

<b>Protein ID</b>	<b>logFC</b>	<b>logCPM</b>	<b>PValue</b>	<b>FDR</b>
BEST4	-5.86157	3.098162547	5.704337470	1.16E-306
CLEC3B	-4.18738	2.50678554	3.30E-248	3.36E-244
CUBN	-5.07369	1.602358167	3.75E-245	2.55E-241
SLC25A34	-4.04409	1.429545844	8.95E-228	4.56E-224
SLC51A	-4.23124	3.307337685	1.76E-227	7.19E-224
CPO	-6.21973	-0.134941895	1.69E-207	5.76E-204
ABCG2	-4.78275	3.306110875	5.32E-190	1.55E-186
PHLPP2	-2.61531	4.724804755	8.79E-190	2.24E-186
TEX11	-4.11293	-0.162171727	2.01E-183	4.57E-180
USP2	-4.04694	2.509026746	3.94E-177	8.04E-174
UGP2	-2.08525	6.942198557	6.44E-177	1.19E-173
CA7	-5.67522	3.471881044	4.93E-176	8.38E-173
APPL2	-1.86271	6.105867597	1.7E-169	2.67E-166
PEX26	-1.7756	6.350861698	2.57E-166	3.74E-163
OTOP2	-8.14323	3.104038764	2.98E-166	4.05E-163
PRKG2	-3.98898	1.116926874	3.76E-166	4.8E-163
DAO	-5.65639	-0.988702507	1.47E-160	1.77E-157
CA2	-4.71259	7.353966444	2.47E-160	2.8E-157
MGAM	-5.10663	2.221684998	8.67E-159	9.32E-156
APOA1	-7.37432	3.771881329	1.61E-152	1.64E-149
MS4A10	-7.38628	0.070760013	4.38E-151	4.26E-148
MEP1B	-5.55992	2.278555577	5.17E-148	4.8E-145
SCARA5	-4.75702	3.443983796	1.38E-146	1.22E-143
SLC22A5	-1.87426	4.823227808	1.61E-142	1.37E-139
IL6R	-2.73816	4.197821783	2.82E-142	2.3E-139
SULT1A2	-3.85092	1.638089607	1.02E-141	7.97E-139
SLC36A1	-1.98345	4.934946725	1.33E-141	1.01E-138
CDKN2B	-3.25325	4.731963593	2.29E-140	1.67E-137
AQP8	-6.98305	6.770531634	4.24E-140	2.98E-137
PDCD4	-1.99992	6.795399069	4.53E-140	3.08E-137
C2orf88	-3.53749	4.146216623	2.59E-139	1.71E-136
CDH3	6.048453	6.641832727	6.61E-139	4.22E-136
GLTP	-1.53712	5.460388872	3.26E-136	1.96E-133
GLP2R	-3.84579	0.86921985	2.1E-134	1.22E-131
GCNT2	-3.71569	1.905544296	5.73E-134	3.25E-131
SLC51B	-4.09984	3.447046853	2.8E-133	1.54E-130
LYVE1	-4.10002	2.724050647	8.66E-133	4.65E-130
SPIB	-4.58059	2.846494012	3.43E-132	1.8E-129
GUCA2A	-5.2525	5.965559096	1.42E-131	7.26E-129
PKIB	-3.84826	4.377362294	9.18E-130	4.57E-127
TAT	-3.75209	-1.219546393	2.19E-128	1.06E-125
ABCB11	-4.97074	-0.502972947	3.02E-128	1.43E-125
FAM107A	-3.44145	2.278425266	6.14E-125	2.79E-122
NAALADL1	-3.4084	3.024144304	6.55E-125	2.91E-122
ASPA	-3.80305	0.095980134	1.41E-124	6.13E-122
CA1	-6.76579	6.535644178	2.15E-124	9.15E-122
BMP3	-5.26061	2.823771187	5.12E-124	2.13E-121
SLC30A10	-5.85844	1.204082512	9.56E-124	3.9E-121
SCGN	-4.8976	0.934589609	2.69E-123	1.08E-120
GFRA2	-3.62166	0.414139552	3.93E-121	1.54E-118
RETSAT	-1.88617	7.090429433	2.93E-120	1.13E-117
CNNM2	-1.65607	4.256415853	4.53E-120	1.71E-117
TRPM6	-4.21432	4.073446116	1E-119	3.72E-117
ADAMDEC1	-3.53613	5.504357388	1.17E-119	4.25E-117
CLDN23	-2.9218	4.715056687	2.56E-119	9.15E-117

ETFDH	-1.82645	4.521996203	2.67E-119	9.39E-117
PLPP1	-1.9312	4.826419491	3.87E-119	1.34E-116
VEGFD	-4.29706	-0.787451409	3.42E-118	1.16E-115
TMEM72	-4.39042	1.642600052	7.62E-118	2.55E-115
PLP1	-5.20934	1.607343922	1.79E-117	5.9E-115
ESM1	5.797759	2.859664738	7.25E-117	2.35E-114
KRT80	6.834316	5.387626139	1.01E-116	3.23E-114
ETV4	5.396468	6.862000379	1.39E-116	4.36E-114
GUCA2B	-6.22772	3.523125008	1.82E-116	5.62E-114
CD177	-5.66429	6.078150111	5.88E-116	1.79E-113
SLC26A2	-4.16072	8.001543586	1.73E-115	5.19E-113
TNXB	-3.92417	4.002097547	4.9E-115	1.43E-112
RBFOX3	-4.80276	1.291609807	1.83E-114	5.25E-112
PDK4	-3.24653	4.942314272	2.27E-114	6.43E-112
ZNF575	-2.08693	2.101722457	4.67E-114	1.3E-111
MTHFD1L	2.478154	5.693658328	6.41E-114	1.77E-111
SMPDL3A	-2.56859	4.78113016	1.12E-113	3.05E-111
PYGM	-3.81854	1.199179955	5.38E-113	1.44E-110
PTGS1	-2.84691	4.581239773	5.71E-113	1.51E-110
CSRP1	-2.19499	8.238954834	2.54E-111	6.64E-109
TMEM37	-3.0877	4.647071171	3.49E-111	9E-109
AJUBA	3.072091	4.648041851	3.58E-111	9.13E-109
MAMDC2	-4.60107	1.761174978	4E-111	1.01E-108
ABCA8	-4.42733	2.258654378	1.37E-110	3.41E-108
LRRN2	-3.72082	2.710186981	2.19E-110	5.39E-108
ENTPD5	-2.53668	6.319835812	2.67E-110	6.49E-108
CCDC69	-2.81176	4.759917292	3.14E-110	7.54E-108
RXRG	-3.93645	-1.550592272	6.25E-110	1.48E-107
ENPP6	-3.40572	-0.96280833	1.56E-108	3.66E-106
NAAA	-2.08552	5.283650898	5.06E-108	1.17E-105
TMEM100	-3.80091	0.743906806	2.52E-107	5.77E-105
TMIGD1	-6.30567	3.570600843	9.04E-107	2.05E-104
DPP6	-4.85028	0.474970868	1.19E-106	2.67E-104
SLC4A4	-4.50015	5.152860271	1.72E-106	3.82E-104
PLAC9	-2.5393	1.298872835	1.94E-106	4.25E-104
TP53INP2	-2.53319	5.882396077	3.37E-106	7.32E-104
GSTA2	-5.11701	-1.164471531	5.18E-106	1.11E-103
PLCD1	-2.25561	4.573304753	2.08E-105	4.43E-103
AHCYL2	-2.64005	6.938781282	2.96E-105	6.22E-103
TMEM220	-2.96412	2.177728112	4.36E-104	9.07E-102
TMCC3	-2.4026	4.993059828	5.26E-104	1.08E-101
ALPI	-4.40632	2.69730193	5.85E-104	1.19E-101
SGK1	-2.67735	5.890355442	1.42E-102	2.86E-100
TMEM253	-2.96999	0.954855957	4.75E-102	9.5E-100
G6PC	-6.38654	-1.014295848	1.22E-101	2.42E-99
CMTM5	-4.54055	-2.436284353	1.5E-101	2.95E-99
RERGL	-5.03498	-0.794120166	3.01E-101	5.85E-99
POPDC2	-3.35022	2.01605516	2.45E-100	4.62E-98
FHL1	-3.23119	5.346932428	4.12E-100	7.72E-98
PYY	-5.77227	3.062839678	1.15E-99	2.13E-97
CIPC	-1.29	4.964213962	2.24E-99	4.11E-97
LDB3	-4.02265	1.677741458	1.24E-98	2.26E-96
SEMA6D	-3.07326	3.5029038	1.78E-98	3.21E-96
STBD1	-1.90669	2.073127074	1.35E-97	2.41E-95
UGT1A8	-4.27553	1.119427329	2.05E-97	3.63E-95
TMEM35A	-3.98956	1.493833333	1.52E-96	2.68E-94

ATP1A2	-4.78521	2.432811334	1.65E-96	2.87E-94
GRAMD2B	-1.64922	4.559501852	2.02E-96	3.49E-94
MYOM1	-3.18116	1.80207504	2.34E-96	4.02E-94
ADHFE1	-2.78141	-0.241188889	4E-96	6.81E-94
NPTX1	-4.81652	1.793662603	4.09E-96	6.89E-94
SPPL2A	-1.56788	6.145253243	5.16E-96	8.62E-94
VSTM2A	-5.08657	-0.435394121	1.51E-95	2.5E-93
HPGDS	-3.10622	0.323416954	1.74E-95	2.86E-93
SLC17A8	-5.17781	-1.659686614	9.48E-95	1.55E-92
METTL7A	-2.46488	5.912729667	1.01E-94	1.64E-92
FUCA1	-1.75573	6.641703582	2.76E-94	4.44E-92
APOC3	-8.16751	1.059459938	2.98E-94	4.75E-92
CD163L1	-2.97227	3.175631478	1.01E-93	1.59E-91
CADM3	-4.51348	1.579600986	1.01E-93	1.59E-91
ENPEP	-3.08916	3.10973166	1.31E-93	2.03E-91
MIER3	-1.91757	5.429754654	1.89E-93	2.92E-91
DPT	-3.8705	4.03269328	6E-93	9.2E-91
CNN1	-4.14261	6.776067954	3.84E-92	5.85E-90
MYLK	-3.28132	7.402748987	6.83E-92	1.03E-89
CLDN1	4.887921	6.62580697	7.97E-92	1.2E-89
TMEM236	-3.63449	4.124142883	1.17E-91	1.74E-89
HSPB8	-3.5654	3.992108652	1.47E-91	2.18E-89
PLCE1	-1.99639	5.064745067	6.08E-91	8.92E-89
AMPD1	-4.00019	-0.322061525	7.67E-91	1.12E-88
CREB3L3	-4.45519	2.013786025	1.33E-90	1.92E-88
SYNM	-4.25634	5.812400264	2.2E-90	3.17E-88
MYH11	-4.42485	9.297760339	4.48E-90	6.36E-88
CASP7	-1.67577	6.330067356	4.49E-90	6.36E-88
GSTM5	-2.86776	0.760358791	4.88E-90	6.86E-88
APOB	-6.75538	4.136457804	5.32E-90	7.43E-88
MXI1	-1.60044	5.605245003	1.83E-89	2.53E-87
MYL9	-3.18103	8.19042636	6.81E-89	9.33E-87
MT1M	-4.23968	3.090663928	1.14E-88	1.55E-86
CEACAM7	-4.31361	8.664986433	2.79E-88	3.77E-86
C1orf115	-2.39043	5.284232103	4.16E-88	5.59E-86
NFE2L3	2.700439	7.085182697	4.89E-88	6.52E-86
GRIK3	-3.44712	0.462998993	8.55E-88	1.13E-85
MPZ	-2.67241	0.8181188	1.61E-87	2.12E-85
FAM129A	-2.95548	4.473364069	2.57E-87	3.36E-85
GNA11	-1.72772	7.253520446	4.24E-87	5.51E-85
NKX2-3	-2.76792	2.301424774	9.5E-87	1.23E-84
NR3C2	-2.62273	4.92765187	1.97E-86	2.51E-84
FAM151A	-2.39702	0.884579259	2.01E-86	2.55E-84
ACOX1	-1.57843	6.925927444	2.11E-86	2.65E-84
TRANK1	-2.12387	5.345081198	2.4E-86	3E-84
CYP3A4	-4.94821	2.127743154	2.74E-86	3.4E-84
SLC17A7	-2.9282	-0.98437343	2.77E-86	3.42E-84
ACTG2	-4.14776	8.165236719	4.89E-86	6.01E-84
SGCG	-4.08069	-2.481193664	6.87E-86	8.4E-84
PRDX6	-1.39484	7.70972707	6.94E-86	8.42E-84
CNNM4	-1.65567	6.550056085	1.5E-85	1.81E-83
ENDOD1	-1.55438	5.883697197	1.54E-85	1.85E-83
LIFR	-3.19417	2.396506278	1.62E-85	1.93E-83
ZZEF1	-1.70153	6.321355449	2.24E-85	2.65E-83
PDE2A	-2.61344	2.269601564	2.15E-84	2.54E-82
TEF	-1.79847	4.367444333	5.97E-84	7E-82

CITED2	-1.69056	4.986450015	6.18E-84	7.21E-82
WNT2	5.530505	3.202296137	6.82E-84	7.91E-82
SELENOP	-3.20084	6.865258082	1.33E-83	1.53E-81
MAL	-3.4341	-0.002531629	1.87E-83	2.14E-81
SH2D7	-3.68734	0.054341048	7.05E-83	8.04E-81
CEMIP	5.302316	7.213417958	7.29E-83	8.27E-81
PSD	-3.19078	3.215675437	8.83E-83	9.95E-81
RBPMS2	-3.39043	2.110191493	1.39E-82	1.56E-80
NAP1L2	-3.56561	-0.447142648	1.78E-82	1.98E-80
FOXQ1	6.327981	5.439990008	2.99E-82	3.3E-80
MS4A12	-5.4333	5.395882797	7.94E-82	8.71E-80
LRP8	3.088901	4.607337637	1.09E-81	1.19E-79
CDC14A	-1.86299	2.940658536	1.66E-81	1.8E-79
KLF4	-2.42468	6.745054768	2.64E-81	2.85E-79
CAVIN2	-2.94074	3.413003478	3.19E-81	3.43E-79
UGT1A10	-3.62115	3.037320198	3.25E-81	3.47E-79
ENC1	2.137118	7.438957845	4.64E-81	4.93E-79
SCNN1B	-4.17433	4.045898821	6.03E-81	6.38E-79
ST6GALNAC	-2.55192	5.674583589	6.72E-81	7.07E-79
SLC20A1	-1.56842	6.194063215	9.48E-81	9.87E-79
FAM135B	-4.19199	-1.297702286	2.67E-80	2.76E-78
GNAO1	-3.39344	2.705373424	4.19E-80	4.32E-78
ELANE	-3.53422	-2.410226393	4.47E-80	4.59E-78
RDH5	-2.2228	1.396025435	7.95E-80	8.11E-78
SLC25A23	-1.70151	6.391726269	9.5E-80	9.64E-78
CBX7	-1.77041	4.41163442	1E-79	1.01E-77
SLC10A2	-7.621	0.707276401	1.63E-79	1.64E-77
DHRS11	-2.3004	5.675599663	1.99E-79	1.99E-77
MT1F	-2.9058	3.886576681	2.19E-79	2.18E-77
SLC26A3	-4.61624	8.886599632	8.76E-79	8.67E-77
CA4	-5.06476	5.670587784	1.03E-78	1.02E-76
GPAT3	-2.44336	3.426715724	1.11E-78	1.09E-76
PRIMA1	-4.4984	1.414644194	1.17E-78	1.14E-76
GRIN2D	4.931815	5.360896428	1.8E-78	1.74E-76
UGDH	-1.7583	6.471281249	2.25E-78	2.16E-76
CHAD	-2.96871	0.801114887	2.77E-78	2.65E-76
LGI1	-4.92725	-1.673055996	3.01E-78	2.87E-76
PTPN21	-1.44354	4.153283299	3.15E-78	2.99E-76
CLCA4	-5.38052	6.971266787	3.95E-78	3.73E-76
NR5A2	-2.28852	3.847867818	5.86E-78	5.51E-76
BCHE	-4.07499	0.954873669	1.09E-77	1.02E-75
ADH1C	-4.0618	5.867288295	1.16E-77	1.08E-75
43898	-1.37043	5.199523913	1.37E-77	1.27E-75
LMOD1	-3.47359	5.407709357	1.44E-77	1.33E-75
CFL2	-2.454	3.914170957	3.78E-77	3.47E-75
RNF152	-2.71801	3.338313534	3.85E-77	3.52E-75
SLC5A11	-3.64364	-0.766134992	4.53E-77	4.13E-75
STMN4	-4.20284	-2.100417757	5.28E-77	4.79E-75
C2orf40	-4.12946	-0.196348173	5.82E-77	5.26E-75
HPSE2	-3.22426	0.093495654	7.42E-77	6.67E-75
PTN	-2.60557	1.762734359	9.01E-77	8.07E-75
FLNC	-3.36116	6.360723667	9.92E-77	8.84E-75
HSD3B2	-5.6511	1.365040424	1.14E-76	1.01E-74
AP3S2	-1.18513	4.751720764	1.27E-76	1.12E-74
ABHD3	-1.86494	5.39842654	2.58E-76	2.27E-74
CPT2	-1.41508	5.265478868	4.67E-76	4.09E-74

TSPAN7	-2.73797	4.440738876	5.44E-76	4.75E-74
CEACAM1	-2.32807	8.221022423	6.43E-76	5.59E-74
TRIP13	2.387735	4.8349743	6.81E-76	5.89E-74
PCSK5	-2.45826	4.095092929	6.94E-76	5.95E-74
SCN7A	-4.66933	1.741331053	6.94E-76	5.95E-74
SLC17A4	-3.33473	3.0987073	7E-76	5.98E-74
PADI2	-3.22417	6.655708822	1.46E-75	1.24E-73
PDZD4	-3.15891	0.971416224	1.66E-75	1.41E-73
TACR2	-3.71385	2.922882312	1.72E-75	1.45E-73
OTOP3	-5.93044	-1.450697539	2.28E-75	1.91E-73
NEGR1	-2.84833	2.524365489	2.44E-75	2.04E-73
PII6	-4.42206	1.635837338	5.75E-75	4.77E-73
APOA4	-8.42498	2.898459641	6.72E-75	5.55E-73
SCN9A	-3.34873	1.618268627	8.13E-75	6.69E-73
SLC2A4	-2.68901	2.374321475	9.73E-75	7.97E-73
FBXL22	-2.31683	1.110368395	2.62E-74	2.14E-72
GREM2	-3.77983	2.884334527	6.81E-74	5.54E-72
PRPH	-3.70559	0.338566023	1.97E-73	1.59E-71
SLC6A19	-5.36508	3.324431545	2.51E-73	2.02E-71
C6orf223	4.928605	5.278703006	4.21E-73	3.38E-71
PBLD	-2.29325	4.841489158	5.3E-73	4.24E-71
MT1H	-3.84541	2.967761158	1.05E-72	8.39E-71
CHP2	-3.9811	5.666778244	1.46E-72	1.16E-70
LDHD	-2.91943	4.140144736	2.52E-72	1.99E-70
ABI3BP	-2.99095	3.343331435	4.84E-72	3.81E-70
MT1G	-3.35349	5.902642832	5.2E-72	4.08E-70
SLC22A18AS	-2.30541	3.303928735	9.34E-72	7.3E-70
FXYD1	-3.14641	-0.900273634	1.23E-71	9.57E-70
TM6SF2	-3.22687	0.647965956	2.25E-71	1.74E-69
SLC9A3	-3.8198	5.837056202	2.31E-71	1.78E-69
PLPP3	-1.49662	5.173539693	2.76E-71	2.12E-69
GPD1L	-1.41371	5.978801118	2.94E-71	2.24E-69
TDP2	-1.80113	6.834211405	4.58E-71	3.47E-69
PIRT	-4.00442	-0.295770546	7.29E-71	5.51E-69
ASB2	-2.89257	2.685369294	9.8E-71	7.38E-69
STMN2	-3.47407	2.084567838	1.51E-70	1.14E-68
NCAM1	-2.87508	2.568759694	1.63E-70	1.22E-68
TRIM40	-3.07037	1.673381045	2.25E-70	1.68E-68
ANK2	-2.99658	2.767452134	3.75E-70	2.78E-68
PDE6A	-3.42779	0.986751868	4.15E-70	3.07E-68
TRIB3	3.932138	6.431554215	5.27E-70	3.88E-68
SVIL	-1.91701	6.486670233	7.02E-70	5.13E-68
DHDDS	-1.16138	5.382821179	8.17E-70	5.95E-68
NTN1	-2.65864	2.904098163	8.56E-70	6.22E-68
HAND2	-3.83844	2.09895958	1.12E-69	8.08E-68
ANK3	-1.69385	4.754105332	1.36E-69	9.83E-68
PDZRN4	-3.97824	1.044815386	2.53E-69	1.82E-67
SFRP1	-4.12311	2.826541887	6.38E-69	4.55E-67
UNC5C	-2.30287	1.826338466	6.72E-69	4.78E-67
HSD17B2	-3.35709	4.912454316	6.81E-69	4.83E-67
SST	-4.9339	0.898018805	7.2E-69	5.08E-67
CPM	-2.42698	4.510574102	7.51E-69	5.29E-67
HIGD1A	-1.72907	6.090062364	1.71E-68	1.2E-66
WSCD1	-3.01182	3.371737913	1.74E-68	1.22E-66
SRPX	-2.6401	2.818909286	1.85E-68	1.29E-66
RMDN2	-1.87346	2.624839308	2.18E-68	1.52E-66

GSTA1	-4.20533	1.942022307	2.31E-68	1.6E-66
CCL23	-3.06506	-0.885548438	2.41E-68	1.66E-66
SYNPO2	-3.61003	6.404874433	2.57E-68	1.76E-66
INSL5	-6.11136	1.487453435	3.03E-68	2.07E-66
KRTAP13-2	-5.74279	-1.767407106	3.1E-68	2.12E-66
FNBP1	-1.83124	5.294614355	5.45E-68	3.7E-66
TMEM151B	-3.18875	-1.627185294	5.46E-68	3.7E-66
HRASLS2	-3.27289	1.213799698	7.7E-68	5.2E-66
LRRC1	-1.1504	5.504446864	8.04E-68	5.41E-66
PDE9A	-2.53685	4.918333362	1.04E-67	6.96E-66
GDPD2	-3.21112	2.214713319	1.1E-67	7.38E-66
EDN3	-3.29815	3.56636417	1.38E-67	9.22E-66
EPHX4	4.635015	2.977733556	1.99E-67	1.32E-65
KCNMB1	-3.19472	3.288923833	2.32E-67	1.53E-65
GNG7	-2.52077	2.007805635	2.44E-67	1.61E-65
SIM2	4.51884	3.942011625	4.35E-67	2.83E-65
EPOP	3.729112	3.878705687	5.1E-67	3.31E-65
SLC23A1	-2.98801	1.896054011	6.03E-67	3.9E-65
KIAA1549	2.366749	4.825000974	7.22E-67	4.66E-65
NSG2	-3.94178	-0.211392878	9.98E-67	6.42E-65
CCNYL1	-1.30146	4.697980411	1.11E-66	7.09E-65
SLCO4A1	3.546452	6.277547618	1.31E-66	8.38E-65
SECTM1	-2.91519	5.373803143	1.71E-66	1.09E-64
SCN11A	-3.3496	-1.214716444	1.93E-66	1.23E-64
DNAJB5	-2.41827	2.743952059	2.29E-66	1.45E-64
TMEM82	-3.32041	1.74024047	2.35E-66	1.48E-64
CXCL12	-2.53123	5.005792919	3.33E-66	2.1E-64
PPM1H	2.378709	5.56554413	4.41E-66	2.77E-64
CNGB1	-3.46584	-2.206810378	6.22E-66	3.9E-64
DDX31	1.186785	4.474298878	6.76E-66	4.22E-64
PGM5	-3.31441	4.443110623	9.21E-66	5.73E-64
ACADS	-2.09035	6.152999742	9.27E-66	5.75E-64
NPY2R	-4.53872	-2.051472571	1.04E-65	6.44E-64
SHISAL1	-3.05479	1.874375918	1.28E-65	7.91E-64
PPP1R12B	-2.52855	6.309643464	1.31E-65	8.04E-64
EMILIN3	-2.61135	-1.042884282	1.82E-65	1.12E-63
ADH1B	-4.35205	4.000896812	3.43E-65	2.09E-63
ATP6V1G2	-2.34227	-1.063591308	3.82E-65	2.32E-63
ASAP3	-1.88516	3.914283149	4.36E-65	2.65E-63
P2RY1	-2.42357	3.495695005	4.42E-65	2.67E-63
AFF3	-2.9308	1.044635944	5.94E-65	3.57E-63
MAB21L2	-3.13644	3.960886983	6.63E-65	3.98E-63
HLF	-2.51064	1.699941182	6.9E-65	4.13E-63
TCF21	-2.27656	2.290049284	7.37E-65	4.4E-63
FBLIM1	-1.28866	6.608721608	7.84E-65	4.67E-63
HSD11B2	-2.33165	7.361829615	9.42E-65	5.59E-63
PHOX2B	-4.51253	-1.53674582	1.06E-64	6.27E-63
GTF2IRD1	2.228226	6.215300517	1.19E-64	7E-63
BVES	-2.70286	1.51807873	1.77E-64	1.04E-62
CTNND2	-3.41858	-1.344747951	1.85E-64	1.09E-62
HHLA2	-2.75885	5.567811165	2.61E-64	1.53E-62
SLC28A1	-4.17784	-1.463953861	2.85E-64	1.66E-62
ADCYAP1R1	-3.97454	-0.440524991	4.95E-64	2.87E-62
IQANK1	2.930146	5.203103882	8.15E-64	4.71E-62
SPTBN2	3.189149	5.363122396	8.78E-64	5.06E-62
MT1X	-2.30123	4.632069582	2E-63	1.15E-61

TTC22	-1.6599	5.223852141	2.28E-63	1.31E-61
TRPV3	-2.95072	1.165998925	2.48E-63	1.42E-61
ELAVL4	-3.13562	-0.653621876	3.13E-63	1.79E-61
BTNL8	-3.24865	4.1343958	3.5E-63	1.99E-61
WDR78	-2.24424	2.078722462	3.72E-63	2.11E-61
TENT5B	-2.91844	1.290069986	4.58E-63	2.59E-61
ATP8B1	-1.57028	7.703879905	5.07E-63	2.86E-61
OSBPL3	1.907911	5.443938498	5.4E-63	3.04E-61
TPH1	-3.46933	0.984769104	5.64E-63	3.16E-61
SPECC1L	-1.0524	4.817518616	1.02E-62	5.69E-61
RAB27A	-1.55389	4.889998042	1.03E-62	5.76E-61
SMYD1	-4.49511	0.110826954	1.27E-62	7.06E-61
TPM2	-2.56907	7.564145591	1.43E-62	7.94E-61
TESK2	-1.33647	3.049136873	1.62E-62	8.95E-61
NRXN1	-4.36789	0.217613042	2.42E-62	1.33E-60
LRRC19	-2.7478	5.007993002	3.67E-62	2E-60
JAM2	-2.39069	2.678587767	5.01E-62	2.73E-60
PTPRH	-2.03268	5.839516516	7.13E-62	3.87E-60
ADAMTSL3	-3.08695	1.881434743	7.42E-62	4.01E-60
PXMP2	-1.49311	4.136994406	8.13E-62	4.39E-60
NGB	-4.69749	-2.069769636	8.72E-62	4.69E-60
CPEB1	-3.1301	-0.634506484	9.35E-62	5.02E-60
KCNA5	-2.53728	-0.787491308	1.03E-61	5.51E-60
FMO4	-1.7626	1.997952461	1.13E-61	6.01E-60
CHP1	-1.39966	7.494536262	1.21E-61	6.44E-60
ZER1	-1.26044	5.899356593	1.22E-61	6.5E-60
ACKR2	-2.45665	0.323452036	1.23E-61	6.52E-60
SCN2B	-3.58141	-0.569375408	1.26E-61	6.64E-60
CAND2	-2.16919	0.655553948	1.33E-61	7.02E-60
PCP4L1	-3.85734	-0.211454249	1.35E-61	7.1E-60
LITAF	-1.20922	7.407854082	1.49E-61	7.78E-60
NBPF1	-1.48777	3.817791037	1.49E-61	7.78E-60
C16orf89	-3.41101	0.706062242	1.94E-61	1.01E-59
SLC25A20	-1.51145	4.606887501	2.04E-61	1.06E-59
SMPD1	-1.76761	5.080621974	2.72E-61	1.41E-59
OPN3	-1.6993	3.024861722	3.61E-61	1.87E-59
ITM2C	-2.19821	9.339826485	5.54E-61	2.86E-59
LILRB5	-2.64704	2.101339115	5.56E-61	2.86E-59
P2RY14	-2.53486	1.676707193	6.07E-61	3.12E-59
ZBTB7B	-1.45935	6.574050204	1.12E-60	5.76E-59
HPGD	-2.7807	5.604012319	1.45E-60	7.41E-59
ADCY5	-2.8683	2.85177217	1.62E-60	8.28E-59
METTL24	-3.19865	-0.873458229	1.67E-60	8.5E-59
PLAC8	-2.97924	6.166969466	1.73E-60	8.77E-59
SLC13A1	-5.59382	-1.515080114	2.02E-60	1.02E-58
NEFM	-3.52299	-1.489876373	2.29E-60	1.16E-58
KIAA0513	-1.92692	4.238953101	2.4E-60	1.21E-58
TAGLN	-2.88159	8.366431914	3.29E-60	1.65E-58
CLIC5	-2.08122	6.083608787	3.36E-60	1.69E-58
TUBB4A	-3.30179	-0.304001625	3.48E-60	1.74E-58
FGL2	-2.51838	4.78901641	3.68E-60	1.83E-58
KANK2	-1.78994	6.060631332	4.64E-60	2.31E-58
CCBE1	-3.58055	1.203414625	5.3E-60	2.63E-58
RNF150	-3.05687	2.355558171	7.64E-60	3.77E-58
CEACAM20	-4.59559	-1.528967626	7.83E-60	3.86E-58
SMIM14	-1.70313	6.314852348	9.09E-60	4.47E-58

ARL14	-2.26841	3.480018695	9.59E-60	4.7E-58
KIAA1257	3.596143	2.309001011	9.6E-60	4.7E-58
JCHAIN	-3.76173	9.367758691	9.69E-60	4.73E-58
CLDN8	-5.67197	2.389075253	1.26E-59	6.13E-58
RBM47	-1.21792	7.436541731	1.29E-59	6.26E-58
ARHGAP44	-2.20817	4.563054043	1.34E-59	6.5E-58
CHGA	-4.50403	5.116993886	1.8E-59	8.73E-58
CASQ2	-4.30696	2.054179098	2.43E-59	1.17E-57
SLCO4C1	-3.52497	-0.0863629	3.27E-59	1.57E-57
PKNOX2	-2.63318	-0.331294032	6.29E-59	3.01E-57
TMEFF2	-3.88069	-2.166895647	6.38E-59	3.05E-57
PLN	-3.33421	3.62202009	6.58E-59	3.14E-57
OTX1	5.758448	1.661909274	8.8E-59	4.18E-57
SCUBE2	-2.53783	2.536208812	1.06E-58	5.02E-57
DDN	4.711987	1.81299045	1.62E-58	7.65E-57
C7	-3.61885	4.192082038	1.77E-58	8.33E-57
PKHD1L1	-3.35605	-0.566197265	1.78E-58	8.37E-57
JPH2	-3.02839	2.976747116	1.81E-58	8.51E-57
CNTN4	-2.428	1.642266373	2.14E-58	1E-56
MDFI	3.689094	3.926420075	3.37E-58	1.57E-56
SCNN1G	-4.39966	0.627602751	3.52E-58	1.63E-56
KCNN3	-2.18641	2.174640717	4.26E-58	1.97E-56
PCSK2	-4.61902	-0.306490991	4.77E-58	2.21E-56
TNFRSF13B	-3.28791	-0.364957939	5.34E-58	2.46E-56
P2RX2	-3.68073	-2.196770682	5.55E-58	2.55E-56
PDX1	4.82387	4.265337661	5.89E-58	2.71E-56
PAPSS2	-1.95895	6.790732226	6.72E-58	3.08E-56
SYNPO	-1.68828	6.243450962	7.41E-58	3.39E-56
LVRN	-3.11337	-1.428186808	8.35E-58	3.81E-56
HSPB6	-3.51731	3.999411033	9.51E-58	4.33E-56
TMEM171	-2.25542	4.388837334	9.95E-58	4.52E-56
EML1	-2.19761	3.303888168	1E-57	4.55E-56
FUT1	2.931358	3.239322445	1.05E-57	4.76E-56
ACACB	-1.7835	4.527723785	1.06E-57	4.79E-56
CPNE7	5.760043	5.007437568	1.1E-57	4.96E-56
ORC6	2.066796	4.058610317	1.41E-57	6.34E-56
ATP2B4	-2.06907	6.212000906	2.12E-57	9.51E-56
RIOK3	-1.45774	6.395982769	2.26E-57	1.01E-55
PACSIN2	-1.08195	6.717645604	2.7E-57	1.2E-55
CDHR5	-2.42719	7.400642076	2.86E-57	1.28E-55
ADCY9	-1.4406	4.84724108	3.86E-57	1.71E-55
MTM1	-1.30787	4.551472475	4.82E-57	2.14E-55
PINK1	-1.47293	4.709425861	5.02E-57	2.22E-55
INHBA	5.541255	5.426322934	5.53E-57	2.44E-55
C8orf88	-2.9399	-0.528651512	7.4E-57	3.25E-55
GLIPR2	-1.84903	4.555166257	7.79E-57	3.42E-55
MOBP	-2.91099	-2.129320871	8.08E-57	3.54E-55
SLCO2A1	-2.13925	4.963635153	1.01E-56	4.43E-55
SULT1A1	-2.15442	4.669004391	1.52E-56	6.58E-55
SCIN	-2.66911	4.496066331	1.53E-56	6.64E-55
TLR3	-2.0079	3.625079663	1.79E-56	7.73E-55
PLEKHN1	3.490498	2.186347599	2.11E-56	9.11E-55
FOXF2	-2.21235	2.807854966	2.13E-56	9.17E-55
C5orf30	-1.36458	4.938518352	2.57E-56	1.1E-54
POLR1B	1.275928	5.467253212	2.69E-56	1.15E-54
PRSS22	4.14275	4.674014702	2.83E-56	1.21E-54



SLC2A2	-5.09914	-0.875515752	3.1E-56	1.32E-54
AUNIP	2.275847	2.523810382	3.38E-56	1.44E-54
ARHGEF25	-2.29291	2.960797023	4.29E-56	1.82E-54
ITGA8	-1.94861	2.369675035	5.21E-56	2.21E-54
TTC26	1.802941	3.289579345	5.68E-56	2.4E-54
STIM1	-1.03836	5.85449393	7.45E-56	3.15E-54
NEBL	2.477678	6.629377902	7.88E-56	3.32E-54
LEXM	-2.54769	-1.642662429	9.01E-56	3.79E-54
PLCL2	-2.33179	3.196524367	1.33E-55	5.56E-54
C1orf210	-1.55992	4.772973224	1.34E-55	5.63E-54
P2RX1	-2.26074	1.328531731	1.36E-55	5.7E-54
TNS1	-2.67143	6.969154491	1.42E-55	5.91E-54
PUS7	1.767702	5.09280943	1.43E-55	5.97E-54
SLC39A10	2.026475	5.375810981	1.55E-55	6.42E-54
KCNE2	-2.66185	-2.238970894	1.93E-55	8E-54
TMEM206	1.610117	3.534949631	2.05E-55	8.45E-54
MYOCD	-2.89513	2.724761305	2.07E-55	8.52E-54
PTGDR2	-2.54788	1.272603832	2.13E-55	8.75E-54
B3GNT7	-3.15886	5.72409594	3.34E-55	1.37E-53
MALL	-2.27602	3.868333222	3.37E-55	1.38E-53
SLC7A5	3.153908	7.662970975	3.72E-55	1.52E-53
EPB41L3	-2.60426	4.546516361	4.87E-55	1.99E-53
PPP2R3A	-1.92531	3.232840596	6E-55	2.44E-53
PDE8A	-1.15524	5.432017249	6.22E-55	2.52E-53
CDKL1	-1.65736	1.101684888	6.25E-55	2.52E-53
SSTR2	-2.32801	0.59341236	6.33E-55	2.55E-53
GPT	-2.88296	4.180337623	6.73E-55	2.71E-53
ZC3HAV1L	2.199953	3.015415071	8.4E-55	3.37E-53
SPATA12	3.562345	0.255622132	8.55E-55	3.43E-53
GFRA1	-2.96143	2.243337286	8.86E-55	3.54E-53
MARVELD3	-1.2638	5.404833099	9.46E-55	3.78E-53
KCNMA1	-2.94931	4.413764969	1.08E-54	4.31E-53
CLEC9A	-2.70814	-1.646568569	1.15E-54	4.57E-53
HJURP	1.781297	4.724848993	1.34E-54	5.31E-53
EPM2A	-1.46003	2.115948981	1.79E-54	7.07E-53
TEAD4	2.350022	4.933976586	2.33E-54	9.19E-53
XPO5	1.295455	6.314463204	2.57E-54	1.01E-52
SORCS1	-3.52946	0.314711097	2.83E-54	1.11E-52
ARL4D	-2.21918	1.690818646	3.58E-54	1.4E-52
AOC3	-2.67333	5.02583524	3.75E-54	1.46E-52
GTPBP4	1.195355	6.190364713	4.52E-54	1.76E-52
C4orf19	-1.62557	4.347293218	5.13E-54	1.99E-52
SLC5A12	-3.85768	0.23685182	5.47E-54	2.12E-52
RCAN2	-1.88163	3.216849177	6.1E-54	2.36E-52
FXND6	-2.52307	3.78334633	6.5E-54	2.51E-52
KRT20	-2.72616	8.698888732	6.95E-54	2.68E-52
VSIR	-1.63763	5.507337993	7.27E-54	2.79E-52
GLDN	-2.48919	1.275862727	1.63E-53	6.24E-52
C15orf48	-2.35141	7.320379926	2E-53	7.66E-52
SH3BGR	-1.83597	1.252290212	2.13E-53	8.14E-52
ABHD5	-1.1604	3.856897512	2.43E-53	9.27E-52
CPNE5	-2.00254	2.834786985	2.62E-53	9.99E-52
CBLN2	-2.82182	-0.868444461	2.96E-53	1.13E-51
HMGCLL1	-2.8209	-2.18563283	3.42E-53	1.3E-51
ZG16	-4.60497	7.321619002	3.43E-53	1.3E-51
HS3ST6	-4.18149	-2.310428604	3.49E-53	1.32E-51

FRMPD4	-4.21588	-1.9691181	4.1E-53	1.55E-51
SDCBP2	-2.27647	6.14111808	4.45E-53	1.67E-51
DMRTA1	-3.36811	-0.885731574	4.49E-53	1.69E-51
MUSK	-3.42159	-1.473009941	5.72E-53	2.14E-51
CBX2	3.675182	4.0438754	6.19E-53	2.32E-51
MORN5	-4.7209	-0.839976486	6.42E-53	2.4E-51
CBX8	1.77129	4.049999304	7.94E-53	2.96E-51
ANLN	2.19005	5.897231136	7.99E-53	2.98E-51
NEURL1B	-1.52401	5.974987152	8.36E-53	3.11E-51
DKC1	1.560596	7.264566395	8.89E-53	3.3E-51
SUGCT	-2.1017	1.741079986	9.21E-53	3.41E-51
PIANP	-2.4263	-0.336082544	9.64E-53	3.56E-51
SLC9A9	-2.07897	1.906270043	1E-52	3.7E-51
CAP2	-2.08824	2.473904426	1.02E-52	3.76E-51
CNTN2	-3.66167	-0.688126958	1.07E-52	3.93E-51
LPAR1	-2.06524	3.467051948	1.1E-52	4.04E-51
SH3TC2	3.496501	3.557521064	1.5E-52	5.51E-51
LYPD8	-3.59206	6.095712047	1.55E-52	5.65E-51
RIPK2	1.671393	4.846923481	1.57E-52	5.73E-51
CNR1	-3.54114	0.435491567	1.64E-52	5.98E-51
URB2	1.30265	4.747865811	1.73E-52	6.28E-51
LARGE2	4.543643	5.393555684	1.92E-52	6.97E-51
VIP	-3.49119	3.094647594	2.11E-52	7.63E-51
CDH19	-4.03711	0.27816436	2.42E-52	8.73E-51
GNG2	-1.87895	3.427782301	2.73E-52	9.86E-51
RAP1A	-1.10883	6.009996926	3.11E-52	1.12E-50
LMO3	-3.36757	2.316831346	3.16E-52	1.13E-50
NRG2	-2.83926	-1.553009693	4.2E-52	1.5E-50
PPP1R14A	-2.44273	3.01323166	4.87E-52	1.74E-50
ASPG	-3.05018	1.333467862	5.3E-52	1.88E-50
MYOC	-4.81573	-0.242169959	5.62E-52	2E-50
MOB3B	-1.45715	5.169563263	6.07E-52	2.15E-50
MAPK4	-3.68972	-0.217167115	6.11E-52	2.16E-50
CTNNA3	-3.58269	-0.669767398	6.92E-52	2.44E-50
ACAA2	-1.66982	7.111324441	1.15E-51	4.04E-50
ANPEP	-3.67234	8.193087972	1.22E-51	4.28E-50
GRIK5	-2.7858	0.670182084	1.33E-51	4.66E-50
DACT3	-2.43611	2.460230876	1.34E-51	4.69E-50
DISP2	-2.2545	2.73298131	1.71E-51	5.96E-50
CGREF1	3.571835	4.802804067	1.83E-51	6.37E-50
SALL4	4.831518	1.917965489	2.87E-51	9.98E-50
MRGPRF	-2.5056	3.630788776	3.51E-51	1.22E-49
TNFRSF17	-3.20309	1.310589966	4.16E-51	1.44E-49
CCND1	1.779462	7.904062025	4.3E-51	1.49E-49
BTNL3	-2.75136	4.258975585	5.46E-51	1.88E-49
CLEC10A	-2.68053	1.993760804	5.6E-51	1.93E-49
TSPAN1	-2.21789	8.783190619	6.39E-51	2.2E-49
SRI	-1.55282	7.653989147	6.57E-51	2.26E-49
REEP2	-2.41714	1.045301185	7.77E-51	2.66E-49
CWH43	-3.96171	2.618313436	8.51E-51	2.91E-49
C7orf31	-1.74142	2.543876634	1.21E-50	4.14E-49
TMOD1	-2.69653	1.205539902	1.23E-50	4.18E-49
PHOX2A	-3.5058	-2.41681498	1.35E-50	4.58E-49
FILIP1	-2.46061	1.913378949	1.6E-50	5.46E-49
FMO5	-2.02684	4.396314686	1.69E-50	5.74E-49
XRCC2	2.176369	3.239986634	1.84E-50	6.23E-49

MGLL	-1.46112	7.555794358	2.1E-50	7.11E-49
EDN2	-2.82894	0.753561329	2.13E-50	7.19E-49
ANGPTL1	-3.68182	1.958797011	2.13E-50	7.19E-49
GPM6A	-4.14292	1.210678424	2.2E-50	7.42E-49
PAQR5	-1.90863	4.589185249	2.33E-50	7.83E-49
BCAR3	-1.39795	4.3969046	2.49E-50	8.36E-49
ADTRP	-3.09722	4.633406333	2.93E-50	9.81E-49
ARHGAP20	-2.52434	0.398043491	4.45E-50	1.49E-48
WISP2	-3.57507	1.053303371	4.68E-50	1.56E-48
MYOT	-3.52272	-0.983493313	4.9E-50	1.63E-48
SUCLG2	-1.2816	7.092911139	4.97E-50	1.65E-48
ADGRB3	-3.31375	-1.019252904	5.33E-50	1.77E-48
DAAM2	-1.88874	3.249932398	5.78E-50	1.91E-48
TNFSF10	-1.46542	6.289535892	6.41E-50	2.12E-48
NOVA1	-3.01541	0.276439914	6.84E-50	2.26E-48
NR1H4	-3.80886	1.419655602	7.25E-50	2.39E-48
LGALS4	-1.85952	10.49079474	1.02E-49	3.35E-48
XKR4	-3.71808	-0.995690618	1.05E-49	3.45E-48
DNASE1L3	-3.26233	2.334404101	1.2E-49	3.95E-48
TWNK	1.556461	4.937825129	1.57E-49	5.16E-48
CCL14	-2.18143	-0.055127305	1.68E-49	5.48E-48
RUNDC3B	-2.38902	1.214830674	1.68E-49	5.48E-48
KCNB1	-3.57066	-0.018262132	1.78E-49	5.8E-48
PLSCR4	-1.58376	4.123831694	1.99E-49	6.47E-48
KRT24	-5.58998	-0.956763161	2.65E-49	8.61E-48
FJX1	2.969833	2.374540863	2.84E-49	9.2E-48
COL11A1	6.630046	5.432798304	3.22E-49	1.04E-47
SULT1B1	-2.60337	6.359617023	3.88E-49	1.25E-47
WDR43	1.307654	6.249835325	4.2E-49	1.35E-47
CPT1A	-1.23569	7.329729106	5.42E-49	1.74E-47
MET	1.964765	7.434039306	5.83E-49	1.87E-47
TMEM132A	2.635359	5.409327003	7.31E-49	2.33E-47
MRGBP	1.689177	5.410512046	8.21E-49	2.61E-47
ARHGEF37	-1.58864	3.8205888	8.89E-49	2.81E-47
HILPDA	2.452101	5.088505609	8.89E-49	2.81E-47
P2RY4	-3.41148	-1.929030056	1.02E-48	3.21E-47
GNG3	-2.18157	-1.256849507	1.02E-48	3.21E-47
CRHBP	-2.49916	-2.126400893	1.13E-48	3.55E-47
AGTR1	-3.62909	0.16959304	1.14E-48	3.6E-47
PNCK	-3.27238	1.57557879	1.17E-48	3.67E-47
TPM1	-1.52242	8.595973261	1.2E-48	3.77E-47
SKA3	2.146298	4.738652339	1.36E-48	4.25E-47
STOX2	-2.39088	0.312604739	1.47E-48	4.6E-47
KIAA1211	-2.0679	3.880553442	1.59E-48	4.97E-47
MCIDAS	3.990712	0.252064975	1.66E-48	5.16E-47
FLVCR2	-1.93238	2.924175846	1.68E-48	5.22E-47
C11orf86	-3.65492	2.556362606	1.74E-48	5.4E-47
EDIL3	-1.97563	4.80897082	1.99E-48	6.15E-47
SLC6A6	2.840807	6.93026176	2.58E-48	7.97E-47
RBKS	-1.30747	2.363875725	2.78E-48	8.57E-47
CBFB	1.446316	6.067700476	3.27E-48	1.01E-46
RUVBL1	1.432676	6.196682771	3.36E-48	1.03E-46
SEMA6A	-2.29268	5.011701452	3.36E-48	1.03E-46
HAPLN1	-2.31373	1.71691815	3.92E-48	1.2E-46
CRYAB	-2.38432	3.82215794	4.17E-48	1.28E-46
CEP72	2.053655	3.518865292	5.5E-48	1.68E-46

RHPN1	3.38541	4.87480123	6.64E-48	2.03E-46
MAB21L1	-3.16013	-1.945340354	7.05E-48	2.15E-46
RGS9	-2.0998	0.329517335	7.36E-48	2.24E-46
MSX2	4.888553	3.923363228	7.67E-48	2.33E-46
GPM6B	-2.32002	2.216455421	8.77E-48	2.66E-46
EVA1A	3.862303	3.275242784	9.64E-48	2.92E-46
NEDD4L	-1.21335	6.151546768	9.72E-48	2.94E-46
CA12	-2.21468	7.326706036	9.91E-48	2.99E-46
RBM28	1.188333	5.360696842	1.08E-47	3.24E-46
CDC25B	2.233265	7.402935678	1.2E-47	3.61E-46
DAND5	-2.81867	-1.772981566	1.39E-47	4.18E-46
RHOU	-1.45676	5.209810869	1.84E-47	5.51E-46
B4GALNT2	-4.18218	4.679195835	2.11E-47	6.29E-46
TFAP4	1.511813	4.936507203	2.17E-47	6.46E-46
CGN	-1.41622	7.090533338	2.18E-47	6.5E-46
SLC5A7	-3.96203	-1.854297314	2.24E-47	6.65E-46
CFAP157	1.985987	1.780429699	2.24E-47	6.65E-46
CADM2	-3.93037	-0.93089417	2.31E-47	6.84E-46
BEND5	-2.3328	-0.379058244	2.4E-47	7.11E-46
IQGAP3	2.001378	6.153522815	2.49E-47	7.35E-46
CSE1L	1.635832	7.528591953	2.88E-47	8.48E-46
CD3EAP	1.847115	3.223104044	2.99E-47	8.81E-46
RNF112	-2.24345	-0.266893897	3.03E-47	8.91E-46
TPX2	1.925008	7.047488519	3.44E-47	1.01E-45
QSOX2	1.325383	5.094300949	3.66E-47	1.07E-45
CNTFR	-3.85786	1.655400287	4.69E-47	1.37E-45
DUSP14	1.823264	4.010475215	4.83E-47	1.4E-45
SLC35G1	-1.3789	3.595435593	6.49E-47	1.88E-45
LRMP	-2.39337	2.23557188	6.75E-47	1.96E-45
LIMS2	-2.35479	4.70014591	8.28E-47	2.4E-45
SPEG	-2.8812	3.203243635	9.98E-47	2.88E-45
S100B	-2.28028	1.806939353	1.06E-46	3.05E-45
SCN4B	-2.08803	1.2947209	1.14E-46	3.27E-45
CLMN	-1.31437	5.915754902	1.15E-46	3.3E-45
TNFRSF12A	2.49796	5.884713471	1.3E-46	3.73E-45
ARRDC4	-1.57025	5.05891218	1.35E-46	3.86E-45
TROAP	1.99975	4.753969099	1.44E-46	4.13E-45
MXD1	-1.66563	6.289341878	1.64E-46	4.71E-45
RFC3	1.917701	5.240712912	1.76E-46	5.03E-45
GPR15	-3.52393	0.91257501	1.99E-46	5.69E-45
PJA2	-1.26507	6.277035565	2.08E-46	5.93E-45
SQOR	-1.44777	6.713435362	2.56E-46	7.28E-45
TAGLN3	-3.52294	-1.065409737	2.58E-46	7.32E-45
VWA2	4.060824	4.614581845	3.08E-46	8.72E-45
LPCAT3	-1.24113	4.546897911	3.09E-46	8.74E-45
ZNF536	-2.83745	-0.611844494	3.14E-46	8.88E-45
ALDOB	-3.46071	6.29981989	3.24E-46	9.13E-45
CPNE8	-2.05167	2.808405792	3.26E-46	9.17E-45
PDE7B	-2.04608	0.795229224	3.48E-46	9.78E-45
ATP1B2	-2.29592	0.136677667	3.73E-46	1.05E-44
SLC22A23	-1.44997	5.442615436	4.02E-46	1.13E-44
HMOX1	-1.67542	5.056211552	4.1E-46	1.15E-44
MYORG	-1.29738	6.461264396	4.28E-46	1.2E-44
TUBAL3	-2.54815	3.259726169	5.28E-46	1.47E-44
TEX10	1.112533	5.18186357	6.13E-46	1.71E-44
BYSL	1.582005	5.103393015	6.17E-46	1.72E-44

CES2	-2.06262	8.00263196	7.11E-46	1.98E-44
MOCS1	-1.78549	3.407851867	7.39E-46	2.05E-44
TLCD2	-1.49815	4.365514766	7.45E-46	2.07E-44
CCDC68	-2.00799	4.012917516	7.53E-46	2.08E-44
LYNX1	-2.47067	1.900291985	8.05E-46	2.22E-44
INAFM2	-1.41037	2.650597177	8.89E-46	2.45E-44
SLIT3	-2.41848	4.219555758	1.01E-45	2.77E-44
PEX11A	-1.26274	3.854692117	1.17E-45	3.22E-44
BCAS1	-2.44746	5.798375936	1.17E-45	3.23E-44
TTL6	-2.27255	1.420778699	1.22E-45	3.35E-44
FGFBP2	-2.76588	-1.474768342	1.27E-45	3.48E-44
EIF4E3	-1.71389	4.730859997	1.27E-45	3.48E-44
DHRS9	-3.23321	4.895659324	1.29E-45	3.53E-44
GSN	-1.77356	8.670157627	1.37E-45	3.75E-44
OGN	-3.70815	2.663600761	1.82E-45	4.98E-44
FRRS1L	-3.32431	-1.256538447	2.52E-45	6.86E-44
VAT1L	-2.03994	1.453797368	2.53E-45	6.87E-44
C1QTNF9	-2.60689	-2.222578166	2.55E-45	6.91E-44
FABP2	-3.11635	3.639440756	2.63E-45	7.13E-44
PRKCB	-2.28802	2.98184174	2.87E-45	7.77E-44
SLC7A9	-4.0058	1.365309826	3.01E-45	8.15E-44
EZH2	1.372551	5.236181584	3.03E-45	8.17E-44
EXOSC2	1.188739	5.096638103	3.3E-45	8.9E-44
PPAT	1.674869	4.756916596	3.5E-45	9.42E-44
FBXO32	-1.94437	5.627509214	3.51E-45	9.44E-44
SOX4	1.742123	7.357722349	4.05E-45	1.09E-43
COL10A1	7.949646	4.755609662	4.22E-45	1.13E-43
LAMA1	-2.41438	2.216254495	4.46E-45	1.19E-43
DCLK1	-2.67934	1.445898859	4.64E-45	1.24E-43
GPX3	-2.29258	5.295783936	4.96E-45	1.32E-43
SIAE	-1.4426	6.753800456	5.53E-45	1.48E-43
TGFB1	3.299556	9.913128642	6.02E-45	1.6E-43
CCT6A	1.232068	8.203792815	6.17E-45	1.64E-43
FAM161B	-1.327	1.923624004	6.75E-45	1.79E-43
SLC2A13	-1.60213	4.05276919	8.55E-45	2.27E-43
PLS1	-1.37052	7.771205876	1.02E-44	2.7E-43
HSD17B11	-1.28397	6.898372183	1.02E-44	2.7E-43
TMEM140	-1.24316	4.001724905	1.11E-44	2.95E-43
NACAD	-2.08379	0.80750175	1.12E-44	2.95E-43
GDPD3	-2.14466	3.716352494	1.22E-44	3.21E-43
ENHO	-2.55857	-0.423344575	1.57E-44	4.13E-43
UBE2C	2.18792	6.475891595	1.6E-44	4.2E-43
DCUN1D5	1.553047	4.867156047	1.8E-44	4.73E-43
PDCD2L	1.640537	3.535813274	2.34E-44	6.11E-43
NKRF	1.476315	4.199037253	2.57E-44	6.7E-43
CMA1	-3.68062	-1.054758886	2.59E-44	6.75E-43
SLC23A3	-1.95465	1.153869541	2.65E-44	6.91E-43
HMCN2	-2.38538	4.265426162	3.01E-44	7.84E-43
NCAPG2	1.410976	5.476490729	3.13E-44	8.14E-43
MYO1A	-1.97157	6.595554231	3.27E-44	8.49E-43
BEST2	-3.70496	2.534921898	3.47E-44	8.98E-43
DPF3	-2.26173	1.177529997	3.83E-44	9.9E-43
TRIM29	4.463754	6.548673289	4.3E-44	1.11E-42
HRCT1	-2.47044	3.162283987	4.82E-44	1.24E-42
SNTB1	2.331432	5.997962448	5.03E-44	1.3E-42
MOGAT2	-2.78827	4.905907736	5.38E-44	1.38E-42

MAOA	-1.91515	7.252638215	6.49E-44	1.66E-42
NOP2	1.466062	6.124309392	6.67E-44	1.71E-42
CST1	8.453871	4.818839172	6.96E-44	1.78E-42
TMIGD3	-2.03995	1.556096648	7.46E-44	1.9E-42
MMP28	-2.52024	3.613682481	8.2E-44	2.09E-42
NPY	-3.46821	-2.136394797	9.25E-44	2.35E-42
B3GALT1	-3.21494	1.563722008	9.91E-44	2.52E-42
PEG3	-2.48896	0.988784629	1.01E-43	2.57E-42
PPP1R1A	-3.35969	0.521836717	1.05E-43	2.65E-42
SLC52A1	-2.70281	0.795630465	1.43E-43	3.63E-42
WDR75	1.183182	5.604966461	1.5E-43	3.78E-42
PAMR1	-1.70885	2.515156967	1.78E-43	4.5E-42
GALNT16	-2.65867	0.645682361	1.93E-43	4.88E-42
ARNTL2	2.50841	4.870322665	1.94E-43	4.88E-42
FAM89A	1.865198	3.573615663	1.94E-43	4.89E-42
CPED1	-2.18115	3.440886162	1.95E-43	4.9E-42
SOX9	1.955076	7.994884924	1.98E-43	4.97E-42
GAP43	-3.09595	0.31744609	2.12E-43	5.32E-42
APLN	3.211598	3.290419156	2.21E-43	5.53E-42
UGT2B15	-3.15161	2.828048581	2.34E-43	5.85E-42
STYK1	-1.65723	3.603141771	2.35E-43	5.86E-42
ADGRL3	-2.38011	1.410666947	2.8E-43	6.97E-42
EPHA7	-3.36954	1.98594673	2.85E-43	7.1E-42
ITGA7	-1.89383	4.099494131	3.25E-43	8.09E-42
RFWD3	1.045442	5.900649735	3.5E-43	8.68E-42
SPARCL1	-2.16288	6.466529588	4.3E-43	1.07E-41
AKR1B10	-3.01106	4.836585178	4.73E-43	1.17E-41
ATP11A	2.190246	6.562565677	4.75E-43	1.17E-41
B3GNTL1	1.590075	2.989794584	5.1E-43	1.26E-41
ANAPC7	1.003083	5.794830396	5.45E-43	1.34E-41
APOBEC3A	-2.68815	0.296678434	5.67E-43	1.39E-41
JPH4	-2.46771	-0.903575538	5.97E-43	1.47E-41
STPG1	-1.08749	3.460406242	6.15E-43	1.51E-41
DDX55	1.156345	4.639192497	6.23E-43	1.53E-41
EPHA6	-3.74246	-1.817385823	6.28E-43	1.54E-41
DSCC1	2.039077	3.946082391	6.43E-43	1.57E-41
UGT2B17	-4.04491	6.315772909	6.69E-43	1.63E-41
DES	-3.71909	8.395939439	6.8E-43	1.66E-41
SHCBP1	1.51931	3.930332488	7.53E-43	1.83E-41
SPERT	7.039169	-0.168886534	8.3E-43	2.02E-41
CCNO	3.062592	3.444120156	9.25E-43	2.25E-41
MPP2	-1.99115	1.006183696	9.67E-43	2.35E-41
TMEM41A	1.074797	5.425933553	1.03E-42	2.49E-41
RSPO2	-3.43172	0.378227306	1.06E-42	2.58E-41
SMOX	2.415898	4.692382177	1.14E-42	2.76E-41
TGIF2	1.958881	5.358433514	1.19E-42	2.87E-41
ANO5	-3.08991	1.216627603	1.34E-42	3.24E-41
CMSS1	1.53483	4.825959353	1.5E-42	3.62E-41
PRR7	3.609145	3.51926801	1.54E-42	3.7E-41
ARHGEF18	-1.29607	3.511119865	1.58E-42	3.79E-41
DIXDC1	-1.52503	4.037611186	1.75E-42	4.21E-41
TMEM59L	-2.89147	-0.39826482	1.95E-42	4.67E-41
RNASEL	-1.25259	3.838925445	2.05E-42	4.9E-41
ECT2	1.938912	6.531400362	2.11E-42	5.05E-41
RCL1	1.08322	3.98352737	2.39E-42	5.71E-41
MSRB3	-2.30023	4.624608502	2.5E-42	5.96E-41

IGSF3	-1.25894	4.891474232	2.67E-42	6.38E-41
P2RX4	-1.29746	5.543688414	2.73E-42	6.5E-41
PAFAH2	-1.11956	5.074054352	2.81E-42	6.68E-41
SLC16A12	-2.57142	-2.308416731	2.86E-42	6.8E-41
PGM1	-1.41445	6.339900011	2.91E-42	6.9E-41
IGSF10	-2.71128	0.84556369	3.27E-42	7.76E-41
KAT2B	-1.59465	3.800831591	3.74E-42	8.86E-41
BMP2	-1.82815	4.400415423	4.32E-42	1.02E-40
PCK1	-2.73032	6.159748379	4.88E-42	1.15E-40
GARS	1.303552	7.473046695	5.38E-42	1.27E-40
GDNF	-2.13596	0.328470195	5.55E-42	1.31E-40
SALL2	-2.20842	1.299781137	5.56E-42	1.31E-40
ELMSAN1	-1.05603	5.447929795	5.86E-42	1.38E-40
CYP2D6	-2.37723	1.38861612	6.04E-42	1.42E-40
CD209	-2.31141	3.041284552	7.42E-42	1.74E-40
MPEG1	-2.02168	4.88496955	7.55E-42	1.77E-40
PLCD4	-1.44619	1.770390636	7.75E-42	1.81E-40
EGFL6	3.536024	1.9173622	7.86E-42	1.84E-40
RRP12	1.470405	5.998371853	8.29E-42	1.94E-40
KLK6	9.584202	4.900885406	9.21E-42	2.15E-40
IGFL4	5.6852	1.318640078	9.56E-42	2.22E-40
CCDC152	-2.35769	0.864484407	9.56E-42	2.22E-40
SORBS1	-2.09504	6.037089559	9.79E-42	2.27E-40
TSHZ1	-1.21193	4.887159334	9.93E-42	2.3E-40
TCF7L1	-1.49364	2.648421953	9.94E-42	2.3E-40
XPOT	1.444184	6.874570485	1.14E-41	2.64E-40
MMP7	7.20095	6.163640407	1.26E-41	2.91E-40
KAT2A	1.589037	6.524208939	1.26E-41	2.91E-40
TMEM238L	-1.80175	4.68101292	1.27E-41	2.93E-40
LEMD1	6.114992	2.048523964	1.31E-41	3.03E-40
IGSF9	-1.77975	4.746274506	1.36E-41	3.14E-40
UTP4	1.254575	6.026331921	1.37E-41	3.15E-40
PSAT1	2.778346	5.969519765	1.42E-41	3.26E-40
XDH	-2.30821	5.114472445	1.5E-41	3.45E-40
ITM2A	-2.05667	3.126101572	1.57E-41	3.58E-40
CEND1	-2.29682	-1.240069062	1.66E-41	3.79E-40
TTLL4	1.175392	5.163690195	1.77E-41	4.04E-40
FAM163B	-3.03132	-1.353737467	1.82E-41	4.16E-40
DUSP26	-2.69654	-1.091551216	1.98E-41	4.51E-40
PRKACB	-1.94713	5.848673393	2.05E-41	4.65E-40
RPGRIP1L	1.419007	3.343556837	2.45E-41	5.57E-40
ADAMTSL1	-2.03931	2.331578524	2.84E-41	6.44E-40
KIF18B	1.863756	4.602244932	2.95E-41	6.67E-40
CLIP3	-1.88315	3.650392939	2.97E-41	6.71E-40
TESC	4.68416	5.883785911	3.52E-41	7.95E-40
ANO10	-1.09525	5.576978516	4.11E-41	9.25E-40
EPAS1	-1.209	7.270994516	4.82E-41	1.08E-39
SIGLEC11	-2.28991	-1.408928321	5.03E-41	1.13E-39
DDIAS	2.041775	3.360853184	5.65E-41	1.27E-39
RTKN	1.251468	6.331517077	5.92E-41	1.33E-39
MMRN1	-2.9589	2.407696423	6.15E-41	1.38E-39
CBX4	1.616165	5.403971923	6.57E-41	1.47E-39
RYR3	-2.08794	0.619562486	7.3E-41	1.63E-39
C5orf34	1.677544	2.115303157	7.38E-41	1.65E-39
ADAMTSL2	3.517383	4.515110975	7.94E-41	1.77E-39
MCM10	1.806864	3.847570268	8.95E-41	1.99E-39

PUM3	1.211901	5.63702933	1.08E-40	2.4E-39
SSBP2	-1.81418	2.802540446	1.09E-40	2.42E-39
B3GALT4	-1.45779	3.64283882	1.12E-40	2.49E-39
CDK2	1.108149	5.394015392	1.14E-40	2.52E-39
C2orf70	3.494574	2.440834262	1.14E-40	2.52E-39
P2RY12	-2.67852	-1.106967611	1.14E-40	2.53E-39
KIF20A	1.600333	4.783743772	1.19E-40	2.62E-39
CYBRD1	-2.01868	5.729451866	1.22E-40	2.68E-39
S100A11	1.977623	8.783431065	1.27E-40	2.79E-39
KIF5A	-2.51166	0.922340775	1.3E-40	2.87E-39
CNTD2	4.958705	2.558988247	1.45E-40	3.2E-39
MMP11	4.421206	6.926365465	1.49E-40	3.28E-39
SLC35D1	-1.21445	6.140165501	1.5E-40	3.29E-39
CYP4B1	-2.79295	-0.762035809	1.7E-40	3.72E-39
TOMM34	1.823102	6.578478543	1.85E-40	4.04E-39
MT2A	-2.16655	6.371396683	1.88E-40	4.09E-39
CAV1	-1.90135	5.688457972	1.88E-40	4.09E-39
SLC9A1	-1.40492	6.277276127	2.05E-40	4.46E-39
ABCA9	-2.64288	0.523796324	2.2E-40	4.78E-39
LRRC8E	2.52624	0.218585158	2.52E-40	5.47E-39
NLGN1	-3.43201	-1.118391666	2.52E-40	5.47E-39
ASB5	-4.40769	-1.15017392	2.89E-40	6.26E-39
KLF9	-1.74257	4.825389365	3.39E-40	7.35E-39
BMX	-2.27339	1.114099733	3.43E-40	7.42E-39
FTSJ1	1.240178	5.643674969	3.64E-40	7.87E-39
SMTN	-1.53763	7.044166523	3.83E-40	8.25E-39
DSC2	-1.44812	7.000136148	4.9E-40	1.06E-38
FCRL4	-3.01977	-1.896925169	5.12E-40	1.1E-38
LRAT	-3.30271	-1.490520505	5.15E-40	1.11E-38
ZMYND19	1.490797	4.876501314	5.68E-40	1.22E-38
ACAT1	-1.23046	5.989498844	6.16E-40	1.32E-38
CTHRC1	3.901307	4.978285182	6.63E-40	1.42E-38
BUB1	1.529097	5.384094475	6.84E-40	1.46E-38
SLC22A4	-1.66898	1.679715702	7.43E-40	1.59E-38
IARS	1.190367	7.563773639	7.53E-40	1.61E-38
FEV	-3.73653	-1.159765744	7.91E-40	1.69E-38
ADAMTS1	-1.85601	4.737096171	9.28E-40	1.98E-38
AOC1	-1.82935	8.086595353	1.04E-39	2.21E-38
CHODL	-2.73656	-0.52936429	1.14E-39	2.42E-38
SMIM6	-1.75832	1.852390172	1.18E-39	2.5E-38
WASHC2C	-1.04511	4.73584589	1.24E-39	2.63E-38
EME1	1.773953	2.261715173	1.26E-39	2.67E-38
LRRC66	-1.8535	3.085750237	1.52E-39	3.22E-38
CTSG	-3.2103	0.661192545	1.52E-39	3.22E-38
MAPK15	4.407193	2.793693878	1.74E-39	3.67E-38
GRIN3A	-1.9057	0.422816218	1.89E-39	3.98E-38
IL10RB	-1.0582	5.742340036	2.25E-39	4.73E-38
AKAP6	-2.03913	1.888042012	2.33E-39	4.88E-38
GLRA4	-2.76729	-0.911434005	2.37E-39	4.96E-38
TCN2	-1.65019	4.746129737	2.37E-39	4.96E-38
ARHGEF26	-1.79389	2.656985202	2.37E-39	4.96E-38
ANKRD13B	2.450228	4.194690783	2.47E-39	5.15E-38
CLU	-2.32924	6.309024383	2.63E-39	5.49E-38
CD44	1.431802	8.484599168	2.7E-39	5.63E-38
SLC12A8	1.218323	4.568133815	2.72E-39	5.66E-38
TENT5C	-1.8782	5.02065189	2.85E-39	5.93E-38



ACAN	3.122434	3.279606038	2.99E-39	6.2E-38
SETBP1	-2.0113	2.679486038	3.43E-39	7.11E-38
PAQR4	1.86519	5.063882798	3.82E-39	7.91E-38
EPB41L4B	-1.31144	6.811033156	4.19E-39	8.66E-38
ITIH5	-1.94368	4.572725662	5.23E-39	1.08E-37
SCUBE1	-2.07595	1.967292999	5.32E-39	1.1E-37
PERM1	3.081709	0.70747603	5.75E-39	1.18E-37
CYP27B1	2.016443	2.139842175	6.09E-39	1.25E-37
PLCG2	-1.79343	3.659235895	6.87E-39	1.41E-37
CA14	-1.93848	-0.252543989	7.49E-39	1.53E-37
ATG9B	3.543173	2.57135184	7.55E-39	1.54E-37
PTGER4	-1.49399	4.857867104	7.58E-39	1.55E-37
SMKR1	4.137146	0.916095991	8.17E-39	1.67E-37
NEXMIF	-3.18147	-0.854216218	8.29E-39	1.69E-37
CELSR1	2.49101	5.441961309	8.74E-39	1.78E-37
HTR7	-2.32121	-1.401625555	9.9E-39	2.02E-37
LRRN4CL	-1.83543	1.562729437	1.11E-38	2.25E-37
CAPN5	-1.40639	7.525690595	1.18E-38	2.4E-37
ANGPTL7	-3.75737	-0.744051042	1.29E-38	2.62E-37
DIAPH3	1.739744	4.333800062	1.3E-38	2.63E-37
GALNT12	-1.36632	5.686083521	1.37E-38	2.77E-37
CPEB3	-1.27423	2.543275419	1.43E-38	2.88E-37
NDN	-1.76469	3.376552837	1.49E-38	3E-37
C1QTNF2	-1.6645	0.520180608	1.52E-38	3.06E-37
SCP2	-1.03718	7.100269583	1.6E-38	3.23E-37
PRELID3A	1.988467	1.853835137	1.94E-38	3.89E-37
ENTR1	1.262629	5.766978649	2.15E-38	4.31E-37
BTBD3	-1.12362	5.447671168	2.16E-38	4.32E-37
THRB	-2.35514	3.184649766	2.16E-38	4.32E-37
WDR12	1.124234	5.641889134	2.22E-38	4.44E-37
TCEAL7	-2.04625	0.726628673	2.37E-38	4.74E-37
EYA2	-2.8231	2.505564698	2.81E-38	5.6E-37
FLNA	-2.07055	9.86058454	2.93E-38	5.85E-37
DDX56	1.121301	6.603187366	2.96E-38	5.9E-37
MASP1	-3.13195	2.530539584	3.05E-38	6.07E-37
METTL1	1.448647	4.574600829	3.26E-38	6.49E-37
FBXO41	2.090313	4.465276821	3.5E-38	6.94E-37
STRA6	5.713139	3.661767231	3.62E-38	7.18E-37
FANCI	1.433121	5.725129709	3.63E-38	7.19E-37
PMP2	-3.72811	-1.932234965	3.71E-38	7.34E-37
MYC	1.977764	8.187211996	4.05E-38	8.01E-37
PAG1	-1.63164	5.095493452	4.12E-38	8.15E-37
TMEM97	1.700635	6.277147511	4.31E-38	8.52E-37
TXNRD3	1.300867	3.134411658	4.51E-38	8.89E-37
NEK2	1.544476	4.805430761	4.69E-38	9.24E-37
MADCAM1	-2.37963	0.834758787	4.74E-38	9.33E-37
WDR66	2.74745	1.644976303	5.15E-38	1.01E-36
F13A1	-2.55629	4.340935767	5.55E-38	1.09E-36
CEP55	1.738445	5.380424201	5.7E-38	1.12E-36
KLB	-2.07197	0.061202988	5.99E-38	1.17E-36
SLC25A42	-1.20527	2.920221375	6.69E-38	1.31E-36
KIF23	1.459513	4.847091313	6.86E-38	1.34E-36
TMEM130	-2.47569	-0.236160832	7.01E-38	1.37E-36
MTHFD2	1.57246	6.62686338	7.52E-38	1.47E-36
TCP11L1	-1.0598	2.981413624	8.45E-38	1.65E-36
CDC45	1.57788	5.581748335	9.27E-38	1.8E-36

SPINK2	-2.92536	-1.270165067	9.57E-38	1.86E-36
F2RL1	-1.19343	6.7301228	9.83E-38	1.91E-36
CENPN	1.408258	4.264112096	1.06E-37	2.05E-36
FOXD3	-3.25251	-2.024328568	1.08E-37	2.1E-36
ZNF121	1.772017	5.502758144	1.11E-37	2.15E-36
HSP90AB1	1.143991	10.57408389	1.13E-37	2.18E-36
NEU4	-2.40792	3.660969762	1.14E-37	2.2E-36
WNT3	2.432144	1.863113507	1.15E-37	2.22E-36
MFAP4	-2.18981	5.660392313	1.35E-37	2.6E-36
C17orf53	1.558148	2.931761215	1.39E-37	2.67E-36
GIMAP7	-1.72346	2.52114107	1.4E-37	2.68E-36
WDR62	1.916183	4.109980833	1.5E-37	2.88E-36
NKD2	4.335997	4.646320732	1.54E-37	2.95E-36
GRHL3	3.827246	2.396395038	1.64E-37	3.14E-36
FXYS5	2.161205	6.920366941	1.67E-37	3.2E-36
POLR1C	1.372604	5.413449833	1.7E-37	3.24E-36
RCSD1	-1.63539	3.238077966	1.74E-37	3.31E-36
CYS1	-2.08057	1.454262742	1.8E-37	3.44E-36
SAPCD2	2.101893	6.259006649	1.94E-37	3.69E-36
SFTA2	7.712517	1.710537778	1.94E-37	3.69E-36
ANKS1B	-2.73888	-1.139976131	2.04E-37	3.89E-36
ETHE1	-1.55545	7.374356888	2.05E-37	3.89E-36
KIF2C	1.533512	5.300454912	2.05E-37	3.89E-36
ACVRL1	-1.56144	6.182298693	2.13E-37	4.04E-36
LGALS9C	-2.76903	2.36402214	2.4E-37	4.54E-36
TINCR	-2.80919	0.840732754	2.4E-37	4.54E-36
ZBTB16	-3.2114	0.367414174	2.43E-37	4.6E-36
NECAB1	-2.58873	0.223013314	2.45E-37	4.63E-36
TOM1L2	-1.13873	5.734913392	2.51E-37	4.73E-36
CASQ1	-2.48213	-1.765442452	2.55E-37	4.81E-36
ARMCX1	-1.78674	2.187110996	2.85E-37	5.37E-36
CES3	-2.14434	5.745024911	3.12E-37	5.85E-36
NDRG2	-1.33334	6.361512591	3.59E-37	6.73E-36
MPPE1	-1.00123	3.732490146	3.87E-37	7.24E-36
TNS4	3.494182	7.127987817	4.06E-37	7.6E-36
FANCA	1.491911	4.783658093	4.07E-37	7.6E-36
GABRD	2.875537	0.618417377	4.14E-37	7.72E-36
CLCNKB	-2.82774	-2.338375458	4.98E-37	9.28E-36
GPR37L1	-1.71228	1.440374241	5.86E-37	1.09E-35
CCNF	1.530981	5.156441589	5.88E-37	1.09E-35
MAF	-1.70479	4.517515132	6.09E-37	1.13E-35
CROT	-1.28215	3.957134415	6.95E-37	1.29E-35
SHE	-1.74103	1.949523689	8.13E-37	1.5E-35
SUSD6	-1.01753	6.221001426	8.46E-37	1.56E-35
ZNF473	1.073244	3.839204433	8.57E-37	1.58E-35
CKAP2	1.610326	5.852723574	8.67E-37	1.6E-35
STAB2	-2.06706	0.071318147	8.85E-37	1.63E-35
FOLR2	-2.2779	2.982895982	9.11E-37	1.68E-35
MACC1	2.339823	6.192465104	9.36E-37	1.72E-35
TREH	-2.45941	1.382362676	9.54E-37	1.75E-35
C2CD4A	4.365042	4.77087315	9.69E-37	1.78E-35
IRF4	-2.36545	2.779597234	1E-36	1.84E-35
CAD	1.464198	6.739441152	1.05E-36	1.93E-35
ILK	-1.2632	3.739972457	1.08E-36	1.97E-35
MELK	1.530783	5.006751853	1.08E-36	1.97E-35
C1orf112	1.314703	3.472206572	1.28E-36	2.33E-35

TMPRSS2	-1.31968	7.862723052	1.31E-36	2.39E-35
ENOPH1	1.092561	5.878309035	1.42E-36	2.58E-35
THUMPD2	1.084482	3.543062206	1.54E-36	2.81E-35
SLC16A9	-2.25066	3.900379358	1.57E-36	2.86E-35
SEMA3G	-1.96484	2.801498514	1.62E-36	2.95E-35
RCAN1	-1.14125	5.384893847	1.65E-36	3E-35
ACTR3B	1.317452	3.48188611	1.68E-36	3.05E-35
GRAMD1A	1.621454	6.441671577	1.84E-36	3.34E-35
NME1	1.783833	6.345457623	1.87E-36	3.38E-35
CD1D	-1.65045	1.566156625	1.95E-36	3.52E-35
ATP6V0D2	-2.12883	0.676794257	2.16E-36	3.9E-35
AEN	1.456633	5.621848744	2.18E-36	3.93E-35
KCNJ14	1.976958	1.409490171	2.35E-36	4.24E-35
MFSD4A	-2.0471	3.969076098	2.44E-36	4.4E-35
PTK2B	-1.21407	5.937607743	2.49E-36	4.47E-35
RGMA	-2.35288	3.309046159	2.59E-36	4.66E-35
VIT	-2.55642	-0.773500513	2.93E-36	5.26E-35
LARGE1	-1.1901	4.726695319	3.2E-36	5.74E-35
GDF15	3.265789	7.664555887	3.22E-36	5.78E-35
RAVER2	-1.06865	5.572008163	3.27E-36	5.85E-35
DBNDD1	2.525374	4.651443184	3.36E-36	6.02E-35
C1orf109	1.007046	4.290159991	3.47E-36	6.2E-35
BTBD16	3.646134	0.38429227	3.54E-36	6.32E-35
PHLDA1	2.719744	7.352945896	3.59E-36	6.4E-35
LRRC75A	-1.2371	4.67534512	3.85E-36	6.86E-35
CTPS1	1.260141	5.552670183	4.18E-36	7.44E-35
NOP58	1.319426	6.608327549	4.3E-36	7.64E-35
JPH1	1.787179	4.997203676	4.8E-36	8.54E-35
HAUS5	1.264137	4.481951072	4.93E-36	8.75E-35
UCN2	4.545949	-0.63380731	5.04E-36	8.94E-35
CAPN2	-1.12361	8.046406326	5.15E-36	9.14E-35
ULBP1	3.983309	-0.013621804	5.16E-36	9.14E-35
HAGHL	3.653284	3.633974314	5.16E-36	9.14E-35
NUGGC	-2.40532	0.281359245	5.36E-36	9.47E-35
NOP56	1.49324	7.392076713	5.47E-36	9.67E-35
POU5F1B	4.644012	3.071211944	5.96E-36	1.05E-34
PDLIM3	-2.08277	4.830406458	5.99E-36	1.05E-34
CNN2	1.265894	7.639958917	6.03E-36	1.06E-34
SESN2	-1.16473	4.738297235	6.42E-36	1.13E-34
LONRF2	-3.31176	0.459015806	6.81E-36	1.2E-34
SETD6	1.102773	4.030803285	6.86E-36	1.2E-34
MAP6	-2.07692	0.829631879	6.99E-36	1.22E-34
KLC3	5.943241	0.265571531	7.23E-36	1.27E-34
MEP1A	-2.4558	7.187566989	7.34E-36	1.28E-34
PAICS	1.348295	7.759519931	7.35E-36	1.28E-34
EMP1	-1.71314	7.184186155	7.36E-36	1.28E-34
PPARGC1B	-1.24481	4.417153329	7.4E-36	1.29E-34
GAD1	5.58167	1.985883728	8.08E-36	1.41E-34
PYCR1	1.812894	7.034077916	8.49E-36	1.48E-34
UHRF1	1.987991	4.736930262	8.73E-36	1.52E-34
RBM20	-2.48145	-0.397425724	8.81E-36	1.53E-34
TMEM30B	-1.08262	6.130142293	1E-35	1.73E-34
KRT23	7.207282	6.042598688	1.02E-35	1.76E-34
GIMAP1	-1.62703	1.95002551	1.41E-35	2.44E-34
ZNF692	1.626015	4.623648667	1.46E-35	2.52E-34
CKAP2L	1.602767	4.043300089	1.48E-35	2.56E-34

ISX	-2.40583	4.766629428	1.49E-35	2.57E-34
TIMP1	2.081495	8.244171673	1.53E-35	2.63E-34
DENND1C	-1.07295	4.945696484	1.61E-35	2.78E-34
CD160	-2.15865	-0.408679441	1.64E-35	2.82E-34
CENPI	1.698991	3.178455819	1.67E-35	2.87E-34
SLC4A11	4.151845	3.200154939	1.68E-35	2.88E-34
SCD	2.393008	9.050334229	1.68E-35	2.89E-34
CELSR3	2.745017	4.575856067	1.69E-35	2.9E-34
STRIP2	2.573232	3.027273178	1.79E-35	3.06E-34
MAPK10	-1.9031	1.020707759	1.87E-35	3.2E-34
KLHL35	4.041005	2.931174913	1.87E-35	3.2E-34
AURKA	1.608121	5.730227236	1.9E-35	3.25E-34
RIMS4	-3.45433	-1.090069414	2.12E-35	3.62E-34
CHL1	-2.38083	2.12707803	2.17E-35	3.7E-34
DNAJC28	-1.46631	-0.336445807	2.28E-35	3.89E-34
STPG4	4.931907	0.470248361	2.37E-35	4.04E-34
TST	-1.47591	7.509673428	2.86E-35	4.86E-34
PLCD3	-1.56102	6.914198952	2.99E-35	5.07E-34
UGT2A3	-3.20145	4.433485046	3.03E-35	5.13E-34
KCNIP4	-1.88017	1.022777045	3.54E-35	6E-34
CENPA	1.557238	3.59577638	3.62E-35	6.13E-34
RAD54B	1.980299	2.10919193	3.66E-35	6.19E-34
LYAR	1.466339	4.979474144	3.69E-35	6.23E-34
CASP5	-2.12468	2.991931197	4.07E-35	6.87E-34
ANKRD35	-1.80191	0.213722473	4.28E-35	7.21E-34
E2F7	1.989558	3.145154521	4.34E-35	7.31E-34
NFXL1	1.08116	4.098396308	4.9E-35	8.22E-34
ARMC10	1.119049	5.585360359	5.26E-35	8.83E-34
MGAT4A	-1.21918	6.115209776	5.39E-35	9.04E-34
PABPC1L	3.069487	4.807469637	5.67E-35	9.49E-34
MFS12	1.627352	6.115647306	5.71E-35	9.56E-34
CCDC78	3.680074	1.903640088	5.92E-35	9.9E-34
GLS2	2.68438	0.284899795	5.98E-35	1E-33
SLC41A2	-1.49295	4.511483007	6.13E-35	1.02E-33
IL16	-1.72855	3.27634294	6.25E-35	1.04E-33
POP1	1.50767	4.038663067	6.37E-35	1.06E-33
RASGEF1C	-2.93068	-1.992806333	7.14E-35	1.19E-33
TBC1D24	1.039884	4.031649854	7.45E-35	1.24E-33
CDC43	1.587455	4.72311028	8.17E-35	1.36E-33
VIPR1	-1.64057	5.421082078	8.8E-35	1.46E-33
PUS1	1.635483	5.63955792	9.03E-35	1.5E-33
CCL15-CCL1	-2.09176	-0.270282322	9.31E-35	1.54E-33
EXO1	1.641502	3.898513716	9.49E-35	1.57E-33
RAD18	1.150079	4.721363674	9.61E-35	1.59E-33
LIMA1	-1.33404	7.535570669	9.75E-35	1.61E-33
GINS1	1.829919	5.087308857	9.87E-35	1.63E-33
NOLC1	1.156606	7.455546419	1.01E-34	1.67E-33
IGSF11	-2.95371	-1.807354839	1.02E-34	1.68E-33
PDZK1	-2.40267	0.719903614	1.07E-34	1.77E-33
PLXNA1	1.379985	6.445932824	1.08E-34	1.78E-33
FOXN3	-1.19481	5.588104944	1.09E-34	1.79E-33
RFC4	1.305769	4.638134136	1.17E-34	1.92E-33
NAT10	1.106994	6.573583265	1.18E-34	1.94E-33
TXNIP	-1.48445	8.958046714	1.22E-34	2E-33
RASL12	-1.62233	2.912606594	1.23E-34	2.01E-33
GFRA3	-2.74362	0.356573755	1.31E-34	2.15E-33

SFRP5	-3.65037	-0.071444563	1.4E-34	2.28E-33
TMEM255A	-2.16491	0.218240805	1.61E-34	2.64E-33
FGFR2	-2.12554	4.421096565	1.64E-34	2.67E-33
ADAT2	1.603108	4.126349726	1.64E-34	2.67E-33
ATCAY	-3.01684	-1.60609356	1.77E-34	2.88E-33
MARCKS	-1.12828	7.577453983	1.95E-34	3.16E-33
FAM227A	2.489723	1.331038918	2.1E-34	3.4E-33
BCL2L11	-1.01157	4.74806782	2.12E-34	3.44E-33
RNF183	3.327747	2.470616727	2.19E-34	3.54E-33
NOTUM	9.452816	6.248789339	2.21E-34	3.58E-33
CFP	-1.74016	1.196133832	2.35E-34	3.8E-33
GRHL1	2.384676	2.682332777	2.4E-34	3.87E-33
TCEAL2	-3.64102	-0.020445009	2.47E-34	3.98E-33
GTSE1	1.419785	4.456615355	2.52E-34	4.07E-33
PAQR8	-1.4882	6.604141152	2.66E-34	4.28E-33
GPA33	-1.7972	8.24482112	2.72E-34	4.38E-33
PGR	-2.39305	0.521636615	2.91E-34	4.67E-33
PLA2G5	-2.32278	0.286968938	2.96E-34	4.75E-33
CPXM2	-2.3462	3.641505409	2.98E-34	4.79E-33
B3GALT5	-2.61252	5.428735934	3.07E-34	4.92E-33
C1QTNF7	-2.50424	0.92190539	3.12E-34	5E-33
PRDM12	2.894897	-1.437343685	3.3E-34	5.29E-33
PRMT3	1.33512	4.744756759	3.32E-34	5.31E-33
VEGFA	1.539005	7.483329182	3.33E-34	5.33E-33
CLEC4G	-2.94203	-1.307795258	3.4E-34	5.43E-33
BAALC	-2.15958	-0.384468874	3.47E-34	5.53E-33
OXTR	2.882611	1.27709871	3.77E-34	6.01E-33
CST2	6.167942	0.849424324	3.79E-34	6.04E-33
CD36	-2.342	3.59642018	4E-34	6.36E-33
ZSWIM4	1.440827	4.301129528	4.18E-34	6.64E-33
JAM3	-1.4346	3.932127301	4.57E-34	7.26E-33
ATAD2	1.701965	5.768987387	4.75E-34	7.54E-33
KPNA2	1.318383	7.115039219	5.15E-34	8.17E-33
NCAPD3	1.133287	5.702215416	5.19E-34	8.23E-33
GNL3	1.190758	6.848776403	5.37E-34	8.51E-33
MEX3A	2.917035	4.02226799	6.01E-34	9.51E-33
MTBP	1.830044	3.0020257	6.18E-34	9.77E-33
NUF2	1.817639	4.072758052	6.55E-34	1.04E-32
KIF13B	-1.24732	6.57431782	6.84E-34	1.08E-32
STUM	-3.09507	2.012495613	7.54E-34	1.19E-32
WDR77	1.436077	5.851463632	7.71E-34	1.22E-32
SEC14L5	-2.31981	-0.399245833	7.8E-34	1.23E-32
ZNF835	-2.07635	-1.207702745	8E-34	1.26E-32
RGS16	2.303515	4.330311745	8.24E-34	1.3E-32
MSX1	3.443569	2.868790007	8.64E-34	1.36E-32
TCF7	1.964574	5.760231369	8.79E-34	1.38E-32
NMB	2.030096	2.880414441	8.81E-34	1.38E-32
PRR36	4.087038	3.11785228	8.98E-34	1.41E-32
TRIM9	-2.36165	0.392031627	9.61E-34	1.51E-32
KIF4A	1.435299	5.185595111	9.64E-34	1.51E-32
ATRNL1	-2.84136	-0.005892589	9.65E-34	1.51E-32
ASCL2	3.963485	6.850509894	9.72E-34	1.52E-32
KLRB1	-1.86058	1.58081787	9.9E-34	1.55E-32
RHBDF2	1.559723	5.678466957	9.91E-34	1.55E-32
ERCC6L	1.846963	3.261815908	1.11E-33	1.73E-32
GCNT4	-2.15829	1.151158075	1.11E-33	1.73E-32

SMYD5	1.12509	5.406516671	1.12E-33	1.73E-32
PCOLCE2	-3.04275	1.139267478	1.2E-33	1.87E-32
RRM2	1.568281	6.931266546	1.24E-33	1.92E-32
WDR4	1.587679	4.615072582	1.32E-33	2.05E-32
PRR5L	-1.14091	5.68931177	1.34E-33	2.08E-32
JADE3	1.449667	4.568348976	1.58E-33	2.44E-32
MRPL17	1.30455	6.010176505	1.61E-33	2.49E-32
SLC44A4	-1.46792	8.379572492	1.62E-33	2.51E-32
E2F1	1.938055	5.135761729	1.69E-33	2.61E-32
DDX10	1.143422	5.188627658	1.76E-33	2.71E-32
FMN2	-3.24147	-0.005833514	1.89E-33	2.9E-32
CHEK1	1.313914	4.932843182	1.97E-33	3.02E-32
ULBP3	2.155904	0.763261021	1.98E-33	3.03E-32
XPNPEP3	1.185064	4.579598867	2.13E-33	3.27E-32
C14orf132	-1.99155	2.724869985	2.22E-33	3.41E-32
EHHADH	-1.17425	4.495097491	2.25E-33	3.45E-32
RAE1	1.394922	6.033744973	2.29E-33	3.5E-32
NIPAL1	-1.26631	4.940699763	2.31E-33	3.53E-32
SLITRK3	-3.51248	-1.209079714	2.31E-33	3.53E-32
IQC�	-1.96986	1.480826535	2.62E-33	4E-32
TBC1D30	1.43017	4.112832789	3.15E-33	4.8E-32
UBE2S	1.88204	5.315575301	3.82E-33	5.81E-32
HBB	-2.56997	4.581860618	3.94E-33	5.99E-32
CENPP	1.132291	2.639382681	3.97E-33	6.03E-32
C19orf48	1.984164	6.927031328	4.17E-33	6.32E-32
SIGLEC8	-2.2327	0.055854183	4.29E-33	6.5E-32
CSNK1E	1.012155	6.93376387	4.43E-33	6.7E-32
UTP14A	1.421868	5.522609714	4.44E-33	6.71E-32
RIC3	-2.70127	-0.810397476	4.7E-33	7.1E-32
CMTM8	1.36835	3.99235705	4.8E-33	7.23E-32
OLFML2A	-1.4504	4.179991393	5.04E-33	7.6E-32
RAB9B	-2.02904	0.481060779	5.15E-33	7.76E-32
SCLY	1.490316	2.507198974	5.28E-33	7.94E-32
TMEM108	-1.81125	-0.551866351	5.28E-33	7.94E-32
SLC22A17	-1.72993	2.567535489	5.41E-33	8.12E-32
SLC35F1	-1.99334	-0.366250481	5.44E-33	8.16E-32
PROB1	-1.19826	2.365090379	5.47E-33	8.2E-32
MYO1D	-1.12608	8.782191497	5.89E-33	8.83E-32
UBE2T	1.615727	4.783951062	6.02E-33	9.02E-32
AQP7	-1.98211	1.874034109	6.08E-33	9.1E-32
HSPB7	-2.68321	3.057758719	6.6E-33	9.86E-32
FCRLA	-2.69185	0.458875948	6.61E-33	9.87E-32
NOS1	-3.20761	0.086665264	6.76E-33	1.01E-31
NUP107	1.033764	5.653101033	6.98E-33	1.04E-31
TAMM41	1.035454	3.689338481	7.43E-33	1.11E-31
ZIK1	-1.57561	0.007012988	7.67E-33	1.14E-31
TAX1BP3	-1.0334	4.974856293	8.77E-33	1.31E-31
RECQL4	2.264585	5.546600758	8.9E-33	1.32E-31
CHAF1B	1.40587	4.138082082	9.25E-33	1.37E-31
RAD54L	1.565216	3.7604602	9.47E-33	1.4E-31
CCL28	-2.04828	5.155870394	9.55E-33	1.42E-31
EIF3B	1.21639	8.404279347	9.93E-33	1.47E-31
FABP1	-2.75145	9.230350195	1.01E-32	1.5E-31
COL7A1	3.230851	5.264197524	1.05E-32	1.55E-31
YTHDF1	1.068357	6.61472787	1.06E-32	1.56E-31
ATP13A4	-2.44142	0.484712415	1.07E-32	1.58E-31

CDHR2	-2.28236	5.982769869	1.1E-32	1.62E-31
RERG	-2.14538	2.039051203	1.16E-32	1.7E-31
NUDCD1	1.522125	5.180910279	1.16E-32	1.71E-31
PBX4	1.999743	1.934817487	1.21E-32	1.78E-31
PPP1R3C	-2.1716	1.568674897	1.23E-32	1.81E-31
SLC9A2	-2.06228	4.820593856	1.46E-32	2.13E-31
RACGAP1	1.181916	6.092324839	1.48E-32	2.17E-31
CDC4A	1.496381	4.854578176	1.53E-32	2.23E-31
HSPD1	1.35347	9.414656982	1.53E-32	2.23E-31
HACD3	1.143649	7.137004447	1.9E-32	2.78E-31
ANKZF1	1.017485	5.537734245	1.93E-32	2.81E-31
CHRDL1	-2.95773	3.632651831	1.95E-32	2.84E-31
KIF14	1.932848	3.634155121	1.95E-32	2.84E-31
TLX1	4.018465	1.98199301	2.41E-32	3.5E-31
SLC8A2	-2.81467	0.31627463	2.48E-32	3.61E-31
NCAPH	1.322664	4.754968738	2.5E-32	3.62E-31
RUNX1	1.436762	6.298733054	2.5E-32	3.63E-31
FCER1A	-2.34035	-0.115127477	2.53E-32	3.67E-31
SLC7A14	-3.4979	-1.289129092	2.67E-32	3.86E-31
ACSM5	-2.47149	-1.4680789	2.68E-32	3.88E-31
DDX21	1.272623	7.509756884	2.68E-32	3.88E-31
CD101	-1.37116	1.301264816	2.68E-32	3.88E-31
CNTNAP3	-2.52619	-0.963069955	2.7E-32	3.9E-31
ZNF229	-2.03702	-0.810582808	2.73E-32	3.94E-31
TMEM105	2.782949	1.08284125	2.85E-32	4.11E-31
PLXNA2	-1.13881	6.02383205	2.95E-32	4.25E-31
URB1	1.094998	5.792790289	3.19E-32	4.59E-31
PRR11	1.396217	4.661579518	3.22E-32	4.63E-31
PPA1	1.276042	8.420037462	3.29E-32	4.73E-31
SLC1A1	-1.8432	4.537142956	3.29E-32	4.73E-31
VAMP2	-1.18692	5.21456958	3.58E-32	5.13E-31
ACE	-1.63562	5.377027348	3.65E-32	5.24E-31
GRIA4	-2.5142	-1.107380006	3.7E-32	5.31E-31
PDE5A	-1.65617	4.714212476	3.76E-32	5.39E-31
POLD4	-1.08563	4.810026928	3.83E-32	5.48E-31
LGR4	-1.16826	6.332000363	3.97E-32	5.69E-31
RNF43	2.327808	8.130510959	4.09E-32	5.85E-31
CCDC158	-1.94452	-1.485061953	4.14E-32	5.92E-31
WDR74	1.274008	5.28583847	4.16E-32	5.94E-31
IMPDH1	1.677436	6.646161561	4.21E-32	6E-31
ASTN1	-3.2955	-1.509080563	4.52E-32	6.44E-31
RND2	-2.13778	-0.393890268	4.84E-32	6.9E-31
GRIN2B	3.540615	3.002012073	4.94E-32	7.02E-31
NPR1	-1.71053	2.310599444	5.07E-32	7.21E-31
KIF5C	-2.00377	1.021910938	5.58E-32	7.93E-31
HOMER1	2.183549	3.278645825	5.83E-32	8.28E-31
CDC4A7	1.772804	7.278469944	5.97E-32	8.47E-31
MTFR2	1.5371	3.145591405	6.49E-32	9.19E-31
CDC45	1.768834	4.521147692	6.87E-32	9.73E-31
HTR3E	-3.28748	-1.410423828	7.13E-32	1.01E-30
TOP1MT	1.869077	6.171233553	7.17E-32	1.01E-30
MCM3	1.128387	7.419779092	7.32E-32	1.04E-30
GCSAML	-2.32543	-1.418947042	7.93E-32	1.12E-30
GYPC	-1.63587	3.346468862	8.02E-32	1.13E-30
CDC6	1.748753	5.380951604	8.02E-32	1.13E-30
ACADM	-1.22915	5.437985894	8.05E-32	1.13E-30

MAST2	-1.00574	6.581838361	8.17E-32	1.15E-30
NOL6	1.119993	6.278973956	8.28E-32	1.16E-30
CENPH	1.461974	4.030796594	8.51E-32	1.19E-30
NOB1	1.251205	6.413790013	9.12E-32	1.28E-30
VDR	-1.08309	6.807173681	9.43E-32	1.32E-30
RNFT2	2.039286	2.174046544	9.72E-32	1.36E-30
OSBPL1A	-1.48614	4.530242486	1.03E-31	1.44E-30
CORO2B	-2.1228	0.680148268	1.05E-31	1.47E-30
GNG12	-1.07452	7.237437515	1.05E-31	1.47E-30
HEATR1	1.162598	5.752049176	1.11E-31	1.55E-30
PARM1	-1.4819	7.626148629	1.2E-31	1.68E-30
ANKS6	1.116808	5.523307577	1.22E-31	1.7E-30
IRX5	4.525835	0.274938753	1.24E-31	1.72E-30
STC2	3.669211	4.767864844	1.24E-31	1.72E-30
VSNL1	2.814937	4.974041405	1.32E-31	1.83E-30
ACSF2	-1.46496	5.295510487	1.45E-31	2.01E-30
FEZF1	8.220401	1.33850373	1.51E-31	2.1E-30
TGIF1	1.155144	6.611894712	1.54E-31	2.14E-30
MAGI3	-1.0562	4.776031262	1.62E-31	2.25E-30
GAB1	-1.08384	4.805639458	1.66E-31	2.3E-30
ARRB1	-1.06463	5.303184097	1.72E-31	2.38E-30
DCAF13	1.381447	6.140441537	1.72E-31	2.38E-30
GART	1.00741	6.735762648	1.81E-31	2.5E-30
ADAM33	-2.13652	1.968443639	1.9E-31	2.63E-30
KCNK3	-2.82122	0.510696097	1.95E-31	2.68E-30
SGCE	-1.69012	2.863516896	2.08E-31	2.87E-30
RIMKLA	-1.42554	3.797665892	2.19E-31	3.01E-30
TICRR	1.620507	3.864649837	2.34E-31	3.22E-30
SLMAP	-1.05919	6.150736618	2.48E-31	3.41E-30
RCN1	1.285642	7.264213448	2.68E-31	3.68E-30
TDRD10	-1.72014	-1.441418731	2.99E-31	4.1E-30
TTYH3	1.570654	7.616977359	3.02E-31	4.14E-30
SLC6A9	-1.50752	4.358670548	3.29E-31	4.51E-30
MPC1	-1.10341	5.296714711	3.32E-31	4.54E-30
CD79B	-2.0892	1.922771607	3.54E-31	4.84E-30
PPRC1	1.079112	6.058080512	3.6E-31	4.92E-30
LGI4	-2.08091	2.392735809	3.66E-31	4.99E-30
PCDH10	-2.8716	-1.699750936	3.66E-31	4.99E-30
SLC46A3	-1.35617	5.009097906	3.76E-31	5.12E-30
SUV39H2	1.217069	3.92234296	4.07E-31	5.54E-30
STK31	3.850501	1.857738677	4.13E-31	5.62E-30
GALNT6	1.891629	6.354852464	4.22E-31	5.74E-30
TARBP1	1.339046	5.772205309	4.7E-31	6.38E-30
GIMAP8	-1.52585	2.906095626	4.94E-31	6.69E-30
CCNB1	1.615888	6.529592168	4.94E-31	6.69E-30
UBE3D	1.379149	2.73402634	5.3E-31	7.16E-30
SORD	1.482462	5.810996907	5.47E-31	7.39E-30
TTII	1.225575	5.512699898	5.76E-31	7.76E-30
SEMA3E	-3.39545	-0.087331337	5.79E-31	7.81E-30
PIGZ	-1.76081	5.221159705	5.82E-31	7.84E-30
ULBP2	4.412283	1.250256654	6.06E-31	8.16E-30
ATIC	1.096792	7.180561083	6.27E-31	8.43E-30
ACBD6	1.010586	5.281319398	6.64E-31	8.92E-30
CTSS	-1.09822	8.065631449	6.73E-31	9.04E-30
EIF2S2	1.188315	7.239414993	6.75E-31	9.05E-30
BRCA2	2.14056	4.194671773	7.55E-31	1.01E-29



DMD	-2.02228	3.990918031	7.8E-31	1.04E-29
HTR4	-2.82625	0.306559218	8.01E-31	1.07E-29
SPINDOC	1.508695	4.690752535	8.06E-31	1.08E-29
FANCD2	1.225595	4.78107867	8.44E-31	1.13E-29
ADAM12	4.279624	4.628808045	8.83E-31	1.18E-29
RAN	1.150124	8.650658677	8.93E-31	1.19E-29
PLEKHO1	-1.45746	4.802001893	9.09E-31	1.21E-29
GPT2	1.658419	6.353497732	9.29E-31	1.24E-29
LRP11	1.187935	6.119347323	9.34E-31	1.24E-29
S100A2	4.337294	3.41630803	9.97E-31	1.33E-29
GPER1	-2.09147	1.803603671	9.99E-31	1.33E-29
SLC7A11	2.891226	4.780549652	1.15E-30	1.52E-29
TRAP1	1.361037	7.067877732	1.26E-30	1.67E-29
MAD2L1	1.615453	5.705878941	1.45E-30	1.92E-29
TP53I3	-1.09411	5.133740913	1.5E-30	1.99E-29
TRHDE	-2.32644	1.3410827	1.53E-30	2.02E-29
BEND4	-2.45892	-1.586135584	1.53E-30	2.02E-29
SPATA33	1.262509	3.535690999	1.54E-30	2.03E-29
APOBEC3B	-1.68157	3.286924415	1.54E-30	2.03E-29
FAM163A	-2.03088	-0.932380985	1.58E-30	2.08E-29
KLK8	8.543	1.603280966	1.6E-30	2.11E-29
CMBL	-1.67358	6.548173191	1.64E-30	2.15E-29
CLDN2	5.523345	7.458188589	1.67E-30	2.19E-29
RELN	-2.52618	1.08364758	1.68E-30	2.21E-29
ECE1	-1.06347	7.343813216	1.7E-30	2.23E-29
SHISA2	3.229356	2.071703972	1.71E-30	2.24E-29
GJB4	4.131441	2.142910621	1.84E-30	2.42E-29
TAF1D	1.419539	6.294509637	1.96E-30	2.56E-29
RANBP1	1.169627	6.68627809	1.98E-30	2.58E-29
BIRC5	1.577343	6.211161551	2.05E-30	2.68E-29
GTF3A	1.923625	7.658374308	2.09E-30	2.73E-29
CACNA1H	-1.85728	4.545324831	2.21E-30	2.89E-29
BMP5	-2.52999	1.499903223	2.27E-30	2.96E-29
CCDC13	-1.65769	-1.044510887	2.28E-30	2.97E-29
PNPT1	1.119397	5.634338079	2.29E-30	2.99E-29
SI	-3.20514	4.642357039	2.45E-30	3.19E-29
GDPD5	2.76587	5.225749074	2.53E-30	3.29E-29
MYBL2	2.16368	6.88392373	2.6E-30	3.37E-29
DMBX1	6.012528	-0.108515202	2.99E-30	3.88E-29
PTGR1	-1.12871	5.108420974	3.13E-30	4.05E-29
RPP40	1.398042	3.214973512	3.16E-30	4.09E-29
P2RY8	-1.617	2.259019582	3.18E-30	4.12E-29
EXOSC7	1.167879	5.342081725	3.4E-30	4.39E-29
CDK1	1.678766	6.042944698	3.59E-30	4.62E-29
BDKRB1	-1.6001	1.02164588	3.6E-30	4.64E-29
PNO1	1.128915	5.100769292	3.82E-30	4.92E-29
NUFIP1	1.423626	3.930696839	3.82E-30	4.92E-29
EAF2	-1.12049	1.645332364	3.87E-30	4.98E-29
LY9	-2.02986	0.944866304	3.88E-30	4.99E-29
AGFG2	-1.113	5.541633421	3.99E-30	5.13E-29
CCDC150	2.123276	1.599297829	4.06E-30	5.22E-29
AZGP1	3.17964	6.257914796	4.4E-30	5.64E-29
CCDC113	1.875499	3.492258808	4.43E-30	5.67E-29
MIER1	-1.13106	5.618144616	4.49E-30	5.75E-29
CCT2	1.127449	7.898048503	4.54E-30	5.81E-29
PSRC1	1.41845	3.833752713	4.55E-30	5.82E-29

NPFFR1	3.470247	1.977325532	4.73E-30	6.04E-29
ZNF74	1.248854	4.253128059	5.07E-30	6.47E-29
CD79A	-2.42572	3.585486995	5.67E-30	7.22E-29
NELFCD	1.457581	7.250478486	5.96E-30	7.58E-29
ATL1	-1.21352	2.576908577	5.96E-30	7.58E-29
FEZ1	-1.50872	2.375971894	6.63E-30	8.43E-29
LGALS2	-2.43609	3.406278348	6.75E-30	8.57E-29
KIF18A	1.459865	3.352948408	7.61E-30	9.66E-29
B3GNT8	-1.55933	4.732438561	8.04E-30	1.02E-28
SLC5A6	1.860718	6.916134967	8.3E-30	1.05E-28
CCT3	1.02961	8.583904837	8.59E-30	1.09E-28
COL21A1	-2.0145	0.399445862	8.79E-30	1.11E-28
CASD1	-1.17904	4.481670509	8.91E-30	1.13E-28
CACNB1	-1.25437	2.778194078	9.05E-30	1.14E-28
NTMT1	1.245338	4.936910672	9.57E-30	1.21E-28
AMPD2	1.107502	5.839029845	9.73E-30	1.23E-28
DHX34	1.352331	5.297826032	9.84E-30	1.24E-28
NANP	1.383824	3.711698018	1.02E-29	1.28E-28
FRMD3	-1.89854	3.086233181	1.05E-29	1.33E-28
FAM189A2	-2.15216	0.480173739	1.07E-29	1.35E-28
CCDC86	1.315275	5.308557098	1.13E-29	1.42E-28
PTPRZ1	-2.98626	-0.307863951	1.16E-29	1.45E-28
SCG2	-2.20953	2.152787242	1.2E-29	1.5E-28
TG	4.31903	3.42075719	1.29E-29	1.62E-28
PRC1	1.270753	5.960736915	1.29E-29	1.62E-28
NXPE4	-2.86392	5.374321266	1.49E-29	1.87E-28
C2orf15	1.298511	2.300663605	1.52E-29	1.91E-28
GPR3	2.626464	0.779858065	1.53E-29	1.91E-28
KLK7	8.493782	2.88405412	1.57E-29	1.95E-28
IL11	4.545264	2.235351845	1.67E-29	2.08E-28
RRS1	1.427583	5.582488081	1.69E-29	2.11E-28
BDKRB2	-1.23981	4.389050353	1.83E-29	2.28E-28
C20orf194	-1.7012	2.660246554	1.87E-29	2.33E-28
DSN1	1.276257	5.046073086	1.88E-29	2.34E-28
TEDC2	1.80068	3.244631906	1.92E-29	2.39E-28
ACO2	-1.04666	7.069633997	2.02E-29	2.51E-28
TRMT1	1.424411	5.689166407	2.03E-29	2.53E-28
ZC3H8	1.174448	3.937751786	2.07E-29	2.57E-28
PMAIP1	2.193774	3.924975433	2.09E-29	2.59E-28
FAM214A	-1.09866	4.192792523	2.17E-29	2.68E-28
LIF	1.907753	5.178847076	2.2E-29	2.73E-28
BEX4	-1.81302	3.140035526	2.34E-29	2.9E-28
ADRB2	-1.86176	-0.004269079	2.39E-29	2.96E-28
AHNAK	-1.47477	9.160796978	2.53E-29	3.13E-28
TIGD1	1.540786	2.397786196	2.57E-29	3.17E-28
PRELP	-2.53433	4.494443124	2.75E-29	3.4E-28
BRCA1	1.345308	4.859828227	2.8E-29	3.46E-28
LRCH2	-2.01061	0.769444826	2.85E-29	3.51E-28
RHEBL1	1.700154	1.112850345	3.09E-29	3.81E-28
ADCY2	-1.98888	0.694503332	3.17E-29	3.9E-28
NLE1	1.331199	5.237343111	3.17E-29	3.9E-28
ASCL5	4.140427	0.783520443	3.29E-29	4.05E-28
MAOB	-2.35817	3.512253429	3.35E-29	4.11E-28
CDK5RAP1	1.114604	5.30528925	3.39E-29	4.16E-28
TGFB1I1	-1.43518	5.035077261	3.45E-29	4.24E-28
STAP1	-2.24479	-0.582782341	3.82E-29	4.68E-28

RRP9	1.50489	5.625390197	3.83E-29	4.69E-28
TRIM59	1.397437	3.524002187	3.9E-29	4.77E-28
SGCA	-2.38909	1.065510885	4.32E-29	5.27E-28
PDGFD	-1.55304	2.638820347	4.34E-29	5.3E-28
CLBA1	1.334696	3.465999254	4.49E-29	5.48E-28
ATP8A2	-1.75064	-0.397920229	4.5E-29	5.48E-28
FAM107B	-1.39301	5.752380902	4.82E-29	5.87E-28
CCNE1	1.671802	3.79312329	4.83E-29	5.89E-28
PCID2	1.16806	5.929810487	4.84E-29	5.89E-28
AARD	-2.27888	-1.868009162	4.95E-29	6.03E-28
ZNF695	2.232025	0.945551305	4.97E-29	6.05E-28
LEAP2	-1.36914	0.868845576	5.21E-29	6.33E-28
DTL	1.366246	4.641103959	5.3E-29	6.44E-28
SULT2B1	2.937001	4.742467321	5.58E-29	6.77E-28
EXOSC8	1.231063	5.245616137	5.71E-29	6.92E-28
TNFRSF10B	1.355557	6.567717868	5.71E-29	6.92E-28
BCL2	-1.53781	3.473818417	5.81E-29	7.04E-28
PPP1R16B	-1.65523	3.212250181	6.32E-29	7.64E-28
RAB36	1.9762	3.497109167	6.65E-29	8.02E-28
BMP6	-1.89117	1.312870719	7.12E-29	8.58E-28
PSPH	1.512607	4.761234596	7.15E-29	8.61E-28
OTUD7A	-1.60887	1.188100973	7.29E-29	8.76E-28
SOWAHB	-1.17085	3.866474487	7.3E-29	8.77E-28
JAZF1	-1.51336	2.837364191	7.52E-29	9.03E-28
LDLRAD3	1.983132	3.949984264	7.94E-29	9.53E-28
KCTD9	-1.1923	4.798104026	8.73E-29	1.05E-27
PCNX2	1.417144	4.085194169	8.86E-29	1.06E-27
ZNF239	1.890191	2.871697468	8.95E-29	1.07E-27
APOBR	-1.77746	5.898618257	8.99E-29	1.08E-27
PCSK7	-1.08088	5.851420521	9.38E-29	1.12E-27
CCR2	-2.07807	1.433936432	9.52E-29	1.14E-27
RHEX	-2.14295	-0.180928368	1.03E-28	1.23E-27
PIF1	1.661394	2.992527151	1.06E-28	1.27E-27
FAM13C	-1.71754	0.6931042	1.12E-28	1.34E-27
CORIN	3.399667	1.338849951	1.18E-28	1.41E-27
ALKBH2	1.345625	4.108163014	1.26E-28	1.5E-27
SPC25	1.308632	3.599478196	1.28E-28	1.52E-27
PLEKHG4	2.064058	5.457116716	1.34E-28	1.59E-27
CDK4	1.311839	6.834263794	1.36E-28	1.62E-27
FAXDC2	-1.70338	4.09630804	1.42E-28	1.68E-27
DONSON	1.066775	3.921063186	1.54E-28	1.82E-27
JAML	-1.55605	3.286538896	1.57E-28	1.86E-27
E2F5	1.512465	4.240692926	1.61E-28	1.91E-27
SERPINA4	6.464456	0.583251719	1.74E-28	2.05E-27
HAND1	-3.91456	1.148729009	1.82E-28	2.15E-27
WDR3	1.022374	5.717039513	1.85E-28	2.19E-27
GPRASP1	-1.69699	2.175244991	1.87E-28	2.21E-27
AP1S3	1.602841	3.298878019	1.96E-28	2.31E-27
SHMT2	1.570446	7.609119475	2E-28	2.36E-27
NEXN	-2.02682	3.55162363	2.04E-28	2.4E-27
C12orf73	1.045873	3.144180793	2.09E-28	2.45E-27
TRAF5	1.583155	5.888128987	2.1E-28	2.47E-27
CYP2C18	-2.1886	1.9436016	2.3E-28	2.7E-27
TRAIIP	1.317687	3.353931282	2.35E-28	2.76E-27
HIF3A	-2.24239	1.628613382	2.65E-28	3.1E-27
DGAT2	1.92234	5.05870493	2.71E-28	3.17E-27

NUP155	1.115666	5.668681249	2.8E-28	3.27E-27
CXCL3	3.04977	5.630849761	2.82E-28	3.3E-27
WISP1	2.740241	3.088366656	3.17E-28	3.7E-27
KLK10	5.210742	5.798149874	3.37E-28	3.93E-27
TFR2	2.874139	2.403839222	3.4E-28	3.95E-27
EPHB4	1.29454	7.361622928	3.46E-28	4.02E-27
FANCB	2.085616	1.342668096	3.46E-28	4.02E-27
MFAP5	-2.39372	3.301051387	3.47E-28	4.03E-27
TOP2A	1.513489	7.432448185	3.57E-28	4.14E-27
CFAP45	2.242616	0.101547634	3.63E-28	4.22E-27
NHSL1	-1.03071	5.91090859	3.64E-28	4.23E-27
TEX45	2.487346	2.117251921	3.67E-28	4.25E-27
ATP6V1E2	1.241849	2.403555167	3.68E-28	4.26E-27
BMF	-1.23621	4.181148124	3.73E-28	4.32E-27
SYNE3	-1.45605	2.850782646	3.73E-28	4.32E-27
IPO5	1.132619	8.014112044	3.91E-28	4.52E-27
CA9	5.739153	5.770496278	4.24E-28	4.89E-27
UNC5D	-2.63037	-1.955490876	4.25E-28	4.91E-27
CST4	6.420104	-0.828633982	4.26E-28	4.91E-27
MMP3	4.775459	5.585343906	4.29E-28	4.95E-27
NAP1L3	-1.94626	0.411481092	4.39E-28	5.06E-27
MSI2	1.193693	6.643161914	4.46E-28	5.13E-27
CHPF	1.801117	7.482741641	4.48E-28	5.16E-27
VSIG2	-2.71685	5.321016315	4.81E-28	5.53E-27
SIGLEC6	-2.21083	-1.252167848	5.23E-28	6.01E-27
PALLD	-1.39691	7.118325637	5.41E-28	6.21E-27
CBX3	1.235724	7.893349595	5.42E-28	6.22E-27
BOP1	1.987787	7.072421555	6.01E-28	6.88E-27
RASD2	-1.98249	3.503361766	6.13E-28	7.01E-27
CNTN3	-2.55944	1.02320274	6.2E-28	7.09E-27
TAF1A	1.327382	2.653356758	6.29E-28	7.18E-27
ANKRD33B	-1.78048	0.914015993	6.47E-28	7.39E-27
LSM8	1.010455	5.1519146	6.68E-28	7.62E-27
RILP	-1.37098	3.775018728	6.93E-28	7.9E-27
GRPEL2	1.184849	4.75913617	7.09E-28	8.08E-27
ZNF485	1.255723	2.204377004	7.19E-28	8.18E-27
NOC3L	1.230292	4.520748197	8.02E-28	9.13E-27
IBSP	6.324332	0.220176048	8.32E-28	9.47E-27
GRAMD4	-1.00177	6.071719498	8.52E-28	9.68E-27
SORBS2	-1.74325	4.907272113	9.03E-28	1.03E-26
CCL8	-2.38667	1.31047849	9.8E-28	1.11E-26
SHH	2.222692	4.814808012	9.81E-28	1.11E-26
PER1	-1.44295	4.823528005	9.93E-28	1.12E-26
KY	-2.28972	-1.79511777	1E-27	1.13E-26
CLCN2	-1.35175	5.416284829	1.04E-27	1.17E-26
NWD2	-2.45107	-0.906896792	1.04E-27	1.18E-26
STIL	1.291495	4.674628557	1.07E-27	1.2E-26
KCNA1	-3.33984	-2.227007734	1.14E-27	1.29E-26
AQP11	-1.17553	2.004739772	1.17E-27	1.32E-26
CKS2	1.604645	5.923788141	1.17E-27	1.32E-26
PKMYT1	1.976798	5.170436749	1.19E-27	1.34E-26
SLC4A10	-2.91332	0.298904245	1.2E-27	1.35E-26
HK2	-1.22087	7.515278826	1.21E-27	1.36E-26
PIP5K1B	-1.04016	5.736328318	1.34E-27	1.5E-26
SCN3A	-2.03868	-0.240355621	1.36E-27	1.53E-26
OTUB2	1.934679	2.942157046	1.37E-27	1.53E-26

SYNGR1	-1.97438	1.976239184	1.4E-27	1.56E-26
SP5	3.720807	3.857919601	1.57E-27	1.76E-26
NAT1	-1.37908	3.584127973	1.58E-27	1.77E-26
KIF26B	3.300712	3.925003616	1.59E-27	1.78E-26
TIMELESS	1.123803	5.749733855	1.6E-27	1.79E-26
VWA5A	-1.40252	5.489855848	1.6E-27	1.79E-26
CYSRT1	2.67058	0.517802494	1.63E-27	1.82E-26
TRMT11	1.048684	4.063459083	1.64E-27	1.83E-26
NEFH	-1.78317	-0.527790253	1.79E-27	1.99E-26
SLC17A1	-2.44409	-2.432589759	1.8E-27	2E-26
NIT2	1.005755	5.711876939	1.86E-27	2.07E-26
DSG4	2.521395	0.286118231	2.14E-27	2.38E-26
OVGP1	1.720047	2.610667949	2.2E-27	2.44E-26
CPAMD8	-1.52215	0.678140743	2.23E-27	2.47E-26
CORO6	-1.68414	-0.177176631	2.37E-27	2.62E-26
VXN	-2.32443	-2.232659249	2.38E-27	2.63E-26
PANO1	1.994891	-0.683005982	2.41E-27	2.66E-26
PER3	-1.58219	3.409595472	2.41E-27	2.66E-26
CLDN11	-2.0927	0.939834486	2.43E-27	2.68E-26
CD22	-2.36525	2.016542367	2.45E-27	2.7E-26
RNASEH2A	1.550838	5.552408668	2.48E-27	2.74E-26
POLD2	1.360116	7.33842171	2.58E-27	2.84E-26
ANOS1	3.161295	3.226315328	2.62E-27	2.89E-26
NR3C1	-1.59895	4.129105881	2.67E-27	2.94E-26
APELA	3.327491	-1.296558817	2.71E-27	2.99E-26
NIFK	1.073023	5.767219297	2.76E-27	3.04E-26
CCNB1IP1	1.244519	5.807321907	2.9E-27	3.19E-26
LZTS3	2.257053	5.364867466	2.96E-27	3.25E-26
PASK	1.134085	4.281581394	3.07E-27	3.37E-26
LMTK3	2.147282	3.025042654	3.08E-27	3.38E-26
PDCD5	1.149693	6.167036649	3.08E-27	3.38E-26
RGL1	-1.23453	3.854722665	3.1E-27	3.39E-26
ATP6V1C2	2.441453	3.199341266	3.18E-27	3.48E-26
ZFYVE28	-1.22608	3.802441996	3.22E-27	3.52E-26
MAN1A1	-1.31575	6.124861661	3.28E-27	3.58E-26
PALD1	2.064997	5.576019249	3.3E-27	3.6E-26
GOLM1	-1.18643	8.29129485	3.37E-27	3.68E-26
COMP	6.043375	4.460685883	4.07E-27	4.43E-26
FIGNL1	1.272549	4.335357554	4.13E-27	4.5E-26
RRP1	1.251397	5.605277373	4.15E-27	4.52E-26
MCM6	1.053832	6.292874979	4.16E-27	4.53E-26
MLXIPL	2.839049	5.440876095	4.47E-27	4.86E-26
SLC7A6	1.256782	4.540869868	4.58E-27	4.98E-26
NOP16	1.205366	5.277980909	4.69E-27	5.09E-26
CHTF18	1.890554	5.109760971	4.84E-27	5.25E-26
ZBTB7C	-2.07349	4.783732901	4.87E-27	5.28E-26
GHR	-2.06549	1.939407911	4.91E-27	5.32E-26
FERMT2	-1.67301	4.659198207	4.98E-27	5.39E-26
NIM1K	-1.3813	-1.560152629	5.04E-27	5.45E-26
PGGHG	3.172179	6.392841607	5.08E-27	5.49E-26
CD27	-1.82216	2.017227988	5.19E-27	5.61E-26
SHB	1.231835	4.60623481	5.26E-27	5.68E-26
RAET1L	3.973024	0.640436245	5.42E-27	5.85E-26
EIF5A2	1.46416	3.458561185	5.86E-27	6.32E-26
APBB1	-1.54984	3.169344786	5.94E-27	6.4E-26
ITGA2	1.493989	6.620880047	6.22E-27	6.7E-26

SKIDA1	-1.86012	-1.373716135	6.44E-27	6.92E-26
CIP2A	1.431024	3.773401107	6.44E-27	6.92E-26
ENTPD8	-2.27983	4.802595078	6.56E-27	7.04E-26
CCNJL	-1.65179	3.515749907	6.59E-27	7.07E-26
PLAU	2.157572	6.179828396	6.77E-27	7.27E-26
DBF4B	1.213318	3.450968559	6.93E-27	7.42E-26
IER5L	1.977428	4.054509961	7.33E-27	7.84E-26
MND1	1.578036	2.753789125	7.57E-27	8.1E-26
SND1	1.030582	8.531724266	7.93E-27	8.47E-26
SYNC	-1.89035	1.205022442	8.06E-27	8.61E-26
MEF2C	-1.46997	3.726613438	8.37E-27	8.92E-26
MCM4	1.310399	7.295711116	8.39E-27	8.94E-26
LXN	-1.22154	4.15056127	8.47E-27	9.02E-26
SPC24	1.368637	4.030343339	8.74E-27	9.3E-26
GSTM2	-1.39664	2.184094197	9.11E-27	9.68E-26
MRVI1	-1.58263	4.675169661	9.18E-27	9.76E-26
CALD1	-1.76673	7.839742058	9.46E-27	1.01E-25
SYPL2	-1.90727	-0.590490062	9.48E-27	1.01E-25
GIMAP6	-1.44322	3.574703734	9.52E-27	1.01E-25
TSPAN11	-1.58819	3.44374246	9.82E-27	1.04E-25
CNRIP1	-1.34796	2.283887915	1.13E-26	1.19E-25
PPEF1	3.045359	-0.96646569	1.14E-26	1.21E-25
DNA2	1.491774	3.658232356	1.19E-26	1.25E-25
CYSLTR1	-1.63461	0.884505127	1.19E-26	1.26E-25
STX1A	1.913359	3.520385558	1.3E-26	1.38E-25
TLR10	-2.14815	0.170750053	1.37E-26	1.44E-25
MATN2	-1.68448	5.573498892	1.55E-26	1.63E-25
RTL10	1.068768	4.996328235	1.65E-26	1.74E-25
TRPC7	-2.24822	-2.386430591	1.7E-26	1.79E-25
SRPX2	3.090987	5.010629872	1.8E-26	1.89E-25
ACTR5	1.092007	4.136413942	1.8E-26	1.89E-25
CCL13	-2.51364	1.728558511	1.83E-26	1.92E-25
MCM7	1.357904	8.029188465	1.85E-26	1.94E-25
PTTG1	1.443276	5.457977648	1.85E-26	1.94E-25
MT1E	-2.23225	5.781477726	1.96E-26	2.06E-25
ATP6V1FNB	2.275526	2.2699519	1.96E-26	2.06E-25
SPECC1	-1.1314	4.999375018	2.07E-26	2.17E-25
SNAP91	-2.85237	-1.440734682	2.08E-26	2.18E-25
VPREB3	-2.26337	-0.130350739	2.12E-26	2.22E-25
MYPN	-2.36676	-0.749323178	2.19E-26	2.29E-25
CLMP	-1.78961	3.809107043	2.28E-26	2.38E-25
XKRX	2.552354	2.821235904	2.29E-26	2.39E-25
EBPL	1.222428	5.633460179	2.36E-26	2.46E-25
KIF24	1.107751	3.169882816	2.58E-26	2.69E-25
SLC22A3	2.072147	4.518546482	2.64E-26	2.75E-25
ARHGEF39	1.247063	4.006118335	2.7E-26	2.81E-25
CLDN7	-1.07542	8.527022812	2.77E-26	2.88E-25
ZNF280C	1.445641	2.720820344	2.82E-26	2.94E-25
HM13	1.250904	8.043260974	2.86E-26	2.98E-25
CDC25C	1.289659	3.357804029	3.09E-26	3.21E-25
MMP1	4.532568	6.939560765	3.36E-26	3.48E-25
CFD	-2.22093	5.108154395	3.37E-26	3.49E-25
PPIL1	1.202221	5.425899745	3.42E-26	3.54E-25
PLD1	-1.11483	5.105059935	3.48E-26	3.6E-25
EFHC2	-2.19393	-0.540303979	3.55E-26	3.67E-25
ASPHD1	2.499227	3.276457648	3.58E-26	3.7E-25

ALKAL1	3.691248	0.911403007	3.77E-26	3.89E-25
AMOTL1	-1.751	4.216761123	3.85E-26	3.97E-25
NAT9	1.162466	5.217307538	3.88E-26	4E-25
NAP1L1	1.146292	8.394187479	3.96E-26	4.08E-25
SELENBP1	-1.98362	8.672739553	4.04E-26	4.16E-25
FOXF1	-1.36758	4.145449099	4.08E-26	4.2E-25
ECI2	-1.30923	4.977577755	4.81E-26	4.95E-25
WNT7B	6.102822	1.130759843	4.96E-26	5.1E-25
NKAPL	-1.95275	-2.22606469	5.01E-26	5.15E-25
AGAP3	1.136269	6.462545646	5.32E-26	5.45E-25
PPP2R2B	-1.91882	-0.073811161	5.52E-26	5.66E-25
TNNI3	4.893053	0.872048857	5.52E-26	5.66E-25
RTL5	-1.62185	1.446253853	5.75E-26	5.89E-25
KLHDC8B	-1.30322	3.269474987	5.79E-26	5.93E-25
SNX24	-1.25508	2.686354828	5.84E-26	5.98E-25
RPS6KL1	1.470673	3.467119761	5.86E-26	5.99E-25
BHMT2	-2.03226	0.057515104	6.43E-26	6.57E-25
RPF2	1.070882	5.249833553	6.46E-26	6.59E-25
DNAJC2	1.226565	5.402073825	6.74E-26	6.87E-25
SSPN	-1.54945	3.515898122	6.87E-26	7E-25
CARD14	2.21904	2.263156074	6.96E-26	7.09E-25
MYH15	-1.6679	0.78303037	7.09E-26	7.22E-25
CILP	-2.71367	2.998977865	7.56E-26	7.69E-25
PRDX4	1.381368	7.158178274	7.93E-26	8.06E-25
PLK1	1.507179	6.190597343	7.96E-26	8.08E-25
NKPD1	3.238288	-0.180351064	8.17E-26	8.29E-25
HELLS	1.648201	4.865376891	8.38E-26	8.49E-25
LOXL4	-1.73659	1.222750645	8.41E-26	8.52E-25
EPHX2	-1.41259	5.705112174	8.52E-26	8.63E-25
STAB1	-1.48654	5.695694028	8.8E-26	8.91E-25
RASGRP2	-1.56659	1.993269712	8.94E-26	9.04E-25
GNAI1	-1.39941	3.890406608	9.09E-26	9.19E-25
MFAP2	2.445181	4.290749585	9.35E-26	9.44E-25
NUP62CL	1.627536	2.405488681	9.66E-26	9.75E-25
LY6G6E	5.332573	-1.466771707	9.78E-26	9.87E-25
CLDN5	-1.83887	3.378045918	9.83E-26	9.91E-25
SNAI1	1.741261	2.730222124	1E-25	1.01E-24
TLL1	-2.22307	0.027565497	1.07E-25	1.07E-24
NLGN4X	-1.91232	0.683908909	1.07E-25	1.08E-24
SDHD	-1.00732	6.393201094	1.08E-25	1.08E-24
NUP37	1.057913	5.144653542	1.09E-25	1.1E-24
CCL15	-1.41334	2.531179875	1.09E-25	1.1E-24
NKX3-2	-1.87918	0.685779829	1.1E-25	1.11E-24
RPN2	1.023389	9.094188188	1.16E-25	1.16E-24
WFDC1	-1.49167	3.477630914	1.17E-25	1.17E-24
LEF1	2.174509	3.937866497	1.2E-25	1.2E-24
ABCB5	-3.06579	-1.676560103	1.22E-25	1.22E-24
IQGAP2	-1.53471	5.756613397	1.25E-25	1.25E-24
GPR88	-2.33946	-2.270581687	1.26E-25	1.26E-24
SPTBN5	3.145333	2.957427802	1.3E-25	1.3E-24
NCAPG	1.333677	4.617284495	1.33E-25	1.33E-24
ZNF671	-1.4447	0.941054759	1.35E-25	1.35E-24
TCN1	7.436623	4.776553019	1.38E-25	1.38E-24
TACSTD2	4.893781	5.427820756	1.39E-25	1.38E-24
ANXA3	1.711715	6.693243209	1.4E-25	1.39E-24
ABCC1	1.085457	6.472510021	1.47E-25	1.47E-24

KCNA3	-2.10914	-0.220872675	1.62E-25	1.61E-24
MTERF3	1.19541	4.354852549	1.62E-25	1.61E-24
RAB37	-1.48598	2.373233495	1.64E-25	1.63E-24
A2M	-1.32206	8.211059144	1.65E-25	1.64E-24
P3H1	1.245695	4.829835565	1.88E-25	1.86E-24
ZDHHC9	1.222663	7.239336666	1.9E-25	1.88E-24
SQLE	1.775317	6.63979285	1.91E-25	1.89E-24
NR2C2AP	1.15605	4.844165119	1.93E-25	1.91E-24
AHCY	1.708634	9.023640717	2E-25	1.98E-24
C5orf46	5.873817	-0.587986008	2.04E-25	2.02E-24
SLC27A6	-2.68376	-1.964226715	2.05E-25	2.03E-24
SLC15A1	-2.82212	2.78080037	2.06E-25	2.03E-24
NOX4	3.246941	1.474272567	2.11E-25	2.08E-24
KIFC1	1.299325	5.709407808	2.16E-25	2.13E-24
INTS13	1.301952	5.192116206	2.21E-25	2.18E-24
ANKRD40CL	-1.5941	3.804603483	2.22E-25	2.18E-24
CEBPB	1.517012	5.958527112	2.25E-25	2.21E-24
FCER2	-2.85055	-0.054205317	2.3E-25	2.26E-24
NEO1	-1.04849	7.020681457	2.33E-25	2.29E-24
CLPB	1.155571	4.354859883	2.46E-25	2.42E-24
DNAH2	3.025194	2.584770699	2.46E-25	2.42E-24
CCR10	-1.80911	-0.221902504	2.49E-25	2.44E-24
MORC4	1.535448	5.298310176	2.54E-25	2.49E-24
EIF2S3	1.071594	8.129566055	2.55E-25	2.5E-24
LRRC36	3.361013	1.912749215	2.55E-25	2.5E-24
BFSP1	1.991627	1.682488884	2.59E-25	2.53E-24
FAP	3.349228	3.784000914	2.59E-25	2.54E-24
DNMT3B	1.668895	2.724421497	2.63E-25	2.57E-24
CXCL1	2.975809	6.415246907	2.72E-25	2.66E-24
PTH1R	-1.96064	-0.516170194	2.75E-25	2.69E-24
PCSK9	2.808305	6.192439553	2.81E-25	2.75E-24
PAFAH1B3	1.669829	5.665785391	2.89E-25	2.82E-24
MSH5	2.035192	2.404273263	2.89E-25	2.82E-24
PDCD11	1.003445	6.260060673	2.89E-25	2.82E-24
BICD1	1.481273	3.579842854	2.95E-25	2.88E-24
CENPF	1.55839	6.194962562	3.03E-25	2.95E-24
DNAAF5	1.049458	6.173621795	3.16E-25	3.08E-24
PERP	1.335532	8.931048785	3.22E-25	3.13E-24
DENND2A	-1.29489	3.28063943	3.27E-25	3.19E-24
SCGB2A1	-2.54529	-0.119493586	3.57E-25	3.47E-24
TSACC	1.956844	-0.642194174	3.66E-25	3.56E-24
43899	1.052007	4.605430312	3.77E-25	3.66E-24
FAM57A	1.46728	5.359634172	4.02E-25	3.89E-24
PPP2R3B	1.627147	4.126958247	4.42E-25	4.28E-24
TCF24	4.263398	-1.654681398	4.49E-25	4.34E-24
TNFSF9	3.80843	3.425620431	4.57E-25	4.41E-24
NKD1	4.1871	6.561266943	4.65E-25	4.49E-24
TGS1	1.063925	5.262923605	4.73E-25	4.56E-24
CD48	-1.67327	3.32912522	4.77E-25	4.6E-24
BUB1B	1.307648	4.843101766	5.16E-25	4.98E-24
WSCD2	-2.62505	-0.604964471	5.38E-25	5.18E-24
ALKAL2	-2.0139	-0.318527886	5.52E-25	5.31E-24
ENAM	-2.58472	-1.360589297	5.68E-25	5.46E-24
KIF9	1.124694	3.547276842	5.71E-25	5.49E-24
TMEM63A	1.260797	7.691519898	5.9E-25	5.67E-24
NAA25	1.106268	5.116676276	6.02E-25	5.78E-24



MRPS23	1.118521	5.794727572	6.29E-25	6.03E-24
GTPBP3	1.078136	4.593929848	6.29E-25	6.03E-24
AP3M2	1.083294	4.377521771	6.3E-25	6.03E-24
TMEM74	-2.08217	-2.252871245	6.47E-25	6.2E-24
BRIX1	1.311251	5.412440147	6.5E-25	6.22E-24
RBL1	1.382862	4.356343189	6.59E-25	6.29E-24
EDNRB	-1.36032	3.391418571	6.64E-25	6.35E-24
NECTIN4	2.075646	4.35842303	7.2E-25	6.86E-24
HMGA1	1.473242	9.027941014	7.34E-25	6.99E-24
GALNT15	-1.99524	1.777538002	7.58E-25	7.22E-24
SNRPF	1.268463	6.148619319	7.64E-25	7.26E-24
DUS4L	1.130329	3.219608871	7.72E-25	7.34E-24
BIN2	-1.11395	2.96496776	7.9E-25	7.51E-24
MCM2	1.370921	6.674191966	8.1E-25	7.69E-24
HVCN1	-1.25177	1.850225062	8.29E-25	7.86E-24
LBX2	1.805493	0.419343083	8.46E-25	8.02E-24
CELF4	-2.37218	-1.524106654	8.66E-25	8.2E-24
RECK	-1.25875	2.641689405	9.03E-25	8.55E-24
KNTC1	1.322987	5.079665958	9.15E-25	8.66E-24
SIGMAR1	1.279987	7.27088212	9.96E-25	9.42E-24
HASPIN	1.363354	2.589449658	1E-24	9.48E-24
TGDS	1.306886	4.544342156	1.01E-24	9.52E-24
AMELX	5.111343	-1.350290898	1.02E-24	9.68E-24
DKK4	8.53094	2.682273691	1.11E-24	1.05E-23
44080	-1.084	4.832111712	1.22E-24	1.15E-23
SLCO1B3	6.448983	2.150818801	1.28E-24	1.2E-23
SPDL1	1.116984	3.898825834	1.29E-24	1.21E-23
HOXD1	-2.1711	-0.34270845	1.35E-24	1.27E-23
LMO2	-1.1841	2.641424327	1.36E-24	1.27E-23
DMPK	-1.27853	4.919304506	1.44E-24	1.35E-23
TRIM36	-1.42507	3.278374951	1.47E-24	1.38E-23
LUZP2	-2.20065	-0.094023492	1.56E-24	1.46E-23
ENPP7	-3.02003	-2.147524781	1.58E-24	1.48E-23
OSR1	-2.21552	0.801446784	1.59E-24	1.48E-23
FHL5	-1.64324	0.076529897	1.62E-24	1.52E-23
COL4A6	-2.14639	0.504711622	1.65E-24	1.54E-23
COX7A1	-1.46056	2.245148719	1.69E-24	1.58E-23
CHCHD6	1.29019	4.054535569	1.83E-24	1.71E-23
CDC25A	1.298519	4.497967539	1.86E-24	1.74E-23
SGK2	-1.66451	4.860863308	1.89E-24	1.76E-23
PRDM6	-1.88284	1.0006728	1.89E-24	1.76E-23
PBXIP1	-1.02482	6.457919714	1.97E-24	1.83E-23
SOX14	7.206847	0.803202469	1.98E-24	1.84E-23
MAP1A	-1.6443	3.926784572	2.03E-24	1.88E-23
WDYHV1	1.073822	3.672137359	2.11E-24	1.96E-23
TCFL5	1.439831	4.404629235	2.13E-24	1.98E-23
WDR90	1.636226	5.704369274	2.16E-24	2E-23
KNSTRN	1.164556	4.431200377	2.16E-24	2E-23
SLC3A2	1.141069	7.624255059	2.16E-24	2E-23
GAS7	-1.49115	4.396990934	2.18E-24	2.02E-23
CXCR5	-2.60266	-2.124180895	2.19E-24	2.02E-23
RGS2	-1.61717	4.613019663	2.19E-24	2.03E-23
MASTL	1.049548	4.123821519	2.22E-24	2.05E-23
TTK	1.371711	4.477519801	2.28E-24	2.11E-23
GGT6	-1.73364	6.373103383	2.31E-24	2.13E-23
PTPRF	-1.00334	8.858995374	2.5E-24	2.3E-23

LY6G6F	5.163195	-1.754352721	2.6E-24	2.4E-23
FAM72A	1.651936	0.505169493	2.72E-24	2.5E-23
CORO2A	-1.02742	6.181283019	2.72E-24	2.5E-23
PRKAR2B	-1.75115	3.114804731	2.75E-24	2.52E-23
MMS22L	1.445926	4.225735415	2.8E-24	2.57E-23
ZNF132	-1.00932	0.960478221	2.82E-24	2.59E-23
DEPDC1B	1.318739	4.091774959	2.92E-24	2.68E-23
ETNK1	-1.13788	6.569680659	2.99E-24	2.74E-23
RCBTB1	1.157164	4.822803362	3.04E-24	2.78E-23
MROH6	2.320156	5.165379109	3.06E-24	2.8E-23
C8orf74	6.129408	-1.621787834	3.06E-24	2.8E-23
TCOF1	1.173117	6.583578921	3.07E-24	2.8E-23
CLEC5A	3.659183	1.83867782	3.17E-24	2.9E-23
MEIS1	-1.70712	3.287550582	3.21E-24	2.93E-23
PDE3A	-1.86406	4.769309517	3.39E-24	3.09E-23
SYP	-1.69091	1.953120827	3.44E-24	3.14E-23
KRT75	7.125863	1.00141964	3.45E-24	3.15E-23
GNPDA1	1.001118	6.120964577	3.6E-24	3.28E-23
IL23A	3.063182	1.807521596	3.65E-24	3.33E-23
PALM	-1.7807	3.058655827	3.66E-24	3.33E-23
AADAC	-2.85309	0.493470737	3.7E-24	3.37E-23
EEF1E1	1.199839	3.547482364	3.76E-24	3.42E-23
VILL	-1.42113	6.29524021	3.76E-24	3.42E-23
NEIL3	1.409592	2.284614241	3.76E-24	3.42E-23
RELL1	-1.40911	2.277521488	3.8E-24	3.45E-23
OLA1	1.009265	7.004060398	3.83E-24	3.48E-23
AXIN2	2.477634	7.238619125	4.05E-24	3.67E-23
DBF4	1.229907	4.517101135	4.07E-24	3.69E-23
TKT	1.185897	8.889983472	4.14E-24	3.75E-23
SLC25A32	1.166645	5.187875386	4.15E-24	3.76E-23
SMPD3	-1.33017	5.448785742	4.21E-24	3.81E-23
USP31	1.037306	4.132444464	4.31E-24	3.9E-23
TMEM200B	-1.64051	1.529851933	4.32E-24	3.91E-23
MYEOV	3.034836	5.040490381	4.33E-24	3.91E-23
EPHA10	-1.26837	4.243051886	4.35E-24	3.93E-23
CALY	-2.55041	-1.506296918	4.45E-24	4.01E-23
RAB6B	-1.5147	2.340484122	4.54E-24	4.09E-23
UCN	2.296298	-0.115287554	4.72E-24	4.25E-23
C15orf38-AP3	-1.52381	-1.866033915	4.9E-24	4.41E-23
SIPA1L2	-1.14957	5.419667961	5.27E-24	4.73E-23
JAG2	2.007054	5.562457305	5.31E-24	4.76E-23
MPND	-1.04379	4.866604699	5.35E-24	4.8E-23
MYZAP	-1.25178	2.100352605	5.38E-24	4.82E-23
IPO4	1.38928	2.873834175	5.44E-24	4.87E-23
SYTL2	-1.23819	6.053098923	5.57E-24	4.99E-23
FLNB	-1.01286	8.963180481	5.6E-24	5.01E-23
FNIP2	-1.01522	5.470764091	5.62E-24	5.03E-23
VAR3	1.145254	7.361106918	5.67E-24	5.07E-23
HHIP	-1.958	2.193390499	6.73E-24	6.01E-23
FAM241B	1.503276	3.047437792	6.79E-24	6.06E-23
NUTF2	1.112474	7.061396331	7.31E-24	6.51E-23
SLC12A2	1.606074	9.150156944	7.71E-24	6.87E-23
SMCO2	2.612102	-1.726498153	7.84E-24	6.97E-23
ABCA6	-2.11733	0.860831221	8.09E-24	7.19E-23
CDC48	1.150293	5.580644125	8.44E-24	7.5E-23
TMEM56	-1.49622	4.956867959	9.38E-24	8.32E-23

UBE2QL1	-1.86654	0.411114116	1.01E-23	8.94E-23
TXLNG	1.157005	5.356635213	1.02E-23	9.02E-23
C20orf144	2.252846	-1.062363273	1.07E-23	9.49E-23
POLQ	1.533936	3.736115078	1.08E-23	9.57E-23
DHRS2	4.69645	2.322905892	1.09E-23	9.67E-23
SLC7A1	1.181349	7.33435542	1.13E-23	9.95E-23
C2orf74	-1.70958	-1.390406399	1.13E-23	9.99E-23
SHROOM4	2.031828	4.7394621	1.14E-23	1E-22
PKP1	4.019022	3.717685016	1.16E-23	1.02E-22
CHRM2	-3.44966	1.286004354	1.17E-23	1.03E-22
AKR1C4	5.386282	0.341673408	1.18E-23	1.04E-22
AC119396.1	-1.88163	-1.027967096	1.22E-23	1.07E-22
TMPRSS13	3.346966	3.456298971	1.25E-23	1.1E-22
ADAMTS8	-1.94564	1.185673022	1.26E-23	1.11E-22
PHF24	-2.15706	-2.012740993	1.3E-23	1.14E-22
KRT17	5.105361	4.986306003	1.31E-23	1.15E-22
SYT4	-3.07111	-1.173503614	1.37E-23	1.2E-22
CLDN16	2.990386	0.009943532	1.4E-23	1.23E-22
C6orf48	1.250923	6.552870985	1.43E-23	1.25E-22
DDX11	1.256702	5.066976421	1.49E-23	1.3E-22
OLR1	3.846209	2.692980212	1.55E-23	1.35E-22
TSPYL5	-1.52384	2.089320284	1.57E-23	1.37E-22
SEC14L2	1.663564	3.064552914	1.66E-23	1.45E-22
OCEL1	-1.06834	3.909075468	1.74E-23	1.52E-22
SVEP1	-1.64546	3.670574907	1.84E-23	1.6E-22
CD276	1.113929	6.535225142	1.89E-23	1.65E-22
SERPINA9	-3.50598	-1.591952068	1.93E-23	1.68E-22
GCNT3	-2.02512	7.127810553	1.98E-23	1.73E-22
SFXN3	1.06362	5.725456709	2.02E-23	1.76E-22
PTCHD1	-2.71854	0.168284977	2.11E-23	1.84E-22
FOXM1	1.409766	6.047005463	2.16E-23	1.87E-22
TMEM155	-1.92432	-2.343904784	2.2E-23	1.91E-22
IGFBP6	-1.81594	3.629757941	2.21E-23	1.92E-22
UGGT2	1.403488	4.817552311	2.28E-23	1.97E-22
TMEM74B	2.936238	2.894767497	2.39E-23	2.07E-22
CD180	-1.61072	1.928965879	2.44E-23	2.11E-22
PENK	-3.09036	-0.224706455	2.53E-23	2.19E-22
CDKN3	1.38048	4.375124964	2.56E-23	2.22E-22
KCNH8	2.622735	2.391777605	2.57E-23	2.22E-22
SSTR3	-2.1458	-1.848875138	2.84E-23	2.46E-22
DDX60	-1.46033	5.38901049	2.94E-23	2.54E-22
FGFRL1	2.497441	6.643082959	3.19E-23	2.74E-22
SLC17A9	2.485661	5.783303992	3.22E-23	2.77E-22
PPARGC1A	-1.68408	3.97933879	3.36E-23	2.88E-22
ZNF697	1.430035	3.358956305	3.39E-23	2.91E-22
VMA21	1.225607	5.752546611	3.4E-23	2.92E-22
C9orf116	1.877407	1.21842616	3.41E-23	2.92E-22
PRR19	1.549634	0.539892454	3.44E-23	2.95E-22
SPOCD1	2.331996	1.571006002	3.46E-23	2.97E-22
SH2D6	-2.25669	0.391120878	3.47E-23	2.98E-22
FCRL2	-2.22746	0.184967379	3.6E-23	3.08E-22
BLK	-2.36278	0.396133172	3.6E-23	3.08E-22
DHCR7	1.465422	6.832266203	3.61E-23	3.09E-22
PRICKLE2	-1.53257	2.816794406	3.62E-23	3.09E-22
CHST5	-2.41706	2.546021114	3.68E-23	3.15E-22
CMTM7	1.46431	4.416277125	3.76E-23	3.21E-22

ADGRG1	1.377795	8.007731049	3.76E-23	3.21E-22
SINHCAF	1.226104	6.710761644	4.02E-23	3.42E-22
PVR	1.01218	6.236108965	4.15E-23	3.53E-22
CHEK2	1.002486	4.356440292	4.23E-23	3.6E-22
AOX1	-1.87026	1.895541243	4.33E-23	3.68E-22
NT5DC2	1.721559	6.238058958	4.37E-23	3.71E-22
SPRY4	1.073578	5.796234032	4.41E-23	3.74E-22
SGO1	1.345321	3.098098954	4.42E-23	3.75E-22
MAD2L2	1.353198	4.688801347	4.61E-23	3.91E-22
CNTN1	-2.51601	0.9410497	4.63E-23	3.92E-22
ACBD7	2.146409	0.200327326	4.64E-23	3.93E-22
BLM	1.197481	3.735868601	4.71E-23	3.98E-22
DUSP4	3.61252	5.796696538	4.89E-23	4.14E-22
NPM3	1.642435	5.468794119	4.92E-23	4.15E-22
MAGOHB	1.101092	4.13881535	4.97E-23	4.2E-22
TCEA3	-1.38915	6.043303918	5.07E-23	4.28E-22
RCC1	1.124263	6.4931022	5.39E-23	4.54E-22
ASNS	1.502514	5.967339538	5.42E-23	4.57E-22
CCNA2	1.247054	5.752956804	5.44E-23	4.58E-22
NBEA	-2.08996	1.846096321	5.46E-23	4.59E-22
TSC22D3	-1.23121	5.732728974	5.52E-23	4.64E-22
TLR7	-1.71759	1.302061989	6.2E-23	5.21E-22
CACNG8	3.621925	0.199110583	6.33E-23	5.31E-22
PHF19	1.103654	5.740495711	6.39E-23	5.36E-22
DLX4	2.41946	-0.146902161	6.6E-23	5.52E-22
ODC1	1.199512	7.953393195	6.72E-23	5.62E-22
FMNL2	1.086202	5.492035542	6.78E-23	5.67E-22
GPSM2	1.379167	6.106663994	6.91E-23	5.78E-22
VIPR2	-1.91933	-0.244272077	6.92E-23	5.78E-22
MAPT	-2.12558	1.28879725	7.11E-23	5.93E-22
UGT1A1	-2.85203	-0.138371251	7.14E-23	5.96E-22
KLRF1	-1.91783	-2.02093068	7.38E-23	6.15E-22
TSPAN2	-1.77952	3.391762355	7.47E-23	6.23E-22
BGN	2.568937	8.026645979	7.53E-23	6.27E-22
LIPH	-1.18705	6.114443124	7.83E-23	6.52E-22
WDR17	-2.41414	-1.081179215	8.46E-23	7.03E-22
ITGB3	-1.54683	1.565304689	8.55E-23	7.11E-22
TBC1D16	1.211696	6.457370311	8.98E-23	7.46E-22
LSP1	-1.37341	5.192415626	9.01E-23	7.48E-22
MB	-2.13378	2.105468973	9.33E-23	7.73E-22
SLC9A3R1	-1.08481	7.046403757	9.84E-23	8.15E-22
SERPINB5	3.687619	6.218825649	9.9E-23	8.19E-22
TNS2	-1.10729	5.181382442	1.04E-22	8.59E-22
SCML1	1.701662	5.034674275	1.04E-22	8.61E-22
ARID3A	2.148929	5.596568834	1.05E-22	8.64E-22
IL20RA	1.382003	4.915763147	1.08E-22	8.95E-22
ASB9	2.268705	3.165816645	1.1E-22	9.11E-22
ACKR1	-2.16989	3.101266211	1.11E-22	9.18E-22
SUV39H1	1.251219	4.400787744	1.14E-22	9.39E-22
DCN	-1.66762	7.775076028	1.15E-22	9.51E-22
DNASE1L2	2.578294	0.375752245	1.16E-22	9.58E-22
ERFE	3.41105	1.486575147	1.18E-22	9.68E-22
TDGF1	3.101763	4.814735079	1.23E-22	1.01E-21
S100P	2.534582	8.017205011	1.33E-22	1.09E-21
GLA	1.079663	5.178806833	1.39E-22	1.14E-21
MMP13	5.475056	1.195025288	1.4E-22	1.15E-21

GOLGA7B	2.512804	3.225497027	1.45E-22	1.19E-21
CNKSR2	-2.04151	-1.04576881	1.55E-22	1.27E-21
POLR1D	1.199038	7.310291385	1.61E-22	1.32E-21
CIT	1.096701	5.110426926	1.7E-22	1.39E-21
MRT04	1.073312	5.996721516	1.71E-22	1.39E-21
CEL	5.986509	5.344450917	1.74E-22	1.42E-21
ZIC5	8.173112	1.637569856	1.81E-22	1.48E-21
MS4A2	-2.00036	0.676220621	1.87E-22	1.52E-21
P3H2	-1.71433	3.869449626	1.88E-22	1.53E-21
SMIM10L2B	-1.44537	-0.690099541	1.92E-22	1.56E-21
EIF4EBP1	1.608295	6.07335698	2E-22	1.62E-21
HSF4	2.043692	3.468474749	2.03E-22	1.65E-21
NXT1	1.495715	4.93161174	2.04E-22	1.66E-21
ATP2A3	-1.55871	7.264602198	2.06E-22	1.68E-21
ZNF677	-1.49944	0.74406621	2.11E-22	1.71E-21
GSDMC	2.970579	-1.06149323	2.13E-22	1.73E-21
HSPH1	1.575054	7.671302058	2.14E-22	1.74E-21
GBX2	5.483068	-1.288089544	2.16E-22	1.75E-21
TNFSF12	-1.20221	3.613627404	2.17E-22	1.76E-21
HAUS6	1.140837	4.665057699	2.19E-22	1.78E-21
SLC25A29	1.393341	4.867938281	2.21E-22	1.79E-21
TYRO3	1.927079	3.926318017	2.34E-22	1.89E-21
BHLHE40	1.391393	7.567650236	2.36E-22	1.91E-21
NDRG1	-1.25064	8.750766799	2.37E-22	1.91E-21
UCHL1	-1.972	2.540692552	2.37E-22	1.91E-21
CD46	1.14413	8.950531667	2.37E-22	1.91E-21
CLECL1	-1.76528	-1.405753594	2.47E-22	1.99E-21
GINS3	1.080083	3.52707753	2.57E-22	2.07E-21
TFAP2A	3.551745	2.896237285	2.76E-22	2.22E-21
CARS2	1.057181	6.322534673	2.81E-22	2.26E-21
CLIP4	-1.7355	2.326621127	2.85E-22	2.29E-21
PYCR3	1.742426	5.105414516	2.85E-22	2.29E-21
ZEB1	-1.54454	4.28092113	2.89E-22	2.32E-21
MZT1	1.543362	5.228352794	2.91E-22	2.33E-21
APBA1	-1.3122	2.741034569	2.94E-22	2.36E-21
MPP3	1.571214	2.00982494	2.99E-22	2.4E-21
CACNA2D1	-1.77924	2.444379034	2.99E-22	2.4E-21
MEST	1.041366	6.310090378	3.05E-22	2.44E-21
TMPRSS3	3.020756	3.949565929	3.07E-22	2.45E-21
HCFC2	-1.0162	3.178941611	3.09E-22	2.47E-21
SLC37A2	-1.93662	3.811523852	3.11E-22	2.48E-21
TSEN2	1.184565	4.217335268	3.14E-22	2.51E-21
PRKDC	1.256601	8.132121898	3.18E-22	2.54E-21
CNR2	-2.15647	-1.116345615	3.18E-22	2.54E-21
PDRG1	1.415415	5.255480222	3.24E-22	2.58E-21
NUSAP1	1.21522	5.707124775	3.37E-22	2.69E-21
EXOSC5	1.454691	5.340860493	3.42E-22	2.72E-21
SKP2	1.156781	5.174153553	3.45E-22	2.75E-21
TIGD4	1.774504	0.067564428	3.54E-22	2.81E-21
PGAM5	1.103686	6.681607662	3.69E-22	2.94E-21
GALNT17	-1.77497	0.82455102	3.79E-22	3.01E-21
ATAD3B	1.398397	5.03334685	3.81E-22	3.02E-21
TJP3	-1.15518	6.825270035	3.84E-22	3.05E-21
SPAAR	-1.17838	-0.875049233	3.86E-22	3.07E-21
TUB	-1.75005	1.176876745	3.96E-22	3.14E-21
KBTBD11	-1.11111	5.167433823	4E-22	3.17E-21

LMNB2	1.154634	7.556116215	4.07E-22	3.23E-21
CENPW	1.339343	4.482651878	4.18E-22	3.31E-21
GABRE	2.358663	5.129020297	4.45E-22	3.52E-21
POLA1	1.059882	5.063114437	4.73E-22	3.74E-21
SLC46A1	-1.19235	2.789991059	4.89E-22	3.86E-21
C9orf43	1.488762	-0.407617993	5.09E-22	4.02E-21
VPS35L	-1.26805	4.776715624	5.14E-22	4.06E-21
GGCT	1.161906	5.926143429	5.24E-22	4.13E-21
ACSL6	4.398358	4.611763993	5.44E-22	4.29E-21
LGALS3	-1.10154	9.801506407	5.8E-22	4.57E-21
PABPC1	1.035622	10.99028999	5.92E-22	4.66E-21
RHBDL2	-1.66623	3.423552871	6.01E-22	4.73E-21
CCDC57	1.004943	4.756380381	6.19E-22	4.86E-21
GPR19	1.579966	0.200879824	6.41E-22	5.02E-21
LAS1L	1.088066	5.986427383	6.45E-22	5.05E-21
GPR157	1.318506	4.752822983	6.48E-22	5.07E-21
AC136428.1	-2.53192	-1.065987698	6.73E-22	5.27E-21
DTYMK	1.128076	5.607232969	6.78E-22	5.3E-21
GRAMD1C	-1.36366	2.843906433	6.85E-22	5.36E-21
ADAMTS2	2.440448	5.61551233	6.93E-22	5.41E-21
HYAL3	1.426551	2.474679975	6.99E-22	5.46E-21
FBLN5	-1.37508	4.024751119	7.27E-22	5.67E-21
GTF2F2	1.165851	5.65540308	7.32E-22	5.71E-21
NXPH4	5.859983	3.160734607	7.38E-22	5.75E-21
NPRL3	1.135033	5.755180068	7.4E-22	5.77E-21
TMTC1	-1.61244	3.074079483	7.44E-22	5.79E-21
LANCL3	-1.53273	1.387043686	7.51E-22	5.84E-21
SIX1	3.601877	-0.102540761	7.72E-22	6E-21
SPIN4	1.208637	4.216295073	7.96E-22	6.18E-21
ITPR1	-1.32056	3.87475767	8.01E-22	6.22E-21
GNB1L	1.551186	3.495320733	8.07E-22	6.26E-21
ZNF251	1.125391	4.12921542	8.09E-22	6.28E-21
TRMT6	1.117073	4.802843639	8.29E-22	6.42E-21
ZNF367	1.165293	3.929815179	8.29E-22	6.43E-21
PID1	-1.60624	4.507028609	8.41E-22	6.51E-21
ZIC2	6.121119	2.837108303	8.58E-22	6.64E-21
PNOC	-2.03393	-0.498113692	8.86E-22	6.86E-21
ASIC1	1.776389	4.169783723	9.22E-22	7.13E-21
ASPM	1.515721	4.900709762	9.42E-22	7.27E-21
PDE1C	-1.43743	1.030846309	9.67E-22	7.46E-21
DLGAP5	1.31638	4.684967749	1E-21	7.74E-21
TONSL	1.412846	5.376935189	1.02E-21	7.9E-21
IFRD2	1.251327	6.52785573	1.04E-21	8E-21
SNAP25	-2.48673	-0.021763435	1.05E-21	8.07E-21
SLC8A1	-1.40626	3.537385763	1.05E-21	8.07E-21
GPR180	1.181241	4.612531959	1.09E-21	8.37E-21
SPOCK3	-3.09557	-1.921489615	1.15E-21	8.86E-21
HES6	2.012638	6.203872167	1.19E-21	9.15E-21
CD19	-1.93493	0.91691358	1.19E-21	9.15E-21
CPNE1	1.77131	7.852308878	1.24E-21	9.51E-21
ATXN7L2	1.015396	2.709576031	1.24E-21	9.51E-21
ZBTB12	1.543146	3.350967646	1.24E-21	9.53E-21
KLHL17	1.732341	3.085058336	1.25E-21	9.57E-21
LOXL2	1.681289	5.9934965	1.3E-21	9.98E-21
GINS4	1.365658	3.394541745	1.35E-21	1.03E-20
LRRC31	-1.46493	3.892467669	1.37E-21	1.05E-20

COL6A5	-2.58954	-1.412801159	1.38E-21	1.06E-20
ANGPT2	1.50689	3.076669758	1.42E-21	1.08E-20
PIMREG	1.397513	3.689052172	1.43E-21	1.09E-20
NQO2	1.099834	4.935485243	1.43E-21	1.09E-20
PAX9	3.180887	1.38955361	1.47E-21	1.12E-20
LRRC55	-1.81386	-0.837956555	1.48E-21	1.13E-20
CPQ	-1.15016	4.309844663	1.48E-21	1.13E-20
DDR2	-1.7639	4.858850974	1.52E-21	1.16E-20
NEK5	2.239308	1.804330905	1.55E-21	1.18E-20
HGH1	1.341145	5.746146324	1.56E-21	1.18E-20
TMEM179	-2.59648	-1.114720589	1.58E-21	1.2E-20
KIT	-1.69856	3.292856479	1.63E-21	1.24E-20
TTC28	-1.3172	3.279119618	1.64E-21	1.25E-20
NXPE1	-2.21425	4.437115659	1.7E-21	1.3E-20
LGR5	2.919072	6.33017121	1.71E-21	1.3E-20
FKBP5	-1.03581	5.787660491	1.72E-21	1.3E-20
COL1A1	2.693577	11.36349113	1.72E-21	1.31E-20
NANOS3	3.91282	1.094436687	1.75E-21	1.32E-20
STC1	2.105581	3.937451918	1.77E-21	1.34E-20
RPH3A	-2.2554	-2.306109393	1.77E-21	1.34E-20
CDKL2	-1.69316	-0.827621035	1.88E-21	1.42E-20
SAMD10	1.493265	4.031908888	1.91E-21	1.45E-20
NBEAL2	1.289885	7.283710738	1.95E-21	1.48E-20
ZFP69B	1.373139	1.347403542	1.99E-21	1.5E-20
CHD7	1.137243	6.010143757	2.15E-21	1.62E-20
TRMT112	1.063241	6.858785503	2.2E-21	1.65E-20
FGF10	-1.95866	-0.204381958	2.22E-21	1.67E-20
RTN1	-1.61465	1.764926665	2.23E-21	1.68E-20
FCMR	-1.51033	2.462566395	2.24E-21	1.68E-20
ALDH4A1	1.897608	4.911075132	2.26E-21	1.7E-20
PRSS36	-1.23742	1.577221838	2.38E-21	1.79E-20
SEMA4G	-1.03528	6.053342036	2.41E-21	1.81E-20
KBTBD11-O1	-1.36795	-0.587162008	2.42E-21	1.82E-20
CHRNA1	-1.67189	0.378587314	2.49E-21	1.87E-20
SLAMF9	3.739579	-0.690082478	2.54E-21	1.9E-20
TACC3	1.135058	6.113455949	2.56E-21	1.92E-20
EFNA3	1.844036	4.437167289	2.6E-21	1.95E-20
PLS3	1.241277	5.735409319	2.67E-21	2E-20
TMEM161A	1.320539	5.655747597	2.78E-21	2.07E-20
SLC30A4	-1.2876	3.329204398	2.79E-21	2.08E-20
GRINA	1.362593	7.897668558	2.79E-21	2.08E-20
DNER	-2.37509	-0.015574999	2.82E-21	2.1E-20
MPPED2	-1.8491	-0.663574953	2.93E-21	2.18E-20
UTP20	1.069544	5.431481054	2.93E-21	2.18E-20
CUX2	-2.2691	-2.450432984	3.01E-21	2.24E-20
TSPAN5	1.437424	4.695551456	3.05E-21	2.27E-20
FXVD3	-1.41164	9.217213316	3.21E-21	2.39E-20
TEK	-1.27856	2.750348071	3.23E-21	2.4E-20
SHBG	-1.95364	-1.73169012	3.34E-21	2.48E-20
CNGA1	-1.60796	1.909487339	3.43E-21	2.55E-20
NAT2	-1.69638	2.670823111	3.67E-21	2.72E-20
PITX1	1.760211	5.708106041	3.69E-21	2.73E-20
MEI1	-1.47405	1.632519807	3.72E-21	2.75E-20
MGAT4C	-2.85621	-2.300195035	3.73E-21	2.76E-20
SSC4D	1.329411	0.248227607	3.76E-21	2.78E-20
C16orf45	-1.3413	2.990981615	3.87E-21	2.86E-20

ABCE1	1.076687	6.557611271	3.88E-21	2.87E-20
KHDC4	1.048833	5.649068582	3.97E-21	2.94E-20
PBX1	-1.29922	5.536943043	3.99E-21	2.95E-20
ZNF135	-1.52127	0.094486452	4.35E-21	3.21E-20
FAM124A	-1.60877	1.21240976	4.35E-21	3.21E-20
MCTS2P	1.571452	0.854657773	4.5E-21	3.32E-20
KIAA0895	1.57955	2.85535285	4.62E-21	3.41E-20
WT1	4.854897	1.111302784	4.66E-21	3.44E-20
IRAK2	1.674418	3.807429517	4.68E-21	3.45E-20
SLC11A2	1.232619	6.721214234	4.68E-21	3.45E-20
ANKRD13D	1.000244	4.783702261	4.77E-21	3.51E-20
POLR3G	1.743638	2.597084861	4.81E-21	3.54E-20
SPAG5	1.073225	5.331832846	4.93E-21	3.63E-20
C12orf45	1.005471	3.739313482	5.06E-21	3.72E-20
TMEM249	3.952471	-0.28638522	5.07E-21	3.73E-20
ZNF670-ZNF670	1.859579	-1.136179202	5.15E-21	3.79E-20
RELL2	2.120561	1.990910341	5.19E-21	3.82E-20
AL157935.2	-1.92737	-1.085990692	5.25E-21	3.85E-20
RANGAP1	1.070167	7.229487836	5.25E-21	3.86E-20
RFX8	2.890624	-1.623614474	5.29E-21	3.89E-20
EPYC	7.087305	1.048809945	5.37E-21	3.94E-20
MTAP	1.036629	5.474916231	5.49E-21	4.03E-20
SMYD3	1.083614	2.842858309	5.5E-21	4.03E-20
DPCD	1.20118	4.270333906	5.74E-21	4.21E-20
SH3BP1	-1.00051	5.76327025	5.86E-21	4.29E-20
ENTPD3	-2.02551	0.54599165	5.93E-21	4.34E-20
CTU2	1.221699	4.499247947	5.93E-21	4.34E-20
STK17B	-1.02161	5.475712164	5.93E-21	4.34E-20
KCTD14	1.288707	4.273077427	6.34E-21	4.63E-20
PLK4	1.097704	3.867873942	6.42E-21	4.69E-20
FOXP2	-2.09473	2.652262532	6.48E-21	4.73E-20
ECE2	1.445125	4.465654824	6.54E-21	4.77E-20
PDP1	1.185325	5.264246029	6.73E-21	4.91E-20
HMGCS2	-2.27119	8.071717324	6.84E-21	4.99E-20
PTK7	2.134576	6.678340192	6.95E-21	5.06E-20
DUSP27	7.626642	5.521033255	7.07E-21	5.15E-20
PDLIM2	-1.12334	4.135535439	7.13E-21	5.19E-20
PSMG4	1.186607	4.494422779	7.34E-21	5.34E-20
SRM	1.499197	6.540778428	7.41E-21	5.39E-20
ASF1B	1.147406	5.657724445	7.42E-21	5.39E-20
UNC5CL	2.010665	4.06845102	7.59E-21	5.51E-20
HIST3H2A	1.918112	3.724615479	7.72E-21	5.6E-20
FEN1	1.056646	5.787467822	7.76E-21	5.63E-20
HBA2	-2.03814	2.319937745	7.85E-21	5.69E-20
DTNB	1.286258	3.520919113	7.99E-21	5.79E-20
STK32B	-1.48045	0.024809683	8.07E-21	5.84E-20
PDZRN3	-1.37972	4.132220496	8.16E-21	5.9E-20
FERMT1	1.512386	8.211704707	8.74E-21	6.32E-20
PIK3CG	-1.64315	1.966661447	8.85E-21	6.4E-20
TBC1D31	1.118724	3.591891292	9.74E-21	7.03E-20
DTD1	1.170231	5.509886136	1.03E-20	7.43E-20
MIXL1	-1.87175	-1.305988286	1.04E-20	7.51E-20
PARPBP	1.415407	4.065273376	1.11E-20	8E-20
ATAT1	1.08329	3.996746156	1.11E-20	8E-20
RNF32	1.367962	2.303460552	1.2E-20	8.6E-20
MZB1	-1.97592	4.138439761	1.21E-20	8.68E-20



CXXC5	1.089236	6.423787902	1.22E-20	8.77E-20
DIRAS2	-2.29409	-2.074315735	1.23E-20	8.84E-20
ACD	1.088104	4.765158471	1.26E-20	9.02E-20
OLFM1	-1.71334	2.518719143	1.27E-20	9.12E-20
SEC14L6	-1.82839	-2.060346694	1.28E-20	9.18E-20
PAH	5.607894	2.042463364	1.29E-20	9.24E-20
UBXN11	1.206435	4.252822473	1.29E-20	9.26E-20
RAD51AP1	1.343658	4.110393959	1.35E-20	9.63E-20
HS6ST2	3.616093	4.083765637	1.35E-20	9.66E-20
PTP4A3	2.284214	6.021556373	1.42E-20	1.01E-19
CHI3L1	2.893976	4.977484916	1.42E-20	1.02E-19
SCRG1	-2.68325	-0.139616658	1.43E-20	1.02E-19
SERPINH1	1.203197	7.813037409	1.47E-20	1.04E-19
RTEL1-TNFR	2.005842	2.624677971	1.48E-20	1.06E-19
SH3BP4	1.056006	6.788124972	1.49E-20	1.06E-19
MCM8	1.222167	4.630084353	1.59E-20	1.13E-19
CLVS2	-2.76732	-2.428940771	1.61E-20	1.15E-19
FAM92A	1.5591	4.227048952	1.76E-20	1.25E-19
GPIHBP1	-2.00137	-0.530924449	1.76E-20	1.25E-19
EVPL	1.740985	7.024004191	1.78E-20	1.26E-19
VWC2	-2.17352	-1.706782366	1.83E-20	1.3E-19
LIMK1	1.030078	5.706714476	1.86E-20	1.32E-19
CR2	-2.58309	2.611510331	1.92E-20	1.36E-19
BTLA	-1.67039	-0.293024107	2.01E-20	1.42E-19
SPP1	4.092493	7.441807833	2.03E-20	1.43E-19
LRRC20	1.073713	4.388665851	2.08E-20	1.47E-19
HSPB2	-1.52918	-0.7821454	2.13E-20	1.51E-19
BCL2L12	1.227967	4.759815313	2.19E-20	1.55E-19
TBX15	2.950488	-0.163428603	2.21E-20	1.56E-19
DNAH5	2.49967	0.883190179	2.3E-20	1.62E-19
TPSB2	-1.89188	3.003270571	2.32E-20	1.63E-19
CDT1	1.617168	5.825091018	2.32E-20	1.64E-19
MEIS2	-1.73273	2.657330949	2.35E-20	1.65E-19
C16orf46	1.117009	0.422515251	2.39E-20	1.68E-19
POLB	1.141525	4.391184188	2.49E-20	1.75E-19
SLC11A1	2.498246	3.376570927	2.55E-20	1.79E-19
OLFM3	-2.80649	-2.069599981	2.75E-20	1.93E-19
CCSAP	1.162423	3.726394734	2.92E-20	2.05E-19
NSUN5	1.044805	5.394247873	2.96E-20	2.07E-19
AMH	4.24474	2.057204479	2.96E-20	2.08E-19
HSD17B7	1.037476	3.777061066	2.98E-20	2.09E-19
ABCD2	-1.78409	-0.456448551	3.15E-20	2.2E-19
FOSL1	2.68809	4.160223839	3.21E-20	2.24E-19
CIDEC	-2.16235	1.999206498	3.28E-20	2.29E-19
ADAMTS6	2.301542	1.472841833	3.28E-20	2.29E-19
ATR	1.010529	5.11440935	3.61E-20	2.51E-19
TMEM270	2.48874	-1.407560097	3.73E-20	2.6E-19
RELT	1.17043	3.402555057	3.76E-20	2.61E-19
SKA1	1.323583	3.534260421	3.79E-20	2.63E-19
NPM1	1.123567	9.34338042	3.85E-20	2.68E-19
TESPA1	-1.49481	0.713474803	3.96E-20	2.75E-19
C6orf15	7.447595	1.692105458	4.04E-20	2.8E-19
SLAMF7	-1.71862	4.1700529	4.04E-20	2.8E-19
FBXL7	-1.3164	2.537637495	4.06E-20	2.81E-19
NAA10	1.383598	5.868897045	4.07E-20	2.82E-19
SCTR	-1.97486	-1.641491205	4.18E-20	2.89E-19

COL19A1	-2.46972	-2.253660932	4.62E-20	3.2E-19
CACFD1	-1.01612	5.663943301	4.82E-20	3.33E-19
FLI1	-1.20072	3.207817052	5.04E-20	3.48E-19
PHYH	-1.01888	5.432035585	5.06E-20	3.49E-19
MEX3D	1.331467	5.143755042	5.11E-20	3.53E-19
WNT2B	-1.19856	2.811852031	5.15E-20	3.55E-19
SIGLEC1	-1.70873	3.27592279	5.17E-20	3.56E-19
ANKRD53	-1.44741	-1.390975191	5.22E-20	3.6E-19
LRFN5	-1.87817	-1.068878495	5.26E-20	3.62E-19
BRINP3	-3.24139	1.18519303	5.46E-20	3.76E-19
ACTA2	-1.52042	7.750884771	5.47E-20	3.76E-19
RPL22L1	2.15506	6.098067048	5.53E-20	3.81E-19
NUP58	1.10517	6.23986685	5.72E-20	3.93E-19
PROSER1	1.254032	6.900757754	5.72E-20	3.93E-19
MS4A8	-1.99919	3.45129357	5.83E-20	4.01E-19
DNTTIP1	1.387373	6.257467837	5.89E-20	4.05E-19
MYBBP1A	1.080934	6.425843521	5.98E-20	4.11E-19
ZNF761	1.039119	4.251156152	6.17E-20	4.24E-19
C10orf55	2.021878	-0.624505599	6.32E-20	4.34E-19
SLC35D3	4.450415	2.802217382	6.35E-20	4.35E-19
PSMA7	1.313418	8.385933759	6.35E-20	4.35E-19
KRT6B	5.435416	4.031697992	6.39E-20	4.38E-19
ST8SIA3	-2.91323	-2.384194469	6.63E-20	4.54E-19
KCNG3	-2.14189	-1.352412192	6.67E-20	4.56E-19
KCNC1	-1.85293	-2.41129737	7.19E-20	4.91E-19
MAGI2	-1.19296	1.691507366	7.2E-20	4.91E-19
INA	-2.45924	-0.257408175	7.34E-20	5.01E-19
REM2	1.752852	0.196799936	7.36E-20	5.02E-19
ZDHHC15	-1.76504	-0.742292863	7.4E-20	5.04E-19
DDX39A	1.187623	6.896973821	7.92E-20	5.4E-19
DSCAML1	-2.19666	-0.162974807	8.19E-20	5.58E-19
GINS2	1.215311	5.012135907	8.2E-20	5.58E-19
TP53RK	1.241415	5.359423317	8.25E-20	5.61E-19
ADCY3	1.101224	5.634376434	8.59E-20	5.84E-19
ARFGAP1	1.245793	7.034014808	8.64E-20	5.87E-19
43892	-1.03442	3.634419472	8.75E-20	5.94E-19
PTX3	-1.68912	-0.0922189	9.08E-20	6.16E-19
POU2F2	-1.37939	2.443042899	9.19E-20	6.23E-19
CCNB2	1.116657	5.530704001	9.25E-20	6.26E-19
BID	1.111143	5.941839647	9.25E-20	6.26E-19
SHISA3	-2.11101	0.926211799	9.41E-20	6.37E-19
STON1	-1.58686	2.636841502	9.79E-20	6.61E-19
GPRIN2	-1.38792	3.246411083	9.87E-20	6.67E-19
FOXA2	1.605327	5.517666312	1E-19	6.76E-19
SCARA3	-1.52214	3.241757086	1.02E-19	6.9E-19
PACSIN1	-1.62395	-0.609544526	1.02E-19	6.91E-19
PDK2	-1.02619	4.967636813	1.04E-19	6.99E-19
CCDC192	1.847791	-0.171320928	1.08E-19	7.26E-19
BTK	-1.42726	2.182307324	1.1E-19	7.4E-19
BEX1	-2.46124	-0.789158275	1.13E-19	7.59E-19
GPR162	-1.18358	0.743475867	1.17E-19	7.9E-19
PCNA	1.20573	7.588129968	1.18E-19	7.97E-19
GJC3	2.609535	-0.531858489	1.2E-19	8.06E-19
TBC1D9	-1.20519	3.996552802	1.2E-19	8.07E-19
SLITRK2	-2.33258	-2.264647727	1.21E-19	8.1E-19
SPART	-1.39714	3.374971354	1.27E-19	8.48E-19

DIO2	2.050185	3.447506496	1.28E-19	8.6E-19
TMEM156	-1.53335	-0.01177905	1.32E-19	8.82E-19
LPO	4.626345	-0.231220055	1.37E-19	9.2E-19
HDAC9	-1.60324	2.505135955	1.38E-19	9.25E-19
PLOD3	1.260641	7.754821517	1.39E-19	9.32E-19
POLE2	1.210065	3.161764796	1.46E-19	9.75E-19
PPP1R14D	-1.45766	5.416481158	1.48E-19	9.86E-19
CCNL2	1.060235	6.538352173	1.53E-19	1.02E-18
ZP3	1.831062	3.798379621	1.53E-19	1.02E-18
CENPE	1.492945	4.26485527	1.55E-19	1.03E-18
FBLN1	-1.61858	6.794717133	1.58E-19	1.05E-18
CLEC17A	-2.21908	-1.337742744	1.63E-19	1.09E-18
LTBP4	-1.27273	7.18867829	1.65E-19	1.1E-18
PITPNM3	-1.30759	4.127890471	1.67E-19	1.11E-18
CX3CR1	-1.49219	0.308795741	1.69E-19	1.12E-18
ESPL1	1.092343	4.883176557	1.74E-19	1.15E-18
LIPG	1.40929	5.390633228	1.82E-19	1.21E-18
SAPCD1	2.166282	-0.10900738	1.89E-19	1.25E-18
USPL1	1.042623	4.788276707	1.91E-19	1.26E-18
TAZ	1.016207	5.007335436	1.92E-19	1.27E-18
ELOVL4	-1.41831	-0.345653709	1.92E-19	1.28E-18
RBM24	-1.81155	0.528444831	1.94E-19	1.28E-18
RP1	5.334915	-1.579111088	1.95E-19	1.29E-18
AC009163.2	-2.35821	-2.053300731	1.96E-19	1.3E-18
KCNK10	-1.78671	1.080276089	2.05E-19	1.36E-18
MISP	-1.05296	8.704866514	2.06E-19	1.36E-18
FNDC11	2.584595	0.317274746	2.15E-19	1.42E-18
ZNRF3	1.759936	-0.275265554	2.16E-19	1.43E-18
FASN	1.498437	8.559851329	2.19E-19	1.45E-18
MS4A1	-2.46545	2.016924998	2.23E-19	1.47E-18
CCDC148	2.337858	-0.842239225	2.32E-19	1.53E-18
CHRNA3	-1.91158	1.472374728	2.33E-19	1.53E-18
CXCL2	2.422264	4.743157375	2.51E-19	1.65E-18
ARHGEF19	1.422083	4.321983618	2.52E-19	1.66E-18
IL6ST	-1.04137	6.169488298	2.69E-19	1.77E-18
CD1C	-1.5993	0.502209149	2.71E-19	1.78E-18
KDELC1	1.218542	2.643526777	2.72E-19	1.79E-18
SLC22A11	4.559354	1.535747739	2.86E-19	1.88E-18
CPA4	3.772836	-1.111202064	2.9E-19	1.9E-18
CBARP	2.578223	0.653820685	2.96E-19	1.94E-18
HOXB8	2.830787	5.226182524	3.05E-19	1.99E-18
PODXL2	1.627686	5.979417032	3.06E-19	2E-18
OLFML1	-1.24627	2.510986376	3.12E-19	2.04E-18
PFDN2	1.136075	5.691252433	3.2E-19	2.09E-18
SNCA	-1.71905	0.952549581	3.25E-19	2.12E-18
CCDC74A	1.379036	2.098318042	3.26E-19	2.12E-18
CDON	-1.29665	2.439615591	3.37E-19	2.2E-18
METTL26	1.453348	6.135247149	3.44E-19	2.24E-18
SOCS2	-1.06173	3.499874838	3.44E-19	2.24E-18
TP73	2.359354	2.431669357	3.44E-19	2.24E-18
HTR3A	-2.385	-1.05372717	3.49E-19	2.27E-18
XPO4	1.160952	5.703333793	3.5E-19	2.28E-18
GCOM1	-1.3331	0.063720426	3.5E-19	2.28E-18
RPL10L	-1.98934	-1.238136511	3.54E-19	2.3E-18
RAB15	1.263266	6.602420648	3.59E-19	2.33E-18
MGP	-1.76275	6.055504029	3.69E-19	2.39E-18

NCS1	-1.14845	5.159271913	3.77E-19	2.44E-18
CKS1B	1.076864	4.946833708	3.86E-19	2.5E-18
EPB41L4A	-1.56861	1.664234978	3.93E-19	2.55E-18
IFITM1	1.723155	8.210662317	4.02E-19	2.6E-18
PLIN4	-2.70766	3.91424946	4.11E-19	2.65E-18
CEP83	1.057371	3.852755071	4.11E-19	2.66E-18
BRAT1	1.05508	6.343122569	4.29E-19	2.77E-18
ZNF26	1.045331	3.832410307	4.5E-19	2.9E-18
SLC31A2	-1.2155	0.381735664	4.51E-19	2.91E-18
DLG2	-1.56494	0.179692534	4.61E-19	2.96E-18
GNAL	-1.2143	2.398191754	4.62E-19	2.97E-18
EN2	6.210677	1.073959528	4.77E-19	3.07E-18
AURKB	1.303542	5.064067005	4.82E-19	3.1E-18
SULT1C2	2.983061	3.838512487	4.85E-19	3.11E-18
CCL19	-2.23178	2.188041	4.86E-19	3.12E-18
CCL21	-1.99386	4.261623716	5.06E-19	3.24E-18
FBXO5	1.029578	3.803999279	5.35E-19	3.43E-18
ATAD5	1.374646	3.420586031	5.47E-19	3.5E-18
ASXL3	-1.99762	0.610516297	5.7E-19	3.64E-18
PGC	5.148776	1.358904889	5.89E-19	3.76E-18
ADK	1.016104	5.212735265	5.94E-19	3.8E-18
PRKN	-1.33886	0.962743527	6.02E-19	3.84E-18
PIWIL1	5.144189	3.157539021	6.12E-19	3.9E-18
NUDT1	1.222749	4.60883285	6.16E-19	3.93E-18
AGTRAP	1.125993	5.327204214	6.23E-19	3.97E-18
CARMIL3	1.811672	1.739816972	6.29E-19	4.01E-18
YDJC	1.428263	5.461694461	6.47E-19	4.12E-18
LZTS1	1.675478	2.524962461	6.74E-19	4.29E-18
HSD17B6	-1.31202	1.4730749	6.94E-19	4.41E-18
ASGR1	2.593409	2.244075544	6.97E-19	4.43E-18
SNCG	-1.73425	1.500214479	7.03E-19	4.47E-18
CLDN14	3.1832	0.678347295	7.29E-19	4.63E-18
RIPPLY3	3.660485	0.443483296	7.37E-19	4.67E-18
PSMG1	1.174734	5.670246947	7.38E-19	4.68E-18
TMEM25	-1.42456	2.258329173	7.49E-19	4.75E-18
CPA3	-1.79738	3.240109199	7.64E-19	4.84E-18
NEFL	-2.6785	0.641310182	8.04E-19	5.1E-18
IGFL1	8.32999	0.290698931	8.14E-19	5.16E-18
TMEM201	1.01403	4.845695102	8.35E-19	5.28E-18
LILRA4	-1.89945	-1.536988489	8.45E-19	5.34E-18
FBF1	1.148932	1.987818538	8.53E-19	5.39E-18
TMEM211	3.768802	1.993847199	8.55E-19	5.4E-18
SCN3B	-1.81613	-0.188195375	8.67E-19	5.48E-18
UNC79	-1.26131	-1.074603318	8.79E-19	5.55E-18
GIMAP4	-1.22973	3.758203281	8.8E-19	5.56E-18
SUSD5	-1.82132	0.027553962	9.24E-19	5.83E-18
WDHD1	1.117539	4.080429564	9.84E-19	6.2E-18
MCOLN2	-1.6368	3.567869023	1.01E-18	6.39E-18
GAPT	-1.71606	0.095382888	1.02E-18	6.42E-18
COLEC12	-1.70381	2.999838505	1.03E-18	6.45E-18
LRRN4	3.015091	-1.17698722	1.05E-18	6.61E-18
SLC29A1	1.168912	6.652419078	1.14E-18	7.18E-18
FAM84B	1.00799	6.294954099	1.16E-18	7.26E-18
BMP4	1.944584	6.283329162	1.16E-18	7.26E-18
TMTC4	1.030968	5.401980249	1.17E-18	7.34E-18
MINDY4	1.288661	1.177264036	1.19E-18	7.47E-18

DYNC1H1	-1.96111	0.791568153	1.2E-18	7.55E-18
FBL	1.179552	7.968366433	1.23E-18	7.68E-18
BICDL1	1.06616	4.027108436	1.24E-18	7.74E-18
PHKA1	1.436398	4.266874339	1.3E-18	8.15E-18
FMO1	-1.84405	0.320932016	1.3E-18	8.15E-18
CDKN2A	2.984047	3.282903494	1.32E-18	8.23E-18
FAM111B	1.276348	4.520784786	1.4E-18	8.73E-18
TCL1A	-2.84734	0.404824792	1.4E-18	8.77E-18
ANKRD9	-1.08889	5.598448316	1.46E-18	9.15E-18
GLYATL1	3.110743	1.273800648	1.53E-18	9.54E-18
DDIT4	1.541196	6.546875093	1.56E-18	9.68E-18
FKBP10	1.967641	6.762959296	1.6E-18	9.92E-18
FOXS1	1.658704	1.08880599	1.64E-18	1.02E-17
DUSP9	4.352159	-0.157133876	1.69E-18	1.05E-17
CENPJ	1.141908	4.156686683	1.72E-18	1.07E-17
PAPPA2	-2.20083	-0.480901784	1.73E-18	1.07E-17
CAMK2N1	-1.09556	7.199038588	1.78E-18	1.1E-17
NFASC	-1.36487	3.72571152	1.82E-18	1.13E-17
ST8SIA1	-1.41912	0.956684225	1.84E-18	1.14E-17
PROX1	1.940741	5.323433116	1.84E-18	1.14E-17
KRT7	3.895994	3.936608536	1.85E-18	1.14E-17
SLC2A1	1.84159	8.134969287	1.88E-18	1.16E-17
ACTL10	1.742289	3.154060665	1.88E-18	1.16E-17
HTR1D	2.860625	3.284630265	1.89E-18	1.17E-17
ENPP2	-1.41309	4.296446896	1.91E-18	1.18E-17
PMP22	-1.2423	5.744614785	1.96E-18	1.21E-17
KLHDC1	-1.13428	0.374721527	1.98E-18	1.22E-17
SPDYC	3.761156	-0.192999025	2.06E-18	1.27E-17
ADRA2A	-1.75122	4.132142646	2.11E-18	1.3E-17
SLC13A3	4.286779	3.187970938	2.21E-18	1.36E-17
MTG2	1.082184	5.618781948	2.29E-18	1.41E-17
CLSPN	1.318249	3.216362256	2.32E-18	1.43E-17
NLRP7	-2.01027	-1.722604852	2.35E-18	1.44E-17
PDE1A	-1.40077	1.858928981	2.56E-18	1.57E-17
ZHX1-C8orf7	1.193023	-0.089074723	2.6E-18	1.59E-17
CCDC138	1.057264	2.858790254	2.64E-18	1.62E-17
PTPRR	-1.68264	3.835879358	2.83E-18	1.73E-17
TMEM54	-1.17726	7.873843979	2.84E-18	1.74E-17
BMP7	3.303989	5.331284621	2.9E-18	1.77E-17
LY6G6C	3.175209	0.593339673	2.92E-18	1.78E-17
RNF219	1.034808	3.858418065	2.94E-18	1.8E-17
TNFRSF13C	-1.59686	1.379005289	2.95E-18	1.8E-17
IRAK1	1.090382	7.987851754	2.95E-18	1.8E-17
TMEM67	1.240154	2.920445162	3E-18	1.83E-17
ELF5	7.752617	1.763769402	3.06E-18	1.86E-17
TEX30	1.396315	3.204295001	3.11E-18	1.89E-17
GFI1B	-2.17335	-0.924555337	3.15E-18	1.92E-17
PMEP1	1.895625	7.655704613	3.21E-18	1.95E-17
LY6G6F-LY6	5.767091	3.235779216	3.25E-18	1.97E-17
TNFSF15	1.379511	4.176264317	3.26E-18	1.98E-17
PPM1N	1.708366	1.252563508	3.28E-18	1.99E-17
IL11RA	-1.00523	2.753327664	3.38E-18	2.05E-17
CAVIN1	-1.23956	7.079913328	3.62E-18	2.19E-17
LEPR	-1.25206	2.768008316	3.68E-18	2.23E-17
ZNF280A	4.770287	-2.052973275	3.92E-18	2.37E-17
AMN	-1.54305	6.009219084	3.96E-18	2.39E-17

CXCL8	3.926959	7.176899398	4E-18	2.42E-17
KYAT1	1.154466	2.422110969	4.07E-18	2.46E-17
DACH1	2.146511	5.126207654	4.14E-18	2.5E-17
MID1IP1	1.029037	6.315900799	4.16E-18	2.51E-17
AGO2	1.005958	6.515317695	4.26E-18	2.57E-17
GABRG2	-2.9181	-2.308000635	4.32E-18	2.6E-17
ALG3	1.041163	6.370703182	4.36E-18	2.62E-17
GRIN2A	-2.33386	-1.458747723	4.43E-18	2.67E-17
IL1R2	-1.79503	3.878801699	4.45E-18	2.68E-17
B9D1	1.349388	3.406487679	4.53E-18	2.73E-17
KIF11	1.069352	5.492943373	4.54E-18	2.73E-17
HEPACAM2	-2.36485	4.618330967	4.63E-18	2.78E-17
PSMG3	1.038232	5.383423432	4.68E-18	2.81E-17
NUTM2D	-1.19887	-0.945888853	4.7E-18	2.83E-17
SPNS2	1.834617	6.282501506	4.73E-18	2.84E-17
TAS2R38	2.748614	-1.377685311	4.75E-18	2.85E-17
ARHGAP39	1.174775	4.644866483	4.79E-18	2.87E-17
PNPLA3	3.721763	0.750107051	4.8E-18	2.88E-17
MATN3	2.696316	1.581553914	4.97E-18	2.98E-17
NSDHL	1.083223	5.490904972	4.98E-18	2.98E-17
IL1A	3.175147	1.627182437	5.17E-18	3.09E-17
ARHGAP42	-1.00893	3.57004056	5.23E-18	3.13E-17
FAM49A	-1.33596	2.619474028	5.92E-18	3.54E-17
NAA16	1.019345	4.097424918	6.09E-18	3.64E-17
SRCIN1	1.900308	3.578164776	6.21E-18	3.71E-17
CMKLR1	-1.38456	3.251481599	6.37E-18	3.8E-17
FAM72D	1.817882	-0.360047287	6.43E-18	3.84E-17
MYO15B	-1.21322	7.347054734	6.76E-18	4.03E-17
CNIH3	1.464844	1.769218067	7E-18	4.17E-17
RLIM	1.009754	5.963318777	7.01E-18	4.18E-17
HAUS7	1.250372	1.782180131	7.03E-18	4.19E-17
PDPN	1.72662	4.772018236	7.32E-18	4.36E-17
KRTAP5-1	2.070744	0.121669166	7.65E-18	4.55E-17
SLCO5A1	2.00661	2.190501009	7.65E-18	4.55E-17
FPGS	1.07389	6.251048944	7.65E-18	4.55E-17
KLK15	-1.88272	0.611761453	7.68E-18	4.56E-17
LRRC46	1.437693	-0.317550238	8.41E-18	4.99E-17
CYP11A1	-1.81341	-1.854957071	8.41E-18	4.99E-17
DEFB1	-2.00426	1.97619027	8.75E-18	5.19E-17
NPEPL1	1.277458	4.077505421	8.78E-18	5.21E-17
PRX	-1.11216	1.679703754	8.85E-18	5.24E-17
CCDC198	6.26061	-0.753194191	8.89E-18	5.27E-17
ALDH3B2	3.616713	1.380312262	8.95E-18	5.3E-17
PSMC3IP	1.017827	2.150730529	8.99E-18	5.33E-17
DPYD	-1.54631	3.527556454	9.07E-18	5.37E-17
TMEM147	1.158497	6.653239827	9.51E-18	5.63E-17
LY6H	-1.89985	-0.642470575	9.58E-18	5.67E-17
GABARAP	-1.1287	5.072023307	9.91E-18	5.86E-17
CYP2C8	-1.74219	-1.726802725	1.01E-17	5.96E-17
SIX4	2.844713	0.925181131	1.02E-17	6.01E-17
OASL	-1.43785	4.205161598	1.03E-17	6.05E-17
TMEM45B	-1.03843	7.395525413	1.07E-17	6.3E-17
WDR97	2.496129	1.168865731	1.07E-17	6.33E-17
CXCL5	5.207901	5.220446849	1.08E-17	6.34E-17
C10orf99	-1.94454	6.575547536	1.13E-17	6.67E-17
INSYN1	-1.47249	0.126279941	1.15E-17	6.77E-17

MPP6	1.878742	3.53273786	1.19E-17	7E-17
SLC3A1	-1.68008	4.025701405	1.2E-17	7.07E-17
TM4SF19	2.857608	-1.516074644	1.2E-17	7.07E-17
SLC19A2	1.027611	4.364292895	1.25E-17	7.31E-17
ABCB1	-1.75308	5.615708182	1.25E-17	7.31E-17
OR51E2	-1.73509	0.731403868	1.25E-17	7.32E-17
RNF125	-1.28761	3.45770232	1.26E-17	7.36E-17
BACE2	1.2704	7.636081645	1.26E-17	7.41E-17
KLHL31	1.781089	0.845475691	1.28E-17	7.51E-17
SP6	1.996106	4.781309456	1.33E-17	7.8E-17
WNT9A	-1.54192	1.502370024	1.34E-17	7.82E-17
PLXNA3	1.191428	5.970332654	1.38E-17	8.05E-17
EPHB3	2.009201	7.709360938	1.43E-17	8.32E-17
C3orf70	-1.31269	3.543047171	1.44E-17	8.37E-17
SLC15A2	-1.0288	1.652854868	1.44E-17	8.38E-17
CCDC136	-1.50316	1.341725834	1.5E-17	8.72E-17
UCKL1	1.292351	6.096764054	1.52E-17	8.84E-17
EDNRA	1.934248	3.815039264	1.56E-17	9.11E-17
TNFAIP8L3	-1.37192	1.903153786	1.57E-17	9.12E-17
AKAP5	-1.35241	2.693810739	1.58E-17	9.19E-17
ANKRD65	-1.51384	0.945006003	1.61E-17	9.37E-17
FAXC	-1.73368	1.005548347	1.64E-17	9.5E-17
SPNS3	1.678211	1.831752275	1.67E-17	9.71E-17
SLC1A5	1.196711	8.106236956	1.68E-17	9.73E-17
SH2D5	3.200666	-0.952279499	1.71E-17	9.9E-17
FAM110D	-1.22928	0.181996529	1.73E-17	1E-16
SH2D1B	-1.61914	-0.904083149	1.77E-17	1.02E-16
BRIP1	1.206108	3.510604457	1.87E-17	1.08E-16
DDX27	1.140487	6.756396952	1.95E-17	1.13E-16
WDR27	1.233757	3.932883656	1.99E-17	1.15E-16
XPNPEP2	-2.24155	4.349933066	2.08E-17	1.2E-16
SOX15	-1.36271	-0.223250997	2.15E-17	1.24E-16
CNGA3	-2.60234	-0.094125251	2.18E-17	1.25E-16
MSLNL	5.592577	-1.26219861	2.18E-17	1.26E-16
WDR54	1.259067	3.5742184	2.31E-17	1.33E-16
SMIM10	-1.37094	1.094067609	2.37E-17	1.36E-16
CSF2	3.415049	-0.415229997	2.38E-17	1.37E-16
AKAP9	-1.03749	6.07042373	2.41E-17	1.38E-16
STX16	1.022531	6.35542615	2.45E-17	1.41E-16
STAP2	-1.02912	6.727620429	2.49E-17	1.43E-16
PAEP	9.318642	3.124787263	2.5E-17	1.43E-16
AICDA	-2.69749	-2.317307166	2.53E-17	1.45E-16
LGALS9B	-2.00264	1.885537479	2.58E-17	1.48E-16
NDRG4	-1.1253	2.252818162	2.64E-17	1.51E-16
ATP8A1	-1.22345	5.247143146	2.72E-17	1.56E-16
PELI2	-1.22981	3.55359681	2.73E-17	1.57E-16
PRMT1	1.357164	7.749606739	2.74E-17	1.57E-16
SV2B	-1.82695	0.17809329	2.81E-17	1.61E-16
COL27A1	1.944175	4.620882956	2.88E-17	1.64E-16
ZNF511	1.105939	4.967662715	2.9E-17	1.65E-16
PPBP	9.110802	6.058003744	2.92E-17	1.67E-16
DOK7	2.308742	1.822768958	2.97E-17	1.7E-16
SYT7	1.790468	6.087030739	2.97E-17	1.7E-16
KRT1	-2.28708	-1.375404278	2.98E-17	1.7E-16
EREG	3.44008	5.877710894	3E-17	1.71E-16
PODNL1	1.721383	2.859643755	3.05E-17	1.74E-16

RETREG1	-1.19513	5.075848761	3.15E-17	1.79E-16
PLPP4	2.960528	1.475229494	3.16E-17	1.8E-16
NUP210	1.426432	6.854898171	3.26E-17	1.85E-16
GSDMA	2.502883	2.010792037	3.32E-17	1.89E-16
MYCT1	-1.12456	1.896299702	3.38E-17	1.92E-16
HABP2	6.222504	1.132287941	3.39E-17	1.93E-16
MAP4K1	-1.31024	2.441648412	3.49E-17	1.98E-16
IFITM3	1.525131	9.027997806	3.55E-17	2.01E-16
IP6K3	-1.52735	-0.896676348	3.58E-17	2.03E-16
HACD4	-1.23281	2.651074684	3.6E-17	2.04E-16
KREMEN2	2.237201	1.343020694	3.61E-17	2.05E-16
ONECUT2	2.751925	2.592960206	3.62E-17	2.05E-16
KCNIP3	-1.49136	0.559683927	3.62E-17	2.05E-16
RSPO1	-1.98554	-1.389609946	3.91E-17	2.21E-16
TSHZ3	-1.25561	2.70727143	3.97E-17	2.24E-16
HMMR	1.401511	4.937423544	4.17E-17	2.36E-16
ICAM3	-1.50995	0.986050789	4.61E-17	2.6E-16
SLC9A7	1.797101	3.807082559	4.7E-17	2.65E-16
ATP6V1F	1.002074	6.567106604	5.02E-17	2.83E-16
POU2AF1	-1.82582	3.60688882	5.2E-17	2.93E-16
FCGBP	-2.27811	10.08103618	5.4E-17	3.04E-16
EBF1	-1.30089	1.798084022	5.45E-17	3.07E-16
CLIC2	-1.24778	2.66401911	5.6E-17	3.15E-16
PC	-1.04506	4.373995635	5.71E-17	3.21E-16
LY6G6D	5.572735	3.24808007	5.85E-17	3.28E-16
SLC35E4	1.504025	4.443348984	5.89E-17	3.3E-16
PRSS33	4.521789	2.978820275	5.93E-17	3.32E-16
ERICH2	2.576429	-0.015583942	6.02E-17	3.37E-16
F12	1.679878	4.484900485	6.14E-17	3.44E-16
TIFAB	-1.61056	-0.363188844	6.15E-17	3.44E-16
FRMD5	1.893062	3.01544458	6.28E-17	3.51E-16
CSPG4	-1.29488	4.629416306	6.29E-17	3.52E-16
TMPRSS5	3.292084	1.051516306	6.44E-17	3.6E-16
C3orf18	-1.05515	1.636718887	6.47E-17	3.61E-16
KCNAB1	-1.51128	1.054242058	6.5E-17	3.63E-16
YY2	1.317339	0.146305081	6.64E-17	3.71E-16
C3orf85	-1.85484	1.9518026	6.83E-17	3.81E-16
CCM2L	-1.05151	0.704606985	6.93E-17	3.86E-16
FAS	-1.09974	4.223626666	7.18E-17	3.99E-16
AGT	2.012452	4.813772995	7.22E-17	4.02E-16
IKZF1	-1.41047	3.404796693	7.26E-17	4.04E-16
CHAC1	1.664445	3.346518082	7.45E-17	4.14E-16
TRIM72	5.587136	2.472884029	7.51E-17	4.17E-16
ZNF781	-1.35793	-1.086871785	7.54E-17	4.19E-16
KCP	1.849603	1.717934753	7.54E-17	4.19E-16
EXOSC4	1.449867	5.295116877	7.58E-17	4.21E-16
PRIM1	1.003695	3.762702692	7.58E-17	4.21E-16
DZIP1	-1.19527	2.229696692	7.64E-17	4.24E-16
NLGN3	-1.21392	0.498465659	7.68E-17	4.26E-16
RDH16	2.310178	-0.265321483	7.76E-17	4.3E-16
KRT16	5.993193	2.191963773	7.76E-17	4.3E-16
SNRPB	1.195531	8.266270172	7.82E-17	4.33E-16
FAM131C	2.631292	-0.735098226	7.83E-17	4.34E-16
ABCG5	-2.00967	0.252049867	8.09E-17	4.48E-16
PPP1R35	1.261415	4.568939773	8.24E-17	4.56E-16
DUSP2	1.568491	3.971949114	8.32E-17	4.6E-16



CDC20	1.266265	6.366924961	8.38E-17	4.64E-16
ERO1A	1.100915	7.287816987	8.43E-17	4.66E-16
CITED1	2.8932	0.851398854	8.64E-17	4.77E-16
PAK3	-1.7101	-0.806157573	8.76E-17	4.83E-16
KIF1A	-2.45402	1.280708189	9.37E-17	5.17E-16
RAB39B	-1.52936	-0.760777891	9.39E-17	5.18E-16
C2	1.52974	5.837792967	9.5E-17	5.23E-16
SLIT2	-1.75964	2.757716601	9.58E-17	5.27E-16
CKMT1B	-1.0893	4.258924573	9.93E-17	5.46E-16
TPSAB1	-1.66633	3.009922539	1.03E-16	5.64E-16
UNC93A	3.980403	2.23968723	1.03E-16	5.68E-16
DUSP10	1.181963	3.886411459	1.05E-16	5.75E-16
GLOD5	-1.29021	1.024303975	1.05E-16	5.77E-16
NDUFAF8	1.113171	4.489068261	1.08E-16	5.91E-16
ZNF593	1.23752	2.610493088	1.11E-16	6.09E-16
ADRA1B	-1.67168	-1.407232034	1.14E-16	6.24E-16
BCL2L15	-1.17758	5.60989984	1.18E-16	6.46E-16
LURAP1	-1.26338	-1.324718818	1.21E-16	6.61E-16
IL10RA	-1.27359	4.105909442	1.25E-16	6.86E-16
ZNF540	-1.23844	-0.281777361	1.27E-16	6.96E-16
ZC3H12C	-1.30283	3.714641559	1.28E-16	7.01E-16
UCHL3	1.104736	4.175247645	1.34E-16	7.34E-16
GALK1	1.411818	5.018026692	1.45E-16	7.92E-16
ZGRF1	1.260827	2.648055101	1.46E-16	7.97E-16
FZD3	1.582203	4.144205179	1.52E-16	8.28E-16
FOLR1	4.524557	2.719415176	1.54E-16	8.36E-16
ANTXR2	-1.0175	6.271092686	1.57E-16	8.54E-16
DMRTA2	5.368439	0.919696281	1.58E-16	8.57E-16
KRT15	1.783297	3.160201835	1.58E-16	8.59E-16
REP15	-2.11571	1.020556499	1.59E-16	8.65E-16
LIME1	1.647654	2.106353224	1.61E-16	8.74E-16
ENPP1	-1.22477	3.501075351	1.65E-16	8.94E-16
OTUD6B	1.235053	4.170909818	1.67E-16	9.05E-16
CFAP99	-1.54247	-2.104735268	1.68E-16	9.13E-16
ZNF316	1.005838	5.478225905	1.69E-16	9.15E-16
ADA2	-1.34092	4.996060948	1.69E-16	9.16E-16
PLCG1	1.04894	6.513678663	1.77E-16	9.59E-16
LCN12	2.196233	2.159939712	1.77E-16	9.6E-16
ZNF469	2.0297	3.268489668	1.79E-16	9.67E-16
TNNT1	4.410615	2.268262123	1.8E-16	9.71E-16
RASGRP4	-1.34404	0.709376243	1.8E-16	9.71E-16
ATAD3A	1.211782	5.588509368	1.85E-16	1E-15
MS4A6A	-1.28911	4.490040065	1.94E-16	1.05E-15
PLEKHS1	1.763373	5.15497411	1.95E-16	1.06E-15
KIRREL3	-1.73371	-0.450126747	2E-16	1.08E-15
VWA3B	-1.45667	-0.222779682	2.08E-16	1.12E-15
SLC2A5	-1.50058	2.86022096	2.14E-16	1.15E-15
ZNF860	1.18251	1.01294316	2.14E-16	1.16E-15
SOWAHA	-1.29114	4.269489201	2.21E-16	1.19E-15
CAPN13	-1.66045	3.287100762	2.33E-16	1.25E-15
TREM1	2.841266	2.309850161	2.39E-16	1.28E-15
CHRM4	-1.93554	-1.299363896	2.4E-16	1.29E-15
EBI3	-1.33117	0.871431887	2.42E-16	1.3E-15
TPSG1	-2.04366	2.988335949	2.42E-16	1.3E-15
DENND5B	-1.07919	3.482772079	2.5E-16	1.34E-15
GPR146	-1.18336	-0.228852348	2.5E-16	1.34E-15

CYP4X1	3.010357	3.499922895	2.5E-16	1.34E-15
ORC1	1.089959	4.063939615	2.54E-16	1.36E-15
CHST4	5.256179	1.970979574	2.62E-16	1.4E-15
PHLDA2	1.652154	5.668808581	2.64E-16	1.41E-15
PPP1R13L	1.245189	5.40466238	2.78E-16	1.49E-15
SCN1B	-1.17927	1.562416358	2.8E-16	1.5E-15
EDAR	2.923759	4.188440383	2.84E-16	1.52E-15
FIGN	-1.54842	-0.155798098	2.91E-16	1.55E-15
ARHGEF6	-1.12846	3.518983374	2.94E-16	1.57E-15
GJB5	4.594005	2.265733939	2.96E-16	1.58E-15
GAREM2	-1.09054	2.200635129	2.97E-16	1.59E-15
S1PR1	-1.06438	3.610345923	3E-16	1.6E-15
CLCN4	1.853121	3.380751791	3.14E-16	1.67E-15
BLOC1S5-TX	-1.6686	-2.463808136	3.14E-16	1.67E-15
GPC2	1.530845	0.914514737	3.14E-16	1.67E-15
FER1L6	-2.25725	2.924801882	3.18E-16	1.69E-15
TMEM158	1.635114	3.72943538	3.23E-16	1.72E-15
ZNF471	-1.59835	0.799468761	3.23E-16	1.72E-15
ABCB6	1.189144	2.40872551	3.28E-16	1.74E-15
TMIGD2	-1.46528	-0.269759211	3.29E-16	1.75E-15
EEF1AKMT1	1.13779	3.173809388	3.31E-16	1.76E-15
FLT3LG	-1.0014	0.158662736	3.33E-16	1.77E-15
MS4A4A	-1.44887	3.039418797	3.4E-16	1.81E-15
FAM53A	1.513229	0.947029738	3.44E-16	1.83E-15
COL12A1	2.01613	7.925832253	3.51E-16	1.87E-15
LTB4R	1.521182	3.006228393	3.71E-16	1.97E-15
OGT	1.05009	7.509663657	3.81E-16	2.02E-15
KIF15	1.014686	4.217258938	3.94E-16	2.09E-15
BARX2	-1.8053	3.101900337	3.98E-16	2.11E-15
CEP250	1.022255	5.863417402	4.16E-16	2.2E-15
RSAD2	-1.54531	3.687716809	4.17E-16	2.2E-15
DOCK3	-1.49901	0.188388354	4.18E-16	2.21E-15
LRRC7	-1.34341	-0.709398467	4.28E-16	2.26E-15
POMP	1.0214	7.355003932	4.31E-16	2.27E-15
HOGA1	2.82451	-0.375097495	4.32E-16	2.28E-15
RTN4R	1.673269	3.237032561	4.37E-16	2.3E-15
TRPM4	-1.02134	7.067257601	4.45E-16	2.34E-15
TRIM28	1.005267	8.802021837	4.47E-16	2.36E-15
TMEM40	4.029177	-1.486074008	4.56E-16	2.4E-15
CD302	-1.1551	2.275267837	4.58E-16	2.41E-15
NPY1R	-2.03249	1.125065945	4.6E-16	2.42E-15
CACNB2	-1.29762	2.140950141	4.69E-16	2.47E-15
PRRG3	-1.63398	-0.717006667	4.82E-16	2.53E-15
C14orf180	-2.97573	-2.190894974	4.85E-16	2.55E-15
SRMS	2.188647	2.790974039	5.15E-16	2.7E-15
VASH2	1.541438	1.564208459	5.65E-16	2.96E-15
MKI67	1.121284	7.555605591	5.77E-16	3.02E-15
FAM71E1	1.40177	1.721130236	5.8E-16	3.04E-15
TH	3.294535	0.429376254	5.94E-16	3.11E-15
RBMS3	-1.39742	2.143903548	6.24E-16	3.26E-15
SLC26A9	6.34307	1.085376327	6.26E-16	3.27E-15
GRB7	1.79105	6.052542834	6.35E-16	3.31E-15
SPRR2D	7.761186	0.829395233	6.39E-16	3.34E-15
ZCCHC12	-1.49625	-1.291797924	6.53E-16	3.41E-15
ARHGAP15	-1.12463	2.060559261	6.65E-16	3.47E-15
FAM83H	1.053957	7.693317602	6.74E-16	3.51E-15

PABPC5	-1.44272	-1.072507014	6.76E-16	3.52E-15
NGFR	-1.82015	1.838575703	6.95E-16	3.62E-15
SSTR5	4.213708	0.898620393	7.03E-16	3.66E-15
SSBP4	1.050362	5.873190427	7.04E-16	3.66E-15
CXCL17	5.332571	0.806198275	7.17E-16	3.73E-15
ALOXE3	3.249653	-1.403961933	7.25E-16	3.77E-15
CDC7	1.135984	3.391742243	7.37E-16	3.83E-15
SFRP4	3.243081	5.432305064	7.6E-16	3.95E-15
CDH23	-1.28898	1.001482058	7.63E-16	3.96E-15
NCF1	-1.42033	1.307442841	7.69E-16	3.99E-15
STOM	-1.02366	6.418289234	7.77E-16	4.03E-15
C9orf16	1.195922	6.111096741	7.77E-16	4.03E-15
CHST9	-2.7343	-2.291851386	7.88E-16	4.08E-15
NEB	2.866595	2.036887799	7.97E-16	4.13E-15
C1QA	-1.33257	6.276794346	8.07E-16	4.18E-15
PCMTD2	1.110425	6.082826688	8.26E-16	4.27E-15
LY6E	2.024705	7.457596929	8.44E-16	4.37E-15
CCDC85B	1.88424	5.280638616	8.87E-16	4.58E-15
TSPEAR	3.213828	0.882811848	8.92E-16	4.61E-15
FGF18	1.885485	1.116739242	8.97E-16	4.63E-15
RAB3C	-1.90694	-0.014543592	9E-16	4.65E-15
GAS2	2.076135	1.33325309	9.06E-16	4.68E-15
EPHA1	1.209148	5.3410192	9.16E-16	4.73E-15
IGFL2	3.800141	1.764716897	9.45E-16	4.87E-15
WISP3	4.230916	1.356633103	9.51E-16	4.9E-15
C9orf50	2.365092	-1.391694748	9.64E-16	4.97E-15
ABCC8	-1.93154	-0.958834473	9.7E-16	5E-15
NMU	2.950905	2.441199074	9.8E-16	5.05E-15
POLR3K	1.025192	4.703054576	9.82E-16	5.06E-15
TMEM255B	1.729906	3.253886346	1E-15	5.17E-15
CAMK4	-1.28095	1.508378731	1.07E-15	5.51E-15
DPEP2	-1.28966	0.899515805	1.08E-15	5.53E-15
RIN1	1.187894	4.816230429	1.08E-15	5.56E-15
MUC6	7.19621	4.81792979	1.08E-15	5.56E-15
LPCAT1	1.210346	6.107369131	1.1E-15	5.64E-15
TSPAN18	-1.35112	3.905400098	1.12E-15	5.75E-15
MMP8	5.790904	0.466804289	1.13E-15	5.81E-15
MELTF	1.899796	5.910387177	1.18E-15	6.06E-15
CABCOCO1	-1.58124	-1.778353149	1.21E-15	6.17E-15
TNNT3	-2.11019	-2.338955066	1.28E-15	6.55E-15
COL5A2	1.868072	7.557875155	1.39E-15	7.09E-15
TSTA3	1.324163	7.634195719	1.39E-15	7.1E-15
AKR1C2	-1.54141	2.050819855	1.41E-15	7.18E-15
KISS1	2.790511	-0.014859755	1.41E-15	7.2E-15
TNFRSF10A	1.002333	4.524528576	1.42E-15	7.22E-15
PRKCG	3.656029	1.29696328	1.43E-15	7.29E-15
PRUNE2	-1.484	5.823690797	1.46E-15	7.45E-15
KIR2DL4	-1.92591	-0.816760281	1.49E-15	7.56E-15
CAMKV	4.334682	0.478149741	1.5E-15	7.64E-15
WDR72	3.101113	4.172116416	1.55E-15	7.87E-15
CHSY3	1.579784	0.993191474	1.61E-15	8.18E-15
PAN3	1.06618	5.906366218	1.77E-15	8.99E-15
TNFRSF10C	1.634612	1.54831424	1.8E-15	9.1E-15
KRT83	4.268111	-1.371589422	1.8E-15	9.12E-15
CD33	-1.24473	0.971929816	1.8E-15	9.13E-15
GCG	-3.30752	3.170314307	1.82E-15	9.21E-15

PRR5-ARHG <sub>2</sub>	1.653619	-0.666329106	1.87E-15	9.43E-15
SOX12	1.317693	4.75549142	1.93E-15	9.75E-15
TMEM9	1.071212	6.60960387	1.94E-15	9.79E-15
LPP	-1.14681	7.284001619	1.98E-15	1E-14
NUDT10	-1.72768	-1.186780837	2.01E-15	1.02E-14
OBP2B	6.806485	-0.400779432	2.02E-15	1.02E-14
MOCS3	1.024994	4.537019294	2.18E-15	1.1E-14
COL9A3	3.190768	4.875587538	2.19E-15	1.1E-14
SLAMF1	-1.21695	1.369760884	2.2E-15	1.11E-14
FRMD1	-1.67555	3.605892834	2.23E-15	1.12E-14
ARVCF	1.137227	4.310749179	2.25E-15	1.13E-14
FAM110B	-1.29702	0.969665147	2.26E-15	1.14E-14
TXLNB	-1.44892	-0.370389314	2.35E-15	1.18E-14
GNG11	-1.02706	3.632422883	2.38E-15	1.2E-14
CSTL1	3.166654	-2.026030388	2.43E-15	1.22E-14
PKM	1.026866	10.36882106	2.46E-15	1.23E-14
CXorf21	-1.27308	0.55600183	2.52E-15	1.26E-14
ARHGAP25	-1.05125	2.888068575	2.62E-15	1.31E-14
CDKN1A	-1.0786	7.522275554	2.71E-15	1.35E-14
MYADML2	2.989806	1.338600364	2.77E-15	1.39E-14
RANBP17	1.647429	2.590391703	2.78E-15	1.39E-14
KCNN4	1.697312	6.715634624	2.78E-15	1.39E-14
DSC3	4.215185	3.792867322	2.86E-15	1.43E-14
NPY4R2	-1.71236	-2.212049081	2.91E-15	1.45E-14
CTU1	1.708398	3.044666973	2.92E-15	1.46E-14
HAPLN3	1.773249	4.14383428	3.05E-15	1.52E-14
HIST1H1E	6.670941	3.191670619	3.07E-15	1.53E-14
SLC25A22	1.114182	5.497744967	3.08E-15	1.53E-14
USP51	-1.20212	-0.082276962	3.13E-15	1.56E-14
CCNI2	1.296065	4.01052752	3.14E-15	1.56E-14
CTSH	1.113621	7.163519495	3.2E-15	1.59E-14
CCR8	2.175833	-1.013110477	3.2E-15	1.59E-14
SASH3	-1.163	3.68490976	3.24E-15	1.61E-14
ITGB7	-1.32332	2.595942718	3.38E-15	1.68E-14
GPR34	-1.4016	2.257665507	3.38E-15	1.68E-14
CYP4F12	-1.21934	4.708809929	3.41E-15	1.69E-14
FCRL3	-1.79489	0.5357287	3.45E-15	1.71E-14
TMEM273	-1.16833	2.490150665	3.61E-15	1.79E-14
DMRT3	4.162283	-1.708854917	3.68E-15	1.82E-14
GZMM	-1.48165	0.314905674	3.7E-15	1.83E-14
HIST1H3E	-1.20927	-0.109279751	3.74E-15	1.85E-14
YAE1	1.195572	4.603344404	3.76E-15	1.86E-14
RHOF	-1.36176	2.809439062	3.8E-15	1.88E-14
PRSS56	9.448455	2.279105292	3.85E-15	1.9E-14
ENOX1	-1.25112	0.638781837	4.13E-15	2.03E-14
SRL	-1.44167	-0.262513526	4.26E-15	2.1E-14
PPP1R36	-1.18977	2.058091434	4.27E-15	2.1E-14
KCNJ13	-3.35869	0.230643929	4.33E-15	2.13E-14
DIRAS1	-1.76474	0.173674927	4.41E-15	2.17E-14
CLCN5	1.122647	4.708856246	4.43E-15	2.18E-14
LAPTM4B	1.518782	7.525558435	4.45E-15	2.19E-14
CYP2W1	4.258717	5.846582453	4.59E-15	2.26E-14
ST6GALNAC	-1.20565	1.189589419	4.62E-15	2.27E-14
PALM3	2.903877	1.967544455	4.77E-15	2.34E-14
SLC38A4	-1.92694	2.402393077	4.77E-15	2.34E-14
WNT5A	1.50389	4.700852031	4.93E-15	2.42E-14

FLT3	-1.60453	-0.565385337	5.04E-15	2.47E-14
FCHO1	1.566603	4.18292904	5.07E-15	2.48E-14
RAD51AP2	2.201501	-1.353864017	5.15E-15	2.52E-14
MAGEB17	5.548206	1.549284304	5.19E-15	2.54E-14
DSG1	2.521621	-0.636429803	5.19E-15	2.54E-14
KIF20B	1.136587	4.614519395	5.25E-15	2.57E-14
TTC9	1.747696	3.430232821	5.28E-15	2.58E-14
GJA3	3.472285	-0.244620969	5.33E-15	2.6E-14
GBP3	-1.19327	5.914881358	5.36E-15	2.62E-14
FDCSP	-2.46704	1.281582	5.42E-15	2.65E-14
MST1	1.651025	2.642995504	5.42E-15	2.65E-14
DNAH14	2.023908	2.900584785	5.58E-15	2.72E-14
TWIST1	1.976316	1.627521762	5.78E-15	2.82E-14
ONECUT3	6.867023	2.123885653	5.87E-15	2.86E-14
HECW2	1.50991	2.631137807	6.01E-15	2.93E-14
LRRC43	2.071097	-0.323142186	6.23E-15	3.03E-14
SPRR1A	7.951135	0.667279392	6.85E-15	3.32E-14
PDE4D	-1.09058	4.328381538	6.85E-15	3.32E-14
CBX6	-1.14994	5.093702613	6.86E-15	3.33E-14
PLPP7	-1.20756	0.688997876	6.9E-15	3.35E-14
PAXX	1.055647	5.336240977	6.93E-15	3.36E-14
SULT2A1	-2.82509	0.466238288	7.02E-15	3.4E-14
SLC43A1	1.277764	5.21311597	7.16E-15	3.47E-14
HNRNPA1P4	1.200614	2.441772868	7.21E-15	3.49E-14
LAGE3	1.204924	4.733884564	7.22E-15	3.5E-14
NOC4L	1.049077	5.206609581	7.24E-15	3.51E-14
EEPD1	1.081138	5.247410844	7.44E-15	3.6E-14
RPL36A	1.05008	6.752437519	7.52E-15	3.64E-14
TM4SF1	1.3211	7.245771241	7.58E-15	3.67E-14
NTNG1	-2.40743	-1.012275374	7.7E-15	3.72E-14
KIFC2	1.579557	4.647183727	7.79E-15	3.76E-14
CYP2S1	1.33279	7.621074862	7.82E-15	3.77E-14
GRIA3	-1.78751	-1.218533352	7.96E-15	3.84E-14
SLC27A5	1.754043	3.480569533	8.37E-15	4.03E-14
FKBP1B	-1.42752	1.221977082	8.45E-15	4.07E-14
TLCD1	1.338794	4.016055049	8.57E-15	4.13E-14
AR	-1.61733	1.216775707	8.67E-15	4.17E-14
SLC14A2	-2.48831	-0.259044756	8.68E-15	4.18E-14
VSTM4	-1.13301	3.218404072	8.71E-15	4.19E-14
SERTAD4	-1.47101	2.380312627	8.75E-15	4.21E-14
CILP2	2.82766	0.994585671	8.81E-15	4.24E-14
DCLK2	-1.1458	1.787067832	9.16E-15	4.4E-14
RBP5	-1.04898	1.661292378	9.41E-15	4.52E-14
NDUFA4L2	2.468215	4.521281968	9.6E-15	4.6E-14
FAM129C	-1.89702	-0.313246894	9.79E-15	4.69E-14
PLA2G10	-1.38599	1.955832895	9.89E-15	4.74E-14
RPS2	1.167476	10.76761923	9.98E-15	4.78E-14
LAIR2	2.748102	-0.388923643	1.03E-14	4.94E-14
ADAMTSL5	1.311611	2.915015721	1.04E-14	4.96E-14
SGSM1	-1.3574	1.693087795	1.04E-14	4.97E-14
CHRNB4	-1.48498	-1.054668536	1.05E-14	5.01E-14
AL121845.3	1.679641	0.298947836	1.06E-14	5.09E-14
SGO2	1.052277	3.853272493	1.08E-14	5.16E-14
ITPKA	-1.32767	4.066385463	1.09E-14	5.21E-14
MC1R	1.487212	1.961768196	1.11E-14	5.32E-14
CDCA2	1.249415	3.601893046	1.12E-14	5.33E-14

GJC1	-1.23722	2.711885923	1.13E-14	5.39E-14
EVX1	3.443186	2.7779598	1.13E-14	5.39E-14
CAMK2A	-1.57712	-0.889873214	1.15E-14	5.49E-14
ARHGAP40	4.797439	-1.08175	1.17E-14	5.57E-14
HIST1H1B	7.166549	3.183040363	1.18E-14	5.6E-14
SLC22A15	1.427735	2.361835373	1.19E-14	5.65E-14
MIOX	3.605821	-0.927540742	1.22E-14	5.82E-14
ARHGEF38	1.17521	3.621159058	1.23E-14	5.84E-14
FOXP4	1.027198	7.229964604	1.23E-14	5.85E-14
PFDN4	1.235623	4.666877571	1.24E-14	5.87E-14
SLC9A5	1.219645	0.69209139	1.24E-14	5.87E-14
CA10	-2.17364	-2.142177779	1.25E-14	5.95E-14
RAB44	-1.42131	-1.629343659	1.26E-14	6E-14
SCN4A	-1.78181	-1.44170179	1.28E-14	6.05E-14
IL5RA	-1.73454	-1.673905001	1.28E-14	6.05E-14
MPDZ	-1.35223	2.898204416	1.33E-14	6.28E-14
NPM2	1.812381	1.298488563	1.34E-14	6.36E-14
KLHL6	-1.34963	2.849716254	1.38E-14	6.52E-14
ENGASE	1.445193	6.472769268	1.38E-14	6.54E-14
KIF21B	1.185537	5.179426331	1.4E-14	6.62E-14
GATA5	-2.59936	-1.112064227	1.41E-14	6.66E-14
CCDC80	-1.59886	5.848288586	1.42E-14	6.68E-14
ZNF582	-1.26651	-0.374756279	1.42E-14	6.69E-14
PADI3	5.25371	2.162982292	1.42E-14	6.7E-14
ITGA11	1.959443	5.019139593	1.44E-14	6.79E-14
P4HA3	1.894048	1.492508379	1.44E-14	6.8E-14
CDH24	1.143036	3.661633729	1.48E-14	6.98E-14
RGS13	-1.99476	-0.131660325	1.58E-14	7.44E-14
H2AFX	1.123535	6.417282313	1.59E-14	7.47E-14
SAMD9	-1.27603	4.628018072	1.6E-14	7.54E-14
CDH11	1.6481	5.776932338	1.64E-14	7.69E-14
BAAT	4.737781	0.385890676	1.64E-14	7.71E-14
HCLS1	-1.07126	4.610051394	1.65E-14	7.74E-14
PRSS41	4.025261	-1.176417284	1.65E-14	7.76E-14
DUSP15	2.394015	1.556563836	1.75E-14	8.22E-14
SPINK5	-1.53643	2.473735746	1.83E-14	8.57E-14
TUBA1A	-1.13787	6.458767289	1.83E-14	8.58E-14
XCL2	-1.64758	-1.656025135	1.88E-14	8.79E-14
SLC28A3	2.606118	3.160792963	1.9E-14	8.88E-14
TNNT2	2.460489	0.29505679	1.9E-14	8.9E-14
SPATA6L	1.388197	1.833677793	1.92E-14	8.97E-14
HRC	-1.08625	-0.683162903	1.94E-14	9.07E-14
KITLG	-1.04775	4.932366848	1.97E-14	9.19E-14
ROR1	-1.47755	1.782154079	1.99E-14	9.27E-14
GPCPD1	1.423473	6.384589976	1.99E-14	9.28E-14
COL23A1	-1.18811	0.213282341	2.01E-14	9.37E-14
IGF2BP3	4.238438	2.276905606	2.01E-14	9.37E-14
KLK11	3.386159	3.649170633	2.09E-14	9.71E-14
ELFN1	1.372786	1.394113012	2.09E-14	9.74E-14
EFS	-1.11778	1.837538752	2.11E-14	9.82E-14
NPC1L1	3.980244	2.653571247	2.11E-14	9.83E-14
RTKN2	1.152178	3.193729357	2.26E-14	1.05E-13
ZNF626	-1.35364	0.205486223	2.29E-14	1.06E-13
THBS2	2.424578	7.194478973	2.29E-14	1.06E-13
FGFR1	-1.12685	5.081910073	2.32E-14	1.07E-13
CARTPT	-2.55961	-1.129000344	2.33E-14	1.08E-13

CADPS	2.245276	4.467012189	2.36E-14	1.09E-13
EHD2	-1.18592	5.782508734	2.38E-14	1.1E-13
SYN2	-1.66868	0.035365586	2.38E-14	1.1E-13
PHYHD1	-1.33646	1.098453852	2.39E-14	1.11E-13
CSF1R	-1.23798	5.221243083	2.48E-14	1.15E-13
A1CF	-1.22467	4.805627459	2.51E-14	1.16E-13
MYBPHL	5.412006	-0.611044519	2.55E-14	1.18E-13
SPHK1	1.938111	3.885276398	2.6E-14	1.2E-13
ABCG8	-2.13261	-0.221575917	2.69E-14	1.24E-13
ABCA5	-1.08628	4.310807692	2.69E-14	1.24E-13
BOC	-1.45826	3.20160198	2.72E-14	1.25E-13
PTRH1	1.847557	-1.922275519	2.72E-14	1.25E-13
IGF1	-1.72032	0.028619256	2.82E-14	1.3E-13
SERPIND1	3.698392	0.660472294	2.89E-14	1.33E-13
CLDN18	7.358333	4.859620875	2.9E-14	1.33E-13
GSTP1	1.240703	9.346552305	2.95E-14	1.35E-13
CD300LG	-2.56746	-1.441141793	3.03E-14	1.39E-13
AQP5	6.000373	2.832487742	3.06E-14	1.41E-13
IRX3	3.433166	0.534354323	3.08E-14	1.41E-13
SPARC	1.491706	9.852274703	3.09E-14	1.42E-13
FGF20	5.724659	-0.199854704	3.1E-14	1.42E-13
SYT11	-1.05602	3.577380663	3.11E-14	1.43E-13
SP8	4.613674	0.269742451	3.21E-14	1.47E-13
TACR1	-1.94759	-0.523461046	3.23E-14	1.48E-13
EFHD1	-1.17838	1.432751747	3.25E-14	1.49E-13
AADAT	1.246898	3.086193781	3.26E-14	1.49E-13
LSM7	1.289347	6.559791194	3.34E-14	1.53E-13
NT5DC4	2.308075	-0.812130203	3.37E-14	1.54E-13
RUVBL2	1.105583	7.255916376	3.38E-14	1.54E-13
BANK1	-1.34578	1.782613407	3.41E-14	1.56E-13
CHRNA5	1.124958	2.239049544	3.48E-14	1.59E-13
TUBB3	1.735582	1.713805361	3.48E-14	1.59E-13
TPO	-1.71117	-0.178157561	3.65E-14	1.66E-13
VSIG4	-1.4873	3.821949392	3.67E-14	1.67E-13
AGRN	1.158865	7.846698149	3.68E-14	1.67E-13
SLC18A2	-1.14566	-0.24643787	3.88E-14	1.77E-13
ADAMTSL4	-1.20537	3.160538516	3.89E-14	1.77E-13
GRK1	3.494856	-0.923804372	3.91E-14	1.78E-13
JCAD	-1.30658	4.460652127	3.92E-14	1.78E-13
CACNA1D	1.366491	4.087517318	4E-14	1.82E-13
IGLL5	-1.93626	5.790280545	4.05E-14	1.84E-13
SPRR2A	7.362893	0.808690474	4.06E-14	1.84E-13
RNF39	1.473974	2.468444324	4.09E-14	1.86E-13
RASSF2	-1.10474	3.91879287	4.2E-14	1.9E-13
MAT1A	3.162318	2.042494963	4.2E-14	1.9E-13
DSG3	4.143395	3.694013926	4.23E-14	1.91E-13
BRSK2	2.754012	2.675773665	4.25E-14	1.92E-13
ZNF667	-1.25436	-0.529198558	4.28E-14	1.93E-13
TCTE3	1.265781	1.421486342	4.29E-14	1.94E-13
SEC14L4	4.444747	-0.560069578	4.31E-14	1.95E-13
KIAA1024	1.391938	0.648361488	4.44E-14	2.01E-13
NOD2	1.455576	2.813375446	4.6E-14	2.07E-13
YPEL4	-1.33209	-0.73237192	4.82E-14	2.17E-13
MXRA7	-1.0354	5.493068532	4.97E-14	2.23E-13
WNT8B	2.344115	-1.756691137	4.98E-14	2.24E-13
NAT16	3.198272	-1.872128756	5E-14	2.25E-13

KCNJ11	1.519473	2.224038447	5.03E-14	2.26E-13
SPON2	1.304152	6.259415342	5.05E-14	2.27E-13
EXTL1	-1.57288	-1.95048176	5.06E-14	2.27E-13
UBTD1	1.228175	3.155548652	5.22E-14	2.34E-13
CCDC187	2.807637	-0.105426694	5.36E-14	2.4E-13
SH2D2A	1.056057	3.057361231	5.62E-14	2.52E-13
PGF	1.43478	3.441879805	5.69E-14	2.55E-13
CD37	-1.27343	3.57298184	5.73E-14	2.57E-13
PLCXD3	-2.37447	-0.851338692	5.75E-14	2.57E-13
MAN1C1	-1.0356	2.965886204	6.07E-14	2.71E-13
MEOX1	-1.34268	1.147936114	6.14E-14	2.74E-13
CP	-1.95376	2.29154766	6.21E-14	2.77E-13
TUBB6	-1.13077	5.056300092	6.26E-14	2.79E-13
TRPM2	1.584583	4.97726586	6.28E-14	2.8E-13
EVI2B	-1.30058	3.261964738	6.29E-14	2.81E-13
THEM6	1.231024	6.328041681	6.36E-14	2.83E-13
GRIA1	-1.89564	-2.110234844	6.4E-14	2.85E-13
NTHL1	1.201363	5.293555249	6.51E-14	2.9E-13
ARMC2	1.387535	1.944856055	6.56E-14	2.92E-13
RCOR2	1.602227	2.66732465	6.57E-14	2.92E-13
DCSTAMP	3.090735	-0.932326608	6.76E-14	3.01E-13
CKMT1A	-1.00121	3.982893709	6.78E-14	3.01E-13
THY1	1.364268	6.615463388	7E-14	3.11E-13
ZNF304	-1.31809	1.834629168	7.14E-14	3.17E-13
TMIE	-1.31993	-1.745137907	7.19E-14	3.19E-13
F2R	1.030179	5.310880604	7.26E-14	3.21E-13
HCAR1	3.653274	1.226082976	7.43E-14	3.29E-13
ITPRID1	-1.97554	-1.158758724	7.68E-14	3.4E-13
HES4	1.971009	3.180686761	7.72E-14	3.42E-13
AKAP4	4.820666	-2.134795544	7.85E-14	3.47E-13
CPLX1	1.771596	2.978808044	7.88E-14	3.48E-13
ATP2B2	-1.85878	-2.344586157	8.06E-14	3.56E-13
COL5A1	1.636769	8.0595244	8.29E-14	3.66E-13
PODXL	1.031135	6.476247939	8.43E-14	3.72E-13
KNL1	1.071417	4.523262549	8.48E-14	3.74E-13
GLI3	-1.48673	2.538101083	8.69E-14	3.83E-13
SERPINE1	2.129344	5.620744972	8.8E-14	3.87E-13
JPH3	-1.73608	-1.081409614	8.81E-14	3.88E-13
SYNE1	-1.28337	4.459780041	8.85E-14	3.9E-13
RPS21	1.547617	9.872725153	9.12E-14	4.01E-13
ADAMTS14	1.223007	3.23344999	9.27E-14	4.07E-13
LRP5L	1.191793	2.836573437	9.36E-14	4.11E-13
IQCH	1.229394	0.872252613	9.47E-14	4.16E-13
SERPINE2	1.441202	6.504418171	9.63E-14	4.22E-13
TCEAL3	-1.02862	2.757803204	9.68E-14	4.25E-13
SHOX	-1.72182	-2.334683861	9.75E-14	4.27E-13
DUS3L	1.042525	5.34559909	9.87E-14	4.33E-13
RIMS3	-1.28792	3.053259043	1.03E-13	4.51E-13
NOTCH3	1.331163	6.335440345	1.03E-13	4.52E-13
OTOA	-1.27512	-2.080945273	1.05E-13	4.57E-13
PLEKHG5	1.001117	5.031015155	1.05E-13	4.58E-13
CAPN12	1.864338	2.727304194	1.05E-13	4.59E-13
CD52	-1.20613	3.582065885	1.06E-13	4.63E-13
TTLL9	1.936948	-1.538606313	1.07E-13	4.69E-13
FGF2	-1.44701	2.171028765	1.11E-13	4.85E-13
IZUMO1	2.356366	-1.997232676	1.12E-13	4.88E-13



CTSV	1.669753	3.998812392	1.13E-13	4.94E-13
ZNF579	1.231257	3.825146564	1.15E-13	5.03E-13
LY86	-1.13437	1.415007631	1.18E-13	5.13E-13
COMT	1.198131	7.233674915	1.19E-13	5.19E-13
HRK	-2.20379	-1.592900003	1.2E-13	5.23E-13
ABCA12	4.125275	1.313372415	1.21E-13	5.25E-13
CDO1	-1.70595	-0.607068598	1.21E-13	5.26E-13
VGLL1	5.895018	-1.296470417	1.22E-13	5.29E-13
LRFN4	1.177679	5.422649957	1.23E-13	5.34E-13
ZNF724	1.504154	0.974951337	1.25E-13	5.41E-13
ADRM1	1.024262	7.43239379	1.25E-13	5.42E-13
SLC52A2	1.178172	7.156283059	1.29E-13	5.59E-13
C1orf105	2.934216	-0.993664266	1.29E-13	5.59E-13
C2CD4B	2.570675	3.114162338	1.29E-13	5.59E-13
RASSF10	2.436025	2.89143606	1.31E-13	5.68E-13
S1PR5	1.241543	-0.485719167	1.36E-13	5.87E-13
PABPC3	1.941505	1.339770011	1.37E-13	5.94E-13
AKAP12	-1.53124	5.060249423	1.39E-13	6.02E-13
PRKG1	-1.13106	3.279601845	1.39E-13	6.03E-13
ADGRD1	-1.42087	1.905687933	1.4E-13	6.06E-13
F2RL2	1.696063	2.801385564	1.42E-13	6.13E-13
KCNH4	2.030809	-0.265979655	1.43E-13	6.2E-13
SLC24A4	-1.22667	-1.039462113	1.46E-13	6.32E-13
ANXA8L1	-1.96092	-1.529529573	1.49E-13	6.43E-13
SLC13A2	-2.13336	3.605876342	1.5E-13	6.45E-13
INPP5J	-1.04756	4.180774742	1.5E-13	6.49E-13
CELA3B	-2.32817	-2.14376276	1.52E-13	6.55E-13
SPRR1B	7.532841	1.064868179	1.52E-13	6.56E-13
HIST1H3J	5.493516	0.445125946	1.54E-13	6.64E-13
TRIM71	5.557325	-0.234086321	1.57E-13	6.76E-13
SPRED3	1.53733	0.653473155	1.58E-13	6.8E-13
GZMA	-1.46741	2.902920983	1.58E-13	6.8E-13
CCR9	-1.60041	-1.812695964	1.61E-13	6.93E-13
SLC38A5	2.058911	6.445938001	1.62E-13	6.98E-13
DTNA	-1.59187	2.375001625	1.63E-13	7.02E-13
LRRC9	2.635141	-1.792778366	1.67E-13	7.16E-13
HIST1H2AH	6.13428	0.625275674	1.69E-13	7.26E-13
HSPA2	-1.49132	4.979902621	1.73E-13	7.41E-13
AREG	1.990511	6.594574518	1.74E-13	7.46E-13
ARHGAP11A	1.004723	5.172081517	1.8E-13	7.71E-13
HIST1H4C	6.98061	2.239790319	1.85E-13	7.92E-13
F2	3.473927	-0.563951842	1.86E-13	7.96E-13
CD96	-1.25089	2.293452013	1.87E-13	7.99E-13
MYOM3	2.011508	4.58733278	1.88E-13	8.06E-13
FSIP2	-1.89356	2.797560821	1.89E-13	8.1E-13
NEUROG2	5.403965	-1.072209486	1.91E-13	8.18E-13
HIST1H4E	5.175126	2.316271413	1.95E-13	8.33E-13
WFDC10B	2.352809	-1.461590286	1.99E-13	8.49E-13
RDM1	1.304741	0.663202665	2.03E-13	8.66E-13
FOXP3	1.454175	2.015023691	2.05E-13	8.76E-13
SLC9B2	1.114141	3.089536333	2.15E-13	9.16E-13
FXYP4	2.967749	-0.586413016	2.17E-13	9.26E-13
THEMIS	-1.39006	0.565864077	2.24E-13	9.54E-13
MZT2A	1.107993	5.666887899	2.25E-13	9.56E-13
PRR9	7.945161	0.256755402	2.25E-13	9.57E-13
INPP5D	1.10532	6.068154856	2.26E-13	9.58E-13

ZFP3	-1.00259	3.042980518	2.26E-13	9.59E-13
NACA2	2.6529	0.029080548	2.27E-13	9.64E-13
POLD1	1.026797	5.626134818	2.28E-13	9.66E-13
TMEM47	-1.19956	3.860941364	2.36E-13	9.99E-13
FOXRED2	1.09196	4.753828938	2.43E-13	1.03E-12
MS4A7	-1.28339	3.643565597	2.52E-13	1.07E-12
VENTX	3.519214	2.097033334	2.54E-13	1.07E-12
AFP	4.759657	-0.518531105	2.54E-13	1.08E-12
CBWD6	1.082371	1.180631306	2.56E-13	1.08E-12
BEST3	4.330991	-0.441897095	2.57E-13	1.09E-12
SERPINB7	5.467287	0.576986631	2.61E-13	1.1E-12
NCKAP1L	-1.15346	4.329920628	2.62E-13	1.11E-12
GIF	3.710171	1.260381011	2.63E-13	1.11E-12
IL1RN	2.144252	4.489994155	2.65E-13	1.12E-12
EFEMP1	-1.32895	5.087351762	2.67E-13	1.13E-12
MSLN	3.021491	6.398275499	2.71E-13	1.14E-12
APBB1IP	-1.14611	2.733208971	2.74E-13	1.16E-12
NPSR1	5.705314	2.625719091	2.75E-13	1.16E-12
CENPK	1.130208	3.680557689	2.79E-13	1.17E-12
AXL	-1.02556	4.945071449	2.89E-13	1.21E-12
MCEMP1	2.954884	0.683845027	2.89E-13	1.22E-12
ZSCAN18	-1.31778	3.141440345	2.92E-13	1.23E-12
FCN1	-1.64435	1.914147971	2.96E-13	1.24E-12
IL1RAP	1.086487	3.297665269	3.01E-13	1.26E-12
PCLAF	1.097792	4.788303745	3.11E-13	1.3E-12
ACVR1C	-1.22375	2.84726355	3.12E-13	1.31E-12
TFCP2L1	-1.21253	6.214416278	3.16E-13	1.33E-12
TUSC3	-1.15135	2.885112497	3.2E-13	1.34E-12
KCNS2	-1.95247	-2.293184954	3.22E-13	1.35E-12
ERP27	2.612688	2.808567129	3.25E-13	1.36E-12
ZNF568	-1.19049	0.913024146	3.33E-13	1.39E-12
HDC	-1.42109	0.401661605	3.48E-13	1.45E-12
GJB3	1.614712	5.021651195	3.5E-13	1.46E-12
MEGF6	1.738824	4.383176135	3.51E-13	1.47E-12
SLC49A3	-1.08531	1.994156855	3.56E-13	1.49E-12
ERVMER34-1	2.683507	1.820125171	3.62E-13	1.51E-12
RPUSD1	1.056996	5.519337189	3.73E-13	1.55E-12
DNAAF3	2.028835	0.270280075	3.76E-13	1.57E-12
SLCO1B1	4.736051	-2.129942639	3.78E-13	1.58E-12
SLC10A4	-1.71988	-1.47836603	3.8E-13	1.58E-12
MIPOL1	-1.24916	2.418249857	3.81E-13	1.59E-12
NRG4	-1.46291	-0.733614575	3.81E-13	1.59E-12
ANGPT1	-1.22466	1.514294935	3.84E-13	1.6E-12
CLDN9	2.487517	1.055990292	3.85E-13	1.6E-12
TOX	-1.3839	3.512393151	3.86E-13	1.6E-12
RGS5	-1.1166	5.238859312	3.86E-13	1.6E-12
RTN4RL2	1.773027	0.689794429	3.87E-13	1.61E-12
SSTR1	-1.29572	3.034500072	3.9E-13	1.62E-12
APCDD1	2.525142	6.607212588	4E-13	1.66E-12
PLA2G3	4.466582	1.469991873	4.05E-13	1.68E-12
NRG1	-1.42634	1.497402349	4.12E-13	1.71E-12
ZFPM1	1.366005	4.08664554	4.17E-13	1.73E-12
RHBDL1	1.694788	2.454678685	4.37E-13	1.81E-12
CPXM1	1.560363	3.920940019	4.65E-13	1.92E-12
RTEL1	1.058464	0.726486128	4.71E-13	1.94E-12
NPW	2.765505	0.812914199	4.72E-13	1.95E-12

PDF	1.402971	2.316998864	4.8E-13	1.98E-12
HIST1H4B	6.725708	0.938524263	4.83E-13	1.99E-12
KCNK9	2.945988	-0.117057009	5.16E-13	2.12E-12
CIDEB	-1.49915	-2.007988897	5.17E-13	2.13E-12
PDE6G	-1.22564	-0.845602102	5.21E-13	2.14E-12
MEGF10	-1.60763	-1.030005165	5.22E-13	2.15E-12
TM7SF2	1.16393	4.597437577	5.26E-13	2.16E-12
S100A3	1.963022	0.892278049	5.39E-13	2.21E-12
TTC16	2.142562	-1.00076721	5.5E-13	2.26E-12
KCNJ16	-2.00725	-1.816611128	5.55E-13	2.28E-12
CLEC4F	-1.64373	-2.084223739	5.6E-13	2.3E-12
KCTD12	-1.23726	5.968274454	5.78E-13	2.37E-12
CGAS	1.321971	3.429665902	5.85E-13	2.4E-12
HIST1H4D	6.254372	1.80829655	5.87E-13	2.4E-12
FOXD2	-1.08823	3.924141827	5.92E-13	2.42E-12
FABP6	-1.88104	3.785205293	5.94E-13	2.43E-12
STARD9	-1.10838	2.911842272	5.99E-13	2.45E-12
IL17B	-1.21638	-1.72413565	6.01E-13	2.46E-12
PLPP2	1.010964	7.251095295	6.29E-13	2.57E-12
FAM189A1	-1.92581	2.397405927	6.55E-13	2.67E-12
MMP20	3.729073	-1.861646806	6.56E-13	2.68E-12
SOX17	-1.08237	0.924525033	6.56E-13	2.68E-12
CENPU	1.078947	4.52276132	6.94E-13	2.83E-12
HIST3H2BB	2.517937	-0.243266935	7.12E-13	2.9E-12
ZNF415	-1.38768	1.436840222	7.14E-13	2.91E-12
PHGR1	-1.53455	7.95359902	7.24E-13	2.95E-12
ADAM28	-1.25162	3.197953838	7.25E-13	2.95E-12
MSTN	-1.57358	-1.846839447	7.27E-13	2.96E-12
CYP26B1	-1.27728	1.615299317	7.29E-13	2.96E-12
ANKRD18A	1.67831	1.308861303	7.56E-13	3.07E-12
PCED1A	1.09958	4.756792928	7.65E-13	3.11E-12
NPIPB5	1.947642	2.297539749	7.73E-13	3.14E-12
RBBP8NL	1.304146	4.076788283	7.85E-13	3.18E-12
TRPV4	1.63765	1.414638455	7.97E-13	3.23E-12
IL17C	3.443126	-0.831170487	8.18E-13	3.31E-12
CYP39A1	1.444188	3.442195763	8.37E-13	3.39E-12
FAM181B	-1.9753	-1.497013963	8.39E-13	3.4E-12
CKMT2	3.48602	4.041445751	8.85E-13	3.58E-12
INHBE	1.385171	-0.423365403	8.86E-13	3.58E-12
KCNK2	-1.93724	-1.444870458	8.99E-13	3.64E-12
RNF224	2.1245	-0.944641331	9.04E-13	3.65E-12
ACSL4	1.032262	5.981133975	9.05E-13	3.65E-12
ITGBL1	2.544776	2.331023063	9.12E-13	3.68E-12
SULF1	1.912431	7.669736631	9.15E-13	3.69E-12
GRM2	1.617238	-1.486905634	9.46E-13	3.81E-12
PRSS1	4.815027	1.058113754	9.56E-13	3.85E-12
HOXB13	-1.65914	4.8150062	9.71E-13	3.91E-12
ZCCHC24	-1.05483	4.699256536	9.81E-13	3.95E-12
AHRR	-1.1528	1.068765238	9.98E-13	4.02E-12
COL14A1	-1.31904	5.489742716	1.03E-12	4.14E-12
CFH	-1.15137	4.714709388	1.03E-12	4.16E-12
DCLK3	1.258102	-0.432654871	1.05E-12	4.21E-12
CXCL6	2.474916	1.68738014	1.05E-12	4.22E-12
TGFBR3	-1.10601	4.483777652	1.06E-12	4.24E-12
AIF1	-1.04236	3.566032674	1.09E-12	4.39E-12
ATP8B2	-1.0228	4.021877677	1.13E-12	4.52E-12

IQCM	-1.99437	-2.00307862	1.13E-12	4.54E-12
DSEL	-1.27751	0.905929587	1.16E-12	4.66E-12
KRT6A	5.70921	3.572346521	1.17E-12	4.69E-12
PLAGL2	1.176681	6.628988079	1.2E-12	4.8E-12
RIPOR2	-1.21814	2.50952574	1.21E-12	4.84E-12
MICU3	-1.44628	-0.162495978	1.22E-12	4.89E-12
FAM216A	1.04589	2.346886405	1.23E-12	4.9E-12
DERL3	-1.21246	4.214026389	1.23E-12	4.9E-12
EME2	1.104359	3.834331103	1.23E-12	4.91E-12
SRRM5	1.168522	-0.288099637	1.23E-12	4.92E-12
FAM222A	1.479104	3.549951456	1.26E-12	5.03E-12
HELZ2	1.062829	6.665645849	1.29E-12	5.13E-12
VGf	2.971146	2.622260259	1.29E-12	5.13E-12
IGF2	5.317591	10.32861003	1.31E-12	5.23E-12
PUSL1	1.032978	4.108775594	1.34E-12	5.33E-12
F7	3.699187	1.298264679	1.36E-12	5.43E-12
BST1	-1.11828	2.399671056	1.38E-12	5.47E-12
PCDHGA1	1.62017	0.492427308	1.43E-12	5.7E-12
NRAP	-1.99152	-0.929423501	1.44E-12	5.74E-12
C20orf204	2.467113	0.684453582	1.45E-12	5.75E-12
IGF2BP1	4.748342	2.257567392	1.45E-12	5.76E-12
HIST1H3B	6.210108	2.110751008	1.52E-12	6.03E-12
HSF2BP	1.277198	-0.788478683	1.53E-12	6.09E-12
SETSIP	1.675088	-2.151357154	1.62E-12	6.42E-12
IFITM2	1.490899	7.013572425	1.67E-12	6.59E-12
RNASE1	-1.0296	7.037298151	1.67E-12	6.6E-12
CDIP1	-1.13142	3.951521018	1.68E-12	6.65E-12
MAP1B	-1.24328	4.046938184	1.72E-12	6.79E-12
GZMB	2.153961	3.826665521	1.74E-12	6.86E-12
BIRC7	2.498058	-0.039615832	1.76E-12	6.96E-12
MMP14	1.19488	8.194978302	1.77E-12	6.99E-12
FCRL1	-2.0599	-0.568794226	1.77E-12	6.99E-12
SVOPL	-2.24022	-0.588770988	1.79E-12	7.04E-12
PDZD3	-1.30613	3.169365442	1.8E-12	7.08E-12
KLHL29	1.146306	3.667836542	1.81E-12	7.13E-12
PILRB	1.599725	2.918690788	1.85E-12	7.26E-12
PDGFRA	-1.05674	5.106895091	1.87E-12	7.35E-12
P2RY10	-1.35871	0.461387817	1.87E-12	7.35E-12
OMD	-2.10933	0.509477851	1.89E-12	7.42E-12
SPATA17	1.390822	0.434067353	1.93E-12	7.59E-12
DPF1	1.616607	-0.384974616	1.95E-12	7.66E-12
SAMD13	-1.05857	3.028362318	2.03E-12	7.97E-12
ORM2	3.014419	-1.320786072	2.07E-12	8.1E-12
TINAG	-1.4347	3.09448789	2.08E-12	8.16E-12
KISS1R	3.24279	-1.088096541	2.1E-12	8.24E-12
PADI1	2.538116	1.596921434	2.16E-12	8.44E-12
DLEU7	1.665809	0.20411251	2.16E-12	8.45E-12
CALCA	5.579879	1.866455336	2.17E-12	8.48E-12
LY6D	5.188295	0.960501091	2.23E-12	8.69E-12
GNG13	-2.04622	-0.893267073	2.23E-12	8.71E-12
GP1BA	-1.09212	0.012572835	2.23E-12	8.71E-12
NME1-NME2	1.51604	0.162312465	2.24E-12	8.75E-12
UPK2	4.291846	-0.746510486	2.3E-12	8.96E-12
KRT6C	5.600452	-1.201812219	2.31E-12	8.98E-12
CRTAC1	-1.88366	-0.256476153	2.36E-12	9.19E-12
KDELR3	1.109449	5.384632992	2.42E-12	9.42E-12

C20orf27	1.170072	6.017797919	2.44E-12	9.48E-12
DPP7	1.086118	6.767368047	2.54E-12	9.84E-12
LRRC4B	-1.14975	0.363978758	2.59E-12	1E-11
RPRM	-1.9236	-0.641385946	2.64E-12	1.02E-11
ACRV1	1.307799	-1.271819698	2.73E-12	1.06E-11
TNFSF11	1.675535	1.885326948	2.74E-12	1.06E-11
KIAA2012	2.049358	-1.429500162	2.74E-12	1.06E-11
SCIMP	-1.1833	1.651040227	2.75E-12	1.06E-11
SEMA3D	-1.90746	0.771750308	2.78E-12	1.08E-11
IER3	1.222649	7.55583487	2.81E-12	1.09E-11
EPHB2	1.105454	8.114554839	2.89E-12	1.12E-11
ST6GALNAC	-1.36389	7.2414779	2.95E-12	1.14E-11
MAGEA3	10.03563	2.317027699	2.95E-12	1.14E-11
PSORS1C2	2.855156	-0.977490445	2.97E-12	1.15E-11
BFSP2	-1.52944	-2.274285133	3.01E-12	1.16E-11
PLSCR3	1.019666	-0.664812795	3.04E-12	1.17E-11
KLHL34	-2.0587	-0.383885413	3.06E-12	1.18E-11
REX1BD	1.240039	5.490300102	3.14E-12	1.21E-11
ME1	1.264443	5.009267756	3.27E-12	1.26E-11
INHBB	2.233998	3.204868472	3.35E-12	1.29E-11
RSPH14	1.629528	-0.569086292	3.4E-12	1.31E-11
HENMT1	1.219754	4.185998892	3.41E-12	1.31E-11
TNFRSF11B	2.055633	4.218904335	3.43E-12	1.32E-11
FADS3	1.066258	3.93156564	3.5E-12	1.34E-11
TAGAP	-1.16836	2.654713101	3.53E-12	1.35E-11
FAM218A	-1.689	-2.214015037	3.56E-12	1.37E-11
KRT31	6.36426	-1.705495969	3.59E-12	1.38E-11
LYPD3	2.107645	2.290621424	3.62E-12	1.39E-11
ETV5	1.399794	4.284137331	3.67E-12	1.4E-11
COL4A1	1.149974	8.559330568	3.79E-12	1.45E-11
PTGDS	-1.36423	4.221383182	3.9E-12	1.49E-11
TRPC6	-1.07429	0.823345268	3.9E-12	1.49E-11
MACROD1	1.255901	5.60280864	3.95E-12	1.51E-11
TMEM132B	-1.41592	-0.390066493	4.12E-12	1.57E-11
FGFR4	1.322719	6.920247763	4.16E-12	1.59E-11
CCL26	2.441932	0.13108723	4.17E-12	1.59E-11
OSM	2.291663	2.765020335	4.19E-12	1.59E-11
PCDH7	-1.27648	3.532049602	4.32E-12	1.64E-11
SCG3	-2.09949	0.061423051	4.56E-12	1.73E-11
LRRC6	1.382354	2.722376677	4.78E-12	1.81E-11
TPD52L1	1.157799	5.070076628	4.93E-12	1.86E-11
RP1L1	2.429938	-1.289743184	5.07E-12	1.92E-11
ATAD3C	2.030581	1.777640687	5.15E-12	1.94E-11
BEAN1	2.251166	0.511403992	5.16E-12	1.95E-11
PUS7L	1.010165	5.005294865	5.2E-12	1.96E-11
GPR4	1.088009	2.551730766	5.42E-12	2.04E-11
PCDH20	-1.8364	-2.163746962	5.43E-12	2.05E-11
HIST1H2BO	5.131405	0.924714499	5.43E-12	2.05E-11
PRSS51	3.025178	-0.105883104	5.46E-12	2.06E-11
HIST2H2BF	3.386777	1.369826937	5.47E-12	2.06E-11
SOX1	4.694667	1.05106099	5.54E-12	2.08E-11
RHCG	2.622591	1.264398349	5.59E-12	2.1E-11
HIST1H2AB	6.167552	0.044719618	5.62E-12	2.11E-11
MUC16	4.647485	1.354205571	5.76E-12	2.17E-11
BTBD19	1.363154	1.8525409	5.83E-12	2.19E-11
PBK	1.226259	4.636605754	5.85E-12	2.2E-11

MMP10	2.417411	2.020367113	5.89E-12	2.21E-11
FADS1	1.473341	4.753259637	5.89E-12	2.21E-11
DNAH12	2.072107	-1.303680468	5.99E-12	2.25E-11
FBXL6	1.152303	5.809399525	6.13E-12	2.3E-11
GABRP	3.559815	3.37042266	6.16E-12	2.31E-11
RASL10B	2.299831	1.63562929	6.19E-12	2.32E-11
PLA2G4E	1.705938	-0.411638363	6.37E-12	2.39E-11
SYT8	2.16874	1.217323398	6.44E-12	2.41E-11
ZNF703	1.037607	7.962870175	6.58E-12	2.46E-11
CNTNAP3B	-1.75514	-1.414168281	6.63E-12	2.48E-11
CCDC85A	-1.50754	-1.495945074	6.69E-12	2.5E-11
RNF180	-1.31991	0.545555384	6.69E-12	2.5E-11
KIFC3	1.217065	4.338506693	6.76E-12	2.52E-11
GNAZ	-1.04567	1.826738521	7.05E-12	2.63E-11
TAL1	-1.00896	0.589501978	7.17E-12	2.67E-11
LTK	-1.56408	3.000563985	7.44E-12	2.77E-11
DNAAF4	1.553715	-0.881432087	7.48E-12	2.78E-11
HES7	3.299	-1.962540693	7.49E-12	2.79E-11
TEX19	3.206495	-1.967095179	7.79E-12	2.89E-11
C2orf72	-1.04101	4.85511183	7.9E-12	2.93E-11
CXCL11	2.562232	4.18176301	7.95E-12	2.95E-11
RNF182	3.519009	0.654425394	8.03E-12	2.98E-11
EFCAB10	1.183052	-1.0450407	8.19E-12	3.04E-11
HIST1H2AL	5.215508	-0.075541112	8.44E-12	3.13E-11
LRRC37A3	1.258241	2.5145429	8.44E-12	3.13E-11
C1QC	-1.18486	6.626444651	8.72E-12	3.23E-11
SLC25A27	1.422373	2.608780093	8.85E-12	3.28E-11
DLX6	3.832883	-0.03280976	8.88E-12	3.29E-11
DCAF4L1	1.553913	-1.397892362	8.89E-12	3.29E-11
PPM1J	1.05739	0.764480337	9.17E-12	3.39E-11
PTPRT	-1.62806	-1.258654626	9.38E-12	3.46E-11
COL1A2	1.647345	10.71782934	9.38E-12	3.46E-11
ZNF418	-1.26844	-0.609295884	9.86E-12	3.64E-11
MYCN	2.4791	2.110160939	9.95E-12	3.67E-11
PGLYRP3	4.51797	-2.25731382	1.03E-11	3.81E-11
SLC4A8	1.423195	2.112815613	1.05E-11	3.86E-11
CST6	3.369451	0.044408873	1.05E-11	3.86E-11
CD40LG	-1.18807	0.024925297	1.09E-11	4E-11
MESP2	-1.30713	-0.409601835	1.1E-11	4.04E-11
CACNA1A	-1.18646	-0.041286342	1.12E-11	4.13E-11
SHLD1	1.121657	3.335769575	1.13E-11	4.14E-11
SERPINB2	4.482375	0.601246031	1.15E-11	4.2E-11
POU3F2	3.071978	-2.117545043	1.18E-11	4.34E-11
CALB1	5.453655	3.762466996	1.22E-11	4.47E-11
SBK1	1.957553	2.886366286	1.23E-11	4.51E-11
TREX2	1.265073	-0.603839166	1.24E-11	4.53E-11
PREX2	-1.14822	1.780830954	1.24E-11	4.54E-11
PMFBP1	1.56133	1.993825947	1.25E-11	4.58E-11
PRDM13	4.021271	-0.974959787	1.26E-11	4.6E-11
UPK1A	3.922527	-0.998533992	1.28E-11	4.66E-11
CREG2	2.62969	0.490070201	1.28E-11	4.69E-11
LACTB2	1.042403	5.055960227	1.29E-11	4.72E-11
ITGB1BP2	-1.02742	-0.038920138	1.31E-11	4.78E-11
NSMF	1.102896	6.734435181	1.32E-11	4.81E-11
RIPPLY1	2.412758	-2.137277426	1.33E-11	4.86E-11
SEMA3F	1.15577	5.450455636	1.33E-11	4.86E-11

KIAA1549L	2.663637	2.350111242	1.35E-11	4.93E-11
CCL11	-1.382	2.432546502	1.36E-11	4.96E-11
KIF12	1.565237	5.120257521	1.38E-11	5.02E-11
ISM2	3.55678	1.359737355	1.39E-11	5.07E-11
RGS18	-1.23111	0.503140818	1.4E-11	5.08E-11
CDR2L	1.185013	4.308136605	1.4E-11	5.12E-11
CSMD2	1.988491	1.132835338	1.44E-11	5.24E-11
PROCR	1.126419	5.439478505	1.46E-11	5.31E-11
CNTNAP1	-1.12016	3.228058254	1.46E-11	5.32E-11
CCDC40	1.062708	1.543040145	1.47E-11	5.35E-11
CLIC3	2.049772	2.925720749	1.56E-11	5.65E-11
HIST1H2BI	7.034054	0.784210582	1.59E-11	5.75E-11
WNT11	2.648577	4.573930117	1.62E-11	5.86E-11
BHLHA9	4.484313	-2.248046397	1.62E-11	5.88E-11
BNIP1	1.258767	-0.625917861	1.64E-11	5.95E-11
TMEM132D	-1.67886	-1.937819595	1.66E-11	6.02E-11
CLCA1	-2.40281	8.811580381	1.75E-11	6.31E-11
LAX1	-1.33672	1.173546979	1.75E-11	6.33E-11
SLC2A12	1.914093	2.945256907	1.78E-11	6.42E-11
ROBO2	2.113621	2.612282422	1.78E-11	6.43E-11
ATP2A1	1.383601	0.911826395	1.79E-11	6.45E-11
NXPH3	-1.52745	1.829489999	1.82E-11	6.55E-11
FAM19A5	1.365354	2.194265587	1.83E-11	6.58E-11
CALB2	-1.83301	2.241858979	1.89E-11	6.79E-11
SLCO1A2	4.088944	-1.073946928	1.89E-11	6.82E-11
C3orf67	1.904916	2.010990574	1.9E-11	6.84E-11
ZNF454	-1.20468	-1.663726826	1.98E-11	7.11E-11
BAMBI	1.79578	4.418272936	2E-11	7.18E-11
ELOVL5	1.051158	5.954952377	2E-11	7.18E-11
SPAG17	2.866879	-1.429838526	2E-11	7.18E-11
ZNF738	1.028377	2.529482326	2.04E-11	7.32E-11
HIST1H3I	5.891904	-0.060448668	2.05E-11	7.37E-11
ZMYND15	1.142361	2.030078468	2.1E-11	7.51E-11
TTL7	-1.34971	1.507618208	2.12E-11	7.59E-11
NPY4R	-1.44544	-1.145837463	2.12E-11	7.6E-11
DOCK2	-1.13896	3.837435537	2.16E-11	7.75E-11
CCL5	-1.279	4.519332186	2.18E-11	7.79E-11
RAC3	1.380245	2.510761777	2.26E-11	8.08E-11
ITGAL	-1.10795	3.827909425	2.27E-11	8.1E-11
B3GNT4	1.403543	0.619111507	2.28E-11	8.16E-11
NTRK3	-1.76676	0.10715846	2.38E-11	8.48E-11
ATP2B3	-2.26109	-2.360441428	2.39E-11	8.52E-11
ATP6V0A4	3.815446	-1.501671099	2.52E-11	8.96E-11
MOK	1.203622	2.966335924	2.54E-11	9.06E-11
LMCD1	1.046532	4.347902213	2.55E-11	9.08E-11
SEZ6L2	1.259793	5.977648879	2.59E-11	9.23E-11
CD207	-1.35853	-0.427546141	2.68E-11	9.54E-11
KLK12	3.299963	2.686570575	2.93E-11	1.04E-10
ABCA10	-1.27357	0.488304496	2.95E-11	1.05E-10
ZNF850	1.418224	2.128623039	2.98E-11	1.06E-10
SKAP1	1.412551	3.68352928	3.1E-11	1.1E-10
AC010422.3	2.702553	1.774422561	3.11E-11	1.1E-10
MYBPC2	-1.44187	-1.382678059	3.15E-11	1.11E-10
TCP11	4.874298	0.553678127	3.16E-11	1.12E-10
DLL3	2.623722	-0.668291163	3.2E-11	1.13E-10
PRPH2	-1.07375	-0.652509911	3.22E-11	1.14E-10

AQP6	2.05245	-0.775067213	3.3E-11	1.17E-10
BRICD5	1.062936	1.595510453	3.32E-11	1.17E-10
HIST1H2AJ	5.436625	0.734609392	3.37E-11	1.19E-10
COL28A1	-1.32572	1.933896857	3.59E-11	1.26E-10
GIMAP5	-1.27821	0.137437635	3.61E-11	1.27E-10
ADA	1.210849	3.680707559	3.63E-11	1.28E-10
MYO7A	1.181267	3.577979601	3.66E-11	1.29E-10
PTF1A	6.032395	-1.287901807	3.69E-11	1.3E-10
CDH6	1.109531	2.377520506	3.69E-11	1.3E-10
KLRG2	3.833959	0.206641934	3.72E-11	1.31E-10
ORM1	6.435028	1.943793267	3.72E-11	1.31E-10
FAM198A	-1.35625	0.411449108	3.73E-11	1.31E-10
DOCK10	-1.07111	3.333509653	3.83E-11	1.35E-10
TMEM198	1.371968	2.305855792	3.85E-11	1.35E-10
MAGEA6	9.472112	2.117882718	3.87E-11	1.36E-10
ADAMTSL2	1.486467	3.311790095	3.93E-11	1.38E-10
TWIST2	-1.24926	0.621413726	4.01E-11	1.4E-10
GOLT1A	1.181137	3.703924928	4.02E-11	1.41E-10
MIF	1.382039	5.979923652	4.13E-11	1.45E-10
TERT	1.660201	1.446833088	4.29E-11	1.5E-10
BNC2	-1.3847	2.720415833	4.31E-11	1.51E-10
CSF2RB	-1.16415	3.875108593	4.35E-11	1.52E-10
MANEAL	1.115198	4.531545129	4.38E-11	1.53E-10
PCDHGC3	-1.15064	3.199368411	4.38E-11	1.53E-10
SMPX	-2.20644	0.068640102	4.41E-11	1.54E-10
FNDC9	-1.74002	-2.378333815	4.42E-11	1.54E-10
COL5A3	1.294546	4.420569125	4.47E-11	1.56E-10
CCDC189	1.039529	0.272312492	4.49E-11	1.57E-10
KCNJ15	2.295478	1.075289007	4.51E-11	1.57E-10
SLC39A5	-1.2801	6.55917072	4.52E-11	1.57E-10
CFAP73	1.527482	-0.815243294	4.68E-11	1.63E-10
CCL24	1.90804	5.236034288	4.69E-11	1.63E-10
EPHX3	2.030583	0.020193297	4.85E-11	1.69E-10
C1QTNF12	-1.3245	2.236974764	4.91E-11	1.7E-10
COL8A1	1.818787	5.357814431	4.97E-11	1.73E-10
CPNE9	1.796404	-0.684470015	5.01E-11	1.74E-10
ZNHIT2	1.00251	4.011439316	5.06E-11	1.76E-10
LGR6	2.126304	4.823162435	5.28E-11	1.83E-10
ARHGAP33	1.024564	3.185825153	5.34E-11	1.85E-10
C16orf54	-1.35841	1.719797303	5.37E-11	1.86E-10
ABLIM2	1.112216	4.663646304	5.54E-11	1.92E-10
CACNG4	3.545311	2.20217005	5.61E-11	1.94E-10
HMGA2	1.671721	4.250435005	5.63E-11	1.95E-10
COL22A1	1.828277	0.832194542	5.81E-11	2.01E-10
TBX10	-1.65943	2.081893202	5.86E-11	2.03E-10
C1QTNF3	-1.07743	2.390710168	6.17E-11	2.13E-10
AKR1E2	1.569465	1.595404545	6.32E-11	2.18E-10
S100A5	1.753038	-0.897556758	6.45E-11	2.22E-10
MUCL3	4.580265	-0.511776566	6.46E-11	2.22E-10
TMEM52	1.468786	2.672391449	6.48E-11	2.23E-10
ZNF750	3.001019	-0.146209047	6.48E-11	2.23E-10
PTPRN	-1.51254	1.074917367	6.49E-11	2.23E-10
DKK1	3.667915	1.374656228	6.78E-11	2.33E-10
GGH	1.33478	7.132986654	6.83E-11	2.35E-10
LDOC1	-1.05442	1.743581485	6.86E-11	2.35E-10
ALG1L	1.392807	1.360578918	6.95E-11	2.39E-10



TYRP1	-1.40844	0.177057564	6.99E-11	2.4E-10
PDE1B	-1.1613	1.15139704	7.04E-11	2.41E-10
TK1	1.007413	6.535458155	7.27E-11	2.49E-10
OLFML3	-1.05954	4.465949299	7.31E-11	2.5E-10
IVL	6.726769	-1.372324613	7.42E-11	2.54E-10
GPR143	2.169741	3.041674406	7.43E-11	2.54E-10
NCR3	-1.27854	-1.142162936	7.49E-11	2.56E-10
ATP6V1B1	2.157362	-0.737304034	7.57E-11	2.59E-10
LGI3	-1.84059	-1.766256334	7.63E-11	2.61E-10
LHX5	3.667716	-2.295702346	7.98E-11	2.72E-10
ARSH	2.056939	-1.769178753	7.99E-11	2.73E-10
TMEM52B	1.902591	-1.246041981	8E-11	2.73E-10
HTRA4	1.919489	-1.002003558	8.01E-11	2.73E-10
RUBCNL	1.708214	6.545766948	8.15E-11	2.78E-10
MYH4	2.855571	-1.278939352	8.3E-11	2.83E-10
MUC5AC	4.298605	5.947552687	8.58E-11	2.92E-10
FADS6	-2.21899	0.268436726	8.6E-11	2.93E-10
LCN2	2.285931	9.434569734	8.64E-11	2.94E-10
FADS2	1.874546	5.72683706	8.65E-11	2.94E-10
DRD2	3.244095	2.158077711	8.72E-11	2.96E-10
MAP2	-1.34956	1.052494301	8.73E-11	2.97E-10
NR4A3	-1.36938	2.586986157	8.76E-11	2.98E-10
MAGEA12	8.633358	1.1491113	9.23E-11	3.13E-10
FAM43B	-1.50606	-1.764008841	9.42E-11	3.19E-10
MYBPC3	2.292336	-0.86331425	9.57E-11	3.24E-10
TDO2	1.950229	2.665012258	9.73E-11	3.29E-10
KCNS3	-1.04984	3.28838645	9.77E-11	3.31E-10
NKX2-1	7.53071	1.112456187	9.8E-11	3.31E-10
DRD5	-2.4861	-1.115965408	9.8E-11	3.31E-10
AL391650.1	1.53357	-1.979652461	1.02E-10	3.44E-10
THBS4	-1.86822	3.630841968	1.02E-10	3.44E-10
S100A7	5.626023	-0.657281975	1.04E-10	3.51E-10
AKNAD1	1.818129	-1.048571899	1.04E-10	3.52E-10
RPS15	1.064758	9.091323185	1.05E-10	3.53E-10
GNGT1	3.176861	-1.1764149	1.09E-10	3.66E-10
IFI6	1.731455	6.895658835	1.1E-10	3.7E-10
ZNF878	1.352437	-1.0847832	1.1E-10	3.71E-10
GNG4	2.644943	5.385730318	1.1E-10	3.71E-10
APLP1	-1.26087	1.013148085	1.11E-10	3.74E-10
UNC80	-1.83033	-2.194590595	1.16E-10	3.89E-10
KCNT2	-1.42103	-0.978603439	1.18E-10	3.96E-10
MS4A4E	-1.43387	-2.17545961	1.2E-10	4.02E-10
PCDHB9	1.766851	1.31234686	1.21E-10	4.05E-10
HIST1H2BL	3.909226	0.642362291	1.24E-10	4.15E-10
ITLN1	-2.17233	6.647468018	1.25E-10	4.17E-10
RPL8	1.080257	11.54362518	1.25E-10	4.2E-10
POU4F1	2.729939	-0.899078559	1.26E-10	4.21E-10
HIST2H2AB	5.840112	-0.165315444	1.26E-10	4.23E-10
LRRC4C	-1.63001	-0.973957057	1.27E-10	4.23E-10
FGGY	1.852	5.254379101	1.28E-10	4.27E-10
SLC6A14	2.588009	4.142293351	1.31E-10	4.36E-10
SUSD2	-1.28831	2.847764479	1.31E-10	4.37E-10
IGFL3	3.627949	-1.492896631	1.32E-10	4.4E-10
GPR17	-1.44675	-0.533641356	1.35E-10	4.49E-10
STXBP1	1.180637	5.336925407	1.36E-10	4.54E-10
LRP2	3.399835	-1.951806334	1.39E-10	4.64E-10

C1QB	-1.1437	6.672343304	1.4E-10	4.64E-10
AQP9	2.479924	2.76446931	1.45E-10	4.83E-10
HPDL	1.475218	4.384099824	1.51E-10	5.02E-10
CCDC18	1.024475	2.518319977	1.53E-10	5.09E-10
PLAC1	2.519338	-0.813919059	1.56E-10	5.19E-10
ZEB2	-1.13476	4.616602291	1.58E-10	5.25E-10
GPR27	-1.59407	-0.423463105	1.61E-10	5.33E-10
B4GALNT4	2.639546	3.431203985	1.65E-10	5.48E-10
PNMA8B	-1.11805	-0.210313479	1.68E-10	5.56E-10
HPCAL4	-1.4997	-2.39310172	1.68E-10	5.56E-10
SMIM32	-1.6103	2.382865384	1.7E-10	5.64E-10
SIGLEC15	2.249965	1.415864267	1.72E-10	5.69E-10
CYSLTR2	-1.2126	-0.13541691	1.73E-10	5.73E-10
DMRT1	5.2532	-1.760452203	1.78E-10	5.87E-10
AC233992.2	1.877857	-2.281795558	1.79E-10	5.9E-10
SERPINF2	1.551651	2.788217928	1.86E-10	6.15E-10
VLDLR	-1.08063	3.059507926	1.89E-10	6.24E-10
TBX20	3.307902	-0.98412983	1.94E-10	6.4E-10
ZNF385B	-1.69851	-0.722873484	1.97E-10	6.5E-10
FSCN1	1.647123	6.150370748	1.98E-10	6.5E-10
STX16-NPEP1	1.536891	0.077390887	2E-10	6.58E-10
RUNX1T1	-1.22339	2.014763223	2.11E-10	6.94E-10
PARD6A	1.104862	3.099705578	2.26E-10	7.42E-10
SPRR3	6.75874	1.283870516	2.28E-10	7.48E-10
PNMA8A	-1.24495	0.925927465	2.33E-10	7.63E-10
PIGR	-1.61708	11.92326951	2.4E-10	7.85E-10
FOXD1	3.065988	1.43393632	2.46E-10	8.06E-10
ASIP	1.578955	-2.317045557	2.47E-10	8.07E-10
FGF3	5.40278	-1.803470544	2.53E-10	8.27E-10
CD200R1	-1.22552	0.364641129	2.54E-10	8.29E-10
TRIP6	1.254322	6.263666941	2.64E-10	8.61E-10
IGFBP1	3.668894	-0.290446981	2.67E-10	8.71E-10
KRT12	-1.37382	-0.584370408	2.69E-10	8.76E-10
CYP2F1	1.85732	-1.762977127	2.72E-10	8.87E-10
LIX1	-1.95958	-2.311661129	2.75E-10	8.97E-10
ZNF572	1.048611	1.878698912	2.8E-10	9.12E-10
SLC6A1	1.248848	0.007741027	2.95E-10	9.56E-10
PALM2	2.336073	-1.245205764	2.97E-10	9.63E-10
FBXL13	1.561744	-0.223691105	2.97E-10	9.64E-10
PCP2	1.605904	-1.309640712	3E-10	9.71E-10
SIX2	3.073853	0.766151924	3.15E-10	1.02E-09
OR2W3	-1.80744	-1.55568763	3.15E-10	1.02E-09
LRRC15	1.761636	3.911984626	3.17E-10	1.02E-09
LMX1A	-2.16663	-1.939887704	3.24E-10	1.05E-09
GRM8	2.269268	4.011426817	3.36E-10	1.08E-09
PNMA5	7.303188	2.37098794	3.48E-10	1.12E-09
ARHGAP10	-1.02629	3.253236815	3.58E-10	1.15E-09
LGALS12	-1.68338	-1.43973992	3.59E-10	1.16E-09
SLC5A2	1.358006	0.172639138	3.76E-10	1.21E-09
SPRR2E	7.654554	0.073646693	3.8E-10	1.22E-09
VCAN	1.552776	6.883246088	3.81E-10	1.22E-09
ITGB8	1.211091	4.647730809	3.85E-10	1.24E-09
GOLGA8B	1.469693	3.088584062	3.91E-10	1.25E-09
NXPE2	-1.45261	1.80445822	3.95E-10	1.26E-09
LYPD6B	1.641189	2.22037075	4.03E-10	1.29E-09
CFB	1.173076	4.319063338	4.22E-10	1.35E-09

GPX2	1.089683	9.381578166	4.4E-10	1.41E-09
AQP1	-1.04496	6.024805127	4.5E-10	1.43E-09
PAX5	-1.74852	1.902426526	4.55E-10	1.45E-09
CCDC114	1.530155	-0.801616763	4.55E-10	1.45E-09
NYAP1	-1.15818	-0.782424093	4.71E-10	1.5E-09
PHGDH	1.662026	5.980134029	4.72E-10	1.5E-09
ARMC3	3.260371	-1.521997033	4.72E-10	1.5E-09
ZNF280B	1.168444	1.510744887	4.79E-10	1.52E-09
SCX	1.410904	1.492913556	4.85E-10	1.54E-09
TNFSF4	1.434951	2.325233166	4.86E-10	1.54E-09
CIART	-1.1368	0.584522312	4.88E-10	1.55E-09
EYA1	3.185344	1.344793142	4.89E-10	1.55E-09
PLD4	-1.15117	0.89341516	5.05E-10	1.6E-09
KCNQ5	-1.71719	-1.140981776	5.07E-10	1.61E-09
CLLU1OS	2.944988	-1.644234443	5.1E-10	1.61E-09
LIPM	1.114149	1.532836812	5.11E-10	1.62E-09
CYP4F8	3.052614	-0.793317558	5.12E-10	1.62E-09
GRPR	2.847599	-0.068407812	5.17E-10	1.64E-09
GNMT	1.206048	-1.83452542	5.25E-10	1.66E-09
HIST1H1D	4.727707	1.930194846	5.43E-10	1.72E-09
NSG1	-1.1571	1.969747154	5.48E-10	1.73E-09
TBX4	3.750475	0.071547044	5.56E-10	1.75E-09
HEPHL1	2.810992	1.07446556	5.62E-10	1.77E-09
FSTL3	1.316442	4.657106983	5.84E-10	1.84E-09
SLC2A8	1.022526	5.584600108	6.09E-10	1.92E-09
P2RY13	-1.21282	1.603224728	6.1E-10	1.92E-09
CHRNA6	2.616222	-2.431705496	6.16E-10	1.94E-09
F5	2.487571	3.191340902	6.25E-10	1.96E-09
SALL1	-1.02711	1.440147151	6.25E-10	1.96E-09
EGR4	2.3665	-1.264945554	6.43E-10	2.02E-09
NCR3LG1	1.190373	4.181196237	6.43E-10	2.02E-09
TEX22	1.211557	-1.219708929	6.44E-10	2.02E-09
KCNH1	-1.19399	-1.814874025	6.47E-10	2.03E-09
ESCO2	1.067279	3.852224918	6.55E-10	2.05E-09
CABYR	1.12465	-0.041351084	6.58E-10	2.06E-09
MAGEA11	6.179135	0.76458101	6.88E-10	2.15E-09
IZUMO2	3.311969	-1.043940856	6.9E-10	2.16E-09
VTCN1	3.449901	-0.826979762	6.99E-10	2.19E-09
CYP19A1	2.081236	-0.381344364	7.01E-10	2.19E-09
PRR22	1.175546	1.585621881	7.05E-10	2.2E-09
CTSW	-1.28101	1.789098208	7.06E-10	2.2E-09
PTPRU	1.847593	4.267753618	7.45E-10	2.33E-09
TMEM160	1.668788	3.878849036	7.62E-10	2.38E-09
SLC6A20	2.141871	4.943576141	7.69E-10	2.4E-09
MMP12	1.899855	6.172095271	8E-10	2.49E-09
NPIPA3	2.138338	-1.557017322	8.2E-10	2.55E-09
FBXO2	2.348751	3.264394736	8.22E-10	2.55E-09
PRRX1	1.655823	4.382142928	8.73E-10	2.71E-09
PRKAA2	-1.78348	1.655645881	8.79E-10	2.73E-09
TRABD2B	-1.11446	0.876805234	8.87E-10	2.75E-09
GCKR	1.930705	-1.964751397	8.89E-10	2.76E-09
CD200R1L	4.754905	-1.856022194	8.92E-10	2.77E-09
HIST1H2BE	4.020495	-0.095879618	8.98E-10	2.78E-09
LAMC3	-1.07257	2.050644941	9.05E-10	2.81E-09
A2ML1	4.411633	0.424959516	9.16E-10	2.84E-09
SLCO1C1	-1.28734	-1.629821221	9.19E-10	2.84E-09

ARHGAP28	-1.04471	1.082587824	9.21E-10	2.85E-09
MYO18B	2.627243	-1.138178091	9.25E-10	2.86E-09
MTRNR2L1	-2.36769	3.305961782	9.41E-10	2.91E-09
ADGRG7	-1.52861	3.398673232	9.43E-10	2.92E-09
CCL20	1.677825	5.935702983	9.59E-10	2.97E-09
DMKN	1.831424	4.1668315	9.7E-10	0.000000003
KNG1	-1.64316	-0.143808443	9.8E-10	3.03E-09
XIRP1	2.169802	-0.368306441	1E-09	3.1E-09
SYT12	1.986521	0.117593311	1.01E-09	3.1E-09
FNDC10	1.396362	3.423752289	1.03E-09	3.16E-09
SGIP1	1.357245	2.023003157	1.04E-09	3.2E-09
R3HDML	1.867556	0.903082132	1.04E-09	3.2E-09
CSAG1	6.708647	0.253488885	1.06E-09	3.28E-09
SAA2	2.701864	2.016103724	1.07E-09	3.28E-09
TMEM63C	-1.33902	3.183386266	1.08E-09	3.31E-09
ANKRD18B	3.26463	-1.495092606	1.13E-09	3.47E-09
KL	-1.35203	0.759968279	1.13E-09	3.48E-09
ABHD1	1.330686	-0.66410512	1.15E-09	3.54E-09
EPHA8	4.719085	-1.370353407	1.15E-09	3.54E-09
NUDT11	-1.17614	-0.2239242	1.16E-09	3.56E-09
FAM180A	-1.31483	-0.060602873	1.16E-09	3.56E-09
ZFPM2	-1.16333	1.180860758	1.19E-09	3.63E-09
SCART1	1.305429	0.796892073	1.21E-09	3.69E-09
SOX5	-1.18826	0.159584432	1.21E-09	3.71E-09
CACNA2D3	-1.08862	-0.520460932	1.22E-09	3.72E-09
FOXD4	1.602982	-1.304477799	1.24E-09	3.79E-09
ADH6	-1.25192	3.34225882	1.27E-09	3.87E-09
BACH2	-1.24817	0.970671743	1.27E-09	3.88E-09
PCDH17	1.080794	2.87024814	1.29E-09	3.93E-09
RIMKLB	-1.07609	2.38506297	1.29E-09	3.94E-09
HIST1H4L	7.044478	-0.196098433	1.33E-09	4.06E-09
TIMD4	-1.51666	-0.975975739	1.34E-09	4.09E-09
AMBP	1.993365	0.745102303	1.4E-09	4.27E-09
CYB5R2	1.012874	3.147054566	1.41E-09	4.28E-09
FBLN2	-1.26164	5.664834505	1.41E-09	4.29E-09
HSPB3	-2.14467	-0.526574142	1.47E-09	4.45E-09
VSIG8	1.990907	-1.0907148	1.47E-09	4.46E-09
STK32C	1.077331	3.654034401	1.47E-09	4.47E-09
CATIP	1.359866	-2.20772763	1.47E-09	4.47E-09
NECAB2	-1.46044	-2.154293734	1.49E-09	4.51E-09
PTGDR	-1.72811	2.123642786	1.5E-09	4.55E-09
HECW1	1.575796	0.416051919	1.56E-09	4.72E-09
PRSS2	5.118815	5.8901577	1.61E-09	4.88E-09
NUTM2A	-1.15307	-1.774805413	1.62E-09	4.91E-09
HIST1H2BF	3.858668	0.847241743	1.65E-09	4.99E-09
IL36RN	3.551647	-2.034425715	1.65E-09	4.99E-09
KCNG1	-1.54034	1.309911175	1.75E-09	5.28E-09
CALML3	2.925695	0.225111212	1.76E-09	5.3E-09
CERS1	-1.36491	-2.255450179	1.8E-09	5.42E-09
WDFY4	-1.04367	2.994869739	1.87E-09	5.63E-09
HIST2H2AC	2.771371	1.485547762	1.88E-09	5.67E-09
PLA2G4B	1.240811	-0.886400378	1.92E-09	5.78E-09
SLC47A1	-1.09735	0.576777121	1.95E-09	5.86E-09
HIST1H2AM	3.486012	0.5523291	1.99E-09	5.98E-09
CCR7	-1.16303	1.733367133	2.02E-09	6.08E-09
PCSK4	1.320707	1.87354399	2.03E-09	6.09E-09

PTGIS	-1.3939	3.511215055	2.04E-09	6.13E-09
PRSS53	1.090285	0.172295194	2.04E-09	6.13E-09
SDK1	-1.12009	2.778774927	2.15E-09	6.45E-09
CD55	1.284009	7.528913638	2.16E-09	6.48E-09
MAB21L3	-1.08616	1.064860154	2.17E-09	6.52E-09
PCDHB14	1.021293	3.002398385	2.18E-09	6.53E-09
ADAM11	-1.20424	-0.84025078	2.18E-09	6.53E-09
ZNF528	-1.12513	2.060757809	2.19E-09	6.57E-09
ANKRD36C	2.201235	2.028414482	2.23E-09	6.68E-09
AL031708.1	1.79079	-2.076489731	2.24E-09	6.71E-09
CR1	-1.41094	1.305728677	2.29E-09	6.83E-09
AKR1C3	-1.04674	6.204644327	2.3E-09	6.87E-09
GRP	2.184263	0.554659767	2.31E-09	6.91E-09
CDK15	-1.41249	-1.619181153	2.31E-09	6.91E-09
HTR3C	-2.29404	-1.960304734	2.34E-09	6.99E-09
CD3E	-1.00303	3.602012237	2.4E-09	7.16E-09
FZD10	3.097729	2.851199648	2.4E-09	7.17E-09
LRRC73	1.483134	0.400916019	2.45E-09	7.29E-09
MEGF11	2.366678	0.562990053	2.45E-09	7.31E-09
FBXO27	-1.21284	-0.103731215	2.47E-09	7.35E-09
KCTD19	1.824784	-1.706425712	2.47E-09	7.37E-09
SBSN	3.103893	-1.322501718	2.48E-09	7.39E-09
RIBC2	1.3168	0.982409415	2.52E-09	7.49E-09
FBXW12	1.740889	-2.334820901	2.53E-09	7.53E-09
LGALS7B	2.564324	-2.262971706	2.62E-09	7.8E-09
BHLHA15	-1.13421	0.321291767	2.65E-09	7.88E-09
SAMD15	1.030234	-0.678597085	2.67E-09	7.94E-09
POU5F2	5.295103	-0.606564891	2.74E-09	8.13E-09
CAPN9	-1.47133	3.558982718	2.79E-09	8.29E-09
CKM	-1.43046	-0.967372019	2.91E-09	8.63E-09
L3MBTL1	1.339776	2.99136114	2.93E-09	8.67E-09
SOBP	-1.01353	2.266931202	2.98E-09	8.81E-09
VNN3	2.169072	-0.897439206	3.11E-09	9.17E-09
LRRC69	1.306252	-0.275002008	3.12E-09	9.21E-09
GRIN3B	1.570788	-1.473039149	3.12E-09	9.21E-09
SERPINB4	5.842166	-1.380732121	3.18E-09	9.38E-09
AC004233.2	3.679035	0.587448195	3.19E-09	9.41E-09
ACKR4	-1.3464	0.017451015	3.3E-09	9.73E-09
ANXA10	4.783549	1.545659351	3.34E-09	9.85E-09
SIX3	3.799691	-1.378028558	3.39E-09	9.99E-09
AC069503.2	1.227232	-2.243264144	3.48E-09	1.02E-08
RHOD	1.256801	4.078628416	3.57E-09	1.05E-08
AKAP2	-1.07622	-0.70965096	3.68E-09	1.08E-08
CHRNA2	2.309419	-1.986478969	3.68E-09	1.08E-08
UNC5A	2.359163	0.155432014	3.72E-09	1.09E-08
CXCL13	-1.5357	3.01309834	3.78E-09	1.11E-08
RPS5	1.03215	10.23313278	3.82E-09	1.12E-08
FGB	3.596693	0.260342048	3.89E-09	1.14E-08
FAM3D	-1.09623	7.963222592	3.93E-09	1.15E-08
AC020915.1	1.111758	-0.804402371	3.93E-09	1.15E-08
GPR84	1.523605	0.596226474	4.05E-09	1.19E-08
COLEC11	-1.09722	0.141612699	4.05E-09	1.19E-08
HBE1	6.381809	-0.147000468	4.08E-09	0.000000012
SYTL1	1.322282	4.496686939	4.12E-09	0.000000012
EPDR1	1.12556	5.078102291	4.21E-09	1.23E-08
C2CD4D	1.024679	0.834995227	4.26E-09	1.25E-08

TMEM61	-1.35474	0.858933053	4.41E-09	1.29E-08
CACNA1C	-1.04784	4.169663902	4.44E-09	1.29E-08
ZNF831	-1.21323	0.117123873	4.45E-09	0.000000013
AHSG	4.27367	0.118947376	4.47E-09	0.000000013
GNA15	1.168455	3.735251961	4.52E-09	1.32E-08
SYCE2	1.080294	-0.181018456	4.57E-09	1.33E-08
NPY5R	-1.7761	-2.422730083	4.7E-09	1.37E-08
KRT4	3.652824	-1.149112234	4.88E-09	1.42E-08
SPDYA	1.723845	-0.167202277	4.97E-09	1.44E-08
RDH12	1.372697	-1.235738093	4.99E-09	1.45E-08
ADORA2A	-1.00342	-2.017539025	4.99E-09	1.45E-08
JMJD7	1.362404	-1.875258472	5.01E-09	1.45E-08
ANO9	1.183746	7.212839675	5.07E-09	1.47E-08
UBD	1.823205	4.149706169	5.16E-09	0.000000015
SEMG2	5.302369	-1.815036845	5.18E-09	0.000000015
HIST1H4A	4.59939	-0.968904911	5.19E-09	0.000000015
KCNQ1	1.055847	7.29428014	5.44E-09	1.57E-08
ABHD14A-A	1.044635	-0.971709421	5.59E-09	1.62E-08
RADIL	-1.32824	-0.052557228	5.6E-09	1.62E-08
PODN	-1.05152	4.264311306	5.67E-09	1.63E-08
MCMDC2	1.365161	1.248117437	5.73E-09	1.65E-08
TFF2	3.573749	4.172009683	5.92E-09	1.71E-08
COL3A1	1.382952	10.8306199	5.93E-09	1.71E-08
C4orf48	1.722405	4.134638812	6.02E-09	1.73E-08
LDHB	1.041642	8.604347739	6.03E-09	1.74E-08
CHRND	4.63086	-2.169934354	6.31E-09	1.81E-08
SPACA3	2.577361	0.051882762	6.31E-09	1.81E-08
CTLA4	1.269137	1.206118498	6.32E-09	1.82E-08
LRRC34	1.262695	0.984870319	6.37E-09	1.83E-08
HRASLS5	-1.68231	-0.060879812	6.41E-09	1.84E-08
CYP4F3	1.246469	4.326657988	6.43E-09	1.85E-08
RNF208	1.154722	3.314061188	6.46E-09	1.85E-08
TRAPPC5	1.63325	1.534749172	6.49E-09	1.86E-08
TBX6	1.012438	1.010756958	6.49E-09	1.86E-08
HSPA6	1.651845	2.490573381	6.63E-09	0.000000019
SOHLH1	5.808626	-1.10129239	6.89E-09	1.97E-08
CALML6	1.639341	-1.844349689	6.96E-09	1.99E-08
CITED4	1.385757	3.223576569	7.08E-09	2.02E-08
TRIM7	2.17734	3.096420219	7.11E-09	2.03E-08
SYT5	-1.43325	-0.715467263	7.11E-09	2.03E-08
SLC38A3	2.713235	0.279879668	7.11E-09	2.03E-08
MDGA1	-1.05692	1.740835111	7.19E-09	2.05E-08
RGS20	2.148133	-1.735175708	7.21E-09	2.06E-08
HBQ1	3.176213	-1.957275436	7.24E-09	2.06E-08
MS4A15	2.572288	-0.493767006	7.26E-09	2.07E-08
RAI2	-1.07805	2.975896204	7.33E-09	2.09E-08
ZNF460	2.184292	2.021577857	7.37E-09	0.000000021
FGF19	3.565417	1.792198758	7.44E-09	2.12E-08
APLF	1.064305	2.097997015	7.5E-09	2.14E-08
ZNF556	3.267194	-0.260781514	7.55E-09	2.15E-08
PANX2	2.003218	-0.325764347	7.55E-09	2.15E-08
NPTX2	2.707061	4.720691211	7.78E-09	2.21E-08
QPCT	1.451316	5.18743616	7.79E-09	2.21E-08
NHS	1.185009	3.720446334	8.15E-09	2.31E-08
RGR	3.57588	-1.166241351	8.15E-09	2.31E-08
ESPN	-1.05954	5.248083015	8.21E-09	2.33E-08

NODAL	2.08881	-0.984753077	8.5E-09	2.41E-08
ANO3	-1.82726	-2.026436356	8.83E-09	0.000000025
OLFML2B	1.212762	4.741724851	9.03E-09	2.55E-08
FAM186B	1.00395	-0.54378677	9.22E-09	2.61E-08
GPR87	4.687608	-2.021363569	9.23E-09	2.61E-08
MAK	1.950423	0.34646006	9.25E-09	2.61E-08
FMO2	-1.58728	0.35896483	9.25E-09	2.61E-08
ZNF117	1.159293	3.749338791	9.32E-09	2.63E-08
ANKRD36B	1.508558	1.129183704	9.36E-09	2.64E-08
SP9	5.084755	-1.70242412	9.36E-09	2.64E-08
DPEP1	2.284901	8.075042185	9.37E-09	2.64E-08
INHA	2.941322	-1.538695262	9.45E-09	2.66E-08
TTC29	5.733004	-0.161154785	9.52E-09	2.68E-08
KLK5	4.791783	-1.502541347	9.73E-09	2.74E-08
SPON1	-1.26134	5.658340305	9.74E-09	2.74E-08
LYG1	1.281932	-0.129747017	9.84E-09	2.77E-08
CCDC73	1.121997	-1.291664812	0.00000001	2.82E-08
NAT8	-2.0547	-0.614473092	1.02E-08	2.86E-08
SHOX2	2.088838	-0.513717285	1.02E-08	2.87E-08
SMTNL2	2.026188	0.874839382	1.03E-08	0.000000029
SYT15	-1.28644	-2.489351988	1.08E-08	3.02E-08
CKB	-1.36846	9.404880853	1.08E-08	3.03E-08
ERV3-1	1.137975	3.364096812	1.12E-08	3.13E-08
HLA-DOB	-1.01907	0.95258048	1.14E-08	0.000000032
FBXO16	1.160587	1.06466513	1.17E-08	3.27E-08
SERPINB3	5.837354	-0.808533405	1.22E-08	0.000000034
NMUR2	4.162444	0.014168223	1.22E-08	3.41E-08
BDNF	1.291874	-0.047738741	1.23E-08	3.43E-08
IGFBP3	1.006953	7.074449845	1.24E-08	3.45E-08
SNX10	1.02383	3.768658297	1.25E-08	3.47E-08
MAGEC1	5.512327	-2.387571883	1.25E-08	3.49E-08
HOXC12	5.433953	-1.107688408	1.29E-08	3.58E-08
FCN3	1.062887	0.176273955	1.3E-08	3.62E-08
MFSD6L	-1.09678	1.853521789	1.32E-08	3.67E-08
TMEM145	1.671119	-0.2769548	1.33E-08	0.000000037
SERPINA7	3.350273	0.03201299	1.33E-08	3.71E-08
CLDN6	3.322282	-0.967694017	1.34E-08	3.72E-08
TLX2	-1.24168	-1.291281989	1.35E-08	3.75E-08
CFAP43	1.233556	-0.467906192	1.37E-08	0.000000038
MAGEA10	5.788942	-1.548259559	1.42E-08	3.93E-08
OR2A7	-1.00884	-0.253189562	1.43E-08	3.96E-08
PLCB4	1.51356	7.25179562	1.45E-08	4.01E-08
MT4	6.225354	-1.045221541	1.56E-08	4.31E-08
TNFAIP6	1.619968	2.28331341	1.6E-08	4.42E-08
GREB1	1.120196	0.779261742	1.62E-08	4.48E-08
CYP26A1	2.397255	-1.252209874	1.64E-08	4.52E-08
FCRL5	-1.39488	2.275042086	1.67E-08	4.59E-08
WFDC3	1.496792	1.31581263	1.68E-08	4.63E-08
PLEKHB1	1.324698	5.500120364	1.7E-08	4.69E-08
PPFIA4	1.327202	0.760534076	1.72E-08	4.73E-08
GPR78	1.474441	-1.579094698	1.78E-08	4.88E-08
HIST1H2AD	3.089687	1.481314209	1.78E-08	0.000000049
FLRT1	-1.12781	0.437455975	1.79E-08	4.93E-08
SMC1B	2.187226	-0.729011286	1.82E-08	5.01E-08
SYNGR4	2.634956	-0.082983751	1.83E-08	5.03E-08
ANKRD36	1.60754	1.978995595	1.85E-08	5.08E-08

PHYHIP	-1.13118	0.671426326	1.87E-08	5.13E-08
COLEC10	2.562359	-0.852355303	1.92E-08	5.26E-08
BTNL9	1.288187	3.22381016	1.93E-08	5.29E-08
HS3ST4	4.444244	-0.481430154	1.98E-08	5.41E-08
DNAH10	1.399432	0.913799494	2.01E-08	0.000000055
CDH15	1.590263	-1.349449018	2.07E-08	5.66E-08
NHSL2	-1.27758	-0.353728352	2.07E-08	5.66E-08
HIST2H3D	2.939839	-1.692120351	2.08E-08	5.67E-08
L1CAM	-1.53851	3.939867154	2.08E-08	5.68E-08
SBSPON	2.046997	4.006755886	2.11E-08	5.76E-08
IL10	-1.08082	-0.730309694	2.12E-08	0.000000058
ZNF829	-1.07622	0.160557303	2.13E-08	5.81E-08
GATA4	4.732102	1.158251771	2.13E-08	5.82E-08
CRABP1	-1.69074	-0.449017893	2.16E-08	5.89E-08
C17orf99	1.95471	-1.622669788	2.17E-08	5.91E-08
B3GNT6	-1.83685	4.295850146	2.23E-08	6.08E-08
DLX3	3.052142	0.943534358	2.25E-08	6.11E-08
CPN1	3.294496	-0.24486181	2.28E-08	0.000000062
ACTL8	2.712122	1.598887769	2.29E-08	6.24E-08
MUC15	4.838513	-1.793145333	2.29E-08	6.24E-08
SSC5D	-1.21812	3.917073259	2.32E-08	0.000000063
PDE10A	1.635572	2.265832476	2.33E-08	6.34E-08
SPATA25	1.228541	0.38742417	2.43E-08	6.59E-08
PROZ	1.475037	-1.303589529	2.47E-08	0.000000067
PDIA2	1.997049	1.284862737	2.48E-08	6.72E-08
KRT5	4.396651	3.594834501	2.5E-08	6.78E-08
TLX3	4.184334	-2.230062215	2.53E-08	6.86E-08
ROR2	-1.07961	3.38815601	2.54E-08	6.89E-08
RAET1G	1.279041	-0.968595301	2.55E-08	6.92E-08
AANAT	1.554307	-1.836577853	2.58E-08	6.98E-08
PGLYRP4	2.326747	-1.979641793	2.69E-08	7.27E-08
FGF17	1.753025	-1.953935927	2.7E-08	7.28E-08
MYH7B	1.73238	2.359078419	2.71E-08	7.31E-08
OBP2A	2.945415	-2.408436026	2.73E-08	7.38E-08
PRSS48	4.632863	-0.519780672	2.84E-08	7.66E-08
CD70	1.980008	1.29631713	2.85E-08	7.68E-08
DPYSL5	-1.88176	-1.414193297	2.94E-08	7.93E-08
EFNA5	-1.19882	2.394668909	2.95E-08	7.93E-08
GBP7	2.246478	-2.194506379	2.96E-08	7.97E-08
C6orf141	1.229638	2.543301402	3.01E-08	8.08E-08
TBXAS1	1.009709	5.092808717	3.17E-08	8.51E-08
MAGEA1	7.474223	-0.101383276	3.25E-08	8.72E-08
HCAR3	2.742285	0.175588753	3.3E-08	8.84E-08
MORN3	1.509855	-0.253447857	3.32E-08	8.91E-08
LOX	1.24428	4.514650848	3.41E-08	9.13E-08
HCAR2	2.405613	1.46666336	3.46E-08	9.26E-08
PRR4	1.395512	0.0098663	3.51E-08	9.39E-08
HCN1	2.430203	0.192142441	3.66E-08	9.77E-08
HOXC11	3.786332	0.862736963	3.66E-08	9.78E-08
CFAP161	1.744701	-2.123523555	3.66E-08	9.78E-08
HOXC13	4.736722	-1.817345085	3.71E-08	0.000000099
CAPN14	2.279513	-0.646726972	3.78E-08	0.000000101
ITGAX	1.221323	4.19216568	3.78E-08	0.000000101
CHI3L2	-1.23241	0.669023794	3.83E-08	0.000000102
NGF	-1.06476	-1.379517603	3.83E-08	0.000000102
ADRA2C	1.774309	2.273414322	3.86E-08	0.000000103



HSPA4L	1.38291	3.929413903	3.94E-08	0.000000105
HIST1H3F	4.023551	0.858561765	3.98E-08	0.000000106
C6	-1.50754	-0.798623035	4.02E-08	0.000000107
ADAM8	1.18155	4.272680704	4.02E-08	0.000000107
SLC6A8	-1.01349	7.13316641	4.03E-08	0.000000107
TMPRSS11E	4.689052	0.097569646	4.04E-08	0.000000107
BTN1A1	2.204158	-0.141729923	4.08E-08	0.000000108
IL36G	2.404042	-1.984621904	4.11E-08	0.000000109
MATK	-1.06058	1.544266058	4.14E-08	0.00000011
FCRLB	1.093773	-0.161536238	4.2E-08	0.000000111
HTRA3	1.231707	5.678829703	4.28E-08	0.000000113
PAX7	5.700653	-0.603250528	4.29E-08	0.000000114
AFF2	-1.37062	-1.46657904	4.38E-08	0.000000116
CFAP74	1.622822	-0.836049388	4.42E-08	0.000000117
TRIM54	2.766549	1.734562823	4.45E-08	0.000000118
IL17A	2.390462	-1.224046818	4.53E-08	0.00000012
PRAME	2.623575	1.710785898	4.6E-08	0.000000121
SEZ6L	-1.73323	-0.79058153	4.65E-08	0.000000123
AL163636.2	-1.47084	-1.522643131	4.84E-08	0.000000127
FAM83A	2.299931	1.528095404	4.84E-08	0.000000128
ANAPC11	1.015577	6.678813375	4.9E-08	0.000000129
USP41	2.089717	-2.166500506	4.95E-08	0.00000013
MUC12	-1.36689	7.673186618	5.23E-08	0.000000137
SYNE4	1.680602	3.188794698	5.27E-08	0.000000138
PAX2	2.843203	-2.121732206	5.32E-08	0.00000014
FGF9	-1.31564	0.131447524	5.44E-08	0.000000142
NRXN2	-1.14588	2.511987241	5.54E-08	0.000000145
CBWD3	1.120536	-0.148703991	5.58E-08	0.000000146
ANKRD1	2.277157	-2.259316559	5.59E-08	0.000000146
HIST1H2BB	6.786828	0.167628437	5.66E-08	0.000000148
MYO3B	1.685633	-0.467868472	5.69E-08	0.000000149
PLIN1	-1.66035	1.814165778	5.85E-08	0.000000153
HIST1H3D	2.307665	1.263854767	5.91E-08	0.000000154
CLCN1	1.658103	-0.384159853	5.95E-08	0.000000155
GJB6	2.697584	-1.440434395	6.13E-08	0.00000016
FBXO43	1.139012	-1.251557648	6.28E-08	0.000000164
ASIC3	1.2818	0.223478244	6.31E-08	0.000000164
RPA4	1.651831	-1.866297866	6.36E-08	0.000000166
TGM1	1.296663	0.173927715	6.38E-08	0.000000166
SEC16B	1.179774	-0.421443776	6.56E-08	0.000000171
PLA2G16	1.130744	5.268985082	6.67E-08	0.000000173
RGS22	-1.41416	-1.909184961	6.71E-08	0.000000174
SLC28A2	-1.76327	3.561366133	6.8E-08	0.000000177
SPIN3	1.168301	1.921701444	6.83E-08	0.000000177
HIST1H2BM	4.639554	-0.192340242	7.01E-08	0.000000182
DLX5	2.386956	-0.614932574	7.2E-08	0.000000186
AIRE	3.001569	-0.153408541	7.28E-08	0.000000188
MYOZ3	-1.04198	-1.299127441	7.36E-08	0.00000019
UGT2B4	4.708723	-0.406217927	7.43E-08	0.000000192
GPR156	-1.14725	-1.851941352	7.45E-08	0.000000193
LTB4R2	1.01238	0.745755278	7.54E-08	0.000000195
CATSPER1	1.269982	-1.007296661	7.65E-08	0.000000197
HIST1H2BJ	2.158854	2.1460377	7.68E-08	0.000000198
ASIC4	1.846101	-2.257487833	7.89E-08	0.000000204
PLEKHG4B	-1.48643	-0.775839227	7.95E-08	0.000000205
PLK5	2.178524	-1.672248219	7.96E-08	0.000000205

PKD1L3	1.851592	-0.958984413	8.22E-08	0.000000212
TBX5	4.148834	-2.161567109	8.27E-08	0.000000213
ANGPTL3	3.146329	-1.24327804	8.29E-08	0.000000213
CD163	-1.14216	4.898635815	8.34E-08	0.000000214
RLN2	1.544233	-0.844658973	8.34E-08	0.000000215
ZNF726	-1.22717	-0.910643448	8.35E-08	0.000000215
SERPINA10	2.598734	1.191309741	8.39E-08	0.000000216
TRIM58	-1.46092	0.635282275	8.41E-08	0.000000216
SYCE3	1.423315	-1.867334104	8.46E-08	0.000000217
SMLR1	-1.5619	-2.046300434	8.47E-08	0.000000218
ALPK3	1.753493	4.476068377	8.62E-08	0.000000221
NDP	1.920799	-0.354165918	8.65E-08	0.000000222
TSPO2	1.307973	-0.923670862	8.66E-08	0.000000222
HAMP	1.687923	-0.965385448	8.77E-08	0.000000225
POU3F3	-1.73255	-1.623472048	8.88E-08	0.000000228
ODAM	2.149091	1.918507158	9.01E-08	0.000000231
PF4	1.990271	1.419838581	9.17E-08	0.000000235
C5orf38	2.864386	0.753904615	9.2E-08	0.000000236
GUCY1A1	-1.03392	3.915646674	9.24E-08	0.000000236
ITIH6	2.598021	-1.836674816	9.41E-08	0.000000241
LHX3	4.00887	-2.654070977	9.64E-08	0.000000246
TCHH	2.326379	0.074940119	9.83E-08	0.000000251
RSPO3	-1.23385	1.996336442	9.89E-08	0.000000252
HOXD4	-1.10008	-1.420378166	9.98E-08	0.000000254
GCM1	2.349299	-2.391912302	9.99E-08	0.000000255
GPR55	-1.21508	0.202010769	1.02E-07	0.00000026
CHD5	-1.10125	-0.414603671	1.02E-07	0.00000026
C5orf52	-1.11419	0.299928799	1.03E-07	0.000000261
FGF23	3.735666	-2.380393359	1.06E-07	0.00000027
FIBCD1	2.237564	4.105260139	1.06E-07	0.00000027
COCH	1.566817	2.08304882	1.08E-07	0.000000274
PCDHA3	-1.28002	-1.967965339	1.11E-07	0.000000283
POMK	1.184877	1.482940468	1.14E-07	0.000000289
NEURL1	-1.26234	3.895886714	1.15E-07	0.000000292
REN	2.362761	1.300818807	1.15E-07	0.000000293
DDX53	5.102385	-2.514831674	1.16E-07	0.000000293
FGF13	-1.11141	1.647972871	1.17E-07	0.000000296
AQP12A	-1.31404	-2.03620507	1.19E-07	0.000000302
TIAM1	-1.0077	2.284107241	1.21E-07	0.000000306
NXF3	3.056341	1.606068193	1.24E-07	0.000000313
IL1B	1.664105	4.839595282	1.27E-07	0.00000032
FAM169A	1.317114	2.122842258	1.29E-07	0.000000326
HTR2C	4.852426	-2.375246884	1.29E-07	0.000000326
MRO	-1.20434	-0.605721228	1.31E-07	0.000000331
MAGEA4	6.017081	-0.595294201	1.32E-07	0.000000332
ABCC2	1.922469	2.887717562	1.32E-07	0.000000332
FOXL2	3.419676	-2.421808856	1.33E-07	0.000000334
TREM2	1.384367	2.625253183	1.33E-07	0.000000336
C9orf84	2.981759	-0.152654635	1.34E-07	0.000000336
ZNF772	-1.06678	1.036138982	1.38E-07	0.000000348
SPEF1	1.530877	-2.069497297	1.47E-07	0.00000037
OR51E1	1.387918	1.998387208	1.54E-07	0.000000385
SLC16A4	1.049634	2.98251079	1.54E-07	0.000000386
ZNF114	1.640953	-0.5952735	1.55E-07	0.000000388
SEMG1	3.305848	0.726198102	1.56E-07	0.00000039
SLC5A4	-1.24732	-1.793151432	1.56E-07	0.000000391

PCDHB4	-1.02493	0.348241555	1.57E-07	0.000000393
SLC22A31	2.899661	1.073317402	1.59E-07	0.000000399
FBXO39	1.776612	-1.959440025	0.00000016	0.0000004
PLA2G2F	2.938137	0.643710552	1.66E-07	0.000000413
LRRC10B	1.408972	1.573466342	1.67E-07	0.000000416
RIIAD1	1.961102	-0.019485801	1.68E-07	0.000000419
KCNRG	1.310777	-0.648705685	0.00000017	0.000000424
HIST1H2BN	1.642221	1.307416672	1.71E-07	0.000000426
EVI2A	-1.01895	2.332956981	1.73E-07	0.000000432
TAS2R5	1.005431	-0.71428101	1.74E-07	0.000000432
TRAT1	-1.10919	-0.33404053	1.74E-07	0.000000433
HIST1H3A	3.469515	-0.440918732	1.74E-07	0.000000434
PTPN13	1.334261	4.364915056	1.75E-07	0.000000435
PBOV1	4.454106	-1.672193713	1.79E-07	0.000000445
ST8SIA6	-1.21317	-0.054346286	0.00000018	0.000000447
GPRC6A	3.229437	-1.932163216	1.82E-07	0.000000451
AOC2	1.063078	-0.614223124	1.82E-07	0.000000453
WFS1	1.033272	6.395786258	1.85E-07	0.000000459
PARVB	1.035622	5.097642641	1.86E-07	0.000000461
COL17A1	-1.04156	7.329622263	1.92E-07	0.000000476
STOX1	1.126124	2.609403795	1.93E-07	0.000000478
UCN3	-1.607	0.690451316	1.94E-07	0.000000479
TAS2R30	4.663629	-1.293516928	1.99E-07	0.000000492
MRC1	-1.12855	4.285775336	2.03E-07	0.000000502
FOXC1	1.347708	2.658726742	2.05E-07	0.000000506
PPP2R2C	2.063743	2.396657894	2.06E-07	0.000000508
KRT78	4.21324	-2.104515431	2.08E-07	0.000000514
PII5	-1.35415	2.131998081	2.11E-07	0.00000052
INSL4	5.351631	-1.264549363	2.14E-07	0.000000527
HOXA9	1.086745	5.07008822	2.17E-07	0.000000535
ICAM5	1.398631	-0.207067363	2.17E-07	0.000000535
FSCN2	1.043405	-0.557776654	2.19E-07	0.00000054
MYLPF	1.22914	-1.18781004	0.00000022	0.000000542
UGT1A6	1.691602	0.614397708	2.21E-07	0.000000543
STAC	-1.21837	-0.324796291	2.25E-07	0.000000554
GPR171	-1.00193	0.363911038	2.26E-07	0.000000555
CTTNBP2	1.349484	3.578774037	0.00000023	0.000000564
PDZK1IP1	1.124009	7.017049905	0.00000024	0.000000588
USH2A	1.527739	-1.27167451	0.00000025	0.000000612
CALHM3	2.403763	-2.083319764	2.54E-07	0.000000621
KIF25	1.732875	-0.598472975	2.54E-07	0.000000622
DGKH	1.044146	5.26661641	2.55E-07	0.000000624
PHACTR3	1.754371	1.59435975	2.62E-07	0.00000064
MTUS2	-1.20942	-0.960895639	2.63E-07	0.000000642
JSRP1	1.499434	2.43208614	2.63E-07	0.000000643
SVOP	-1.57642	-1.233695461	2.64E-07	0.000000646
SLC16A8	1.339884	-0.755288251	2.68E-07	0.000000654
DAPL1	2.094725	-0.137275798	0.00000027	0.000000658
PTPRO	1.581089	5.941952251	0.00000027	0.000000658
AL136295.5	1.078737	-0.252274755	2.78E-07	0.000000678
POTEF	1.988663	-1.569629303	2.84E-07	0.000000691
COL6A6	2.115467	-1.010885314	2.93E-07	0.000000713
FLRT2	-1.01777	2.574857946	3.06E-07	0.000000744
CCDC88B	1.298343	5.982979195	3.09E-07	0.000000751
SYCP2	1.758207	1.199954635	0.00000031	0.000000753
RPS6KA6	-1.19979	3.025074798	3.11E-07	0.000000755

CD8A	-1.02278	3.083867752	3.19E-07	0.000000774
HIST1H2BH	2.022673	1.360111566	3.21E-07	0.000000778
UST	-1.11651	1.902379883	3.22E-07	0.000000781
DCDC2	1.998555	2.219666182	3.28E-07	0.000000794
ADAMTS4	1.083367	4.464552455	3.34E-07	0.000000806
POPDC3	-1.35274	-1.020281538	3.34E-07	0.000000808
IRX2	2.718678	2.583098407	3.34E-07	0.000000808
HSD3B1	-1.54045	-0.415082689	0.00000034	0.00000082
PDE4C	-1.01113	3.770982319	3.48E-07	0.00000084
C11orf65	1.22242	-0.714595983	0.00000035	0.000000844
GABRB1	2.122408	-1.055232209	3.51E-07	0.000000846
COL26A1	1.798636	-1.628593526	3.52E-07	0.000000849
PCSK1	2.777195	4.937498181	3.58E-07	0.000000861
MMP9	1.430364	5.788077581	3.86E-07	0.000000926
SFTPD	-1.34331	-2.200999825	3.88E-07	0.000000932
CEBPE	-1.37957	-1.562650889	0.00000039	0.000000935
RAMACL	2.277242	-2.085117662	3.92E-07	0.000000941
IGFN1	2.154794	0.757637307	3.94E-07	0.000000946
ZBED2	1.709476	0.311158355	4.08E-07	0.000000978
TRPA1	-1.13176	3.23439015	4.09E-07	0.000000979
POSTN	1.438369	7.555378972	0.00000041	0.000000981
MOV10L1	1.201183	-0.967062201	4.11E-07	0.000000983
ALK	-1.70888	-1.573346845	4.15E-07	0.000000994
HS3ST3A1	1.208389	0.274983208	4.32E-07	0.00000103
SCARF2	1.092371	3.334573313	0.00000044	0.00000105
KCND3	-1.06077	2.639002815	4.44E-07	0.00000106
CAVIN4	1.038342	-1.468134854	0.00000045	0.00000107
NDNF	-1.03004	2.621118539	4.52E-07	0.00000108
CDRT1	1.441205	-1.956979355	4.56E-07	0.00000109
NFE2	1.75596	0.415646223	4.64E-07	0.00000111
EML5	-1.23263	-1.355407306	4.78E-07	0.00000114
PSAPL1	3.814924	-1.602030449	4.83E-07	0.00000115
LDLRAD1	1.811239	-1.408492355	5.06E-07	0.0000012
POU6F2	3.257658	1.070471774	0.00000051	0.00000121
TGFBR3L	-1.24505	-1.561918077	5.12E-07	0.00000121
XAGE2	5.014632	-2.031301139	5.23E-07	0.00000124
FBXL16	1.366444	3.114776764	5.25E-07	0.00000124
MAP7D2	2.222259	3.395218488	5.27E-07	0.00000125
ASB4	2.286226	-0.405167374	0.00000054	0.00000128
PROM2	-1.10812	5.178336845	5.54E-07	0.00000131
TRNP1	1.568936	3.37278342	5.62E-07	0.00000133
GOLGA8A	1.274347	3.734016556	5.75E-07	0.00000135
ANKRD61	1.13077	-0.424291431	5.95E-07	0.0000014
NCAM2	-1.07419	0.663862197	5.98E-07	0.00000141
AC009336.2	-1.10247	-2.263735836	5.98E-07	0.00000141
COL4A5	-1.05144	2.281499514	5.99E-07	0.00000141
KCNT1	2.01803	-0.035284788	0.0000006	0.00000141
DWORF	4.014593	-2.213315656	6.06E-07	0.00000142
KRT13	2.805321	-0.170116131	6.07E-07	0.00000143
STMN3	1.319755	5.17781564	0.00000061	0.00000143
MUCL1	3.189986	-0.836009932	6.13E-07	0.00000144
AK5	-1.11901	-0.357964224	6.14E-07	0.00000144
BTBD11	1.376396	1.71360076	6.29E-07	0.00000148
CT83	5.508919	-1.505235058	6.43E-07	0.00000151
SLC13A5	2.128447	-1.165710369	6.46E-07	0.00000151
CDH4	1.399379	-0.25059533	6.54E-07	0.00000153

MXRA5	1.215164	6.619116992	6.62E-07	0.00000155
NPTXR	-1.13151	2.662938196	6.84E-07	0.0000016
DAB1	-1.26783	0.566394232	6.89E-07	0.00000161
C4BPB	1.188	3.333148652	6.92E-07	0.00000162
ZNF385D	-1.16242	-0.106134251	6.98E-07	0.00000163
FMO3	1.009911	0.241604636	7.09E-07	0.00000165
ANO1	1.208894	5.301391925	7.15E-07	0.00000167
PIP5KL1	1.142967	-0.580999224	0.00000073	0.0000017
MAGEC2	4.766543	-2.426844639	0.00000073	0.0000017
GRIK2	-1.18422	-0.761688827	7.31E-07	0.0000017
CA6	3.487285	-1.731199375	7.59E-07	0.00000176
NIPAL4	-1.1871	-0.068818642	7.61E-07	0.00000177
FGF7	-1.10853	2.711332746	7.71E-07	0.00000179
CYP4F2	-1.34506	3.495591841	0.00000078	0.00000181
OCLM	1.78434	-1.187495524	7.87E-07	0.00000183
ELFN2	1.937949	-0.40301111	7.92E-07	0.00000184
C1QL1	-1.05506	-0.10440273	7.99E-07	0.00000185
EN1	2.856143	-2.413136505	8.17E-07	0.00000189
CNBD2	1.552295	-1.253651889	8.37E-07	0.00000194
NPAS3	-1.19125	-0.676533119	8.44E-07	0.00000195
HIST1H3C	3.518137	0.79312089	8.76E-07	0.00000202
TUBB2B	-1.15623	1.675453137	9.42E-07	0.00000217
CCDC33	1.688508	-2.276228913	9.46E-07	0.00000217
TCAP	1.603989	0.430392565	9.64E-07	0.00000221
CALCB	4.525904	2.656593597	9.86E-07	0.00000226
CRABP2	1.531347	3.058966288	9.86E-07	0.00000226
ZDHHC11	1.421025	1.322534516	9.88E-07	0.00000227
WIF1	3.537134	2.244325875	9.89E-07	0.00000227
KLF15	-1.03212	0.862713114	9.91E-07	0.00000227
PALM2-AKA	1.459999	-1.579071209	9.99E-07	0.00000229
MSMB	4.15106	-1.05717091	0.00000104	0.00000238
XCR1	-1.19627	0.233629118	0.00000104	0.00000239
CYTL1	-1.03473	-0.606216687	0.00000106	0.00000243
CDH7	2.500792	-1.414038943	0.00000108	0.00000247
ALPK2	1.206063	0.783684161	0.00000109	0.0000025
PLA2G2D	-1.3785	1.420048055	0.00000111	0.00000254
FOXO6	1.124547	0.627880127	0.00000111	0.00000255
CECR2	1.918659	1.21998472	0.00000117	0.00000267
MUC4	-1.18649	6.781534867	0.00000118	0.00000268
DPP10	-1.69694	1.297272213	0.00000119	0.00000271
KCTD4	-1.71748	-1.174497118	0.00000119	0.00000271
SPTBN4	-1.11977	-0.127605907	0.00000119	0.00000272
ZNF804A	-1.06174	-1.480970278	0.00000121	0.00000276
KCTD16	2.088494	-0.147480228	0.00000123	0.00000279
MPIG6B	1.141123	-0.087353441	0.00000127	0.00000289
NUTM2B	-1.05357	-2.320439427	0.00000133	0.00000302
HPN	2.360776	2.179086612	0.00000134	0.00000303
SOSTDC1	-1.23177	2.785477819	0.00000134	0.00000304
THRSP	-1.5933	-1.731936577	0.00000135	0.00000305
REG4	2.591743	9.397180058	0.00000136	0.00000308
WFIKKN2	-1.36543	-2.292719366	0.00000136	0.00000308
BBOX1	2.736289	-1.206766881	0.00000138	0.00000312
PNMT	2.219137	-0.468399938	0.00000138	0.00000312
ANKRD31	1.352534	-2.047267588	0.00000139	0.00000314
ZMYND10	1.109234	-0.459196974	0.00000143	0.00000323
ODF3L2	1.339612	-1.35189755	0.00000146	0.00000329

ABCC9	-1.00807	2.127081931	0.00000147	0.00000332
RGL3	1.445214	2.764697607	0.00000152	0.00000343
AL136531.2	-1.06786	-0.311689849	0.00000154	0.00000347
RETN	1.946954	-1.789742098	0.00000159	0.00000357
AGR3	-1.0907	5.453249786	0.00000163	0.00000367
CLDN20	1.786261	-0.995916326	0.00000164	0.00000367
CAMK2N2	1.612059	-0.756724526	0.00000169	0.0000038
LCN15	3.417041	5.572397567	0.0000017	0.00000381
TAS2R19	2.066616	-1.750414216	0.00000171	0.00000382
HS6ST3	-1.55251	-1.836236838	0.00000174	0.0000039
METTL27	1.187454	3.151908496	0.00000176	0.00000394
MAGEB2	5.35491	-0.759716691	0.00000177	0.00000395
IL13RA2	1.290011	0.071501627	0.00000184	0.00000411
IQUB	1.23698	-1.863775565	0.00000189	0.00000422
BATF	1.129694	2.410112826	0.00000196	0.00000436
RBP1	1.51579	4.464960248	0.00000203	0.00000451
SLN	1.954368	-1.457591977	0.00000207	0.00000458
GDF5	-1.40303	-2.104506125	0.00000209	0.00000464
AC013394.1	2.078146	0.853732218	0.0000021	0.00000467
WNT7A	2.909176	-1.657043437	0.00000216	0.00000478
CCL3	1.207996	2.524525842	0.0000022	0.00000487
HIST1H1C	-1.08077	4.892850875	0.00000226	0.00000499
SLC24A2	1.702743	-0.667051597	0.00000226	0.000005
SFTPB	2.979181	0.520893374	0.00000228	0.00000504
SPDYE5	1.301106	-0.671076504	0.00000231	0.0000051
STAC2	-1.28991	-1.794952222	0.00000235	0.00000518
ZBTB20	1.87514	1.31913613	0.00000237	0.00000522
FOSB	-1.19052	5.476590831	0.00000238	0.00000524
MTNR1A	-1.1682	-1.026759472	0.00000244	0.00000538
GCNT7	1.68545	-1.023843859	0.00000251	0.00000552
TKTL1	3.57717	0.664583054	0.00000251	0.00000553
GJB7	2.8999	-1.218062536	0.00000252	0.00000554
FOXG1	3.626818	-1.318758724	0.00000276	0.00000606
SFTA3	4.78837	-2.014537671	0.00000279	0.00000611
ECEL1	1.688376	-0.301018133	0.0000028	0.00000614
OPRD1	1.988427	0.569150307	0.00000286	0.00000626
CRCT1	4.665999	-2.270828291	0.00000293	0.00000641
TTLL2	1.037249	-0.199700714	0.00000302	0.00000659
INSYN2B	2.185093	-1.900302586	0.00000309	0.00000673
CYP2C9	-1.34727	0.09974695	0.00000313	0.00000682
MSH4	1.820071	-1.123692842	0.00000316	0.00000689
TAS2R13	3.766042	-2.082706355	0.00000321	0.00000698
CNDP1	2.239408	-0.947561895	0.00000323	0.00000703
BPIFB2	3.803827	-1.915249707	0.00000328	0.00000712
PAGE1	4.86892	-2.018190688	0.0000033	0.00000717
VSIG1	1.980282	0.646332636	0.0000033	0.00000717
CPB1	-1.88486	-1.33228714	0.00000334	0.00000725
KCNK15	1.679882	0.743439003	0.00000344	0.00000745
VAX1	3.74847	-1.815252007	0.00000349	0.00000757
CSF3	1.805602	1.682831317	0.00000351	0.0000076
ADD2	-1.20345	0.008904332	0.00000356	0.00000771
MEIG1	1.169277	-2.185094916	0.00000359	0.00000776
APOLD1	1.305855	5.666815409	0.00000367	0.00000792
OR2IIP	1.515132	3.881750553	0.00000373	0.00000805
SCML2	1.002468	2.021163066	0.00000381	0.00000822
FGL1	3.449609	-0.896335206	0.00000389	0.00000838

H3F3C	1.091355	-0.566088967	0.00000391	0.00000843
WFDC13	1.955565	-2.080251834	0.00000398	0.00000855
COL9A2	1.141494	4.238191957	0.00000401	0.00000863
UMODL1	1.584815	0.576813	0.00000407	0.00000875
IFI44	1.036183	3.700126073	0.00000408	0.00000878
REEP1	-1.14527	3.197744342	0.00000422	0.00000906
GMPR	1.119501	3.627564563	0.00000427	0.00000915
OXGR1	1.43858	2.644899504	0.00000432	0.00000926
KLHL38	-1.04759	-1.95574448	0.00000435	0.00000932
TCP10	-1.11881	-1.666399592	0.00000442	0.00000946
GPR174	-1.0845	-0.901769054	0.0000045	0.00000962
TPGS1	1.016694	2.838181509	0.00000462	0.00000987
TMEM213	2.587038	-1.678515536	0.00000462	0.00000987
GRM4	2.137398	-0.042098321	0.00000473	0.0000101
FCAR	1.743132	-0.597663138	0.00000475	0.0000101
KLRC1	-1.0951	-1.160215097	0.00000497	0.0000106
GPC5	-1.376	-1.866855492	0.00000501	0.0000107
AMZ1	1.298662	-0.74716612	0.00000519	0.000011
PRSS50	2.227572	-2.141660334	0.00000536	0.0000114
CRYBA2	-1.38229	-0.468319491	0.00000543	0.0000115
CFAP46	1.880261	-1.016881174	0.00000545	0.0000116
FGA	2.074993	-0.232187262	0.00000549	0.0000116
RBM44	1.25585	-0.820479049	0.0000057	0.0000121
CCDC154	1.166869	-0.888641803	0.00000577	0.0000122
CCDC175	1.407955	-1.064849343	0.00000582	0.0000123
DCDC2B	1.497657	-1.650016784	0.00000588	0.0000124
SLC22A2	1.62215	-1.413518646	0.00000588	0.0000124
CLC	-1.53934	1.088304317	0.00000597	0.0000126
ADRB1	-1.05671	0.350223749	0.00000597	0.0000126
FABP4	-1.62158	2.682520476	0.00000599	0.0000126
TENM4	1.084786	2.288011893	0.00000623	0.0000131
SLC8A3	-1.2468	-1.417971	0.00000653	0.0000137
HYDIN	1.969651	-1.854963871	0.00000674	0.0000141
CAPS	1.02136	4.144389449	0.0000069	0.0000144
RSPO4	2.486735	-0.756181996	0.0000072	0.000015
SAA1	1.990873	3.990640219	0.00000727	0.0000152
ZNF66	1.106482	0.295463129	0.00000738	0.0000154
TEX43	-1.09444	-0.837063655	0.00000771	0.0000161
REG3A	3.308492	7.78889328	0.00000773	0.0000161
EFCAB13	1.094371	1.528399794	0.0000079	0.0000164
ERVW-1	2.188818	-0.912023433	0.00000791	0.0000164
HOXB6	1.023212	5.345167816	0.00000807	0.0000168
GREB1L	2.024213	0.330054237	0.00000828	0.0000172
TENM1	-1.34416	-0.864569194	0.00000836	0.0000174
PACSN3	1.007016	4.352738605	0.00000857	0.0000178
LYZ	1.509615	9.224593565	0.00000862	0.0000179
KLHL32	1.198126	1.254391199	0.00000877	0.0000182
CFAP54	-1.00788	-1.249587469	0.00000883	0.0000183
COL9A1	1.45288	2.218409998	0.00000889	0.0000184
RAET1E	1.149283	-0.329313511	0.00000897	0.0000186
TNR	-1.10707	-1.920565204	0.00000907	0.0000188
NRCAM	1.433495	2.509744853	0.0000091	0.0000188
SPIN2A	1.926654	-1.206848236	0.00000951	0.0000196
IL1RL2	1.132251	1.47066123	0.00000956	0.0000197
XKR9	1.490931	1.635122822	0.00000974	0.0000201
KYNU	1.061795	2.448527169	0.00001	0.0000207

KCNE1B	3.722333	-1.514227754	0.0000101	0.0000209
ATOH1	-1.22715	4.517627096	0.0000102	0.0000209
ADAMTS18	1.40379	-0.870206699	0.0000107	0.0000219
PRH2	2.106095	-2.290672821	0.0000107	0.0000219
HOXC6	1.95318	1.12135806	0.0000108	0.0000222
XCL1	-1.11184	-1.04555517	0.0000109	0.0000224
TFF1	1.760414	7.29950434	0.0000113	0.0000232
KCNMB2	-1.20194	-2.063750435	0.0000116	0.0000237
SPRR2F	4.733638	-1.250453505	0.0000116	0.0000237
HUNK	1.111514	5.190953821	0.0000119	0.0000244
SERPINB13	4.605721	-2.146648447	0.0000119	0.0000244
CLEC6A	1.689104	-2.292377641	0.0000124	0.0000253
CTAG2	4.648571	-1.843548185	0.0000126	0.0000257
TSPOAP1	1.284425	4.390050523	0.0000128	0.0000261
ISYNA1	1.048367	4.359916848	0.0000133	0.000027
SEN3-EIF4A	1.105671	-1.990157139	0.0000135	0.0000274
VNN1	1.763822	3.849170923	0.0000135	0.0000274
SNCAIP	1.236435	2.718170926	0.0000135	0.0000275
CCL3L1	1.343829	1.505974971	0.0000135	0.0000275
SLFNL1	1.048963	-0.947481629	0.0000137	0.0000279
PLA2G4D	1.238522	-0.055632682	0.0000143	0.000029
GRIK1	-1.15555	-1.259053304	0.0000145	0.0000293
LRRC74A	1.510252	-2.35451034	0.0000145	0.0000293
RASAL1	1.079751	4.014105605	0.0000146	0.0000296
GLYATL2	1.817314	-1.509728436	0.0000148	0.0000299
TMEM178B	1.598918	2.639171209	0.0000149	0.0000302
ADAM20	2.342069	-2.20954576	0.0000154	0.000031
FAM72C	1.287441	-1.737520728	0.0000158	0.0000318
NPR3	-1.16417	1.7339275	0.0000158	0.0000318
NKX6-3	3.627403	0.165281191	0.0000162	0.0000327
LRRK2	-1.00403	2.254833316	0.0000164	0.000033
CPNE4	-1.37794	-1.390359312	0.0000165	0.0000332
RBP4	1.430582	4.029042689	0.0000166	0.0000333
PPP1R1C	1.136379	-0.459652535	0.0000169	0.0000339
C2orf66	1.452658	-1.987289599	0.0000173	0.0000347
LIN28B	4.620879	-1.607414874	0.0000176	0.0000352
TAS2R4	1.251734	-0.446019808	0.0000177	0.0000354
MEOX2	-1.15946	0.526620865	0.0000179	0.0000358
TDRD5	1.224732	1.301391009	0.000018	0.000036
RASGRF1	1.28835	1.086977129	0.0000182	0.0000363
CDH16	2.258569	1.339704369	0.0000187	0.0000374
C17orf78	-1.73987	1.119353023	0.0000192	0.0000382
HIST4H4	1.30447	1.170128079	0.0000193	0.0000385
ADGRF2	1.600342	-2.21750974	0.0000196	0.000039
PRRT4	-1.231	-1.352341867	0.0000196	0.0000391
RNASE7	1.46481	-1.268086289	0.0000198	0.0000394
SULT1C3	2.276346	-0.417284015	0.00002	0.0000398
GSTM1	-1.31798	2.531963757	0.00002	0.0000399
BRINP2	-1.35112	-2.432428985	0.00002	0.0000399
FZD9	1.598045	0.206403165	0.0000204	0.0000406
VWCE	1.225507	0.683425495	0.0000205	0.0000408
KANK4	-1.00917	0.670353087	0.0000211	0.000042
ARID3C	1.109014	-2.016673555	0.0000213	0.0000422
TMEM151A	1.537811	-0.203230111	0.0000217	0.0000431
RRH	1.049855	-2.323811864	0.0000222	0.000044
HIST1H2BG	1.844589	2.438001201	0.0000223	0.0000441



TBX18	1.657058	1.858301825	0.0000232	0.0000458
BPIFB1	3.298991	-1.549137908	0.0000248	0.0000488
GUCY2D	1.286135	-1.904878633	0.0000251	0.0000495
SH3GL2	-1.34224	-1.059651064	0.0000256	0.0000503
LMOD3	1.133442	-1.071317828	0.0000258	0.0000508
EIF2S3B	1.080262	0.743592254	0.0000272	0.0000533
KRT40	2.271778	1.308266412	0.0000273	0.0000536
TNFRSF19	1.42399	2.675848804	0.0000273	0.0000536
CSMD1	-1.26023	-1.969114681	0.0000276	0.0000541
LINGO1	1.046667	2.584847409	0.0000287	0.0000562
REG3G	3.809208	-0.286391885	0.0000303	0.0000591
SMOC1	1.785485	3.47929849	0.0000312	0.0000608
ALAS2	-1.13854	-1.82835615	0.0000313	0.0000609
APOC1	1.079653	4.347403026	0.0000319	0.0000621
ALX1	2.791512	-2.371160996	0.0000339	0.0000658
UPK3A	1.640721	1.191214007	0.0000347	0.0000673
QPRT	1.108629	6.352701596	0.0000351	0.0000679
OTC	-1.30121	1.886175825	0.0000355	0.0000686
CD1A	1.098611	-0.433700701	0.0000367	0.000071
COL11A2	1.275436	0.691221463	0.0000374	0.0000722
SHF	1.015531	3.875810959	0.0000377	0.0000729
EFCAB8	1.343689	-1.77107039	0.0000388	0.0000749
OCA2	1.674531	0.797213216	0.0000394	0.000076
TAS2R31	1.858253	-1.857387098	0.0000403	0.0000776
PLCH2	1.089054	2.638273346	0.0000446	0.0000855
ELMOD1	-1.06712	-2.35092217	0.0000454	0.000087
ZNF492	-1.30108	-2.010988326	0.0000458	0.0000876
CLEC18B	1.22589	-2.22042135	0.0000459	0.0000878
STXBP5L	-1.30393	-1.072239324	0.0000471	0.00009
ANKLE1	1.086605	-0.219593779	0.0000473	0.0000903
IL37	1.467275	-0.994403107	0.0000484	0.0000924
ISM1	1.251945	1.301504644	0.0000485	0.0000926
TNNC2	1.401244	3.945949923	0.0000499	0.0000952
CCDC190	2.818136	-1.734971668	0.0000507	0.0000966
PTGS2	1.327083	4.27929805	0.0000516	0.0000981
44077	1.077626	1.484178975	0.0000516	0.0000982
IFNK	3.992315	-2.036906778	0.0000522	0.0000992
BTBD18	2.1335	-1.703460322	0.0000525	0.0000998
MRLN	2.535544	-0.872826593	0.0000561	0.000106294
KRT81	1.52841	-0.393418072	0.0000564	0.000106873
CLDN10	2.45351	-0.122389219	0.0000569	0.000107803
HMX2	-1.48236	-2.353154203	0.0000603	0.000113791
FREM1	1.387704	4.377333932	0.0000617	0.000116242
LHFPL4	-1.50087	-0.569067118	0.0000619	0.000116671
AXDND1	-1.07632	1.691260647	0.0000629	0.000118458
KNDC1	1.179953	0.370739694	0.0000636	0.000119669
SAA2-SAA4	2.249023	-0.434345736	0.0000638	0.000120031
ANKK1	1.084419	-1.265599299	0.0000655	0.000123147
ADCYAP1	-1.0406	0.149235612	0.0000662	0.000124398
APCDD1L	-1.05625	-0.441247634	0.0000687	0.000128892
FAM183A	1.394183	-1.351504676	0.0000689	0.000129217
MYT1	1.374541	-0.063452795	0.0000694	0.000130177
ZNF727	-1.25424	-2.305104216	0.0000706	0.000132283
FCGR3A	1.029908	5.071928612	0.0000725	0.000135531
TRPV6	2.101703	0.870662189	0.0000759	0.000141688
ELOVL3	1.171461	-1.599951145	0.0000771	0.000143681

ADAM32	1.063282	1.692350739	0.0000781	0.00014542
PNPLA1	1.080913	-0.246757051	0.0000784	0.000145945
GPR22	2.576187	-0.531612822	0.0000795	0.000147866
SPDYE2	1.282753	-1.886854582	0.0000796	0.000148101
PLPPR1	1.7502	0.271686391	0.0000819	0.000152064
TTL10	1.014052	-1.003739253	0.0000848	0.000157169
URAD	-1.29313	3.116437664	0.0000863	0.000159731
ALPP	2.101219	-0.251463833	0.0000868	0.000160575
TRPM8	1.642581	-1.905979495	0.0000873	0.000161598
PLEKHD1	1.072201	-2.43547146	0.000088	0.000162734
BST2	1.02535	6.443294977	0.0000921	0.000169874
DUOXA2	1.760121	5.201775363	0.0000925	0.000170582
OPCML	1.151476	-0.989512546	0.0000928	0.00017118
44166	1.272783	-0.891681412	0.0000935	0.000172493
TRARG1	-1.8128	-0.094051278	0.0000948	0.000174659
KRT36	1.348958	-1.511802531	0.0000953	0.000175457
CD164L2	1.160432	-1.080880872	0.0000959	0.000176537
TTN	1.35489	3.500778899	0.0000971	0.000178618
RASGEF1A	1.39799	2.118427371	0.0000976	0.000179598
SYN3	1.577048	1.62611433	0.0000985	0.000181024
SOD3	1.073286	6.78144872	0.0000989	0.000181607
STPG3	1.019043	-1.18911167	0.00010237	0.000187924
TMEM272	1.183415	-2.134876841	0.00010627	0.00019487
ARL9	1.099607	-0.850674652	0.0001065	0.000195273
SMTNL1	1.178511	-1.327455728	0.00010862	0.000198964
HIST1H3G	1.617073	1.563107778	0.00010942	0.000200305
CACNA1E	1.431568	0.367265961	0.00010984	0.000200982
FBN3	1.8641	-2.313692378	0.00011002	0.000201275
BCL2A1	1.012283	2.461384838	0.00011272	0.000205924
SCUBE3	1.178429	2.333025921	0.00011288	0.000206167
GABRA4	1.953779	0.469018233	0.00011675	0.000212896
PCDH9	-1.11184	0.4876986	0.00011894	0.000216711
ANKFN1	1.246951	-0.722226265	0.00011956	0.000217787
NPPC	-1.1728	-2.299056209	0.00012129	0.000220808
FAM221B	1.020467	-1.220202977	0.00012138	0.000220968
AKR1B15	-1.19143	-0.865380169	0.00012271	0.000223164
PCDHB8	1.66164	-0.339871077	0.00012498	0.000227043
RORB	-1.07238	-1.392523118	0.0001264	0.000229541
MPO	1.004649	-1.291198687	0.00012753	0.000231575
C5orf58	1.503981	-1.244386017	0.00013402	0.000242579
GALNT9	1.633884	0.44510448	0.00014124	0.000254811
FBXO40	3.646848	-1.029975959	0.00014191	0.000255883
FOXC2	1.175552	0.047494012	0.00014703	0.000264533
NME9	1.159416	-0.912723082	0.00015119	0.000271755
KCNS1	1.286435	-1.829777562	0.00015145	0.000272197
SLC30A2	1.595065	1.938934086	0.00015867	0.000284306
GDF6	-1.00618	-1.200112101	0.00016107	0.000288456
SERPINE3	1.076667	-2.152122252	0.00017024	0.000304316
AGBL4	1.31468	-1.197805423	0.0001713	0.000306017
CYP24A1	1.669743	0.382110677	0.00017151	0.000306333
KRT14	3.289878	2.227922631	0.00017321	0.000309296
SLC9C1	1.350722	-0.218192098	0.00017402	0.000310641
PCP4	-1.31467	2.033341671	0.00017458	0.000311582
LRRN1	1.371804	1.350408909	0.00018526	0.00032981
S100A9	1.0016	5.237767958	0.00018532	0.000329886
UPK3B	1.152386	0.39164828	0.00018655	0.000331925

ACMSD	1.6148	-2.220912267	0.00018763	0.00033367
BPIFA1	3.856645	-2.123030227	0.00019061	0.000338685
SLC6A4	-1.1147	2.242041719	0.00019336	0.00034321
CHST8	-1.25676	-2.257195717	0.00019586	0.000347365
PSD2	1.0364	-1.333981763	0.00019754	0.000350221
RBM11	1.069134	0.174591399	0.00020227	0.000358091
DCT	2.055223	-0.445728171	0.0002111	0.00037268
TAF7L	1.036201	-1.886831975	0.00021282	0.000375587
ANXA8	2.35821	-1.643251174	0.0002136	0.000376797
GBP6	1.535942	-2.250846618	0.00022006	0.000387523
CDH26	1.10274	-0.240970641	0.00023446	0.000411433
SOAT2	-1.38665	-1.430550705	0.00024182	0.000423871
SUMO4	1.294503	-2.30209294	0.00024357	0.000426871
IL33	1.042242	5.510345413	0.00024431	0.000428096
PRB3	1.033484	-2.277971656	0.00024531	0.000429668
CHGB	-1.35556	2.884982944	0.00024631	0.000431269
C2orf91	1.9858	-2.397927311	0.00025182	0.000440642
SYNPR	1.900253	-0.126831026	0.00025577	0.000447198
CD1B	1.09598	-1.404050375	0.00025776	0.000450467
NPIPB13	1.257526	-0.26277069	0.00028151	0.000489576
EDDM13	1.262045	-0.904486006	0.00028529	0.000496021
IGLL1	-1.15956	-2.118693224	0.00028656	0.000497895
DCHS2	-1.15982	0.313830819	0.00030153	0.000522561
PKD2L2	1.384133	-2.165849107	0.00033541	0.000578343
CBLN1	1.389426	1.08099503	0.00033595	0.000579175
BARX1	1.781728	-0.339246764	0.00034626	0.000596142
GAL	1.246177	3.43443699	0.00034832	0.000599526
LIPC	-1.19206	0.702682934	0.00035886	0.000616792
NKX2-2	-1.31743	-1.526993596	0.00037452	0.000642027
NTSR1	-1.17493	2.18012454	0.00038167	0.000653904
VSTM2L	1.433422	2.338791274	0.00040936	0.000698583
PIPOX	1.232042	2.824922469	0.00041717	0.000710955
SFRP2	-1.0671	6.141868483	0.00042857	0.000729661
CDR1	2.699027	-2.140396605	0.00044025	0.000748361
GPR83	1.629061	-0.388621322	0.00044494	0.000756086
HTR1F	1.012928	-2.089506357	0.00045974	0.000779668
HIST1H2BC	1.437515	2.243364731	0.00046396	0.000786311
SDR16C5	1.158721	4.06983122	0.00048088	0.000814024
FAM155B	1.502758	1.714451984	0.00048333	0.000818104
SEZ6	-1.19598	-1.172071818	0.00050127	0.000846231
CBS	1.252104	-1.645060359	0.00051107	0.000862279
FPR2	1.306398	1.243096021	0.0005154	0.000869222
MTTP	-1.36578	3.078146355	0.00052138	0.000878804
CER1	2.345146	-2.374371676	0.00052266	0.000880817
TM4SF4	1.905469	3.212794131	0.00053697	0.000903579
HIST1H2AE	1.303413	1.882429392	0.00055517	0.000932669
HRNR	1.386834	-2.111600768	0.00058197	0.000975451
CLVS1	1.090474	-1.707450151	0.00063351	0.001057752
APOA2	2.286096	0.039184556	0.00065443	0.001090626
LRRTM4	-1.05851	-2.19369942	0.00066103	0.001100992
MARCO	-1.07856	2.716271308	0.0006775	0.001126779
HIST1H2AG	1.168858	2.592388696	0.00068538	0.001139138
PROK2	1.515231	0.180152321	0.00075924	0.001255753
PNLIP	3.487628	-2.440198238	0.00077422	0.001278445
ZNF541	1.201344	-0.158018676	0.00078486	0.001295087
FAM178B	1.003401	0.074084585	0.00079178	0.001305771

GABRA3	2.030041	-0.175394548	0.00082346	0.001355626
PTCHD4	1.198134	-0.102420968	0.00082404	0.001356346
MIA	1.402326	0.203896705	0.00083499	0.001373361
RPE65	1.79093	-1.755631852	0.00085155	0.001399697
SLC38A11	1.279074	1.920691832	0.00086207	0.001416189
ART3	1.234704	1.402927707	0.00089078	0.001460771
HOXC9	1.283118	-0.934286967	0.00089127	0.00146146
DLK1	2.704933	-1.534111626	0.00089703	0.001470427
NHLH2	2.231061	-1.744367996	0.00090831	0.001488208
ART5	1.020715	-1.275481617	0.00091177	0.00149351
CLEC4D	1.313233	-1.712606627	0.00097326	0.001589135
REG1A	2.080469	9.202730925	0.0010033	0.00163559
PPP4R4	1.073515	-1.384886459	0.00106128	0.001725801
GJC2	1.081736	2.27045547	0.00111097	0.001803164
DLX2	1.338215	-1.630117566	0.00112824	0.001829737
SLC14A1	1.532579	3.165845266	0.00114089	0.00184907
NP1PB15	1.142658	1.8737372	0.00114839	0.001859899
TPSD1	-1.06367	0.610192188	0.00116434	0.001884232
HIST1H4F	2.741852	-1.891229636	0.00120292	0.001944044
HORMAD1	1.479489	-0.793336896	0.00125593	0.002025073
LBP	1.452114	0.003389791	0.00125809	0.002028231
GABRR1	1.774347	-1.24887472	0.00126515	0.00203849
FSTL4	1.201496	0.263563274	0.00130676	0.002101448
CIDEA	-1.59372	-1.731277947	0.00131249	0.002110427
ADIPOQ	-1.76985	1.564175899	0.00139759	0.002241086
CPA1	2.408607	-2.060362797	0.00139982	0.002244304
GRM1	1.29822	-2.233715483	0.00140767	0.00225618
SLC1A7	1.114141	2.91964101	0.00152956	0.002443302
ENTHD1	1.04021	-2.177704283	0.00154415	0.002464484
CCL18	1.135218	4.667208071	0.00154729	0.002468725
XG	1.08114	-0.404450256	0.00157341	0.002507447
NEUROD1	-1.49182	-0.071230748	0.00162059	0.002579022
XKR7	2.0116	-0.240433999	0.00164438	0.002614024
HIST1H4H	1.293802	1.564874163	0.00164889	0.002620783
C10orf67	1.090923	-1.977317139	0.00169053	0.002683623
LEP	-1.29994	-0.546832382	0.00174772	0.002770522
FOXJ1	1.367759	2.910340018	0.00178265	0.002824146
CRYBA4	1.034814	-1.818588012	0.00187936	0.00297158
UTS2	1.116448	-0.124776015	0.00196414	0.003098678
ITIH2	1.120178	-1.193462349	0.00199382	0.003143311
FAM83C	1.442041	-1.450565009	0.00209895	0.003298857
KRT39	1.423277	-1.948300236	0.00213464	0.003351329
HIST1H2AI	1.604558	1.451970475	0.00214458	0.003365646
DBH	1.203772	-0.579250087	0.00231084	0.003611022
SFTPC	3.077486	-0.097726366	0.00231459	0.003616594
PCDHGA8	1.375873	-1.46691225	0.00232497	0.003631713
TDRD1	1.55513	-0.15771433	0.00233137	0.003640867
PRSS21	1.724093	2.192551891	0.0025392	0.003948203
PTH2R	1.674566	-1.462444852	0.00272828	0.004226112
FRMPD3	1.024843	0.374393133	0.00308185	0.004741042
IGDCC3	1.631878	-1.116030681	0.00312597	0.004806016
HOXC10	1.52766	-0.622839704	0.00329979	0.005058393
MLN	2.133703	-2.403011564	0.00335823	0.005141794
RBFOX1	-1.0053	-0.7095981	0.00338713	0.005180983
TBXT	1.966903	-2.025718714	0.00339442	0.005190967
ELOVL2	1.030626	-0.396380519	0.00358448	0.005466206

DYDC2	1.618525	-1.948517886	0.00379849	0.005774278
CCDC169	-1.02328	-1.498637703	0.00458353	0.006901847
SLC34A2	1.504263	0.208336433	0.00476896	0.007167314
CNGB3	1.071662	-2.204238744	0.00492696	0.007394962
CELA3A	-1.07089	-2.19923948	0.00514148	0.007699959
ANKRD30B	1.44621	-1.348028502	0.0056992	0.008486003
CTSE	1.296093	6.167210033	0.00573177	0.008530137
SOX2	1.584305	1.783718787	0.00580488	0.008630134
COL2A1	1.451206	1.863666432	0.00594077	0.008824443
SMIM18	1.476602	-2.220677354	0.0061948	0.009177067
PNLDC1	1.042973	-1.676311909	0.00623396	0.009231062
SULT1C4	1.105108	1.501288746	0.00694432	0.010233924
INSYN2	1.05456	-0.366266	0.00713258	0.010499226
SLC6A15	-1.08075	-1.296281545	0.00728633	0.010714733
RPRML	1.463311	-2.336588795	0.00730929	0.010744622
MTRNR2L3	1.007286	-1.301676155	0.00734077	0.01078701
GDF10	1.494702	1.106967575	0.00804774	0.011771627
SCEL	1.156807	1.82354577	0.00806041	0.011788467
ZP2	1.01051	-0.917899496	0.00809678	0.011837413
RBP3	1.344795	-1.944187056	0.00882256	0.012841457
NBPF6	1.155871	-2.038241888	0.00896019	0.013026907
REG1B	1.841016	6.733784249	0.00940625	0.01363172
SULT1E1	1.325691	0.530957533	0.00957405	0.013866034
SLC39A2	1.294941	2.390174975	0.00985947	0.014245023
NEUROD2	1.189486	-2.320355315	0.00988787	0.014285048
ALB	1.847751	0.739569802	0.00996882	0.014396783
OLFM4	1.096912	10.95448333	0.01124575	0.016139373
VRTN	1.033147	-1.113253515	0.01138003	0.016317153
FGG	1.647832	-1.67754465	0.01139353	0.016335367
HRASLS	1.114533	-1.736239847	0.01174693	0.01680191
EMX1	1.106199	0.448003585	0.01197732	0.017103865
NLGN4Y	-1.01519	0.360883696	0.01257618	0.017907669
ZNF730	1.016905	-1.521050717	0.0128021	0.018219193
PON1	1.190898	-1.010021166	0.01282115	0.018243762
ALPG	1.249338	2.314758592	0.01394403	0.019731034
VWA5B1	1.31203	-0.082784915	0.01665902	0.023337041
ATP12A	1.443198	0.700312743	0.01829218	0.025481428
FOXI1	1.309778	-0.609577694	0.01950953	0.02707818
ABHD12B	1.068593	2.557269022	0.02049828	0.028366728
LRRTM2	1.004504	0.655675452	0.02050189	0.028369802
SFTPA1	1.718807	-0.687616565	0.02157964	0.029774327
MAEL	1.053553	-0.365225573	0.02275501	0.031307126
CBLN4	1.138223	-1.87632193	0.0241201	0.033060429
NKAIN2	1.114997	0.509123892	0.02505198	0.034252594
CYP1A1	1.523204	-0.274392173	0.02579657	0.035216281
QRFPR	1.280478	-1.80976761	0.02657842	0.036206196
SPINK4	1.005772	7.287928483	0.03322157	0.0445538
EMX2	1.244562	-0.981130716	0.03500012	0.046788356