM212	-1.15301	5.357137	7.94E-05	0.000408
TMEM213	-1.44221	4.197556	0.005502	0.014215
TMEM232	-1.28884	5.647045	1.86E-05	0.000124
TMEM40	1.419527	5.499198	4.09E-08	7.64E-07

TMEM51-A	1.803585	1.937115	9.51E-06	7.13E-05
TMEM67	-1.14397	5.996364	6.21E-06	5.03E-05
TMEM79	1.604794	5.156271	1.69E-05	0.000114
TMPRSS11	4.643794	2.921475	0.001467	0.004671
TMPRSS11	2.623834	3.439454	0.006977	0.017303
TMPRSS11	2.432362	-0.08007	0.004895	0.012895
TMPRSS7	-1.15849	0.589954	3.97E-05	0.00023
TMSB10	2.052795	9.633442	1.62E-21	1.86E-18
TMSB4X	1.886916	9.329098	4.36E-12	3.12E-10
TNF	2.392048	-1.17493	0.017358	0.037396
TNFAIP1	1.049787	6.649304	5.96E-11	3.05E-09
TNFAIP2	1.189245	6.243844	0.002623	0.007604
TNFAIP8L1	-1.05462	7.970309	1.11E-05	8.11E-05
TNFRSF10A	1.68468	3.874237	1.92E-10	8.48E-09
TNFRSF10C	1.195721	5.418044	6.70E-07	7.92E-06
TNFRSF12A	2.147705	6.952472	9.98E-20	9.29E-17
TNFRSF25	1.790896	3.024613	9.21E-09	2.15E-07
TNFSF14	2.223402	0.834963	1.65E-05	0.000112
TNFSF9	1.774576	3.172969	1.33E-15	3.02E-13
TNNT2	2.329675	-1.09252	0.001602	0.005026
TNS1	-1.29137	7.442802	0.002066	0.006221
TNS4	1.665965	8.195302	4.58E-12	3.25E-10
TOB1-AS1	-1.00379	0.22032	7.29E-05	0.00038
TONSL	1.259586	3.255157	2.28E-06	2.18E-05
TOP2A	1.621648	4.867397	0.000818	0.00284
TOX3	-1.28981	4.373793	0.000631	0.00229
TP73	-1.06887	6.652043	2.18E-06	2.10E-05
TPCN2	1.182166	3.698157	1.59E-09	4.90E-08
TPM1	1.860675	6.601203	3.88E-06	3.38E-05
TPM2	1.962529	5.701614	0.00023	0.000977
TPM4	1.804093	8.935896	4.00E-15	7.76E-13
TPPP3	-1.06694	10.35631	1.46E-05	0.000102
TPTE2P5	-1.14709	0.353666	7.91E-05	0.000407
TPX2	2.368015	4.545691	1.38E-10	6.26E-09
TREM2	3.92723	2.608828	3.38E-09	9.34E-08
TRIB3	1.891454	3.818866	6.72E-06	5.36E-05
TRIM16	1.75924	6.953249	1.37E-10	6.25E-09
TRIM46	1.27097	-0.34952	0.003229	0.009073
TRIM6	1.04859	1.23994	0.000651	0.002348
TRIM61	1.063192	-0.40739	0.012797	0.029024
TRIM7	1.442347	4.468538	6.74E-07	7.95E-06
TRMT1	1.099211	4.844096	1.01E-12	8.47E-11
TROAP	1.971088	1.881734	2.00E-05	0.000131
TRPV3	2.520212	0.418804	4.67E-05	0.000264
TSGA10	-1.12444	5.936596	9.13E-06	6.89E-05
TSPAN19	-1.41853	4.990454	0.001476	0.004698

TSPAN4	1.563232	3.833281	3.61E-08	6.89E-07
TSP0	1.018736	7.217731	6.59E-09	1.62E-07
TSPY26P	-1.00865	0.618448	7.17E-05	0.000375
TTC16	-1.19552	5.125594	0.000171	0.00077
TTC18	-1.07437	6.439566	9.63E-05	0.000479
TTC21B	-1.17841	5.329488	9.46E-06	7.10E-05
TTC23L	-1.03021	2.560728	2.80E-05	0.000173
TTC25	-1.12556	6.981516	6.52E-06	5.24E-05
TTC30A	-1.00844	5.423973	1.02E-05	7.56E-05
TTC30B	-1.04941	4.934385	1.69E-06	1.71E-05
TTK	1.060732	2.126221	0.010841	0.025187
TTL	1.063823	5.285974	1.40E-13	1.55E-11
TTLL6	-1.09985	3.194056	0.002034	0.006141
TUB	-1.02269	5.330279	0.002603	0.007557
TUBA1C	1.664504	7.392809	4.50E-15	8.53E-13
TUBA4A	1.846029	7.327456	4.43E-14	6.03E-12
TUBB	1.644001	9.219331	5.74E-19	3.43E-16
TUBB3	4.423894	5.315237	2.10E-13	2.13E-11
TUBB6	2.940421	7.34763	6.97E-16	1.71E-13
TUFT1	1.256941	5.34478	1.26E-07	1.98E-06
TXLNB	-1.30899	4.554984	0.000193	0.000848
TXNDC17	1.296877	6.075443	4.51E-10	1.70E-08
TYMP	1.078933	6.898534	1.54E-06	1.58E-05
TYMS	2.310725	4.029884	2.11E-08	4.46E-07
TYRO3	1.297242	3.405601	8.61E-06	6.57E-05
UBD	2.516639	3.619542	0.002985	0.008492
UBE2C	2.401452	3.204279	3.46E-07	4.64E-06
UBE2Q2P1	1.304616	0.300378	4.87E-05	0.000273
UBXN10	-1.27349	8.146395	1.39E-07	2.14E-06
UCA1	1.913343	2.307874	0.013338	0.030034
UCLH1	2.467714	2.278552	3.48E-09	9.49E-08
UCKL1-AS1	-1.5087	4.863066	3.57E-05	0.00021
UCN2	1.964633	2.519281	2.64E-09	7.56E-08
UCP3	-1.01384	1.124976	0.002489	0.007284
UHRF1	2.048308	4.52634	5.49E-10	2.03E-08
ULBP1	1.623413	1.156864	6.02E-06	4.90E-05
ULBP2	2.442052	2.939562	2.60E-09	7.45E-08
ULBP3	1.37531	1.427918	1.19E-05	8.59E-05
UMODL1	-1.76989	0.290287	0.000346	0.001381
UNC13D	3.065043	2.82125	1.43E-12	1.18E-10
UNC79	-1.35908	1.857278	2.43E-05	0.000154
UNC80	2.34583	-0.14269	0.000102	0.000503
UPK1B	1.154664	7.413353	0.01344	0.030217
UPK3B	1.225519	3.048805	0.006038	0.015367
UPK3BL	1.628893	3.48902	0.022154	0.045923
UPP1	3.188138	4.487572	2.90E-15	5.79E-13

USH1G	1.748856	2.237686	0.000852	0.002939
USP51	-1.31788	2.464796	1.72E-05	0.000116
VAR5	1.100993	6.738781	1.61E-12	1.30E-10
VASP	1.017511	6.831125	3.70E-14	5.22E-12
VAT1	1.313684	6.914688	2.53E-06	2.36E-05
VCL	1.300641	7.745922	1.47E-11	9.30E-10
VEGFC	1.087802	2.584698	4.59E-05	0.00026
VGLL1	1.225945	4.272998	0.001027	0.003439
VIM	1.503366	7.387617	0.000514	0.001931
VNN1	1.181285	1.551168	0.007499	0.018394
VSIG1	1.87139	-0.46316	1.45E-05	0.000101
VSIG10L	2.507911	2.593348	0.000797	0.002782
VSNL1	1.188392	4.049113	0.000194	0.000854
VWA3B	-1.47875	7.478757	1.35E-05	9.50E-05
VWA8-AS1	-1.30457	2.532122	6.92E-05	0.000365
WBP5	1.110651	4.501224	2.86E-07	3.96E-06
WDR16	-1.22636	7.484148	6.65E-07	7.89E-06
WDR19	-1.05135	6.653796	1.15E-05	8.34E-05
WDR38	-1.0383	7.431139	5.23E-05	0.00029
WDR49	-1.14865	5.389833	0.000274	0.001134
WDR5B	-1.02832	4.496053	9.31E-08	1.53E-06
WDR62	1.569183	2.094136	2.05E-05	0.000134
WDR63	-1.09594	6.76091	4.12E-06	3.57E-05
WDR65	-1.257	6.599988	1.81E-06	1.79E-05
WDR78	-1.2914	7.575206	2.50E-06	2.34E-05
WDR86	-1.07374	2.047457	1.42E-05	9.93E-05
WDR93	-1.30503	4.444219	1.20E-06	1.29E-05
WDR96	-1.28155	8.068756	1.98E-05	0.00013
WFDC12	5.074132	-0.15602	0.000124	0.000591
WFDC2	-1.09899	10.26189	1.46E-05	0.000101
WFDC5	1.683767	0.76389	0.012948	0.029298
WFDC6	-2.04727	2.596501	3.17E-06	2.85E-05
WIF1	-2.25506	-1.28384	0.022154	0.045923
WNT16	-1.74439	1.555177	0.008155	0.019749
WNT7A	4.191364	2.763521	3.18E-14	4.61E-12
WSCD1	-1.16833	-0.65678	0.017267	0.037244
XDH	3.993277	3.806153	7.65E-10	2.60E-08
XRCC2	1.510938	0.832341	0.000164	0.000741
YKT6	1.179367	6.650005	5.54E-14	7.21E-12
YPEL1	-1.05357	2.303442	2.73E-05	0.000169
YWHAG	1.018444	7.95567	1.50E-14	2.42E-12
YY2	1.017069	0.966936	0.00051	0.001917
ZACN	-1.5832	-1.11936	0.013996	0.03128
ZBBX	-1.07243	6.250094	0.00035	0.001392
ZBED2	4.290477	3.478993	2.11E-15	4.50E-13
ZBTB12	-1.01108	3.494093	1.24E-07	1.96E-06

ZBTB16	-1.0846	3.131776	0.010663	0.02489
ZC2HC1A	-1.11815	4.518904	3.47E-07	4.66E-06
ZC2HC1C	-1.4227	4.985731	6.08E-08	1.06E-06
ZC3H12A	1.78949	5.305833	1.39E-08	3.08E-07
ZC3H12B	-1.01983	0.582154	0.016762	0.036338
ZC3H6	-1.04692	4.405373	2.51E-08	5.16E-07
ZCWPW1	-1.10012	4.168157	4.66E-06	3.95E-05
ZDHHC14	1.626248	1.941573	3.46E-09	9.45E-08
ZEB1	1.017432	0.568039	0.012522	0.028514
ZFP14	-1.04047	3.291811	5.13E-11	2.74E-09
ZFP57	2.002395	0.420576	0.018451	0.039331
ZMYND12	-1.12637	5.206113	0.000191	0.000843
ZNF185	1.424894	7.306616	9.72E-07	1.08E-05
ZNF19	-1.03748	3.666134	2.23E-05	0.000143
ZNF214	-1.07053	3.953629	1.03E-06	1.14E-05
ZNF215	1.20674	1.099003	8.51E-05	0.000433
ZNF233	-1.21301	1.797095	2.94E-06	2.68E-05
ZNF365	1.368607	2.485677	9.51E-05	0.000475
ZNF367	1.67603	1.322555	0.000763	0.002681
ZNF396	-1.09271	3.967304	2.84E-06	2.60E-05
ZNF454	-1.33674	-0.19159	0.000127	0.0006
ZNF469	1.206835	3.309367	0.005023	0.013178
ZNF474	-1.22013	5.594492	7.69E-07	8.89E-06
ZNF497	-1.05143	2.507021	0.002235	0.006646
ZNF540	-1.18492	0.431166	0.000129	0.000611
ZNF546	-1.12256	2.079184	0.000119	0.000571
ZNF556	1.652627	0.450059	7.02E-05	0.000369
ZNF709	-1.05085	2.930604	1.92E-06	1.89E-05
ZNF812	1.781742	3.425477	0.003432	0.00957
ZNF853	-1.68384	3.128128	2.95E-07	4.05E-06
ZNF883	1.531697	-0.70799	0.021544	0.044783
ZWINT	1.618707	3.882349	1.93E-06	1.89E-05
ZYX	1.619796	7.686368	8.52E-13	7.20E-11