

supplementary Table 1

id	logFC	AveExpr	t	P.Value	adj.P.Val	B
PACRGL	2.12784	8.468473	14.34171	3.72E-22	7.62E-18	39.97897
TTC21B	2.396608	8.978036	14.11486	8.36E-22	7.62E-18	39.18892
ZNF273	2.537343	9.195216	13.95995	1.46E-21	7.62E-18	38.64546
PNPT1	1.324461	10.19059	13.95743	1.47E-21	7.62E-18	38.63657
LILRB1	1.620886	9.364815	13.63215	4.79E-21	1.94E-17	37.48474
ACBD7	2.10588	8.164139	13.58729	5.64E-21	1.94E-17	37.32477
RAX2	2.376325	9.104268	13.44462	9.51E-21	2.81E-17	36.81418
SMCR5	2.743575	8.983701	13.3821	1.20E-20	3.09E-17	36.58959
TERF1	2.130588	8.5944	13.17218	2.60E-20	5.97E-17	35.83166
TNR	1.895449	7.366158	13.13496	2.98E-20	6.17E-17	35.69665
ARHGAP8	2.013771	8.202183	13.10404	3.34E-20	6.29E-17	35.58435
CNGB1	1.77259	7.812317	12.92728	6.46E-20	1.11E-16	34.93995
PPA2	1.459204	10.15234	12.74485	1.28E-19	1.98E-16	34.27057
GSR	1.705046	9.736318	12.73291	1.34E-19	1.98E-16	34.2266
LIN28	2.603898	7.659965	12.68222	1.62E-19	2.10E-16	34.03976
FLJ32784	2.209579	8.76542	12.67572	1.66E-19	2.10E-16	34.01576
ZNF786	1.656747	8.240833	12.66546	1.72E-19	2.10E-16	33.97792
FKTN	1.287652	9.324049	12.64083	1.89E-19	2.18E-16	33.88693
FGD2	2.014527	9.673196	12.6009	2.20E-19	2.40E-16	33.73929
XCR1	1.893088	7.605287	12.5634	2.54E-19	2.62E-16	33.60045
NPTX1	2.277526	7.415811	12.53465	2.83E-19	2.79E-16	33.49388
C2orf69	2.097993	9.797851	12.4859	3.40E-19	3.20E-16	33.3129
OR6X1	1.034787	6.867085	12.47418	3.55E-19	3.20E-16	33.26935
LOC90586	2.230207	9.727103	12.46074	3.74E-19	3.23E-16	33.21941
GALNT3	1.393314	7.210788	12.43283	4.16E-19	3.44E-16	33.11557
OCIAD1	1.075787	11.28515	12.38274	5.03E-19	4.00E-16	32.92898
SFTP8	1.64182	7.211016	12.37255	5.23E-19	4.01E-16	32.89099
GJC1	0.866109	11.2262	12.33983	5.92E-19	4.38E-16	32.76885
ZNF266	1.597554	8.069446	12.26976	7.74E-19	5.52E-16	32.50689
HTR2A	2.937905	8.347487	12.22739	9.10E-19	6.27E-16	32.34819
OR2A12	1.334323	7.007939	12.21086	9.69E-19	6.27E-16	32.28621
SLC16A12	1.209795	10.94184	12.20249	1.00E-18	6.27E-16	32.25482
HSPC268	1.98314	8.159231	12.19488	1.03E-18	6.27E-16	32.22629
CYCSL1	2.029611	8.768694	12.19475	1.03E-18	6.27E-16	32.22576
SLC35F3	2.366717	7.559676	12.12365	1.35E-18	7.79E-16	31.95866
POU4F1	2.962533	8.029725	12.12325	1.36E-18	7.79E-16	31.95714
GYG2	1.59956	7.896889	12.09316	1.52E-18	8.32E-16	31.84389
NLRP8	1.662796	9.745601	12.08995	1.54E-18	8.32E-16	31.83183
TRIM16L	2.325843	9.934863	12.08533	1.57E-18	8.32E-16	31.81439
PRAMEF7	3.110577	7.824825	12.07796	1.61E-18	8.35E-16	31.78665
SERPINB6	-2.38912	9.325981	-12.0004	2.17E-18	1.08E-15	31.49408
LILRA6	1.870202	7.939954	11.99856	2.19E-18	1.08E-15	31.48711
FHL2	1.720342	8.669475	11.97998	2.35E-18	1.11E-15	31.41689
OR1J1	1.553368	7.309702	11.9782	2.37E-18	1.11E-15	31.41019
ECH1	-2.30106	8.288092	-11.9704	2.44E-18	1.12E-15	31.38081
SNRNP48	1.677244	9.808614	11.95217	2.62E-18	1.16E-15	31.31175
FLJ44124	1.728393	11.13532	11.94422	2.70E-18	1.16E-15	31.28166
SPDYE1	1.781361	7.331603	11.94035	2.74E-18	1.16E-15	31.26703
NME4	-1.51626	9.960672	-11.94	2.74E-18	1.16E-15	31.26567
RRP7A	-2.06307	9.349117	-11.8929	3.29E-18	1.36E-15	31.08746
ZNF430	1.873647	10.58551	11.85137	3.86E-18	1.57E-15	30.92975
CCBE1	1.295368	9.811031	11.70672	6.77E-18	2.69E-15	30.3794
POT1	1.444115	7.779291	11.69702	7.03E-18	2.75E-15	30.34241
GSDMA	1.291149	7.279798	11.65457	8.29E-18	3.18E-15	30.18035
ZNF826	1.784597	7.843111	11.64736	8.53E-18	3.21E-15	30.15282
FAM183B	2.678743	7.835654	11.59714	1.04E-17	3.83E-15	29.96077

GABPB2	1.628551	9.929237	11.5919	1.06E-17	3.84E-15	29.9407
ITPRIPL1	2.028704	7.685238	11.57889	1.11E-17	3.97E-15	29.8909
FAM123C	1.398076	6.999738	11.56946	1.16E-17	4.05E-15	29.8548
HECTD2	1.18862	8.258199	11.55239	1.23E-17	4.26E-15	29.78939
NUBPL	1.330752	10.62766	11.53948	1.30E-17	4.41E-15	29.73989
SNTN	1.90293	7.911916	11.53239	1.34E-17	4.46E-15	29.71274
ASPSCR1	-2.57588	9.550489	-11.5168	1.42E-17	4.66E-15	29.65301
UBL4B	2.431376	7.659793	11.49813	1.53E-17	4.94E-15	29.58126
FLJ40453	2.661057	9.640603	11.47492	1.67E-17	5.32E-15	29.49214
SRRM2	-2.29794	9.357245	-11.4697	1.71E-17	5.35E-15	29.47205
C2orf14	1.959933	7.91731	11.45868	1.78E-17	5.50E-15	29.42975
MRPL44	1.537152	10.48292	11.44083	1.91E-17	5.81E-15	29.3611
IL1F10	1.166493	6.944148	11.34685	2.76E-17	8.28E-15	28.99914
LOC34299	1.549839	7.063535	11.29377	3.40E-17	1.01E-14	28.79427
LOC55422	1.725154	7.348081	11.25119	4.02E-17	1.16E-14	28.62969
MIR551B	1.253295	6.971911	11.249	4.06E-17	1.16E-14	28.62122
CCDC144I	1.069778	7.05277	11.24607	4.10E-17	1.16E-14	28.60988
LIMS3	1.841722	7.656034	11.20227	4.88E-17	1.36E-14	28.44033
MIR125B1	2.245779	7.594347	11.17464	5.44E-17	1.50E-14	28.33323
PIGQ	-2.21835	9.45803	-11.1716	5.51E-17	1.50E-14	28.32157
MSH3	1.597124	10.69522	11.15414	5.90E-17	1.59E-14	28.25375
C21orf58	1.31723	8.035062	11.13093	6.46E-17	1.72E-14	28.16368
SLA2	2.143297	8.372093	11.11621	6.85E-17	1.80E-14	28.10652
RASSF7	-1.99866	8.535493	-11.0993	7.33E-17	1.87E-14	28.04089
LOC64699	2.039695	9.504462	11.09914	7.33E-17	1.87E-14	28.04019
PPP2R2B	1.977689	7.976461	11.0628	8.46E-17	2.14E-14	27.89894
CRCP	1.102194	8.501739	11.05837	8.61E-17	2.15E-14	27.88171
PSG7	1.022059	6.871718	11.01184	1.04E-16	2.55E-14	27.70059
KCNH6	0.959007	7.420214	10.99337	1.11E-16	2.71E-14	27.62859
GRM6	1.118917	7.062175	10.97146	1.22E-16	2.91E-14	27.54319
REXO1	-2.10738	8.448836	-10.97	1.22E-16	2.91E-14	27.53742
LOC10019	1.841316	8.761533	10.96104	1.27E-16	2.98E-14	27.50254
LOC26033	2.388604	8.553938	10.95152	1.32E-16	3.06E-14	27.46538
NDUFS7	-2.80444	9.336653	-10.9442	1.35E-16	3.12E-14	27.43688
ZCCHC2	-1.70164	7.721143	-10.9357	1.40E-16	3.19E-14	27.40347
SYVN1	-1.08483	7.805149	-10.9324	1.42E-16	3.19E-14	27.39079
CDCP1	1.187085	7.378585	10.92884	1.44E-16	3.20E-14	27.37688
TPM3	1.1302	10.2239	10.89353	1.66E-16	3.65E-14	27.23895
WFDC10A	1.661246	7.215647	10.87123	1.81E-16	3.94E-14	27.15175
NLRP7	0.947514	6.851658	10.85087	1.96E-16	4.23E-14	27.07209
RFX4	0.856365	6.995934	10.84273	2.03E-16	4.33E-14	27.04025
ALPP	1.701601	8.169042	10.8353	2.09E-16	4.39E-14	27.01117
CD300LD	1.886694	7.298692	10.83188	2.12E-16	4.39E-14	26.99776
GYPE	1.712225	7.239748	10.83162	2.12E-16	4.39E-14	26.99677
OR2G6	2.086643	7.411657	10.78912	2.51E-16	5.15E-14	26.83025
DEM1	1.431229	8.13461	10.78212	2.58E-16	5.21E-14	26.8028
LRP3	-2.68634	9.459322	-10.781	2.59E-16	5.21E-14	26.79841
CCDC90B	-1.55481	8.469641	-10.7772	2.63E-16	5.24E-14	26.78368
C1S	-2.16745	8.943368	-10.7725	2.68E-16	5.27E-14	26.76528
DUB3	3.126982	8.044079	10.77092	2.70E-16	5.27E-14	26.75889
LOC25516	1.744945	8.765462	10.76193	2.80E-16	5.38E-14	26.72365
OR4F5	1.062538	6.855198	10.76104	2.81E-16	5.38E-14	26.72015
LOC64543	2.751922	8.008923	10.7587	2.84E-16	5.38E-14	26.71098
ACADVL	-1.62372	8.624309	-10.752	2.91E-16	5.48E-14	26.68458
SORCS1	1.802261	7.428748	10.7485	2.95E-16	5.51E-14	26.67095
C2orf78	1.993575	7.576732	10.74544	2.99E-16	5.52E-14	26.65895
SNORD48	-3.11091	10.71455	-10.7238	3.26E-16	5.93E-14	26.5738
PCDH10	1.095153	7.045321	10.72194	3.28E-16	5.93E-14	26.56669

MTFMT	1.538442	8.126558	10.72101	3.30E-16	5.93E-14	26.56302
ALDH2	-2.195	8.672864	-10.7177	3.34E-16	5.93E-14	26.54986
C1orf110	3.574876	8.375673	10.71676	3.35E-16	5.93E-14	26.54633
LRTM1	1.290616	7.093654	10.71462	3.38E-16	5.93E-14	26.53793
CFL1	-2.17475	9.46425	-10.7053	3.51E-16	6.10E-14	26.50125
PHACTR4	1.467092	8.351942	10.70122	3.57E-16	6.15E-14	26.48529
MLC1	0.882098	6.890089	10.6986	3.60E-16	6.17E-14	26.47501
C1orf150	1.863961	8.03208	10.69196	3.70E-16	6.28E-14	26.44889
ZNF771	2.123113	8.511386	10.68681	3.78E-16	6.36E-14	26.42868
RPS27L	1.58513	9.055047	10.67715	3.93E-16	6.56E-14	26.39068
COASY	-1.81385	9.182182	-10.6397	4.56E-16	7.55E-14	26.24341
CTNNA1	-1.12015	7.720333	-10.6277	4.79E-16	7.86E-14	26.19598
LOC44142	2.20277	7.49647	10.61872	4.96E-16	8.09E-14	26.16079
ZNF765	1.933835	8.76328	10.61142	5.11E-16	8.22E-14	26.13203
CLDN14	1.446954	8.121592	10.61085	5.12E-16	8.22E-14	26.12977
RXR8	-1.79544	8.511053	-10.587	5.64E-16	8.90E-14	26.03569
ST20	1.882797	8.743734	10.5867	5.64E-16	8.90E-14	26.03461
LMX1B	2.130602	7.41987	10.58495	5.68E-16	8.90E-14	26.02774
NT5C	-2.21019	9.151782	-10.5833	5.72E-16	8.90E-14	26.0212
NEUROD4	1.823807	7.283822	10.58124	5.77E-16	8.91E-14	26.0131
FLJ46309	1.620617	9.600935	10.57883	5.82E-16	8.93E-14	26.00361
DEFA1B	2.421337	7.760813	10.57085	6.01E-16	9.15E-14	25.97216
GNPTAB	1.538073	8.362886	10.56414	6.18E-16	9.33E-14	25.94569
C19orf66	-2.36199	8.954442	-10.5623	6.22E-16	9.33E-14	25.93848
C11orf2	-2.58027	9.222489	-10.5521	6.48E-16	9.65E-14	25.89825
TSC2	-1.4445	7.994483	-10.5367	6.90E-16	1.01E-13	25.83728
CIAO1	1.007147	8.645787	10.53622	6.91E-16	1.01E-13	25.83553
FAM75B	1.712124	7.300375	10.53603	6.91E-16	1.01E-13	25.83478
RPL18	-2.80866	9.758902	-10.5303	7.07E-16	1.02E-13	25.81234
SNAPC1	1.826766	8.773679	10.5167	7.47E-16	1.07E-13	25.7585
RAB3IP	2.192391	9.62392	10.50773	7.75E-16	1.11E-13	25.72307
ZMAT5	1.350427	8.200634	10.50292	7.90E-16	1.12E-13	25.70407
CAMK2N1	-1.62895	8.554851	-10.501	7.96E-16	1.12E-13	25.69636
SEMA3E	1.074032	6.989194	10.48128	8.61E-16	1.20E-13	25.61857
CHRM2	1.054257	7.180374	10.45963	9.40E-16	1.31E-13	25.533
NYX	1.037303	6.974447	10.44931	9.80E-16	1.35E-13	25.49216
BDNF	0.957417	6.976208	10.44045	1.02E-15	1.38E-13	25.45711
GABRB1	1.954767	7.275002	10.44023	1.02E-15	1.38E-13	25.45625
OR6T1	1.034799	6.843251	10.43791	1.03E-15	1.39E-13	25.44708
LOC72938	3.060237	8.025885	10.42374	1.09E-15	1.44E-13	25.39102
CEP27	1.888843	10.17252	10.42361	1.09E-15	1.44E-13	25.39048
ARF4	-1.40514	8.276103	-10.4234	1.09E-15	1.44E-13	25.38961
SYAP1	1.501277	9.71286	10.41453	1.13E-15	1.49E-13	25.35457
OR2G2	2.612112	7.575876	10.40944	1.15E-15	1.51E-13	25.33441
PSG4	0.80301	6.843636	10.405	1.17E-15	1.52E-13	25.31683
DBNL	-1.0927	8.200387	-10.4029	1.18E-15	1.52E-13	25.30847
DUXAP3	1.943178	9.674321	10.40218	1.18E-15	1.52E-13	25.30568
NOG	2.852523	7.870333	10.39754	1.21E-15	1.54E-13	25.28727
FLJ25996	2.501394	7.851164	10.38771	1.26E-15	1.59E-13	25.24834
LOC72792	1.976219	7.363607	10.3851	1.27E-15	1.60E-13	25.23802
CCDC130	-2.40403	9.458738	-10.3692	1.35E-15	1.70E-13	25.17507
PCDHB9	1.752572	8.093414	10.36011	1.40E-15	1.75E-13	25.13897
COX16	1.163692	8.140147	10.35556	1.43E-15	1.77E-13	25.12092
ZNF488	2.408483	7.597044	10.35221	1.45E-15	1.78E-13	25.10765
LRR37B2	2.181675	9.940493	10.33998	1.52E-15	1.86E-13	25.05915
ISCU	-1.15759	8.172026	-10.3391	1.53E-15	1.86E-13	25.05558
TACC1	-1.4328	8.210829	-10.3381	1.53E-15	1.86E-13	25.05157
SOD2	-2.3042	9.423254	-10.3276	1.60E-15	1.91E-13	25.01023

PRAMEF2	1.139403	7.028097	10.32701	1.60E-15	1.91E-13	25.0077
OR2A20P	1.186564	7.198684	10.32631	1.61E-15	1.91E-13	25.00492
CHAT	1.486872	7.213985	10.3169	1.67E-15	1.98E-13	24.96758
ZMYM6	1.726083	8.643447	10.31243	1.70E-15	2.00E-13	24.94987
LOC65029	1.115357	6.982095	10.30786	1.73E-15	2.03E-13	24.93173
MALAT1	2.105442	8.512096	10.28697	1.88E-15	2.19E-13	24.84877
LRP5	-1.2434	8.378108	-10.2859	1.89E-15	2.19E-13	24.84472
OR11H12	2.861994	8.066078	10.28456	1.90E-15	2.19E-13	24.83921
SPAG11A	3.027142	7.771367	10.28139	1.93E-15	2.20E-13	24.82661
PASD1	1.951738	7.268013	10.27222	2.00E-15	2.27E-13	24.7902
CD74	-1.88235	8.949586	-10.2711	2.01E-15	2.27E-13	24.7859
LOC34817	2.141932	7.556532	10.26443	2.06E-15	2.32E-13	24.75927
OR14C36	1.950702	7.426612	10.25848	2.11E-15	2.37E-13	24.73562
MEOX1	0.708558	6.918593	10.25416	2.15E-15	2.39E-13	24.71845
DDR GK1	-1.04225	7.674289	-10.2495	2.19E-15	2.42E-13	24.69999
ZNF750	2.525117	7.691242	10.24881	2.20E-15	2.42E-13	24.69717
PSG6	1.266192	7.019847	10.24159	2.26E-15	2.47E-13	24.6685
DMC1	1.515649	8.474414	10.24096	2.27E-15	2.47E-13	24.66599
CCNB1IP1	1.530879	8.91397	10.22046	2.47E-15	2.67E-13	24.58444
MYH9	-1.91462	8.624945	-10.2168	2.50E-15	2.69E-13	24.56975
LCA5L	2.536503	7.782799	10.21507	2.52E-15	2.69E-13	24.56301
SCNN1D	-2.17685	9.574461	-10.215	2.52E-15	2.69E-13	24.56277
SLC5A8	1.925898	10.10103	10.21406	2.53E-15	2.69E-13	24.55899
KIR3DL3	2.051186	7.433454	10.20088	2.67E-15	2.82E-13	24.50657
RRBP1	-2.37778	10.11424	-10.1929	2.76E-15	2.90E-13	24.47497
PHC3	-0.83846	7.347919	-10.1915	2.77E-15	2.90E-13	24.46928
CDC5L	-1.23696	7.472928	-10.1834	2.86E-15	2.98E-13	24.43686
WASH2P	-1.36269	7.612737	-10.1764	2.95E-15	3.05E-13	24.40904
ACO2	-1.61211	7.959605	-10.1726	2.99E-15	3.08E-13	24.39403
LOC28491	1.041107	6.926791	10.16436	3.09E-15	3.17E-13	24.36119
RPS6KB2	-2.08887	8.702825	-10.1619	3.13E-15	3.19E-13	24.35135
ANXA2P2	0.928284	11.96947	10.15802	3.17E-15	3.22E-13	24.33591
GPS1	-2.08098	8.867449	-10.1527	3.24E-15	3.28E-13	24.31454
FAM90A7	1.800898	7.369699	10.15043	3.27E-15	3.29E-13	24.30566
SYNPO2L	1.748122	7.181263	10.14585	3.33E-15	3.32E-13	24.28742
CIDEA	1.056273	7.106813	10.14584	3.34E-15	3.32E-13	24.28737
SPATA12	1.518246	7.117608	10.13048	3.55E-15	3.51E-13	24.22619
SRRM4	1.904547	7.287237	10.12827	3.58E-15	3.53E-13	24.21736
IQCA1	1.181088	7.088023	10.12267	3.66E-15	3.59E-13	24.19503
TRABD	-2.34688	8.829062	-10.1127	3.81E-15	3.72E-13	24.15531
CDKN2AIF	1.765749	9.078609	10.11052	3.85E-15	3.74E-13	24.14661
SYCP1	1.017086	6.809568	10.10113	4.00E-15	3.87E-13	24.10917
ATP6V0A1	-1.98845	8.894063	-10.0981	4.05E-15	3.87E-13	24.09717
PPIL3	0.979609	9.495558	10.09744	4.06E-15	3.87E-13	24.09445
ST8SIA5	2.547243	7.941245	10.09736	4.06E-15	3.87E-13	24.09412
ATP13A1	-1.89998	8.903917	-10.0963	4.08E-15	3.87E-13	24.0899
RN7SK	-0.92707	12.30128	-10.0937	4.12E-15	3.89E-13	24.07958
FLOT2	-2.0379	11.17673	-10.0906	4.17E-15	3.92E-13	24.06722
FAM22G	2.337793	7.443153	10.08954	4.19E-15	3.92E-13	24.06293
SORBS1	1.290391	8.669906	10.0787	4.38E-15	4.08E-13	24.01968
CACNG6	1.490759	7.193631	10.06695	4.59E-15	4.25E-13	23.97276
N4BP2	1.399859	8.947696	10.06664	4.60E-15	4.25E-13	23.97153
RALGAPB	-1.69474	7.986822	-10.0627	4.67E-15	4.30E-13	23.95567
RIBC1	1.046776	7.024498	10.05927	4.74E-15	4.34E-13	23.9421
FSHR	1.420291	7.035543	10.05656	4.79E-15	4.34E-13	23.93129
GTF2IRD2	1.330184	11.50622	10.05609	4.80E-15	4.34E-13	23.92941
FLJ41562	2.320347	7.755108	10.05584	4.80E-15	4.34E-13	23.92843
SLFN13	1.892621	8.563985	10.0491	4.94E-15	4.44E-13	23.90152

CAPNS1	-1.28868	9.55734	-10.0421	5.08E-15	4.55E-13	23.87371
CXXC1	-2.22452	8.911195	-10.036	5.21E-15	4.64E-13	23.84929
EPN1	-2.6424	10.20665	-10.0225	5.50E-15	4.89E-13	23.79529
UBR5	-1.11678	7.678105	-10.0185	5.59E-15	4.94E-13	23.77929
ODZ3	3.500715	9.083503	10.00758	5.84E-15	5.15E-13	23.73565
ECHDC2	-1.8686	10.51015	-9.99746	6.09E-15	5.33E-13	23.69519
SNORA17	-2.49072	9.050207	-9.99694	6.10E-15	5.33E-13	23.69309
KIR2DS5	2.371496	7.715087	9.99523	6.15E-15	5.34E-13	23.68626
SNORD21	-2.12979	8.716481	-9.9842	6.43E-15	5.57E-13	23.64216
WWP1	-1.80265	8.18367	-9.9597	7.10E-15	6.10E-13	23.54415
TGFBI	-1.60468	8.413029	-9.95969	7.10E-15	6.10E-13	23.54413
PBOV1	1.492463	7.140936	9.95017	7.38E-15	6.31E-13	23.50602
ZNF831	1.287725	7.322826	9.948754	7.42E-15	6.32E-13	23.50036
HINT1	-1.56107	7.83408	-9.94545	7.52E-15	6.38E-13	23.48713
HLA-E	-2.12094	9.82419	-9.9371	7.78E-15	6.58E-13	23.45372
SNORA54	-2.789	9.889056	-9.93547	7.84E-15	6.58E-13	23.44719
BRD9	-1.32632	8.509624	-9.93496	7.85E-15	6.58E-13	23.44514
MIIP	-2.43751	8.503864	-9.92782	8.08E-15	6.75E-13	23.41656
PRAMEF2I	0.938943	6.844893	9.922329	8.27E-15	6.87E-13	23.39457
CDH18	1.228514	7.028097	9.921163	8.31E-15	6.88E-13	23.3899
GABPA	-1.23542	7.71876	-9.91243	8.61E-15	7.07E-13	23.35494
TDRD1	1.568761	7.430736	9.912353	8.61E-15	7.07E-13	23.35462
KIAA1409	0.912976	6.893229	9.906682	8.81E-15	7.21E-13	23.3319
CLINT1	-0.87505	7.1894	-9.90513	8.87E-15	7.22E-13	23.32569
OR52R1	2.607953	7.748379	9.900627	9.03E-15	7.33E-13	23.30764
SNORA23	-2.4104	10.89238	-9.89812	9.12E-15	7.38E-13	23.29761
UNC84B	-2.16942	9.559035	-9.8702	1.02E-14	8.23E-13	23.18571
CDK10	-1.12226	7.918835	-9.86523	1.04E-14	8.37E-13	23.1658
DCXR	-2.93639	10.9055	-9.86162	1.06E-14	8.46E-13	23.15131
SIM2	1.422184	7.18795	9.854645	1.09E-14	8.67E-13	23.12334
GRM3	2.619464	7.738399	9.853037	1.10E-14	8.69E-13	23.1169
FLJ32658	2.658184	7.76578	9.851894	1.10E-14	8.70E-13	23.11231
RNF126P1	1.854704	7.502163	9.850244	1.11E-14	8.73E-13	23.10569
RANGAP1	-1.60586	8.325161	-9.84899	1.11E-14	8.74E-13	23.10066
DDX51	1.485799	9.675541	9.846443	1.13E-14	8.79E-13	23.09045
OR51F2	1.053063	6.944768	9.841065	1.15E-14	8.96E-13	23.06888
KLK7	1.476048	7.43754	9.838031	1.17E-14	9.02E-13	23.05671
EIF3K	-1.8007	8.768294	-9.83743	1.17E-14	9.02E-13	23.05428
ZNF577	1.140332	7.622939	9.833558	1.19E-14	9.13E-13	23.03876
NCLN	-1.62959	8.100855	-9.82089	1.25E-14	9.58E-13	22.98795
OR52K1	2.753231	7.993685	9.817431	1.27E-14	9.68E-13	22.97405
C1orf152	1.298797	7.867232	9.815214	1.28E-14	9.72E-13	22.96515
RPS6	-2.31597	9.268524	-9.8147	1.28E-14	9.72E-13	22.96309
NONO	-1.46797	8.492686	-9.81179	1.30E-14	9.80E-13	22.95143
STAR	0.984729	7.178052	9.809675	1.31E-14	9.85E-13	22.94292
DSCR8	1.886049	7.672723	9.806434	1.33E-14	9.94E-13	22.92991
LOC44057	3.270413	8.363861	9.803504	1.34E-14	1.00E-12	22.91815
SLC4A8	1.449188	7.346024	9.796515	1.38E-14	1.03E-12	22.89009
C1orf84	1.397175	7.735103	9.791167	1.41E-14	1.05E-12	22.86862
OR2G3	1.637207	7.236678	9.789952	1.42E-14	1.05E-12	22.86374
C14orf153	2.352365	9.62728	9.785672	1.44E-14	1.06E-12	22.84655
MRPS12	-1.09938	8.03142	-9.78132	1.47E-14	1.07E-12	22.82909
KIAA0101	0.916543	10.70817	9.781217	1.47E-14	1.07E-12	22.82867
OPA3	0.815748	7.913877	9.781181	1.47E-14	1.07E-12	22.82852
SNORD12	-1.73137	8.050559	-9.78088	1.47E-14	1.07E-12	22.82732
PSG1	1.152851	6.917725	9.772001	1.53E-14	1.10E-12	22.79165
OR2J3	1.668515	7.249474	9.770138	1.54E-14	1.11E-12	22.78416
RPLP1	-1.24823	7.793872	-9.76196	1.59E-14	1.14E-12	22.75131

PFN1	-2.52289	9.570666	-9.76186	1.59E-14	1.14E-12	22.75092
AURKAIP1	-2.36819	8.765447	-9.75852	1.61E-14	1.15E-12	22.73748
EML1	1.49193	7.709333	9.758087	1.61E-14	1.15E-12	22.73575
TAX1BP1	-1.27333	9.254535	-9.75622	1.63E-14	1.15E-12	22.72825
UCP3	0.982886	7.274692	9.754107	1.64E-14	1.16E-12	22.71975
DMRTC2	2.149975	7.399389	9.748125	1.68E-14	1.18E-12	22.69572
GRINA	-1.08121	7.972809	-9.74778	1.68E-14	1.18E-12	22.69435
C17orf70	-2.16869	9.740851	-9.74773	1.68E-14	1.18E-12	22.69412
NF1	-1.33079	7.569516	-9.74422	1.71E-14	1.19E-12	22.68002
ALG8	1.361175	8.647993	9.740341	1.74E-14	1.20E-12	22.66443
WDR17	1.338466	7.362855	9.740113	1.74E-14	1.20E-12	22.66352
ZNF554	2.093447	8.614178	9.732229	1.79E-14	1.24E-12	22.63182
CTRB2	2.060767	7.625807	9.730197	1.81E-14	1.24E-12	22.62365
TMEM205	-3.13373	10.40872	-9.72949	1.82E-14	1.24E-12	22.62082
HARS	-1.80932	8.70735	-9.72741	1.83E-14	1.25E-12	22.61244
OR2A5	1.876675	7.280121	9.726162	1.84E-14	1.25E-12	22.60743
DKFZp451	1.969978	7.423445	9.720431	1.88E-14	1.27E-12	22.58439
ZNF320	1.403577	8.195516	9.719728	1.89E-14	1.27E-12	22.58156
CSF2RA	1.294274	7.879167	9.714242	1.93E-14	1.30E-12	22.5595
CXCR5	1.069074	7.101661	9.707086	1.99E-14	1.33E-12	22.53072
ZNF192	1.58825	8.050702	9.704087	2.01E-14	1.34E-12	22.51866
ALOX12B	3.587038	8.476877	9.70262	2.03E-14	1.35E-12	22.51276
ALDH1A1	-2.62905	9.586376	-9.7007	2.04E-14	1.35E-12	22.50504
MSTO2P	1.467629	7.763073	9.700497	2.04E-14	1.35E-12	22.50422
TM9SF2	-1.90914	8.588597	-9.69171	2.12E-14	1.39E-12	22.46888
JMJD8	-2.25274	8.96764	-9.69165	2.12E-14	1.39E-12	22.46862
MIST	2.597113	7.841493	9.669417	2.32E-14	1.52E-12	22.37915
OPN1LW	1.833984	7.261954	9.667772	2.34E-14	1.53E-12	22.37254
CYMP	1.7069	7.446094	9.666253	2.35E-14	1.53E-12	22.36642
ARL2	-1.6314	8.951579	-9.66372	2.38E-14	1.54E-12	22.35622
OR11G2	1.26691	7.107483	9.662575	2.39E-14	1.54E-12	22.35162
SEC23B	-0.91167	7.529425	-9.6611	2.40E-14	1.55E-12	22.34566
GPX3	-1.58821	12.03957	-9.65566	2.45E-14	1.58E-12	22.32376
SON	-0.92097	8.198208	-9.64686	2.54E-14	1.63E-12	22.28833
PTOV1	-1.85324	9.007546	-9.63497	2.67E-14	1.71E-12	22.24044
SNORA51	-2.44593	10.26932	-9.63056	2.72E-14	1.73E-12	22.22269
LOC40211	1.209265	7.169516	9.626622	2.76E-14	1.76E-12	22.20683
LOC10013	0.769021	7.028187	9.622678	2.81E-14	1.77E-12	22.19095
JUND	-1.4723	11.90356	-9.62252	2.81E-14	1.77E-12	22.1903
C1orf86	-1.09609	7.877004	-9.62085	2.83E-14	1.78E-12	22.18357
DUX3	3.457643	8.587064	9.620462	2.84E-14	1.78E-12	22.18202
ZNF695	1.321335	7.207065	9.616239	2.88E-14	1.80E-12	22.165
CENPB	-1.96897	8.594393	-9.61596	2.89E-14	1.80E-12	22.16389
DNHL1	2.469548	9.170631	9.611204	2.94E-14	1.83E-12	22.14471
MACC1	0.971825	7.042485	9.609115	2.97E-14	1.84E-12	22.1363
CNN2	-1.30378	8.890941	-9.60333	3.04E-14	1.88E-12	22.11297
PIGW	1.614167	7.938884	9.598925	3.10E-14	1.91E-12	22.09523
FCAR	1.179224	7.173147	9.596611	3.13E-14	1.92E-12	22.08591
CSNK2B	-2.36704	8.725347	-9.59583	3.14E-14	1.92E-12	22.08275
PDE6B	1.204966	7.007567	9.593496	3.17E-14	1.93E-12	22.07335
SNORD11	-2.25415	8.969163	-9.59073	3.20E-14	1.95E-12	22.06219
KLK13	1.866293	7.274535	9.590222	3.21E-14	1.95E-12	22.06015
PRELP	0.741714	6.939492	9.585132	3.28E-14	1.98E-12	22.03963
DCLRE1C	1.120682	7.388992	9.579551	3.35E-14	2.02E-12	22.01713
C12orf68	1.058372	7.374453	9.573518	3.44E-14	2.06E-12	21.99281
OR2A1	2.186312	7.956803	9.573068	3.44E-14	2.06E-12	21.99099
TFAP2D	1.656122	7.195736	9.572739	3.45E-14	2.06E-12	21.98967
LALBA	1.995117	7.54774	9.560525	3.62E-14	2.16E-12	21.94041

PGRMC1	-1.98049	8.824442	-9.55646	3.69E-14	2.19E-12	21.92399
TDRD12	1.841281	7.364072	9.553981	3.72E-14	2.21E-12	21.91401
POM121L	1.341778	7.190219	9.553171	3.74E-14	2.21E-12	21.91075
C7orf64	1.604537	8.52236	9.551245	3.77E-14	2.22E-12	21.90298
OR52I1	2.193095	7.596194	9.547269	3.83E-14	2.25E-12	21.88693
TMEM49	-1.8661	8.479561	-9.54619	3.84E-14	2.25E-12	21.8826
NUCB1	-2.30208	10.82701	-9.54203	3.91E-14	2.29E-12	21.86579
RGPD1	1.646865	7.320068	9.540219	3.94E-14	2.29E-12	21.85849
LMNA	-0.88625	7.333627	-9.53978	3.95E-14	2.29E-12	21.85673
STEAP3	1.254739	8.858931	9.537657	3.98E-14	2.31E-12	21.84815
BRIP1	1.656505	8.179971	9.533225	4.05E-14	2.34E-12	21.83027
SIGLEC10	2.501117	8.207547	9.5323	4.07E-14	2.35E-12	21.82654
CHRNA4	1.200846	7.218302	9.530201	4.10E-14	2.36E-12	21.81807
MC3R	1.917502	7.363195	9.529932	4.11E-14	2.36E-12	21.81698
C5orf28	1.23151	8.849411	9.521915	4.25E-14	2.43E-12	21.78463
SIL1	-1.80245	9.831255	-9.51512	4.37E-14	2.48E-12	21.75719
OR4K15	1.020525	6.973795	9.514656	4.37E-14	2.48E-12	21.75533
RPUSD4	-1.57506	8.68686	-9.51408	4.39E-14	2.48E-12	21.75302
EML3	-2.55513	9.987255	-9.51178	4.43E-14	2.49E-12	21.74371
OXA1L	-2.07589	8.327847	-9.51171	4.43E-14	2.49E-12	21.74345
OR4F29	1.764423	7.501372	9.504531	4.56E-14	2.56E-12	21.71445
INSC	1.481914	7.503308	9.499829	4.65E-14	2.60E-12	21.69547
YIF1B	-0.81628	7.475991	-9.49833	4.68E-14	2.61E-12	21.6894
DLL3	1.933451	7.373946	9.495755	4.73E-14	2.63E-12	21.67902
NNAT	1.555359	7.158112	9.492493	4.79E-14	2.66E-12	21.66585
POU6F2	2.455729	8.030717	9.488028	4.88E-14	2.70E-12	21.64781
TAF1D	-0.79388	7.128606	-9.47935	5.06E-14	2.79E-12	21.61276
DUSP23	-1.5909	9.561362	-9.47879	5.07E-14	2.79E-12	21.61049
PRSS2	1.117703	7.359159	9.471765	5.22E-14	2.86E-12	21.58213
SNORD34	-1.90888	8.520732	-9.46941	5.27E-14	2.88E-12	21.57262
C8orf45	1.330125	7.750643	9.467688	5.30E-14	2.90E-12	21.56566
CRYBA4	1.576138	7.248619	9.463928	5.39E-14	2.93E-12	21.55047
FAM40B	1.685918	9.388383	9.463303	5.40E-14	2.93E-12	21.54794
HS6ST3	2.163494	7.492262	9.46258	5.42E-14	2.94E-12	21.54502
EXOSC6	-1.86232	8.950101	-9.45993	5.48E-14	2.95E-12	21.53433
INTS1	-1.01204	7.500726	-9.45805	5.52E-14	2.97E-12	21.5267
C10orf4	1.588366	8.258758	9.45176	5.66E-14	3.04E-12	21.5013
C9orf37	-1.2318	7.781064	-9.45067	5.69E-14	3.04E-12	21.4969
UTP20	2.014723	8.906726	9.450214	5.70E-14	3.04E-12	21.49505
CEBPA	-2.03276	8.912376	-9.44681	5.78E-14	3.08E-12	21.48131
PRAC	1.735602	7.257692	9.443793	5.85E-14	3.11E-12	21.4691
OR7E91P	3.137668	8.274594	9.442707	5.88E-14	3.11E-12	21.46471
HIST1H2B	-1.12699	8.039109	-9.43614	6.04E-14	3.19E-12	21.43817
LYZL4	1.173699	6.851103	9.435016	6.07E-14	3.19E-12	21.43362
DIRC1	1.525048	7.241136	9.434066	6.09E-14	3.20E-12	21.42978
ACTR1A	-1.76542	8.18795	-9.43118	6.16E-14	3.23E-12	21.41813
MAG	1.703364	7.473504	9.430549	6.18E-14	3.23E-12	21.41556
OR10V1	2.74204	7.739368	9.428759	6.22E-14	3.25E-12	21.40833
SNORD33	-3.07903	11.68565	-9.42583	6.30E-14	3.28E-12	21.39651
ALG3	-1.28703	8.447574	-9.42432	6.34E-14	3.29E-12	21.39038
FMO9P	0.909422	6.902654	9.422895	6.38E-14	3.30E-12	21.38462
RCHY1	1.25514	7.698288	9.410902	6.70E-14	3.46E-12	21.33613
PTK2	-1.02125	7.600035	-9.40684	6.81E-14	3.51E-12	21.31969
OR2A42	1.355642	7.388959	9.406138	6.83E-14	3.51E-12	21.31686
OR5AR1	1.840741	7.349299	9.397709	7.07E-14	3.61E-12	21.28277
C7orf38	1.36705	8.006599	9.396351	7.11E-14	3.63E-12	21.27728
GNB1	-1.49193	8.70928	-9.39449	7.17E-14	3.64E-12	21.26976
C10orf99	2.086902	7.457319	9.393349	7.20E-14	3.65E-12	21.26514

MCRS1	-0.83114	7.827266	-9.38417	7.48E-14	3.78E-12	21.228
ATP5H	-1.89748	8.95526	-9.38192	7.55E-14	3.80E-12	21.21891
UCA1	3.061976	9.395022	9.381524	7.56E-14	3.80E-12	21.2173
AIRE	1.91551	9.679069	9.378542	7.65E-14	3.83E-12	21.20523
IGFL3	3.385386	8.886945	9.378216	7.66E-14	3.83E-12	21.20391
CCKBR	1.143519	6.970806	9.372892	7.83E-14	3.90E-12	21.18237
DUX5	3.415283	8.613763	9.372713	7.84E-14	3.90E-12	21.18165
KRT3	2.132391	7.492856	9.369226	7.95E-14	3.95E-12	21.16754
PLA2G2D	1.580283	9.010731	9.36773	8.00E-14	3.96E-12	21.16148
DRD3	2.284833	7.630034	9.3661	8.05E-14	3.98E-12	21.15488
DEFB122	1.464904	7.140291	9.359372	8.28E-14	4.08E-12	21.12766
IL29	1.154266	6.992994	9.355002	8.43E-14	4.14E-12	21.10997
EIF3H	-2.36834	8.83304	-9.35354	8.48E-14	4.15E-12	21.10406
BCAS4	1.007224	7.941647	9.353357	8.49E-14	4.15E-12	21.10331
NR1H3	-2.13093	9.236154	-9.35263	8.51E-14	4.16E-12	21.10036
TEX11	1.084129	10.41372	9.350432	8.59E-14	4.18E-12	21.09147
ZBTB48	-2.30707	9.850844	-9.35011	8.60E-14	4.18E-12	21.09018
KCTD8	1.479997	7.30982	9.348194	8.67E-14	4.20E-12	21.08241
KRTAP5-4	0.97494	6.838577	9.347829	8.68E-14	4.20E-12	21.08093
IL23A	1.781127	7.666675	9.345223	8.78E-14	4.23E-12	21.07038
MIOX	2.760629	7.963704	9.344947	8.79E-14	4.23E-12	21.06926
XIRP2	2.439715	7.550709	9.341416	8.91E-14	4.28E-12	21.05497
USP49	1.764377	9.026397	9.339495	8.99E-14	4.30E-12	21.04719
ADIPOQ	2.119139	7.60618	9.337536	9.06E-14	4.33E-12	21.03926
NCRNA00	1.051832	7.031188	9.335298	9.14E-14	4.36E-12	21.0302
CFH	-1.70288	8.206748	-9.33175	9.28E-14	4.41E-12	21.01583
GLRX5	-1.59849	8.737994	-9.33124	9.30E-14	4.41E-12	21.01377
DAPP1	1.17579	11.21065	9.323798	9.58E-14	4.54E-12	20.98363
TCEB3CL	2.097397	7.613707	9.32212	9.65E-14	4.56E-12	20.97684
CSRNP3	1.316576	7.523956	9.320986	9.70E-14	4.57E-12	20.97225
MRPL37	-2.31207	9.428487	-9.31829	9.80E-14	4.61E-12	20.96133
NFE2L2	-1.25312	7.557986	-9.3161	9.89E-14	4.64E-12	20.95244
NCOA4	-1.82675	9.219488	-9.31551	9.92E-14	4.64E-12	20.95006
USP17	2.943522	8.392874	9.314218	9.97E-14	4.66E-12	20.94483
SEC13	-0.90388	7.258075	-9.31046	1.01E-13	4.71E-12	20.92961
ZRANB2	-1.00274	8.95686	-9.31006	1.01E-13	4.71E-12	20.92798
LSM14B	-1.88838	8.147327	-9.30997	1.01E-13	4.71E-12	20.92763
SIPA1	-1.55768	7.977916	-9.30553	1.03E-13	4.78E-12	20.90963
TMED9	-1.08909	7.866991	-9.30432	1.04E-13	4.80E-12	20.90475
THBS3	-1.33496	7.76983	-9.30352	1.04E-13	4.80E-12	20.90152
DOPEY2	1.188704	10.47623	9.300086	1.06E-13	4.86E-12	20.88759
C5orf32	-1.48573	8.391509	-9.29871	1.06E-13	4.88E-12	20.88202
C15orf32	1.564763	7.142886	9.292671	1.09E-13	4.98E-12	20.85755
BEND3	1.141988	7.447545	9.287928	1.11E-13	5.06E-12	20.83833
OR2L1P	0.965931	6.89249	9.285868	1.12E-13	5.09E-12	20.82998
LINGO2	1.737643	7.137561	9.28556	1.12E-13	5.09E-12	20.82873
IL1RAPL1	2.32699	7.724535	9.283699	1.13E-13	5.12E-12	20.82119
OR6S1	1.339333	7.01718	9.281246	1.14E-13	5.15E-12	20.81125
ATP1A1	-1.58932	8.314635	-9.28073	1.14E-13	5.15E-12	20.80915
MOBKL2A	-1.31416	7.921475	-9.28063	1.14E-13	5.15E-12	20.80874
KRT1	1.200275	6.988197	9.279155	1.15E-13	5.17E-12	20.80278
FBP2	1.707963	7.388415	9.278587	1.15E-13	5.17E-12	20.80048
PFDN5	-1.11455	7.85917	-9.27522	1.17E-13	5.23E-12	20.78682
SNORA22	-1.62431	8.280215	-9.27144	1.19E-13	5.30E-12	20.77153
FIBP	-2.05666	9.018689	-9.27077	1.19E-13	5.30E-12	20.76878
LOC44126	2.104833	8.190718	9.270732	1.19E-13	5.30E-12	20.76864
S100A7A	0.957441	6.906285	9.269983	1.20E-13	5.30E-12	20.7656
ZNF669	0.812245	7.507708	9.269409	1.20E-13	5.30E-12	20.76328

CDH10	1.917213	7.423308	9.267458	1.21E-13	5.33E-12	20.75537
OTOP2	1.846029	7.352754	9.265814	1.22E-13	5.36E-12	20.74871
AK2	-0.88131	7.979785	-9.2639	1.23E-13	5.38E-12	20.74097
CLTB	-1.48468	10.30098	-9.26373	1.23E-13	5.38E-12	20.74025
C18orf26	1.155943	7.126002	9.262353	1.23E-13	5.40E-12	20.73468
RPL23	-1.70507	8.377095	-9.26201	1.24E-13	5.40E-12	20.73331
VENTXP7	2.146187	7.468905	9.25995	1.25E-13	5.42E-12	20.72494
OR10G9	1.454261	7.128615	9.259897	1.25E-13	5.42E-12	20.72472
RPL19	-1.94828	9.919259	-9.25635	1.27E-13	5.49E-12	20.71034
SGSM2	-0.99033	7.352817	-9.25448	1.28E-13	5.52E-12	20.70278
SHCBP1	1.707199	9.554767	9.254181	1.28E-13	5.52E-12	20.70155
MAP1LC3b	2.67189	7.937511	9.253406	1.28E-13	5.52E-12	20.69841
LGMN	0.97645	10.25264	9.2528	1.28E-13	5.52E-12	20.69595
CCDC29	1.460274	7.685242	9.248736	1.31E-13	5.61E-12	20.67947
HNRPDL	-0.71406	7.217643	-9.24232	1.34E-13	5.74E-12	20.65344
KCNN2	1.683229	7.665159	9.236095	1.38E-13	5.87E-12	20.62822
MACF1	-1.21433	7.630684	-9.23601	1.38E-13	5.87E-12	20.62786
SLC30A6	1.420641	8.247638	9.234557	1.38E-13	5.89E-12	20.62198
ATAD3C	1.38612	7.747152	9.230656	1.41E-13	5.98E-12	20.60616
CYB5R1	-1.70426	8.122694	-9.22853	1.42E-13	6.02E-12	20.59754
VPS29	-1.11798	8.09437	-9.22412	1.45E-13	6.12E-12	20.57963
PNPLA6	-1.25133	8.480922	-9.22064	1.47E-13	6.19E-12	20.56553
LOC38983	1.532939	7.423795	9.216614	1.49E-13	6.28E-12	20.54921
SMAD4	-0.75576	7.153668	-9.2157	1.50E-13	6.29E-12	20.54549
TYK2	-1.89065	8.741466	-9.21097	1.53E-13	6.40E-12	20.52632
MAP1LC3a	-0.92632	7.746809	-9.19917	1.60E-13	6.71E-12	20.47842
NAMPT	-1.93743	8.824906	-9.19785	1.61E-13	6.73E-12	20.47308
CLDND2	-1.11577	7.509717	-9.19732	1.61E-13	6.73E-12	20.47092
ATP6V0E2	-2.06146	9.431895	-9.1911	1.66E-13	6.90E-12	20.44568
SLC10A2	1.272435	7.024375	9.189766	1.67E-13	6.92E-12	20.44028
SNRP70	-1.12903	7.596501	-9.18616	1.69E-13	7.01E-12	20.42565
RAB7A	-1.13633	8.549771	-9.1847	1.70E-13	7.04E-12	20.41972
LCE6A	2.355362	7.748126	9.175014	1.77E-13	7.31E-12	20.38041
C5orf49	0.741701	7.001146	9.169171	1.81E-13	7.47E-12	20.35669
OR52J3	1.264912	7.00671	9.16693	1.83E-13	7.52E-12	20.34759
CPSF1	-1.67101	9.774081	-9.16654	1.83E-13	7.52E-12	20.34602
LOC64395	1.008339	7.004252	9.166052	1.84E-13	7.52E-12	20.34403
SKIL	-0.93202	7.439905	-9.16286	1.86E-13	7.61E-12	20.33107
MTHFD2	1.698345	8.390386	9.155802	1.92E-13	7.82E-12	20.30242
CEACAM1	1.529434	7.199279	9.149702	1.96E-13	8.00E-12	20.27765
CRNN	1.009361	6.908538	9.149227	1.97E-13	8.00E-12	20.27572
MIR1913	1.459478	7.309028	9.144026	2.01E-13	8.16E-12	20.2546
OR4K14	1.18001	7.02374	9.141698	2.03E-13	8.22E-12	20.24515
CNNM3	-1.37271	8.349624	-9.14088	2.04E-13	8.23E-12	20.24183
PGBD5	2.492678	9.027522	9.140082	2.04E-13	8.25E-12	20.23859
CLEC9A	0.755595	6.909014	9.138991	2.05E-13	8.27E-12	20.23416
REXO1L1	3.901643	8.972772	9.138504	2.06E-13	8.27E-12	20.23218
POU3F2	0.785136	6.867818	9.128768	2.14E-13	8.59E-12	20.19264
GPX5	2.010868	7.405131	9.127023	2.16E-13	8.63E-12	20.18555
SNORD71	-3.12719	10.35469	-9.12641	2.16E-13	8.64E-12	20.18306
ZC3HAV1l1	0.961071	7.56058	9.12184	2.20E-13	8.79E-12	20.1645
BRD2	-1.91272	8.639498	-9.12078	2.21E-13	8.81E-12	20.1602
SCARNA1	-2.3939	9.464414	-9.11833	2.24E-13	8.87E-12	20.15026
IL17RD	1.073746	7.439914	9.118231	2.24E-13	8.87E-12	20.14984
SKA2	1.427922	7.718341	9.116888	2.25E-13	8.89E-12	20.14438
CHRNA1	1.494784	7.082419	9.116662	2.25E-13	8.89E-12	20.14346
IRX2	1.299939	7.113084	9.115777	2.26E-13	8.91E-12	20.13987
FKSG44	1.513628	9.482091	9.114095	2.28E-13	8.95E-12	20.13304

REXO1L2F	4.043304	9.156899	9.11317	2.28E-13	8.97E-12	20.12928
NICN1	-1.82926	8.555798	-9.10828	2.33E-13	9.14E-12	20.10939
HNRPR	-1.09093	8.218099	-9.1049	2.36E-13	9.22E-12	20.09569
CAPZB	-1.16445	8.286324	-9.10461	2.37E-13	9.22E-12	20.09449
GBX1	1.303169	7.120527	9.100623	2.41E-13	9.36E-12	20.07831
SPC25	1.66491	8.027941	9.100038	2.41E-13	9.36E-12	20.07593
IDH2	-1.58388	8.694229	-9.09803	2.43E-13	9.42E-12	20.06779
HES4	-2.01572	8.599553	-9.09575	2.45E-13	9.49E-12	20.05851
DHRS13	-1.1726	7.761686	-9.09397	2.47E-13	9.55E-12	20.05129
FLJ40434	2.84728	8.027998	9.092966	2.48E-13	9.57E-12	20.04719
PPFIA2	2.543899	7.914443	9.092275	2.49E-13	9.58E-12	20.04439
QRFPR	1.666287	7.876492	9.090697	2.51E-13	9.62E-12	20.03797
ERGIC3	-0.88577	7.382834	-9.08386	2.58E-13	9.88E-12	20.01018
LOC10012	1.193574	7.487251	9.080662	2.61E-13	9.99E-12	19.99719
GALR2	1.463754	7.271521	9.078282	2.64E-13	1.01E-11	19.98752
MLXIP	-1.53218	7.799228	-9.07785	2.64E-13	1.01E-11	19.98576
ATP6AP2	-1.48096	8.201313	-9.07765	2.64E-13	1.01E-11	19.98494
LOC14995	1.529222	7.087714	9.072943	2.70E-13	1.02E-11	19.96582
UBR2	-1.00247	7.600595	-9.06767	2.76E-13	1.04E-11	19.94436
SPANXA1	1.029571	6.891423	9.065412	2.78E-13	1.05E-11	19.9352
ATP6AP1	-1.91888	8.354422	-9.06516	2.78E-13	1.05E-11	19.93416
QKI	-0.7763	7.227103	-9.06359	2.80E-13	1.06E-11	19.92779
MCF2L2	1.007048	7.403115	9.063024	2.81E-13	1.06E-11	19.9255
WDR34	-1.31581	7.635771	-9.06279	2.81E-13	1.06E-11	19.92453
OR2T27	1.905799	7.45513	9.061975	2.82E-13	1.06E-11	19.92123
SLC4A5	1.837221	8.831596	9.055511	2.90E-13	1.08E-11	19.89495
SPAG6	0.787377	6.864448	9.047382	3.00E-13	1.12E-11	19.8619
WDR1	-1.1603	7.996693	-9.04613	3.01E-13	1.12E-11	19.8568
GCNT7	0.908862	6.845324	9.042861	3.05E-13	1.13E-11	19.84352
TRIM13	0.853023	7.657612	9.040351	3.09E-13	1.14E-11	19.83331
FAM50A	-2.51076	10.7034	-9.03964	3.09E-13	1.15E-11	19.83044
GH1	1.092984	6.922913	9.033753	3.17E-13	1.17E-11	19.80648
SNORA45	-2.9224	11.55694	-9.0317	3.20E-13	1.18E-11	19.79812
LYPLAL1	-1.2381	7.588752	-9.03077	3.21E-13	1.18E-11	19.79437
FOLR1	1.406767	7.408382	9.03009	3.22E-13	1.18E-11	19.79159
C3orf34	0.846717	7.102702	9.029681	3.22E-13	1.18E-11	19.78992
AP1M1	-1.97973	8.366116	-9.02561	3.28E-13	1.20E-11	19.77336
OR9G4	1.29119	6.936217	9.025377	3.28E-13	1.20E-11	19.77242
KRTCAP2	-2.10851	9.649298	-9.02419	3.30E-13	1.20E-11	19.76758
SNORA4	-1.29904	7.869051	-9.02381	3.30E-13	1.20E-11	19.76606
C12orf72	1.923237	9.183145	9.019114	3.37E-13	1.22E-11	19.74694
TMCO1	-1.80851	9.230881	-9.00838	3.52E-13	1.27E-11	19.70329
C19orf41	2.061509	7.415742	9.00751	3.53E-13	1.28E-11	19.69974
HERPUD1	-1.15715	7.816973	-9.0069	3.54E-13	1.28E-11	19.69725
NDUFC1	-1.73288	8.103021	-9.00632	3.55E-13	1.28E-11	19.6949
SC4MOL	1.430785	9.168249	9.001527	3.62E-13	1.30E-11	19.6754
CSNK1G2	-1.22371	8.549409	-9.00069	3.64E-13	1.30E-11	19.672
HIST2H2A	-1.3958	7.796319	-9.00025	3.64E-13	1.30E-11	19.67021
HUS1B	0.947218	7.499449	8.999702	3.65E-13	1.30E-11	19.66798
C19orf43	-0.99626	7.676609	-8.99921	3.66E-13	1.31E-11	19.66598
C6orf153	-1.31888	8.51576	-8.99838	3.67E-13	1.31E-11	19.6626
H1FO	-1.93767	8.725725	-8.99605	3.71E-13	1.32E-11	19.65312
BCKDK	-2.12835	10.58954	-8.99554	3.71E-13	1.32E-11	19.65105
PFKL	-0.97856	7.713538	-8.99454	3.73E-13	1.32E-11	19.64696
OKL38	-2.72155	10.07978	-8.99315	3.75E-13	1.33E-11	19.6413
SNORD16	-2.39328	9.499507	-8.99249	3.76E-13	1.33E-11	19.63862
FTHL3	-1.41434	8.355998	-8.99159	3.77E-13	1.33E-11	19.63497
ZNF595	2.197387	9.877007	8.991319	3.78E-13	1.33E-11	19.63387

REG3G	1.149051	7.029851	8.990896	3.79E-13	1.33E-11	19.63215
RPN1	-1.12245	8.121678	-8.98852	3.82E-13	1.34E-11	19.62247
FRG2B	1.014829	6.966571	8.987752	3.84E-13	1.34E-11	19.61935
KIR3DL2	2.759197	8.090218	8.98515	3.88E-13	1.35E-11	19.60876
KIR3DL1	1.825414	7.383554	8.982147	3.92E-13	1.37E-11	19.59655
OR56A4	2.466997	7.586179	8.977127	4.01E-13	1.39E-11	19.57612
MED12	-1.56299	7.715913	-8.97536	4.04E-13	1.40E-11	19.56894
MAGEA10	2.408442	7.659293	8.96438	4.22E-13	1.46E-11	19.52424
C21orf54	2.193716	7.564033	8.960442	4.29E-13	1.48E-11	19.50821
GPR152	3.048556	8.289103	8.955025	4.39E-13	1.51E-11	19.48616
SNORD11	-1.95973	8.693516	-8.95486	4.39E-13	1.51E-11	19.48547
PRKCSH	-1.27792	8.268447	-8.95341	4.42E-13	1.52E-11	19.4796
GPR139	1.599908	7.038897	8.949498	4.49E-13	1.54E-11	19.46366
DDX3X	-1.11393	7.881928	-8.94919	4.50E-13	1.54E-11	19.46241
LOC14841	-1.10815	7.812233	-8.94749	4.53E-13	1.55E-11	19.4555
C19orf15	1.105499	7.107194	8.945963	4.56E-13	1.55E-11	19.44927
MPV17L	2.108051	8.657588	8.945452	4.57E-13	1.56E-11	19.44718
MTHFD1	-2.72252	9.643186	-8.94314	4.61E-13	1.57E-11	19.43777
AOX2P	0.956704	6.964971	8.940719	4.66E-13	1.58E-11	19.42792
NMNAT2	0.875551	6.959058	8.936376	4.74E-13	1.61E-11	19.41023
NR2E3	0.851537	6.923341	8.931661	4.84E-13	1.64E-11	19.39103
GAMT	-1.64568	9.675009	-8.92473	4.98E-13	1.68E-11	19.36282
DDX39	-1.53604	7.851849	-8.92136	5.05E-13	1.70E-11	19.34908
ENY2	-1.49207	7.751923	-8.92009	5.07E-13	1.71E-11	19.3439
HSPB1	-1.98036	9.586609	-8.91789	5.12E-13	1.72E-11	19.33497
SNORA75	-2.31777	9.331437	-8.9162	5.16E-13	1.73E-11	19.32809
ZSCAN10	2.093412	7.84075	8.909377	5.30E-13	1.78E-11	19.30029
KCNK12	2.624533	8.218845	8.908425	5.32E-13	1.78E-11	19.29641
ASCC2	-1.65148	9.350139	-8.90759	5.34E-13	1.78E-11	19.29303
C11orf63	0.855048	7.176456	8.901315	5.48E-13	1.83E-11	19.26745
C5	-1.55481	9.427661	-8.89714	5.58E-13	1.86E-11	19.25045
DNAH9	1.024218	7.013536	8.892319	5.69E-13	1.89E-11	19.2308
NUFIP1	1.016291	7.159562	8.887282	5.81E-13	1.93E-11	19.21029
LOC73081	1.303476	7.065771	8.887138	5.82E-13	1.93E-11	19.2097
SH2D7	1.766054	7.243119	8.886422	5.83E-13	1.93E-11	19.20678
OR1L4	1.978799	7.353405	8.883878	5.89E-13	1.94E-11	19.19642
MLEC	-1.10054	8.120316	-8.88328	5.91E-13	1.94E-11	19.194
HGD	-1.94459	9.422256	-8.88192	5.94E-13	1.95E-11	19.18844
CIB1	-2.54057	11.0963	-8.87646	6.08E-13	1.99E-11	19.16621
IFITM3	-2.00107	9.489567	-8.87421	6.14E-13	2.01E-11	19.15702
CT45A1	1.974184	7.295087	8.873655	6.15E-13	2.01E-11	19.15476
SERF2	-1.30589	7.922863	-8.86683	6.33E-13	2.06E-11	19.12697
H6PD	1.240795	9.618679	8.863347	6.42E-13	2.09E-11	19.11276
NOP10	-1.24099	8.068233	-8.86181	6.46E-13	2.10E-11	19.1065
TOM1	-2.39489	9.567299	-8.86063	6.49E-13	2.11E-11	19.10167
NLRP12	0.857423	6.983417	8.860423	6.50E-13	2.11E-11	19.10085
OR4C15	1.045859	7.01198	8.859534	6.52E-13	2.11E-11	19.09722
PDCD7	1.133421	9.222638	8.856543	6.60E-13	2.13E-11	19.08504
NT5C1B	1.37777	7.012	8.85322	6.69E-13	2.16E-11	19.07149
RBM39	-1.82715	8.528241	-8.85171	6.73E-13	2.17E-11	19.06533
TMEM211	0.888292	6.814961	8.848974	6.81E-13	2.19E-11	19.05419
RPS11	-1.56876	8.204237	-8.84861	6.82E-13	2.19E-11	19.05269
SF3B1	-1.01207	8.06834	-8.84746	6.85E-13	2.20E-11	19.04801
C14orf173	-2.16988	9.567626	-8.84667	6.88E-13	2.20E-11	19.04478
NAPRT1	-2.1854	9.482816	-8.84516	6.92E-13	2.21E-11	19.03865
CRYGB	1.727225	7.350532	8.844535	6.94E-13	2.21E-11	19.0361
ZNF835	2.101325	7.588449	8.8445	6.94E-13	2.21E-11	19.03595
C19orf53	-2.51657	10.00699	-8.84092	7.04E-13	2.24E-11	19.02136

GDF3	2.490943	7.714882	8.839896	7.07E-13	2.24E-11	19.01719
USP10	0.791108	7.594069	8.835935	7.19E-13	2.28E-11	19.00104
LOC4008C	1.079467	7.205329	8.834407	7.24E-13	2.29E-11	18.99481
PKP1	1.236916	7.01015	8.831595	7.32E-13	2.31E-11	18.98335
SCN2A	0.869668	6.881107	8.829094	7.40E-13	2.33E-11	18.97315
SPPL2A	-1.38358	8.135167	-8.8285	7.41E-13	2.33E-11	18.97074
STAG3L1	1.625469	8.995086	8.828489	7.41E-13	2.33E-11	18.97069
FBXO11	-0.91358	7.683728	-8.82803	7.43E-13	2.33E-11	18.96883
SCG3	1.241759	7.226821	8.827904	7.43E-13	2.33E-11	18.96831
C5orf40	1.766041	7.724554	8.827294	7.45E-13	2.33E-11	18.96582
SERPINA3	-2.69908	9.190463	-8.82609	7.49E-13	2.34E-11	18.9609
CST2	1.887065	7.643134	8.822462	7.60E-13	2.37E-11	18.94612
PCYT1B	1.068561	7.013661	8.820354	7.67E-13	2.39E-11	18.93752
AP3M1	1.380014	8.298194	8.818714	7.72E-13	2.40E-11	18.93084
FAM24A	1.571499	7.126571	8.818517	7.73E-13	2.40E-11	18.93004
ZNF557	1.059286	8.263556	8.817456	7.76E-13	2.40E-11	18.92571
LGR8	0.872632	6.815886	8.816242	7.80E-13	2.41E-11	18.92076
FAM181B	1.016882	7.025038	8.814303	7.86E-13	2.43E-11	18.91285
PODXL	1.653021	9.537145	8.812198	7.93E-13	2.44E-11	18.90427
KIAA0087	1.20042	6.944711	8.812189	7.93E-13	2.44E-11	18.90424
ARF1	-1.51244	9.176929	-8.81201	7.94E-13	2.44E-11	18.9035
DECR1	-1.53943	8.058075	-8.81148	7.96E-13	2.44E-11	18.90136
SNORD12	-2.56923	11.16737	-8.80919	8.03E-13	2.46E-11	18.89201
SFTA3	1.447971	7.135644	8.808781	8.05E-13	2.46E-11	18.89034
SCARNA4	-1.69112	9.705066	-8.8057	8.15E-13	2.49E-11	18.87779
IGDCC3	2.328609	7.722343	8.798705	8.39E-13	2.56E-11	18.84926
ZMAT2	-1.296	7.969916	-8.79742	8.43E-13	2.57E-11	18.844
MBD3L5	1.779865	7.302556	8.796881	8.45E-13	2.57E-11	18.84182
GC	-2.15985	8.832324	-8.79379	8.56E-13	2.60E-11	18.82922
PACRG	1.448764	7.538524	8.79297	8.59E-13	2.60E-11	18.82587
BOP1	-0.85377	7.207258	-8.79122	8.65E-13	2.62E-11	18.81875
RAB40C	-1.72252	8.193582	-8.78867	8.75E-13	2.64E-11	18.80834
PLA2G4B	-1.71093	9.403877	-8.78272	8.96E-13	2.70E-11	18.78405
SCAP	-1.28865	8.091359	-8.77904	9.10E-13	2.74E-11	18.76904
ALDH4A1	-1.72075	8.80584	-8.77845	9.12E-13	2.74E-11	18.76667
MIR1324	1.160542	7.023751	8.778361	9.13E-13	2.74E-11	18.76629
SEPX1	-1.44048	8.31806	-8.77713	9.17E-13	2.75E-11	18.76128
HOXA3	1.270829	7.426828	8.77577	9.23E-13	2.76E-11	18.75572
ENSA	-1.12505	8.290634	-8.76625	9.60E-13	2.87E-11	18.71688
ACAT1	-1.10806	7.528422	-8.76536	9.63E-13	2.87E-11	18.71326
SPATA8	1.477539	7.122886	8.755635	1.00E-12	2.98E-11	18.67359
MUC21	1.230496	6.999274	8.754559	1.01E-12	2.99E-11	18.6692
CSNK1E	-1.37477	8.600246	-8.75162	1.02E-12	3.02E-11	18.65722
MGC7199	-1.12061	8.411879	-8.75063	1.02E-12	3.03E-11	18.65317
C20orf20	-2.23548	9.131226	-8.74801	1.04E-12	3.06E-11	18.64249
C3orf51	2.196607	7.346862	8.742171	1.06E-12	3.13E-11	18.61866
TSG1	1.747941	7.349759	8.741269	1.06E-12	3.14E-11	18.61498
LOC44195	2.172147	7.632485	8.740253	1.07E-12	3.15E-11	18.61083
EIF4G2	-1.58874	8.381431	-8.73686	1.08E-12	3.19E-11	18.59697
HPCA	1.917873	7.481135	8.734674	1.09E-12	3.21E-11	18.58807
SNORA9	-1.95739	8.80505	-8.72261	1.15E-12	3.37E-11	18.53882
SNRPD2	-1.99528	8.605878	-8.72121	1.16E-12	3.39E-11	18.53312
TMEM115	-2.29698	9.6515	-8.72059	1.16E-12	3.39E-11	18.53059
WFDC6	0.86204	6.832039	8.717351	1.18E-12	3.43E-11	18.51738
ITGA1	-1.25542	8.020153	-8.71683	1.18E-12	3.43E-11	18.51524
HLA-B	-2.80915	9.828529	-8.71302	1.20E-12	3.48E-11	18.49972
SNORD58	-1.47226	7.7275	-8.70702	1.23E-12	3.57E-11	18.4752
ZC3H3	-2.31122	8.883755	-8.70408	1.24E-12	3.60E-11	18.46322

TPST2	-1.19551	7.787149	-8.70401	1.24E-12	3.60E-11	18.46295
SERPINF1	-2.57963	9.232903	-8.70369	1.24E-12	3.60E-11	18.46163
SLC36A2	2.930346	7.968859	8.70351	1.24E-12	3.60E-11	18.46089
CLCN7	-1.88381	10.42478	-8.70315	1.25E-12	3.60E-11	18.4594
PTMS	-1.05078	11.48655	-8.70236	1.25E-12	3.61E-11	18.45618
KCNJ13	2.010661	7.763706	8.699341	1.27E-12	3.65E-11	18.44388
CREB3L3	-2.19601	9.013863	-8.69757	1.28E-12	3.67E-11	18.43666
DAND5	2.691268	8.430992	8.694192	1.29E-12	3.71E-11	18.42286
CAMLG	-1.54611	9.999585	-8.69039	1.31E-12	3.77E-11	18.40735
MLF2	-1.17647	9.350483	-8.69017	1.32E-12	3.77E-11	18.40645
MGC1192	1.357261	7.231147	8.689309	1.32E-12	3.77E-11	18.40293
SGCG	0.963968	6.868507	8.688783	1.32E-12	3.78E-11	18.40078
C9orf41	1.653117	8.869112	8.688487	1.32E-12	3.78E-11	18.39957
ISM2	1.03751	7.000839	8.686139	1.34E-12	3.81E-11	18.38998
SMARCA5	-1.06299	7.38506	-8.68315	1.35E-12	3.85E-11	18.37777
SNORA38	-1.85849	10.37719	-8.68091	1.37E-12	3.88E-11	18.36864
MGAT5B	1.490762	7.461278	8.67741	1.39E-12	3.93E-11	18.35435
RNASE8	1.130504	6.951499	8.676406	1.39E-12	3.94E-11	18.35025
CCDC153	0.939348	7.043825	8.676074	1.39E-12	3.94E-11	18.3489
GCNT1	1.622183	7.723176	8.67573	1.40E-12	3.94E-11	18.34749
SNORA32	-1.84273	8.279287	-8.67222	1.42E-12	4.00E-11	18.33314
NDUFB10	-1.17268	7.883806	-8.66906	1.44E-12	4.04E-11	18.32024
FAM163A	1.434455	7.135492	8.667791	1.44E-12	4.06E-11	18.31508
SHISA5	-1.00832	8.236794	-8.66474	1.46E-12	4.11E-11	18.30263
OR52I2	1.368186	7.036126	8.66354	1.47E-12	4.12E-11	18.29773
CDV3	-1.23294	8.771857	-8.66203	1.48E-12	4.14E-11	18.29157
C1orf50	-0.9274	7.333149	-8.66055	1.49E-12	4.16E-11	18.28553
RPS19	-2.24439	10.88218	-8.65715	1.51E-12	4.21E-11	18.27162
SNORA65	-3.07807	10.82254	-8.65681	1.51E-12	4.21E-11	18.27026
C1orf118	0.83908	6.939569	8.653684	1.53E-12	4.26E-11	18.25748
KPRP	2.615796	7.876894	8.651341	1.55E-12	4.29E-11	18.24792
PSCD1	-1.05906	7.586693	-8.65113	1.55E-12	4.29E-11	18.24706
KIAA0090	-0.83988	7.173512	-8.65059	1.55E-12	4.30E-11	18.24486
TAGLN3	0.958046	6.931695	8.648208	1.57E-12	4.33E-11	18.23512
LOC15266	2.542862	7.89951	8.647452	1.57E-12	4.34E-11	18.23203
HPD	-2.12125	8.247841	-8.64719	1.57E-12	4.34E-11	18.23096
KCNH5	2.334442	7.6793	8.646587	1.58E-12	4.34E-11	18.2285
C16orf58	-2.0196	10.25501	-8.64425	1.59E-12	4.38E-11	18.21897
SHMT2	-1.76826	8.960907	-8.6438	1.59E-12	4.38E-11	18.21712
PTBP1	-2.10668	10.03735	-8.64202	1.61E-12	4.41E-11	18.20983
UBA52	-2.27195	10.96514	-8.64052	1.62E-12	4.43E-11	18.20373
ARL16	1.158955	11.34685	8.638256	1.63E-12	4.46E-11	18.19448
E2F6	1.700882	8.211043	8.637749	1.64E-12	4.47E-11	18.19241
CHPT1	-1.76156	8.463434	-8.6342	1.66E-12	4.53E-11	18.17793
LOC16263	1.963652	7.988342	8.63051	1.69E-12	4.59E-11	18.16285
MET	-1.0211	7.81543	-8.62609	1.72E-12	4.67E-11	18.14479
PPP2CA	-1.70823	8.195848	-8.62161	1.75E-12	4.75E-11	18.1265
KCNH3	2.087326	8.118064	8.621005	1.75E-12	4.76E-11	18.12403
SCARNA5	-1.84725	8.745882	-8.61838	1.77E-12	4.80E-11	18.11331
NUDT3	-1.04712	7.837393	-8.61758	1.78E-12	4.81E-11	18.11006
FTHL7	-1.08445	11.27977	-8.61645	1.79E-12	4.82E-11	18.10543
ETFB	-1.69459	9.44113	-8.61644	1.79E-12	4.82E-11	18.10538
UNC5D	1.054946	6.887359	8.607929	1.85E-12	4.98E-11	18.07062
KDEL2	-1.45387	8.494818	-8.60706	1.86E-12	4.99E-11	18.06708
SNORD25	-1.76576	8.571449	-8.60623	1.86E-12	5.00E-11	18.0637
SCARNA1	-2.27452	10.19052	-8.60605	1.87E-12	5.00E-11	18.06294
PRR20B	3.08633	8.355208	8.603929	1.88E-12	5.04E-11	18.05428
KIAA1751	1.463928	11.56764	8.602972	1.89E-12	5.05E-11	18.05037

CEBPD	-1.79101	8.422565	-8.60145	1.90E-12	5.08E-11	18.04414
CYP3A5	-2.65816	9.41234	-8.59932	1.92E-12	5.12E-11	18.03546
GIT2	-1.28534	7.701913	-8.59904	1.92E-12	5.12E-11	18.03431
HSD17B4	-1.37296	8.326254	-8.59762	1.93E-12	5.13E-11	18.02853
LOC37439	-3.17756	10.4942	-8.59754	1.93E-12	5.13E-11	18.02818
FLJ45337	1.900723	8.094052	8.596086	1.94E-12	5.16E-11	18.02224
OR7E37P	1.554248	7.654205	8.595771	1.95E-12	5.16E-11	18.02095
HDHD2	-1.23614	7.977903	-8.59489	1.95E-12	5.17E-11	18.01735
FLJ32679	0.817931	6.97324	8.59208	1.98E-12	5.22E-11	18.00587
SERPING1	-1.33198	8.238236	-8.59195	1.98E-12	5.22E-11	18.00535
BEND4	1.071613	7.141362	8.588211	2.01E-12	5.30E-11	17.99007
BCKDHA	-1.81298	9.196816	-8.58644	2.02E-12	5.32E-11	17.98284
CLPS	0.99814	6.85925	8.58164	2.06E-12	5.42E-11	17.96322
C12orf36	1.163385	7.015538	8.580206	2.08E-12	5.45E-11	17.95737
CROP	-1.00562	7.566673	-8.57838	2.09E-12	5.48E-11	17.94992
TCEB2	-1.09578	9.209735	-8.57516	2.12E-12	5.54E-11	17.93674
TAF11	1.635715	8.77563	8.575139	2.12E-12	5.54E-11	17.93666
LOC22296	1.984993	7.506514	8.574986	2.12E-12	5.54E-11	17.93604
OR2T4	1.45666	7.10915	8.574	2.13E-12	5.55E-11	17.93201
KRT72	1.544464	7.145766	8.569074	2.18E-12	5.66E-11	17.91188
MIR663B	2.195583	7.525658	8.567025	2.19E-12	5.70E-11	17.90351
NTRK1	1.384958	7.207458	8.566939	2.19E-12	5.70E-11	17.90316
MCM8	1.633325	8.982473	8.565621	2.21E-12	5.72E-11	17.89777
FAU	-1.69659	8.656276	-8.56267	2.23E-12	5.79E-11	17.88571
ITGB1	-1.211	7.893947	-8.56199	2.24E-12	5.80E-11	17.88295
PRSS21	0.826354	6.94105	8.561384	2.25E-12	5.80E-11	17.88046
HTA	1.846379	7.270338	8.560296	2.26E-12	5.82E-11	17.87602
HNRPA2B	-1.99936	9.059519	-8.55878	2.27E-12	5.85E-11	17.86982
LOC72894	0.789397	6.812452	8.552669	2.33E-12	5.98E-11	17.84485
TKT	-1.80687	8.305925	-8.55224	2.33E-12	5.98E-11	17.84311
SLC44A4	1.729747	9.680655	8.548735	2.37E-12	6.06E-11	17.82877
RAD52	1.856608	8.782611	8.548538	2.37E-12	6.06E-11	17.82797
PRDM14	1.363154	7.140388	8.547741	2.38E-12	6.07E-11	17.82471
NRM	1.681749	9.158963	8.547037	2.38E-12	6.08E-11	17.82183
NCRNA00	1.199338	7.031808	8.546208	2.39E-12	6.10E-11	17.81845
AXUD1	-1.75424	8.144724	-8.54105	2.44E-12	6.22E-11	17.79736
C3	-2.09689	10.14998	-8.5404	2.45E-12	6.23E-11	17.79472
NDST3	1.240591	7.013763	8.539375	2.46E-12	6.25E-11	17.79052
RAXL1	2.094385	8.296301	8.537915	2.48E-12	6.28E-11	17.78455
KILLIN	1.483869	7.80276	8.537458	2.48E-12	6.28E-11	17.78269
OR5P3	1.58353	7.269632	8.537117	2.48E-12	6.28E-11	17.78129
TSPO	-1.29674	8.277521	-8.53055	2.55E-12	6.45E-11	17.75447
SSU72	-1.16103	8.991661	-8.52655	2.60E-12	6.55E-11	17.73812
CACNG5	1.534688	7.243239	8.525772	2.60E-12	6.56E-11	17.73493
FOXN1	1.324352	7.177511	8.522137	2.64E-12	6.65E-11	17.72007
KLF2	-1.41051	8.401486	-8.51897	2.68E-12	6.72E-11	17.70714
ZNF365	0.778216	6.814723	8.518707	2.68E-12	6.72E-11	17.70605
MIR1289-	1.747892	7.367262	8.516364	2.71E-12	6.78E-11	17.69647
TTR	-2.91688	9.858921	-8.51445	2.73E-12	6.82E-11	17.68864
OR52L1	1.133123	6.992966	8.513933	2.74E-12	6.83E-11	17.68654
ARPC1B	-1.47491	7.773304	-8.50929	2.79E-12	6.95E-11	17.66754
NDUFA10	-1.19549	7.680048	-8.50853	2.80E-12	6.97E-11	17.66445
ICAM4	1.266663	7.312546	8.500224	2.90E-12	7.20E-11	17.6305
MIR1272	1.11277	7.073262	8.493034	2.98E-12	7.40E-11	17.60111
UBA7	-2.10522	8.799132	-8.49083	3.01E-12	7.46E-11	17.5921
LOC40125	2.133813	10.01149	8.490702	3.01E-12	7.46E-11	17.59158
BTG1	-1.16142	7.98501	-8.48741	3.05E-12	7.55E-11	17.57811
SNORA48	-1.27585	7.715934	-8.486	3.07E-12	7.59E-11	17.57234

F7	-1.96212	9.09952	-8.4851	3.08E-12	7.60E-11	17.56869
MGC1099	1.91108	8.467308	8.484583	3.09E-12	7.60E-11	17.56656
MRGPRX3	0.768293	6.905681	8.484562	3.09E-12	7.60E-11	17.56647
PSMB7	-0.8939	7.56329	-8.47962	3.15E-12	7.75E-11	17.54626
PPIAL4G	2.561137	8.028551	8.477585	3.18E-12	7.81E-11	17.53795
KLHDC3	-2.28969	8.837676	-8.47611	3.20E-12	7.84E-11	17.53194
COX4I1	-2.89311	9.803781	-8.47601	3.20E-12	7.84E-11	17.53151
EEF1A1	-1.46265	9.051374	-8.47547	3.21E-12	7.85E-11	17.52932
OR10G8	2.634444	7.741756	8.474756	3.22E-12	7.87E-11	17.52638
SLC8A2	2.58137	8.014387	8.47024	3.28E-12	8.00E-11	17.50792
CCT8L1	0.910249	6.913975	8.468849	3.30E-12	8.04E-11	17.50223
ATP2A1	1.526185	7.599811	8.467668	3.32E-12	8.07E-11	17.4974
ZNF787	-1.14279	7.642288	-8.46706	3.32E-12	8.08E-11	17.4949
OR2B2	1.18886	7.079168	8.466553	3.33E-12	8.08E-11	17.49284
GRIN1	0.994743	7.063855	8.461802	3.40E-12	8.23E-11	17.47342
EWSR1	-1.3664	8.193359	-8.46132	3.40E-12	8.23E-11	17.47147
DTWD2	0.796316	12.36192	8.461256	3.40E-12	8.23E-11	17.47119
TMEM123	-1.64475	8.579265	-8.46035	3.42E-12	8.25E-11	17.46748
PRDM7	2.245284	8.709288	8.459455	3.43E-12	8.27E-11	17.46382
MT1P2	0.898215	6.834562	8.457818	3.45E-12	8.32E-11	17.45713
GPR141	0.773584	7.04147	8.453114	3.52E-12	8.48E-11	17.4379
SPATA20	-1.89418	8.706187	-8.45249	3.53E-12	8.49E-11	17.43535
DENR	1.758858	9.544229	8.441565	3.70E-12	8.85E-11	17.39067
FGF8	1.674191	7.125402	8.437466	3.76E-12	8.99E-11	17.37391
ALDH5A1	-1.3641	7.969162	-8.43301	3.83E-12	9.14E-11	17.35567
ZNF542	1.105382	7.563259	8.43072	3.87E-12	9.22E-11	17.34632
KRT16	1.918686	7.622359	8.428609	3.90E-12	9.27E-11	17.33769
C6orf125	-1.60664	7.952637	-8.42825	3.91E-12	9.27E-11	17.33623
LOC64915	2.478673	7.802493	8.428204	3.91E-12	9.27E-11	17.33603
CDH29	1.037435	6.924257	8.427704	3.91E-12	9.28E-11	17.33399
EDG7	1.65473	7.176783	8.425798	3.95E-12	9.34E-11	17.32619
CD14	-1.36021	9.897266	-8.42316	3.99E-12	9.43E-11	17.31539
ZNF682	0.976613	9.468244	8.422201	4.00E-12	9.46E-11	17.31148
FLJ46321	0.851275	6.782548	8.421201	4.02E-12	9.49E-11	17.30739
DAOA	1.11689	6.926873	8.420908	4.03E-12	9.49E-11	17.30619
MAT1A	-1.45439	7.793325	-8.41971	4.05E-12	9.53E-11	17.3013
RFPL3S	1.046782	7.095827	8.415085	4.13E-12	9.69E-11	17.28238
ZFP36L2	-1.16521	8.127406	-8.41507	4.13E-12	9.69E-11	17.2823
HSD17B11	-0.89794	7.601716	-8.41207	4.18E-12	9.79E-11	17.27004
MIR1299	1.424181	7.9171	8.409125	4.23E-12	9.90E-11	17.258
SNORA20	-2.344	8.903713	-8.40488	4.30E-12	1.01E-10	17.24064
KRT5	1.751813	7.513889	8.404671	4.31E-12	1.01E-10	17.23979
KLK3	1.351903	7.079199	8.404298	4.31E-12	1.01E-10	17.23826
NUDC	-2.03995	10.39922	-8.40383	4.32E-12	1.01E-10	17.23636
TFIP11	1.566202	9.161462	8.403743	4.32E-12	1.01E-10	17.23599
ATP6V0C	-1.26928	7.912905	-8.40023	4.39E-12	1.02E-10	17.22163
DUXA	1.764357	7.243125	8.399425	4.40E-12	1.02E-10	17.21833
PSMG2	-2.30614	8.968948	-8.39904	4.41E-12	1.02E-10	17.21676
LY6G5C	1.750331	8.216243	8.397976	4.43E-12	1.03E-10	17.2124
TIMP4	1.958899	7.667258	8.395338	4.48E-12	1.03E-10	17.20161
ARMET	-2.0114	9.527993	-8.39523	4.48E-12	1.03E-10	17.20116
DPPA3	1.20974	7.016878	8.394465	4.49E-12	1.04E-10	17.19804
TAGLN2	-1.36139	8.895527	-8.39293	4.52E-12	1.04E-10	17.19176
APOBEC3I	1.568062	7.53345	8.391818	4.54E-12	1.04E-10	17.18721
HYALP1	0.823335	6.941754	8.388521	4.61E-12	1.06E-10	17.17373
PPP6C	-1.38199	8.39977	-8.38758	4.63E-12	1.06E-10	17.16986
KCNK10	0.700196	6.817789	8.38436	4.69E-12	1.07E-10	17.15671
HNRNPD	-1.4888	9.098911	-8.38346	4.70E-12	1.08E-10	17.15305

GRAMD1A	-1.153	7.611274	-8.38207	4.73E-12	1.08E-10	17.14734
PPM1K	1.072204	7.367693	8.381344	4.75E-12	1.08E-10	17.14437
RPS6KA3	-0.95401	7.820549	-8.37619	4.85E-12	1.11E-10	17.12331
C2orf27B	0.822974	6.849764	8.375741	4.86E-12	1.11E-10	17.12145
HDHD3	-1.96293	10.18474	-8.37521	4.87E-12	1.11E-10	17.11928
SNX15	1.256423	8.569966	8.370353	4.97E-12	1.13E-10	17.09941
ELK3	-0.99036	7.21331	-8.37003	4.98E-12	1.13E-10	17.09809
PLIN5	1.145134	8.37353	8.369212	4.99E-12	1.13E-10	17.09475
PRSS38	1.361941	7.084495	8.368851	5.00E-12	1.13E-10	17.09327
FAM75A5	1.094006	7.049892	8.367627	5.03E-12	1.14E-10	17.08826
VIT	1.492577	7.268602	8.366253	5.05E-12	1.14E-10	17.08264
FGF9	1.363876	7.118603	8.36555	5.07E-12	1.14E-10	17.07976
ATP5B	-1.5117	9.900804	-8.3652	5.08E-12	1.14E-10	17.07833
GPR31	1.220198	7.115086	8.364859	5.08E-12	1.14E-10	17.07694
RBM9	-1.65836	8.309201	-8.36308	5.12E-12	1.15E-10	17.06966
UROS	-1.55979	8.291562	-8.36048	5.18E-12	1.16E-10	17.05904
RBL1	1.554456	8.388597	8.357997	5.23E-12	1.17E-10	17.04887
FLJ45256	1.996934	9.697139	8.352875	5.34E-12	1.20E-10	17.02791
TNFRSF13	2.232882	7.939193	8.348446	5.44E-12	1.22E-10	17.00979
PPP1R13B	-1.38079	9.23234	-8.34449	5.53E-12	1.24E-10	16.9936
C10orf27	1.895349	7.468253	8.343446	5.56E-12	1.24E-10	16.98934
SLC4A11	1.201502	7.107517	8.339538	5.65E-12	1.26E-10	16.97335
RNF216L	1.662407	7.800587	8.338915	5.66E-12	1.26E-10	16.9708
FGA	-2.10215	9.065755	-8.33499	5.76E-12	1.28E-10	16.95476
CLRN2	1.37789	7.194236	8.334774	5.76E-12	1.28E-10	16.95386
SLC37A4	-1.55564	8.344409	-8.33462	5.76E-12	1.28E-10	16.95324
ERLIN2	-0.76666	7.22461	-8.33356	5.79E-12	1.28E-10	16.94889
NCF1B	1.653904	7.536874	8.331898	5.83E-12	1.29E-10	16.94209
SEC61A1	-1.98445	9.612011	-8.33137	5.84E-12	1.29E-10	16.93993
KRTAP3-2	2.6558	7.783828	8.328628	5.91E-12	1.30E-10	16.92871
CD99L2	-1.35205	8.284627	-8.32861	5.91E-12	1.30E-10	16.92863
PNLIPRP1	1.340638	7.094781	8.328539	5.91E-12	1.30E-10	16.92835
C21orf49	0.948648	7.11418	8.327935	5.93E-12	1.31E-10	16.92588
SNORD49	-1.89734	8.517561	-8.32581	5.98E-12	1.32E-10	16.91716
OR13A1	1.641257	7.238483	8.325388	5.99E-12	1.32E-10	16.91546
CRYGA	2.217177	7.784513	8.324692	6.01E-12	1.32E-10	16.91261
C17orf61	-1.2725	7.815331	-8.32407	6.02E-12	1.32E-10	16.91008
CD81	-2.17701	10.18351	-8.32182	6.08E-12	1.33E-10	16.90084
CD8B	1.103312	7.214694	8.319574	6.14E-12	1.34E-10	16.89167
DKFZp686	2.036237	8.446361	8.318805	6.16E-12	1.35E-10	16.88852
ERI3	-2.09802	9.112262	-8.31696	6.20E-12	1.36E-10	16.88097
ACCSL	1.957786	7.440272	8.31515	6.25E-12	1.36E-10	16.87357
RAET1G	1.785353	7.331251	8.314536	6.27E-12	1.37E-10	16.87106
IKBKAP	1.001421	7.290676	8.314397	6.27E-12	1.37E-10	16.87049
WDR18	-2.43671	10.67614	-8.31292	6.31E-12	1.37E-10	16.86446
RNF160	-0.70473	7.623942	-8.31209	6.33E-12	1.38E-10	16.86103
VCY	1.388304	7.244203	8.31136	6.35E-12	1.38E-10	16.85806
GSG1L	1.404572	7.044639	8.310715	6.37E-12	1.38E-10	16.85542
KLK14	1.818897	7.625801	8.310544	6.37E-12	1.38E-10	16.85472
EIF3G	-0.98415	7.637802	-8.31048	6.37E-12	1.38E-10	16.85447
TSPAN4	-1.24718	7.805655	-8.31044	6.37E-12	1.38E-10	16.85431
HLA-A	-1.9938	9.037921	-8.30724	6.46E-12	1.40E-10	16.84118
RPL38	-2.5384	9.754437	-8.30517	6.52E-12	1.41E-10	16.83272
RBM10	-1.33911	8.724789	-8.30458	6.53E-12	1.41E-10	16.83032
ZC3H11A	-1.19047	7.601587	-8.30218	6.60E-12	1.42E-10	16.82051
SDHAP3	1.482401	8.623644	8.300259	6.65E-12	1.43E-10	16.81264
ART5	0.938582	6.883628	8.299771	6.66E-12	1.43E-10	16.81064
IL18	1.604736	8.707664	8.29537	6.79E-12	1.46E-10	16.79263

ANKRD44	0.890997	7.597685	8.293071	6.85E-12	1.47E-10	16.78323
OR5M9	0.807663	6.847071	8.289924	6.94E-12	1.49E-10	16.77035
GSDMB	1.123039	10.08052	8.289443	6.96E-12	1.49E-10	16.76838
C8orf37	1.125725	9.667967	8.289267	6.96E-12	1.49E-10	16.76766
TPRXL	1.056357	7.008832	8.288387	6.99E-12	1.49E-10	16.76406
C6orf111	-1.41532	8.323246	-8.2864	7.05E-12	1.50E-10	16.75592
KCNC2	1.304093	7.163522	8.28632	7.05E-12	1.50E-10	16.7556
KLHL22	-0.93911	8.227801	-8.28596	7.06E-12	1.50E-10	16.75412
THOC2	-0.91073	7.31026	-8.28394	7.12E-12	1.51E-10	16.74588
CEP290	-1.20065	7.53531	-8.28211	7.17E-12	1.52E-10	16.73838
FAM175A	1.634	8.892323	8.281357	7.19E-12	1.53E-10	16.73529
TFAMP1	1.518499	10.43764	8.280736	7.21E-12	1.53E-10	16.73275
KCNH2	0.958855	7.061156	8.280046	7.23E-12	1.53E-10	16.72992
SNORD80	-1.43783	7.83324	-8.27827	7.29E-12	1.54E-10	16.72264
UBXN4	-1.13718	7.798927	-8.2779	7.30E-12	1.54E-10	16.72113
SNORD96	-1.69721	8.146795	-8.27573	7.37E-12	1.55E-10	16.71225
KRT77	0.904011	6.834346	8.274888	7.39E-12	1.56E-10	16.70882
ST6GAL1	-1.50901	8.817266	-8.2739	7.42E-12	1.56E-10	16.70476
CTCFL	1.255053	7.072286	8.270172	7.54E-12	1.58E-10	16.68952
ST3GAL2	-1.38093	8.387781	-8.26814	7.60E-12	1.59E-10	16.68122
KAAG1	1.879969	7.522326	8.263965	7.73E-12	1.62E-10	16.66412
VPS52	-0.94638	8.391247	-8.26018	7.86E-12	1.64E-10	16.64862
C1orf61	1.054691	7.160075	8.259923	7.87E-12	1.64E-10	16.64758
FSHB	0.745131	6.791317	8.259517	7.88E-12	1.64E-10	16.64591
ACY1	-2.12474	8.768761	-8.25829	7.92E-12	1.65E-10	16.64089
CLDN18	1.03246	6.951834	8.255943	8.00E-12	1.66E-10	16.63129
OR8U8	1.219788	6.957602	8.25426	8.05E-12	1.67E-10	16.6244
ZNF804B	2.372631	7.735101	8.252241	8.12E-12	1.68E-10	16.61614
CST3	-1.22712	7.971184	-8.25219	8.12E-12	1.68E-10	16.61594
NPSR1	1.25447	7.209445	8.251341	8.15E-12	1.69E-10	16.61246
ORC6L	1.270382	10.93468	8.250016	8.20E-12	1.69E-10	16.60703
CD151	-1.79588	8.757249	-8.24948	8.22E-12	1.70E-10	16.60486
U2AF2	-1.27611	7.719201	-8.24944	8.22E-12	1.70E-10	16.60467
LOC15018	1.175317	6.947399	8.24736	8.29E-12	1.71E-10	16.59617
FAM71F1	0.701864	6.875632	8.24718	8.29E-12	1.71E-10	16.59543
C14orf121	2.550386	8.560151	8.245421	8.36E-12	1.72E-10	16.58823
LOC72834	1.163945	6.942055	8.245196	8.36E-12	1.72E-10	16.58731
PRAMEF1	1.052535	7.077833	8.238749	8.59E-12	1.76E-10	16.56092
XKR3	1.235585	6.994967	8.238241	8.61E-12	1.77E-10	16.55884
SNORD36	-1.90007	8.413151	-8.23506	8.72E-12	1.79E-10	16.54582
MFSD3	-1.27984	9.826074	-8.23338	8.78E-12	1.80E-10	16.53896
PON2	-1.19164	7.807418	-8.22973	8.92E-12	1.82E-10	16.52401
DHX37	-1.46728	8.530466	-8.22819	8.98E-12	1.83E-10	16.51769
SNORD68	-1.80611	8.287151	-8.22685	9.03E-12	1.84E-10	16.51222
CLIC1	-0.95169	8.212073	-8.22541	9.08E-12	1.85E-10	16.50635
TFPT	-1.16381	7.4816	-8.22245	9.19E-12	1.87E-10	16.49422
GPR179	1.204245	7.146631	8.220645	9.26E-12	1.88E-10	16.48683
PKD1L1	1.134709	7.318859	8.216585	9.42E-12	1.91E-10	16.47021
LOC40098	-0.87627	7.321209	-8.21431	9.51E-12	1.93E-10	16.46092
PRKCB1	1.435768	7.824531	8.213688	9.53E-12	1.93E-10	16.45836
SNORD10	-2.01022	8.655858	-8.20747	9.78E-12	1.98E-10	16.43291
QRICH1	-1.03858	8.164181	-8.20584	9.85E-12	1.99E-10	16.42621
LILRB3	1.388138	11.04667	8.203992	9.93E-12	2.00E-10	16.41867
FOXD4L2	1.566555	7.21606	8.203939	9.93E-12	2.00E-10	16.41845
BNIP1	0.99189	7.131673	8.203124	9.96E-12	2.01E-10	16.41512
CARS2	-0.86307	7.136064	-8.20214	1.00E-11	2.01E-10	16.41108
RAD51	1.641514	9.335369	8.201751	1.00E-11	2.02E-10	16.4095
IL9R	1.532514	7.288196	8.200714	1.01E-11	2.02E-10	16.40525

UQCRC1	-2.12354	8.721044	-8.19984	1.01E-11	2.03E-10	16.40167
TIGD1	1.402203	7.902875	8.198104	1.02E-11	2.04E-10	16.39457
C5orf33	-1.00706	7.452149	-8.19658	1.02E-11	2.05E-10	16.38832
HRB	-0.93485	8.315431	-8.19537	1.03E-11	2.06E-10	16.38337
HES2	0.743767	6.815833	8.193875	1.04E-11	2.07E-10	16.37726
GFOD2	-1.17059	7.529676	-8.19319	1.04E-11	2.07E-10	16.37446
FLJ40113	2.370505	9.43866	8.192202	1.04E-11	2.08E-10	16.37042
SNORD67	-1.90613	10.55798	-8.19218	1.04E-11	2.08E-10	16.37034
SPTBN4	1.447166	7.407375	8.191677	1.04E-11	2.08E-10	16.36827
TMEM127	-1.86957	8.758569	-8.19166	1.05E-11	2.08E-10	16.36818
MIR744	1.072722	7.131895	8.190683	1.05E-11	2.09E-10	16.3642
MRPS18A	-0.85196	7.4197	-8.19056	1.05E-11	2.09E-10	16.36368
GHRH	0.802796	6.812059	8.187214	1.06E-11	2.11E-10	16.35
UBQLN1	-0.92681	7.494062	-8.18711	1.06E-11	2.11E-10	16.34959
RAB5C	-1.09513	8.595837	-8.18649	1.07E-11	2.11E-10	16.34703
RESP18	0.948285	6.876988	8.184284	1.08E-11	2.13E-10	16.338
RPL14	-1.33592	8.759555	-8.1819	1.09E-11	2.15E-10	16.32824
CD164	-1.11094	7.785921	-8.17982	1.10E-11	2.17E-10	16.31975
OR2L8	1.73234	7.277341	8.178577	1.10E-11	2.18E-10	16.31465
C21orf2	-1.39402	8.132275	-8.17747	1.11E-11	2.19E-10	16.3101
EIF2AK4	1.437722	10.57771	8.177126	1.11E-11	2.19E-10	16.30871
TNRC6A	-1.03506	7.903478	-8.17607	1.12E-11	2.19E-10	16.30439
FLJ45422	1.891853	7.834312	8.17271	1.13E-11	2.22E-10	16.29063
SLC44A2	-1.60139	7.978695	-8.17142	1.14E-11	2.23E-10	16.28535
LIME1	-2.25832	9.53485	-8.16955	1.15E-11	2.25E-10	16.2777
SPACA5B	2.156064	7.557893	8.167993	1.15E-11	2.26E-10	16.27132
C14orf85	1.776134	9.490488	8.166216	1.16E-11	2.27E-10	16.26405
PJCG6	1.341021	7.17592	8.164545	1.17E-11	2.29E-10	16.25721
CDH8	1.278691	7.063856	8.163891	1.17E-11	2.29E-10	16.25453
LOC64136	0.930329	7.135046	8.163347	1.18E-11	2.30E-10	16.25231
LRRRC37A4	1.084241	7.131999	8.158495	1.20E-11	2.34E-10	16.23245
STXBP3	-0.93176	7.257563	-8.15687	1.21E-11	2.35E-10	16.22579
DUSP8	1.250719	8.205031	8.154483	1.22E-11	2.37E-10	16.21602
SNORD8	-2.06464	9.125634	-8.15358	1.22E-11	2.38E-10	16.21232
PCBP2	-0.94616	7.970243	-8.15274	1.23E-11	2.39E-10	16.20888
CTSD	-1.18343	7.978295	-8.14738	1.26E-11	2.44E-10	16.18697
SNORD52	-1.57863	8.105698	-8.14387	1.27E-11	2.47E-10	16.1726
SPHK2	-1.28448	7.689148	-8.14373	1.28E-11	2.47E-10	16.172
EIF4EBP2	-1.50932	9.142825	-8.14372	1.28E-11	2.47E-10	16.17196
PTPRK	-0.86145	7.490063	-8.14246	1.28E-11	2.48E-10	16.16681
SNORD66	-2.51449	11.14765	-8.14185	1.29E-11	2.48E-10	16.16429
XKR5	1.415959	7.179877	8.139957	1.30E-11	2.50E-10	16.15656
IL17F	2.416301	7.499624	8.138439	1.30E-11	2.51E-10	16.15035
CTDSP2	-0.80322	8.027099	-8.1381	1.31E-11	2.51E-10	16.14897
LY9	0.992825	7.221219	8.136571	1.31E-11	2.53E-10	16.1427
WBP2	-2.00711	9.031884	-8.13406	1.33E-11	2.55E-10	16.13243
SOX17	1.958008	8.529077	8.133137	1.33E-11	2.56E-10	16.12865
ZNF860	0.956304	7.703629	8.127212	1.37E-11	2.62E-10	16.10439
OR52W1	2.515455	8.018565	8.127158	1.37E-11	2.62E-10	16.10418
ARL17P1	1.940079	8.057315	8.125913	1.37E-11	2.63E-10	16.09908
LMOD3	1.049659	7.114102	8.125514	1.38E-11	2.63E-10	16.09744
GFRA4	0.822508	6.860908	8.125438	1.38E-11	2.63E-10	16.09713
COX5B	-1.57902	8.044107	-8.1249	1.38E-11	2.63E-10	16.09492
APOC2	-2.42473	9.564749	-8.12305	1.39E-11	2.65E-10	16.08736
NDFIP1	-1.56671	8.516014	-8.12184	1.40E-11	2.66E-10	16.0824
TCEA1	-1.18455	8.577467	-8.12115	1.40E-11	2.67E-10	16.07956
OR5F1	1.271249	7.133025	8.117796	1.42E-11	2.70E-10	16.06585
OR2M4	2.29079	7.809731	8.116592	1.43E-11	2.71E-10	16.06092

ALDOA	-1.18027	8.430677	-8.11604	1.43E-11	2.72E-10	16.05866
VWF	-2.45427	10.57152	-8.11216	1.45E-11	2.76E-10	16.04277
RPS16	-2.3971	10.04933	-8.11137	1.46E-11	2.76E-10	16.03954
IL32	-1.95718	8.677197	-8.11133	1.46E-11	2.76E-10	16.03937
RDBP	-1.10245	7.938814	-8.11066	1.46E-11	2.77E-10	16.03666
PROC	-2.03251	9.054973	-8.11023	1.47E-11	2.77E-10	16.03486
ZSCAN12I	1.008032	7.299009	8.107631	1.48E-11	2.80E-10	16.02424
RMRP	-2.62518	11.49293	-8.1075	1.48E-11	2.80E-10	16.0237
RARRES2	-1.69381	9.060965	-8.10643	1.49E-11	2.81E-10	16.01934
DPPA2	0.875832	6.997337	8.104261	1.50E-11	2.83E-10	16.01045
C12orf50	1.180408	6.974614	8.102461	1.51E-11	2.85E-10	16.00308
SPRR2B	1.46555	7.004375	8.101126	1.52E-11	2.86E-10	15.99762
SNORD27	-1.42997	7.819091	-8.09653	1.55E-11	2.91E-10	15.97881
MYOZ3	1.463555	7.164768	8.094446	1.57E-11	2.94E-10	15.97027
CAPRIN1	-1.03827	7.61272	-8.09349	1.57E-11	2.95E-10	15.96635
RAN	-0.86987	8.301715	-8.09258	1.58E-11	2.95E-10	15.96262
LY6G6E	0.964269	6.919118	8.091352	1.59E-11	2.97E-10	15.9576
PPP2R5C	-1.02283	8.140151	-8.08922	1.60E-11	2.99E-10	15.94886
STUB1	-1.05245	7.3237	-8.08827	1.61E-11	3.00E-10	15.94501
RPL5	-2.22185	8.672307	-8.08779	1.61E-11	3.00E-10	15.94302
FMO6P	0.985755	7.195632	8.085969	1.62E-11	3.02E-10	15.93557
CYB5A	-2.02635	9.538334	-8.08519	1.63E-11	3.03E-10	15.93237
FAM86C	1.868261	8.619049	8.085076	1.63E-11	3.03E-10	15.93192
SLC25A28	-1.17069	8.191521	-8.08441	1.63E-11	3.03E-10	15.92919
ZMYM2	-1.07587	7.561124	-8.08225	1.65E-11	3.06E-10	15.92034
PPCS	-1.52461	8.284431	-8.08128	1.65E-11	3.07E-10	15.91636
ACACB	-2.4238	9.369778	-8.07996	1.66E-11	3.08E-10	15.91099
STX7	-0.72232	7.191603	-8.07987	1.66E-11	3.08E-10	15.91061
IL5RA	0.887463	7.035513	8.079273	1.67E-11	3.09E-10	15.90816
MGMT	-1.68154	8.644123	-8.07884	1.67E-11	3.09E-10	15.90638
POU2F3	0.713499	6.855095	8.075651	1.69E-11	3.13E-10	15.89333
SDC3	-1.29404	7.978657	-8.07453	1.70E-11	3.14E-10	15.88872
COBLL1	-1.6285	9.815466	-8.07304	1.71E-11	3.16E-10	15.88266
CCT3	-1.19395	7.747435	-8.0695	1.74E-11	3.20E-10	15.86817
OR4F17	2.684062	8.104916	8.068554	1.74E-11	3.21E-10	15.86428
INSL6	0.989279	6.972279	8.065956	1.76E-11	3.24E-10	15.85365
ATF4	-1.87375	8.699659	-8.0649	1.77E-11	3.25E-10	15.84932
FAM96A	-0.74705	7.311453	-8.06193	1.79E-11	3.29E-10	15.83717
KRT71	1.830048	7.254203	8.061468	1.80E-11	3.29E-10	15.83527
MIR370	1.963937	7.533356	8.060885	1.80E-11	3.30E-10	15.83289
MED25	-1.82181	7.901087	-8.06018	1.81E-11	3.30E-10	15.82999
OR6F1	1.108147	6.813468	8.059041	1.82E-11	3.32E-10	15.82534
MYO18B	1.485678	7.188851	8.058848	1.82E-11	3.32E-10	15.82455
KLK2	0.802256	6.85497	8.057866	1.82E-11	3.33E-10	15.82053
PROX2	1.190765	7.016308	8.057552	1.83E-11	3.33E-10	15.81924
CYC1	-1.37375	7.85646	-8.057	1.83E-11	3.33E-10	15.81699
MGC1670	1.413529	8.690323	8.055972	1.84E-11	3.34E-10	15.81278
SSX2	1.104099	7.214292	8.054339	1.85E-11	3.36E-10	15.80609
A2ML1	0.701103	6.733532	8.053317	1.86E-11	3.37E-10	15.80191
OR51V1	1.16579	6.994014	8.052437	1.87E-11	3.38E-10	15.79831
CCDC106	-1.82248	8.351979	-8.05174	1.87E-11	3.39E-10	15.79544
XBP1	-1.03715	7.673679	-8.05053	1.88E-11	3.40E-10	15.79051
OR51Q1	2.495968	7.961659	8.047956	1.90E-11	3.43E-10	15.77996
THRAP3	-0.8423	7.798197	-8.04795	1.90E-11	3.43E-10	15.77994
ZNF613	1.021145	7.533693	8.047636	1.90E-11	3.43E-10	15.77865
LOC10012	-1.9014	8.504056	-8.04716	1.91E-11	3.44E-10	15.77669
ARD1A	-1.63163	8.511038	-8.0453	1.92E-11	3.46E-10	15.7691
C1R	-1.86757	9.050339	-8.04488	1.93E-11	3.46E-10	15.76739

PLA2G2E	1.6183	7.345349	8.04481	1.93E-11	3.46E-10	15.76709
GRHPR	-1.2188	7.980347	-8.04424	1.93E-11	3.47E-10	15.76473
PAH	-1.7928	8.227215	-8.04238	1.95E-11	3.49E-10	15.75712
PSMA5	-1.71288	8.123884	-8.04229	1.95E-11	3.49E-10	15.75678
HOXD13	1.190478	7.004402	8.041933	1.95E-11	3.49E-10	15.75531
GGA1	1.241011	8.815983	8.041555	1.95E-11	3.49E-10	15.75376
AKR1C2	-1.82422	9.369277	-8.04151	1.95E-11	3.49E-10	15.75359
ZNF674	1.71196	11.40713	8.040085	1.96E-11	3.51E-10	15.74774
F2R	0.810616	11.37333	8.040057	1.96E-11	3.51E-10	15.74763
CPB2	-1.25646	7.653131	-8.03811	1.98E-11	3.53E-10	15.73965
PRDX5	-1.224	7.873236	-8.03749	1.99E-11	3.54E-10	15.73713
FIZ1	-1.07976	7.687569	-8.03748	1.99E-11	3.54E-10	15.7371
SEC1	1.550648	7.315692	8.036905	1.99E-11	3.54E-10	15.73473
TM4SF4	-2.73849	10.42019	-8.0339	2.02E-11	3.58E-10	15.72242
GTF2IRD2	1.77215	10.66953	8.032459	2.03E-11	3.60E-10	15.71653
SOD1	-1.88766	8.83149	-8.03222	2.03E-11	3.60E-10	15.71553
GALK1	-2.23165	9.688896	-8.03127	2.04E-11	3.61E-10	15.71166
AGXT	-2.59721	9.853196	-8.02943	2.05E-11	3.64E-10	15.70414
FOLR4	1.259478	7.068831	8.028288	2.06E-11	3.65E-10	15.69945
GSTO1	-1.65078	8.801136	-8.02621	2.08E-11	3.68E-10	15.69095
GLTSCR1	-1.41106	7.930933	-8.02571	2.09E-11	3.68E-10	15.68889
NUCB2	-1.59312	7.928132	-8.02446	2.10E-11	3.70E-10	15.68378
SNORA36	-2.11162	8.601311	-8.02322	2.11E-11	3.71E-10	15.6787
TPT1	-2.28966	10.71028	-8.02203	2.12E-11	3.73E-10	15.67385
A2BP1	2.240027	7.781494	8.020605	2.13E-11	3.75E-10	15.668
OR2T3	1.494371	7.201288	8.020509	2.13E-11	3.75E-10	15.66761
SLC41A2	-1.36737	7.856052	-8.02042	2.13E-11	3.75E-10	15.66726
ACTL6B	2.371336	7.801311	8.020157	2.13E-11	3.75E-10	15.66617
DDX25	0.947501	7.003357	8.019627	2.14E-11	3.75E-10	15.664
GATA3	1.513403	7.239617	8.019296	2.14E-11	3.75E-10	15.66264
C11orf48	-0.89906	7.453896	-8.01803	2.15E-11	3.77E-10	15.65746
DHX8	-1.2246	8.282018	-8.01746	2.16E-11	3.78E-10	15.65512
SLC39A3	-1.09055	8.297503	-8.01401	2.19E-11	3.82E-10	15.641
OR6Y1	0.880501	6.924751	8.013887	2.19E-11	3.82E-10	15.6405
CIB2	1.047391	7.799689	8.01382	2.19E-11	3.82E-10	15.64023
PSCA	2.26449	7.999871	8.012819	2.20E-11	3.83E-10	15.63613
ADRB1	1.354368	7.148035	8.007914	2.25E-11	3.91E-10	15.61606
OR5A1	0.938775	6.937273	8.007386	2.25E-11	3.91E-10	15.61389
SNORA25	-1.54331	8.063346	-8.00702	2.25E-11	3.92E-10	15.61238
KIR2DL3	2.359843	7.970459	8.00669	2.26E-11	3.92E-10	15.61104
GOLPH3	-0.84289	7.557577	-8.00668	2.26E-11	3.92E-10	15.61099
BGN	-2.69407	9.713761	-8.00466	2.28E-11	3.95E-10	15.60274
CD46	-0.79103	7.329277	-8.0018	2.30E-11	3.99E-10	15.59101
XRCC1	-1.04574	7.338817	-7.99909	2.33E-11	4.03E-10	15.57994
SERPINA1	-1.67646	9.209878	-7.99799	2.34E-11	4.04E-10	15.57543
PSORS1C2	2.633096	8.167319	7.997174	2.35E-11	4.05E-10	15.57209
SNORA55	-2.00279	8.874651	-7.99714	2.35E-11	4.05E-10	15.57194
SDF4	-0.98216	7.978027	-7.99095	2.41E-11	4.15E-10	15.54662
UTS2D	1.087827	7.245601	7.987623	2.44E-11	4.20E-10	15.533
VKORC1L1	-0.8431	7.33796	-7.98695	2.45E-11	4.21E-10	15.53025
PRAMEF1B	2.420124	7.757334	7.986714	2.45E-11	4.21E-10	15.52928
HAAO	-1.2108	7.85947	-7.9865	2.46E-11	4.21E-10	15.52841
OR52B6	2.829958	8.129794	7.985545	2.46E-11	4.22E-10	15.52449
MEI1	1.225828	7.454085	7.984814	2.47E-11	4.23E-10	15.5215
DEFB129	1.526786	7.204745	7.981597	2.51E-11	4.28E-10	15.50833
NPC2	-2.12296	9.646691	-7.97959	2.53E-11	4.31E-10	15.50014
TBCA	-1.94663	10.75957	-7.97828	2.54E-11	4.33E-10	15.49477
C7orf4	0.78373	6.792665	7.976507	2.56E-11	4.36E-10	15.4875

OR2B11	2.51408	7.715366	7.975285	2.57E-11	4.37E-10	15.48249
MYBPC1	0.896547	6.975539	7.973665	2.59E-11	4.40E-10	15.47586
RPL4	-1.42671	8.321018	-7.97024	2.63E-11	4.45E-10	15.46186
CP	-2.04869	9.366425	-7.96981	2.63E-11	4.45E-10	15.46008
C2orf29	-1.62401	8.403629	-7.96949	2.64E-11	4.45E-10	15.45879
GP6	1.422729	7.384288	7.969378	2.64E-11	4.45E-10	15.45832
BARHL1	1.478544	7.146165	7.968913	2.64E-11	4.46E-10	15.45641
HYI	-1.43476	7.726826	-7.96801	2.65E-11	4.47E-10	15.45272
RPN2	-2.11944	8.614431	-7.96763	2.66E-11	4.48E-10	15.45115
SNORA73	-2.13116	9.881873	-7.96573	2.68E-11	4.50E-10	15.44338
FGFR3	-1.24122	9.651274	-7.96492	2.69E-11	4.51E-10	15.44007
LRRC10	0.946918	7.067889	7.964359	2.69E-11	4.52E-10	15.43777
HSPA9	-1.7266	9.242579	-7.96267	2.71E-11	4.55E-10	15.43084
FAM83A	0.9737	6.961205	7.961346	2.73E-11	4.56E-10	15.42544
YIPF3	-1.28712	8.583712	-7.96127	2.73E-11	4.56E-10	15.42512
SNORA1	-1.25552	7.655915	-7.96126	2.73E-11	4.56E-10	15.4251
SEC31A	-1.05412	7.715383	-7.96123	2.73E-11	4.56E-10	15.42495
EFNA1	-1.97963	8.375154	-7.96108	2.73E-11	4.56E-10	15.42437
NME5	1.529074	7.263181	7.956916	2.78E-11	4.63E-10	15.40731
ZNF652	1.318681	10.76766	7.954596	2.80E-11	4.68E-10	15.39781
ARHGEF2	-0.83369	7.822401	-7.95239	2.83E-11	4.72E-10	15.38877
KCNS1	1.698999	7.555846	7.946371	2.90E-11	4.83E-10	15.36415
STK36	-1.56411	8.540763	-7.94614	2.90E-11	4.83E-10	15.36321
MIXL1	1.710948	7.29154	7.945509	2.91E-11	4.84E-10	15.36062
SELV	2.058862	7.634942	7.942962	2.94E-11	4.88E-10	15.3502
BRIX1	-1.17692	7.665319	-7.94284	2.94E-11	4.88E-10	15.34969
RPL37A	-1.26764	8.178821	-7.94113	2.97E-11	4.91E-10	15.34269
BVES	1.05447	7.103262	7.937149	3.02E-11	4.99E-10	15.3264
TACR3	1.357097	7.401447	7.936331	3.03E-11	5.01E-10	15.32305
IFITM2	-1.7397	10.56712	-7.93502	3.04E-11	5.03E-10	15.31768
SNORD85	-2.36451	10.07054	-7.93356	3.06E-11	5.05E-10	15.31173
STRA13	-1.66579	8.85295	-7.93345	3.06E-11	5.05E-10	15.31126
CSF3	1.603994	7.340303	7.933	3.07E-11	5.06E-10	15.30942
PICK1	-1.36983	8.03748	-7.93231	3.08E-11	5.07E-10	15.30659
ATP5I	-1.98007	10.64608	-7.92727	3.14E-11	5.17E-10	15.28599
KRT13	1.854009	7.475038	7.925812	3.16E-11	5.19E-10	15.28
ZNF280B	1.384511	7.226531	7.925794	3.16E-11	5.19E-10	15.27993
NEFL	2.738025	8.182715	7.925223	3.17E-11	5.20E-10	15.27759
HORMAD1	1.481665	7.359656	7.924805	3.17E-11	5.21E-10	15.27588
MIR575	1.446567	7.19712	7.922976	3.20E-11	5.24E-10	15.2684
TOMM20	-1.3229	8.907682	-7.92296	3.20E-11	5.24E-10	15.26833
TSSC4	-0.8678	7.499432	-7.92162	3.22E-11	5.26E-10	15.26284
ESR2	0.873492	6.85682	7.92067	3.23E-11	5.28E-10	15.25896
SLC24A2	1.927026	7.505103	7.920494	3.23E-11	5.28E-10	15.25824
SERPINC1	-2.3676	9.773591	-7.91942	3.25E-11	5.30E-10	15.25385
BAT3	-1.04606	8.487195	-7.91871	3.26E-11	5.31E-10	15.25094
C9orf129	1.034979	6.935492	7.917213	3.28E-11	5.34E-10	15.24481
B2M	-1.41758	7.935239	-7.91599	3.29E-11	5.36E-10	15.23981
LAMP2	-0.96052	7.60103	-7.91517	3.30E-11	5.38E-10	15.23646
COLQ	0.733909	7.114533	7.914823	3.31E-11	5.38E-10	15.23503
SLC26A8	1.189303	7.197944	7.912897	3.34E-11	5.42E-10	15.22714
TEKT3	0.911048	6.834947	7.911887	3.35E-11	5.43E-10	15.22301
GTF2I	-1.35517	8.056711	-7.91183	3.35E-11	5.43E-10	15.22279
TCHHL1	0.764302	6.732984	7.911525	3.35E-11	5.44E-10	15.22153
OGT	-0.82368	7.437065	-7.91125	3.36E-11	5.44E-10	15.2204
WFDC5	1.113166	7.128846	7.91053	3.37E-11	5.45E-10	15.21746
SP7	0.88399	6.882048	7.908739	3.39E-11	5.48E-10	15.21013
HIST1H2B	-1.47326	8.400601	-7.90807	3.40E-11	5.49E-10	15.20739

SNORA63	-1.57437	8.588514	-7.90764	3.41E-11	5.50E-10	15.20565
ZNF804A	1.809321	7.595968	7.907367	3.41E-11	5.50E-10	15.20451
INO80B	-1.15158	7.640078	-7.90688	3.42E-11	5.51E-10	15.2025
TIMP2	-1.31532	7.827789	-7.90616	3.43E-11	5.52E-10	15.19958
PAWR	-1.02786	7.755416	-7.90483	3.45E-11	5.55E-10	15.19412
MAN2B2	-0.76343	8.264995	-7.90351	3.47E-11	5.57E-10	15.18873
NINJ1	-1.07429	7.925909	-7.90349	3.47E-11	5.57E-10	15.18863
SNORD89	-2.3089	10.70138	-7.89936	3.53E-11	5.66E-10	15.17175
GAD2	1.35976	6.973657	7.899319	3.53E-11	5.66E-10	15.17158
CYP4V2	-1.40898	8.153298	-7.89896	3.53E-11	5.66E-10	15.17009
TNPO2	-1.16757	7.804026	-7.89693	3.56E-11	5.71E-10	15.16178
GOLGA6B	0.919237	7.138742	7.894722	3.60E-11	5.75E-10	15.15276
ITGB4BP	-0.83798	7.205637	-7.89431	3.60E-11	5.76E-10	15.15106
NCRNA00	0.812136	6.854199	7.89386	3.61E-11	5.77E-10	15.14924
OR9I1	1.112874	7.033972	7.891661	3.64E-11	5.81E-10	15.14024
MIR96	0.899233	6.872439	7.889674	3.67E-11	5.86E-10	15.1321
RPS25	-2.91874	10.62391	-7.88845	3.69E-11	5.88E-10	15.1271
CDC37	-2.49141	11.13429	-7.88368	3.77E-11	6.00E-10	15.10756
NOP14	-1.22606	8.477273	-7.88268	3.78E-11	6.02E-10	15.10348
FAM153B	2.184236	9.902379	7.881024	3.81E-11	6.05E-10	15.09671
DSP	-0.94782	7.779726	-7.88013	3.82E-11	6.07E-10	15.09306
KRT10	-1.00783	7.820703	-7.87942	3.83E-11	6.09E-10	15.09014
HACL1	-1.55121	7.810551	-7.87878	3.84E-11	6.10E-10	15.08751
LONRF3	-0.77628	7.348641	-7.87737	3.87E-11	6.13E-10	15.08176
LOR	2.071813	7.641454	7.876343	3.88E-11	6.15E-10	15.07755
CNOT2	-0.71073	7.064478	-7.87514	3.90E-11	6.18E-10	15.07262
PEA15	-1.85826	8.370982	-7.87229	3.95E-11	6.24E-10	15.06098
TCEAL6	1.150879	6.991486	7.872091	3.95E-11	6.25E-10	15.06015
PTPRT	1.476199	7.291869	7.871011	3.97E-11	6.27E-10	15.05573
TTLL10	1.530849	7.201842	7.870761	3.98E-11	6.27E-10	15.05471
SNORA18	-1.98012	9.141784	-7.87002	3.99E-11	6.29E-10	15.05166
XAGE1	1.179413	7.299696	7.869202	4.00E-11	6.30E-10	15.04833
LAMA1	1.422419	7.155937	7.86539	4.06E-11	6.40E-10	15.03273
DNAJC17	-1.20418	8.109781	-7.86325	4.10E-11	6.45E-10	15.02396
LPO	1.588954	7.202119	7.863137	4.10E-11	6.45E-10	15.02351
HSPA8	-1.34322	8.806701	-7.85975	4.16E-11	6.53E-10	15.00967
FKBP1P1	1.351831	7.130433	7.859666	4.16E-11	6.53E-10	15.00931
OR6B1	1.505528	7.18676	7.85897	4.17E-11	6.54E-10	15.00646
PRL	0.982637	6.917925	7.858419	4.18E-11	6.55E-10	15.0042
SERPINB9	1.356242	8.273022	7.85836	4.19E-11	6.55E-10	15.00396
HADHA	-1.56763	8.866435	-7.8569	4.21E-11	6.58E-10	14.998
C7orf50	-1.76644	8.995714	-7.85605	4.23E-11	6.60E-10	14.99451
TXNL1	-1.22719	8.270645	-7.8556	4.23E-11	6.61E-10	14.99265
HNRNPUL	-1.28699	8.174109	-7.85499	4.24E-11	6.62E-10	14.99017
HNRNPAE	-1.2677	8.948655	-7.8509	4.32E-11	6.73E-10	14.97344
SFRS6	-1.48143	8.112505	-7.84927	4.35E-11	6.76E-10	14.96678
LOC10013	0.896429	6.851263	7.848973	4.35E-11	6.77E-10	14.96555
MSN	-1.15214	8.042777	-7.84744	4.38E-11	6.79E-10	14.95928
TSPAN33	-1.7794	8.759533	-7.84743	4.38E-11	6.79E-10	14.95922
KRT6C	1.675811	7.342605	7.847267	4.38E-11	6.79E-10	14.95857
MMRN1	1.870788	8.233976	7.845667	4.41E-11	6.83E-10	14.95202
PIK3R1	-0.78612	7.733668	-7.84472	4.43E-11	6.85E-10	14.94814
C2orf40	1.124896	7.19377	7.844701	4.43E-11	6.85E-10	14.94807
DDT	-1.81599	11.23659	-7.84431	4.44E-11	6.85E-10	14.94648
ZSCAN4	1.442341	7.214229	7.84316	4.46E-11	6.88E-10	14.94176
NELL1	1.02266	6.913708	7.841604	4.49E-11	6.92E-10	14.9354
PAFAH1B3	-1.69074	8.480828	-7.84074	4.50E-11	6.94E-10	14.93188
RASSF6	0.872047	7.377694	7.840131	4.52E-11	6.95E-10	14.92937

LOC15221	0.882172	6.956184	7.837446	4.57E-11	7.02E-10	14.91839
CLDN10	0.758474	6.80254	7.835199	4.61E-11	7.08E-10	14.90919
RABEPK	-1.37101	8.231848	-7.83386	4.64E-11	7.11E-10	14.90372
TCEB3B	2.242019	7.733032	7.83277	4.66E-11	7.13E-10	14.89925
DSCR10	2.24763	7.938212	7.831302	4.68E-11	7.16E-10	14.89325
PHF3	-0.83637	7.445382	-7.82981	4.71E-11	7.20E-10	14.88712
HOXA2	1.636325	7.746731	7.828506	4.74E-11	7.23E-10	14.88181
LOC64814	2.40443	7.966001	7.828397	4.74E-11	7.23E-10	14.88136
LOC10012	0.788784	6.959816	7.826907	4.77E-11	7.27E-10	14.87527
PRR20E	1.141408	7.023864	7.823332	4.84E-11	7.37E-10	14.86064
OR4K5	1.276974	6.967601	7.822245	4.86E-11	7.40E-10	14.85619
DRAP1	-1.2062	9.025801	-7.822	4.87E-11	7.40E-10	14.8552
RPL26	-2.09705	8.749161	-7.82078	4.89E-11	7.43E-10	14.85022
PPFIA4	2.246143	8.114533	7.820677	4.90E-11	7.43E-10	14.84978
KLK8	1.387745	7.040276	7.819453	4.92E-11	7.47E-10	14.84477
VBP1	-0.86384	7.435687	-7.81914	4.93E-11	7.47E-10	14.84349
DPP6	0.940228	6.937087	7.818394	4.94E-11	7.49E-10	14.84043
SCGB1A1	2.706388	8.417822	7.816123	4.99E-11	7.56E-10	14.83114
PCBD2	0.935444	8.065068	7.815336	5.01E-11	7.57E-10	14.82792
SEBOX	1.184839	7.235752	7.815095	5.01E-11	7.57E-10	14.82694
PRAMEF1	1.871813	8.054422	7.814981	5.01E-11	7.57E-10	14.82647
A2M	-2.31697	8.57384	-7.81489	5.02E-11	7.57E-10	14.8261
MIR422A	1.148361	7.056131	7.814847	5.02E-11	7.57E-10	14.82592
SYN1	1.208617	7.359236	7.812515	5.07E-11	7.64E-10	14.81638
AUH	-1.71895	8.339778	-7.81057	5.11E-11	7.69E-10	14.80841
ANKRD38	1.442689	7.485389	7.809712	5.13E-11	7.71E-10	14.80492
VTN	-1.85996	8.300473	-7.80892	5.14E-11	7.73E-10	14.80167
KRTAP5-2	1.148256	7.044202	7.807349	5.18E-11	7.77E-10	14.79525
RNF165	2.555174	9.148652	7.806547	5.19E-11	7.79E-10	14.79197
KRTAP10-	1.798243	7.350038	7.80638	5.20E-11	7.79E-10	14.79128
C4BPA	-1.90389	8.629236	-7.80612	5.20E-11	7.80E-10	14.79022
C6orf59	0.873749	7.233389	7.805912	5.21E-11	7.80E-10	14.78937
MAPT	1.170798	7.466544	7.802641	5.28E-11	7.90E-10	14.77598
VSTM2A	0.981926	7.029374	7.801936	5.29E-11	7.92E-10	14.7731
ARPM2	1.123513	6.919376	7.799148	5.36E-11	8.00E-10	14.7617
CDC42EP1	-1.21015	7.902317	-7.79871	5.37E-11	8.01E-10	14.75989
SNORA24	-2.53848	10.95729	-7.79823	5.38E-11	8.02E-10	14.75795
SPRR3	1.522936	7.169716	7.798122	5.38E-11	8.02E-10	14.7575
SNORD38	-2.15905	9.263892	-7.79687	5.41E-11	8.06E-10	14.75239
RET	1.346481	7.484176	7.796413	5.42E-11	8.07E-10	14.75051
HSPA4	-1.22048	7.906048	-7.79608	5.42E-11	8.07E-10	14.74916
TXNRD2	-1.5752	9.19178	-7.7945	5.46E-11	8.12E-10	14.7427
NDUFA2	-1.33236	9.142304	-7.7904	5.55E-11	8.25E-10	14.7259
ADD1	-1.66854	8.189836	-7.78985	5.57E-11	8.26E-10	14.72366
ZNF223	1.983639	9.680748	7.789664	5.57E-11	8.26E-10	14.7229
OR8D2	1.042703	6.967501	7.789422	5.58E-11	8.26E-10	14.72191
VIM	-1.39686	8.383081	-7.78935	5.58E-11	8.26E-10	14.7216
CCDC19	1.730497	7.61957	7.787055	5.63E-11	8.33E-10	14.71223
ECGF1	-2.03671	9.279611	-7.78668	5.64E-11	8.34E-10	14.71067
LOC44104	1.01631	7.060426	7.786602	5.64E-11	8.34E-10	14.71037
CYP2F1	0.893385	6.952713	7.786027	5.66E-11	8.35E-10	14.70802
OR10H2	1.24458	7.118527	7.785826	5.66E-11	8.35E-10	14.7072
PDE6H	0.740051	6.787642	7.782525	5.74E-11	8.46E-10	14.6937
PRAP1	-2.55126	9.154369	-7.78158	5.76E-11	8.49E-10	14.68982
COPB2	-1.60031	9.853344	-7.78112	5.77E-11	8.50E-10	14.68794
TRAM1	-1.66503	8.58007	-7.78093	5.78E-11	8.50E-10	14.68715
GJA10	0.965464	6.852124	7.779925	5.80E-11	8.52E-10	14.68306
LOC10013	0.794594	7.097394	7.778489	5.84E-11	8.57E-10	14.67718

RETNLB	1.352271	7.232812	7.778006	5.85E-11	8.58E-10	14.67521
SS18L2	-1.92155	8.489219	-7.7777	5.86E-11	8.58E-10	14.67397
KRTAP1-3	1.609245	7.266819	7.776675	5.88E-11	8.61E-10	14.66976
LOC10013	0.760864	7.126975	7.77652	5.88E-11	8.61E-10	14.66913
RBM46	0.87574	6.913309	7.773648	5.96E-11	8.71E-10	14.65738
RPS4X	-1.24405	7.791937	-7.77294	5.97E-11	8.73E-10	14.65448
MED16	-1.32994	9.714324	-7.77235	5.99E-11	8.75E-10	14.65208
C10orf90	1.006384	6.970476	7.771851	6.00E-11	8.76E-10	14.65003
CNOT1	-0.80709	7.36621	-7.76934	6.06E-11	8.84E-10	14.63975
C11orf85	0.85322	6.888558	7.768471	6.09E-11	8.86E-10	14.63621
N6AMT1	1.486086	8.406985	7.767291	6.12E-11	8.90E-10	14.63138
OR8G2	0.868396	7.072545	7.767194	6.12E-11	8.90E-10	14.63098
TMEM106	1.752175	9.072838	7.764554	6.19E-11	8.99E-10	14.62018
RPL23AP7	1.266731	7.95876	7.762837	6.23E-11	9.05E-10	14.61316
OR4E2	1.624726	7.192539	7.762447	6.24E-11	9.05E-10	14.61156
RHOB	-1.66699	8.382833	-7.76081	6.28E-11	9.10E-10	14.60486
PCDHB17	1.747014	7.817684	7.760309	6.30E-11	9.12E-10	14.60282
CDK3	1.687305	8.970844	7.759896	6.31E-11	9.13E-10	14.60113
SYF2	-0.72779	7.331328	-7.75779	6.36E-11	9.20E-10	14.59253
GBP2	-1.41691	7.709455	-7.75583	6.41E-11	9.26E-10	14.58452
CCDC127	1.694864	8.637627	7.755456	6.42E-11	9.27E-10	14.58297
DSG4	0.979075	7.05779	7.7543	6.45E-11	9.30E-10	14.57824
GUK1	-0.89521	7.461697	-7.75427	6.46E-11	9.30E-10	14.57812
TSKU	-1.42327	10.59347	-7.75349	6.48E-11	9.32E-10	14.57492
S100A2	1.093008	6.984521	7.752851	6.49E-11	9.34E-10	14.57232
FN1	-2.1968	9.462198	-7.75246	6.50E-11	9.35E-10	14.57073
RNU4ATA	-1.77341	11.2877	-7.75233	6.51E-11	9.35E-10	14.57019
TMEM150	-1.37606	7.933282	-7.7499	6.57E-11	9.43E-10	14.56023
NEUROD1	0.711444	6.878369	7.749079	6.60E-11	9.45E-10	14.55689
CRIM1	-1.05115	7.872289	-7.74615	6.68E-11	9.56E-10	14.54493
CAPN9	2.330285	8.073692	7.74576	6.69E-11	9.57E-10	14.54331
TMEM176	-1.08487	7.356847	-7.74448	6.72E-11	9.62E-10	14.53809
TMEM146	1.808671	7.202449	7.743158	6.76E-11	9.66E-10	14.53267
OR2L2	1.333343	7.061041	7.74278	6.77E-11	9.67E-10	14.53113
TBC1D26	0.856863	6.824405	7.741054	6.82E-11	9.72E-10	14.52407
ZFR	-0.80508	7.324567	-7.73948	6.87E-11	9.78E-10	14.51763
RPS13	-1.21949	7.839782	-7.73868	6.89E-11	9.80E-10	14.51436
SLC26A6	-0.96169	7.601542	-7.7338	7.03E-11	9.99E-10	14.49442
TFPI	-1.18917	7.988395	-7.73364	7.03E-11	9.99E-10	14.49373
C3orf36	1.301738	7.610417	7.733571	7.04E-11	9.99E-10	14.49347
LRRN4CL	1.422321	7.323508	7.732927	7.06E-11	1.00E-09	14.49083
FLJ42627	1.530533	7.970497	7.732827	7.06E-11	1.00E-09	14.49042
LMF2	-1.12011	7.845751	-7.73264	7.06E-11	1.00E-09	14.48964
ZNF808	1.270948	7.783142	7.731689	7.09E-11	1.00E-09	14.48577
OR4F4	1.342261	7.180722	7.730383	7.13E-11	1.01E-09	14.48043
FOXI2	1.191768	7.079542	7.729551	7.16E-11	1.01E-09	14.47703
MIR758	1.351531	7.560399	7.729147	7.17E-11	1.01E-09	14.47537
HLA-DMA	-1.64221	7.912372	-7.72812	7.20E-11	1.02E-09	14.47116
MUSK	0.74291	6.87098	7.728019	7.20E-11	1.02E-09	14.47076
ACSS2	-1.65587	8.344456	-7.72798	7.20E-11	1.02E-09	14.47061
SLC13A4	0.988442	7.066354	7.726169	7.26E-11	1.02E-09	14.46319
RGS17	1.074896	7.043205	7.725424	7.28E-11	1.02E-09	14.46015
SF3A3	-2.04675	9.361162	-7.72354	7.34E-11	1.03E-09	14.45244
APEX1	-0.81783	8.150644	-7.72282	7.36E-11	1.03E-09	14.44951
C6orf25	1.185801	7.061668	7.721088	7.41E-11	1.04E-09	14.44242
SNX32	1.874967	7.753176	7.720815	7.42E-11	1.04E-09	14.4413
KRTAP8-1	2.36834	7.738665	7.720162	7.44E-11	1.04E-09	14.43863
PLRG1	-0.74294	7.450649	-7.71822	7.50E-11	1.05E-09	14.4307

COX7C	-1.42772	9.308267	-7.7179	7.51E-11	1.05E-09	14.42937
NDUFB8	-2.46134	9.354513	-7.71385	7.64E-11	1.07E-09	14.41281
GSTM5	2.207781	7.873471	7.713368	7.65E-11	1.07E-09	14.41085
LOXL2	1.62333	7.426305	7.710189	7.76E-11	1.08E-09	14.39785
CMTM8	-2.4666	9.091272	-7.70899	7.79E-11	1.09E-09	14.39296
SNORA49	-2.32613	9.749669	-7.70876	7.80E-11	1.09E-09	14.39202
CDC42SE2	-0.72383	7.410357	-7.70786	7.83E-11	1.09E-09	14.38832
QPRT	-2.57641	10.16502	-7.70778	7.83E-11	1.09E-09	14.38798
OR6M1	2.616103	8.072138	7.700574	8.07E-11	1.12E-09	14.35853
TMBIM6	-1.53654	11.01767	-7.69924	8.12E-11	1.13E-09	14.35308
HDAC2	-0.83628	7.706367	-7.69919	8.12E-11	1.13E-09	14.35287
MGC2712	0.759587	6.78131	7.698185	8.15E-11	1.13E-09	14.34876
CACNG2	1.371468	7.036804	7.695762	8.24E-11	1.14E-09	14.33886
ATG9B	1.534754	7.251392	7.694167	8.29E-11	1.15E-09	14.33234
ANXA8L1	2.027311	7.773996	7.693791	8.30E-11	1.15E-09	14.3308
LRRC37A2	1.160802	7.899032	7.692913	8.33E-11	1.15E-09	14.32721
PEX7	-1.29779	7.603212	-7.69174	8.37E-11	1.16E-09	14.32241
GAGE4	3.698573	9.407052	7.690139	8.43E-11	1.17E-09	14.31587
OR6C65	0.97048	6.841902	7.689038	8.47E-11	1.17E-09	14.31136
GADD45B	-1.57815	8.712454	-7.68621	8.57E-11	1.18E-09	14.29981
DNAH8	0.917264	6.980433	7.684807	8.62E-11	1.19E-09	14.29407
SMARCA2	-1.32728	7.859	-7.68356	8.66E-11	1.19E-09	14.28897
WFDC10B	1.011788	6.980466	7.67971	8.80E-11	1.21E-09	14.27323
LOC72902	1.391884	9.83442	7.67906	8.83E-11	1.21E-09	14.27057
AFAP1L2	0.917169	7.10538	7.678375	8.85E-11	1.22E-09	14.26777
TLN1	-1.59535	8.032702	-7.67688	8.91E-11	1.22E-09	14.26165
OGG1	-1.13757	8.048378	-7.67673	8.91E-11	1.22E-09	14.26106
NRBP2	-1.72733	8.549064	-7.67544	8.96E-11	1.23E-09	14.25579
RIBC2	1.4701	7.299891	7.674514	9.00E-11	1.23E-09	14.25199
SNTB2	-0.9675	7.526246	-7.67445	9.00E-11	1.23E-09	14.25173
TACC2	-0.77087	7.570893	-7.67443	9.00E-11	1.23E-09	14.25164
PABPC1L2	1.600581	7.279959	7.673567	9.03E-11	1.23E-09	14.24811
ACTA2	-2.14307	9.199572	-7.67264	9.07E-11	1.24E-09	14.24431
OR13F1	1.096922	6.950011	7.669989	9.17E-11	1.25E-09	14.23349
AMELX	1.945973	7.485606	7.668111	9.24E-11	1.26E-09	14.22581
ALX1	1.285664	7.267937	7.667481	9.26E-11	1.26E-09	14.22323
MIR54811	2.111496	7.913119	7.666646	9.30E-11	1.27E-09	14.21982
PTEN	-1.12653	8.09843	-7.66576	9.33E-11	1.27E-09	14.2162
SNORA16	-1.72142	10.45083	-7.66524	9.35E-11	1.27E-09	14.21407
SLC25A39	-2.26474	10.39435	-7.6636	9.41E-11	1.28E-09	14.20736
UQCRCQ	-0.93052	7.528716	-7.66325	9.43E-11	1.28E-09	14.20595
FAM26C	1.223132	6.925213	7.661701	9.49E-11	1.29E-09	14.19961
CDC123	-2.24625	8.724853	-7.65561	9.73E-11	1.32E-09	14.17469
BMS1P5	1.732845	8.825016	7.654951	9.76E-11	1.32E-09	14.17202
C20orf27	-1.22464	7.814264	-7.65469	9.77E-11	1.32E-09	14.17094
CCDC62	1.492422	7.249545	7.654434	9.78E-11	1.32E-09	14.1699
HECTD1	-0.75004	7.459594	-7.6516	9.90E-11	1.34E-09	14.1583
ERN2	0.996485	7.228422	7.650917	9.92E-11	1.34E-09	14.15553
GNS	-1.82446	8.629393	-7.6493	9.99E-11	1.35E-09	14.14894
RPRM	0.76063	6.83372	7.646961	1.01E-10	1.36E-09	14.13936
ZNF428	-1.32421	8.318509	-7.64601	1.01E-10	1.36E-09	14.13548
SHROOM4	1.027497	7.062131	7.644352	1.02E-10	1.37E-09	14.1287
NEDD8	-1.91298	9.78402	-7.64394	1.02E-10	1.37E-09	14.12701
ZNF645	1.150017	6.938606	7.643637	1.02E-10	1.37E-09	14.12577
MIF	-1.30933	7.619026	-7.64294	1.03E-10	1.38E-09	14.12293
OAZ1	-1.98908	10.42175	-7.64109	1.03E-10	1.39E-09	14.11535
LRTOMT	1.025994	7.790634	7.638713	1.04E-10	1.40E-09	14.10565
CD84	1.317016	8.344548	7.637361	1.05E-10	1.41E-09	14.10012

ATP9B	1.438392	9.714055	7.637072	1.05E-10	1.41E-09	14.09894
SNORA26	-1.59642	8.205736	-7.63541	1.06E-10	1.42E-09	14.09216
FFAR3	1.660717	7.26932	7.634072	1.06E-10	1.42E-09	14.08668
ZNF821	-0.8871	7.682596	-7.6323	1.07E-10	1.43E-09	14.07945
CALN1	0.79399	7.039043	7.631228	1.08E-10	1.44E-09	14.07506
OR2T11	0.903107	7.113819	7.623498	1.11E-10	1.48E-09	14.04347
GAPDH	-1.19369	9.803254	-7.62059	1.13E-10	1.50E-09	14.03158
HAND1	2.170278	7.622227	7.619317	1.13E-10	1.50E-09	14.02638
SUV39H1	-0.74921	7.140418	-7.61929	1.13E-10	1.50E-09	14.02628
DEFB113	1.070378	6.93635	7.619228	1.13E-10	1.50E-09	14.02602
TNFRSF8	1.380428	7.209458	7.617251	1.14E-10	1.51E-09	14.01794
APOB	-2.69788	11.42399	-7.61682	1.14E-10	1.51E-09	14.01619
HDAC1	-0.82342	7.812904	-7.61619	1.15E-10	1.52E-09	14.01359
ZNF286A	1.246594	7.506294	7.613966	1.16E-10	1.53E-09	14.00451
OR6C1	1.050246	6.864028	7.613611	1.16E-10	1.53E-09	14.00306
NCKAP1	-1.09693	7.780261	-7.61249	1.16E-10	1.54E-09	13.99847
SPSB3	-1.39401	8.362232	-7.61222	1.17E-10	1.54E-09	13.99738
BAAT	-1.55645	8.178766	-7.61053	1.17E-10	1.55E-09	13.99047
GEMIN7	0.930075	7.177156	7.609996	1.18E-10	1.55E-09	13.98829
RPS14	-1.22036	10.08783	-7.60994	1.18E-10	1.55E-09	13.98805
SPRR2E	2.043771	7.263918	7.608066	1.19E-10	1.56E-09	13.98041
DNTTIP2	-0.70707	7.137507	-7.60727	1.19E-10	1.57E-09	13.97714
RARS	-0.90059	7.730103	-7.60689	1.19E-10	1.57E-09	13.97559
TRIM8	-1.38202	8.570578	-7.60651	1.19E-10	1.57E-09	13.97405
HRH4	1.124554	7.207599	7.605901	1.20E-10	1.57E-09	13.97156
TBX19	1.302433	7.974487	7.604901	1.20E-10	1.58E-09	13.96747
SPG3A	1.488352	7.776368	7.59811	1.24E-10	1.62E-09	13.93972
OR2AK2	0.998567	6.944469	7.596043	1.25E-10	1.63E-09	13.93128
RPL15	-0.87182	7.537043	-7.59467	1.25E-10	1.64E-09	13.92567
SLC9A3R2	-1.19754	8.004577	-7.59344	1.26E-10	1.65E-09	13.92065
SNORA8	-1.81548	8.394476	-7.59296	1.26E-10	1.65E-09	13.91867
PRKAR1A	-1.03626	7.696337	-7.59169	1.27E-10	1.65E-09	13.9135
SNORA77	-1.81504	9.121415	-7.59002	1.28E-10	1.67E-09	13.90667
OR5D14	1.189017	7.001333	7.589622	1.28E-10	1.67E-09	13.90505
GPR12	2.042661	7.497602	7.589301	1.28E-10	1.67E-09	13.90374
TMEM225	1.537511	7.182449	7.589142	1.28E-10	1.67E-09	13.90309
MYH10	-1.15813	8.046717	-7.58905	1.28E-10	1.67E-09	13.9027
RPS5	-0.80997	7.142537	-7.58781	1.29E-10	1.68E-09	13.89765
OR5L2	1.065008	6.924173	7.587359	1.29E-10	1.68E-09	13.8958
FAM115A	1.143675	8.523771	7.58714	1.29E-10	1.68E-09	13.8949
OSBP	-1.10069	8.207056	-7.58613	1.30E-10	1.68E-09	13.89078
CBR1	-1.41627	9.256324	-7.58594	1.30E-10	1.68E-09	13.89
PRG1	1.150929	6.988908	7.584732	1.31E-10	1.69E-09	13.88507
HAGH	-1.0424	7.663444	-7.58406	1.31E-10	1.69E-09	13.88232
HDGF	-1.0472	7.728709	-7.58332	1.31E-10	1.70E-09	13.87931
GAP43	2.359142	8.11952	7.582471	1.32E-10	1.70E-09	13.87583
LOC12653	1.016768	6.830119	7.582138	1.32E-10	1.70E-09	13.87447
SLITRK1	0.842627	6.842754	7.580632	1.33E-10	1.71E-09	13.86832
CAT	-1.25331	7.931435	-7.57657	1.35E-10	1.74E-09	13.85172
OR2F2	1.291701	7.00678	7.574653	1.36E-10	1.75E-09	13.8439
KRT27	1.755858	7.682953	7.57167	1.38E-10	1.77E-09	13.83171
PCMT1	-2.28705	9.106982	-7.57149	1.38E-10	1.77E-09	13.83099
TRIM34	0.953425	7.037668	7.571399	1.38E-10	1.77E-09	13.8306
NOS1	1.785284	7.578004	7.570181	1.39E-10	1.78E-09	13.82563
ZDHHC1	-1.28767	7.870458	-7.56999	1.39E-10	1.78E-09	13.82484
HRNBP3	2.382602	7.621237	7.568553	1.40E-10	1.79E-09	13.81898
POTE2	1.52352	7.492526	7.566798	1.41E-10	1.80E-09	13.81181
MBTD1	1.004427	11.51906	7.566716	1.41E-10	1.80E-09	13.81147

FXVD3	0.759181	6.90939	7.566585	1.41E-10	1.80E-09	13.81094
AMPD1	0.732042	6.778571	7.566167	1.41E-10	1.80E-09	13.80923
BTNL3	1.247506	7.256849	7.565622	1.42E-10	1.81E-09	13.80701
PCDHA5	1.14222	7.188865	7.565559	1.42E-10	1.81E-09	13.80675
GAGE12J	3.301241	9.082686	7.565221	1.42E-10	1.81E-09	13.80537
LOC65354	2.5099	8.087581	7.564471	1.42E-10	1.81E-09	13.8023
RPLP2	-2.55426	10.35061	-7.56408	1.42E-10	1.81E-09	13.8007
NCKIPSD	-0.86547	7.498365	-7.56333	1.43E-10	1.82E-09	13.79765
CD96	1.357581	9.704875	7.563221	1.43E-10	1.82E-09	13.7972
FBXW12	0.740962	6.834476	7.561177	1.44E-10	1.83E-09	13.78885
PTPLA	1.666138	7.788334	7.560095	1.45E-10	1.84E-09	13.78443
KHDRBS1	-0.71476	7.373674	-7.55988	1.45E-10	1.84E-09	13.78357
IL10	1.580464	8.247609	7.55982	1.45E-10	1.84E-09	13.78331
GNG12	-1.08929	8.168884	-7.55943	1.45E-10	1.84E-09	13.7817
FAM120A	-1.4616	8.25627	-7.55764	1.46E-10	1.85E-09	13.7744
RAD1	1.91259	8.021449	7.557587	1.46E-10	1.85E-09	13.77418
KRTAP11-	1.430751	7.227162	7.556185	1.47E-10	1.86E-09	13.76846
DUX4	2.965026	8.651425	7.553276	1.49E-10	1.88E-09	13.75658
TCF25	-1.00988	7.909808	-7.55295	1.49E-10	1.88E-09	13.75523
OR4F3	1.227928	7.374021	7.551773	1.50E-10	1.89E-09	13.75044
ENKUR	1.736914	7.584422	7.550543	1.51E-10	1.90E-09	13.74541
C2orf25	-0.80089	7.44603	-7.54859	1.52E-10	1.91E-09	13.73745
HIST1H4E	-1.20848	8.065229	-7.54577	1.54E-10	1.93E-09	13.72593
FCGRT	-1.31457	8.94594	-7.54576	1.54E-10	1.93E-09	13.72587
C1orf92	1.132987	7.102291	7.545287	1.54E-10	1.94E-09	13.72395
GIP	0.951186	6.926358	7.544279	1.55E-10	1.94E-09	13.71983
BTBD2	-0.89881	7.673151	-7.54427	1.55E-10	1.94E-09	13.7198
HES1	-0.84526	7.359764	-7.5391	1.58E-10	1.98E-09	13.69868
KCNQ2	1.775175	7.494758	7.537825	1.59E-10	1.99E-09	13.69348
ABCC2	-1.06144	7.571826	-7.53556	1.60E-10	2.00E-09	13.68422
OR1K1	1.585988	7.365716	7.535247	1.61E-10	2.00E-09	13.68295
AKR1A1	-1.19474	7.831655	-7.53516	1.61E-10	2.00E-09	13.68261
ITM2B	-0.72954	7.168809	-7.533	1.62E-10	2.02E-09	13.67376
ATP6V1A	-0.7158	7.201648	-7.53287	1.62E-10	2.02E-09	13.67325
AGT	-2.10573	9.082552	-7.53265	1.62E-10	2.02E-09	13.67236
RNPEP	-1.06124	7.601499	-7.53226	1.63E-10	2.02E-09	13.67075
ANGPTL4	-1.75246	8.88402	-7.53224	1.63E-10	2.02E-09	13.67069
NOL7	-1.83116	9.686422	-7.53202	1.63E-10	2.02E-09	13.66977
FBL	-2.15048	8.54132	-7.53036	1.64E-10	2.03E-09	13.663
CCDC155	1.364344	7.269503	7.529505	1.64E-10	2.04E-09	13.6595
RHOC	-1.16225	8.263768	-7.52873	1.65E-10	2.04E-09	13.65635
SUCLG1	-2.24909	10.08869	-7.52698	1.66E-10	2.06E-09	13.64918
ITGA5	-1.81598	8.694846	-7.52417	1.68E-10	2.08E-09	13.6377
FIGN	1.986111	8.668393	7.522703	1.69E-10	2.09E-09	13.63173
TRIM58	0.720612	6.933967	7.521713	1.70E-10	2.10E-09	13.62769
MAP4K2	-1.63139	8.633478	-7.52138	1.70E-10	2.10E-09	13.62633
KNG1	-2.13316	10.33818	-7.52052	1.71E-10	2.11E-09	13.6228
ACRBP	0.836204	7.011999	7.519158	1.72E-10	2.12E-09	13.61726
GHSR	2.021863	7.756697	7.515084	1.75E-10	2.15E-09	13.60062
LOC64231	1.093113	7.001477	7.513746	1.76E-10	2.16E-09	13.59516
CA1	1.004991	7.03755	7.51365	1.76E-10	2.16E-09	13.59477
CEBPZ	-1.01619	8.361441	-7.51226	1.77E-10	2.17E-09	13.58911
PLAG1	0.966151	7.337504	7.509508	1.79E-10	2.19E-09	13.57786
PLA2G12E	-1.51308	8.334925	-7.50934	1.79E-10	2.19E-09	13.57718
TP53TG1	-1.30381	7.879482	-7.50899	1.79E-10	2.20E-09	13.57575
SV2C	0.836554	6.74512	7.507344	1.80E-10	2.21E-09	13.56902
STOM	-1.09028	7.903734	-7.50609	1.81E-10	2.22E-09	13.56392
BARX2	0.868558	6.784346	7.505504	1.82E-10	2.22E-09	13.56151

LOC38772	1.000137	6.931414	7.504973	1.82E-10	2.23E-09	13.55934
UBQLNL	1.958023	7.935401	7.504376	1.83E-10	2.23E-09	13.5569
DUPD1	0.883757	6.911837	7.503211	1.83E-10	2.24E-09	13.55215
TMEM141	-1.61486	8.521345	-7.50181	1.84E-10	2.25E-09	13.54643
ALDOB	-2.28603	10.62382	-7.49882	1.87E-10	2.28E-09	13.53423
GAGE12E	1.354226	7.615685	7.498499	1.87E-10	2.28E-09	13.53292
LSM11	1.650049	9.886163	7.498392	1.87E-10	2.28E-09	13.53248
IL11	1.033445	7.084605	7.497632	1.88E-10	2.29E-09	13.52938
VCX2	1.294515	7.210494	7.495513	1.89E-10	2.31E-09	13.52072
LOC15038	1.292122	7.435755	7.493155	1.91E-10	2.32E-09	13.5111
LRCH4	-1.29614	8.485799	-7.49272	1.92E-10	2.33E-09	13.50932
FLJ42957	2.519284	8.522993	7.491878	1.92E-10	2.33E-09	13.50589
CCDC68	0.863452	7.879301	7.491718	1.92E-10	2.33E-09	13.50523
OR2AE1	1.488369	7.27288	7.491593	1.93E-10	2.33E-09	13.50472
A1BG	1.054957	7.433151	7.491168	1.93E-10	2.34E-09	13.50299
ABLIM2	2.105454	8.647703	7.490644	1.93E-10	2.34E-09	13.50085
ID2	-1.34395	8.280797	-7.49038	1.93E-10	2.34E-09	13.49978
NBPF10	1.022383	11.29166	7.489013	1.95E-10	2.35E-09	13.49419
SNORA61	-2.01876	11.98586	-7.4885	1.95E-10	2.36E-09	13.49209
HIGD2A	-1.17662	7.89429	-7.48571	1.97E-10	2.38E-09	13.48073
FNDC3B	-0.90323	8.115437	-7.48561	1.97E-10	2.38E-09	13.48031
CD1A	2.103187	7.773363	7.485274	1.98E-10	2.38E-09	13.47893
DBF4B	1.238676	7.269418	7.484525	1.98E-10	2.39E-09	13.47587
FAM90A1	1.336184	7.104318	7.480936	2.01E-10	2.42E-09	13.46123
PRDX3	-1.14377	8.158665	-7.47907	2.03E-10	2.44E-09	13.45359
KLF6	-1.32244	7.896833	-7.4781	2.04E-10	2.45E-09	13.44967
PLS3	-1.63017	8.173493	-7.47616	2.05E-10	2.46E-09	13.44175
OR5M8	0.97037	6.971906	7.474587	2.07E-10	2.48E-09	13.43532
MRPS6	-1.65648	8.362209	-7.47139	2.09E-10	2.51E-09	13.42227
COMT	-1.00787	7.809572	-7.47119	2.10E-10	2.51E-09	13.42147
RPS17	-1.33828	8.236047	-7.47119	2.10E-10	2.51E-09	13.42145
OR10AD1	1.145378	7.134535	7.469438	2.11E-10	2.53E-09	13.4143
FGB	-1.79959	8.623492	-7.46745	2.13E-10	2.54E-09	13.4062
TXLNA	-0.88577	7.183694	-7.46541	2.15E-10	2.56E-09	13.39786
C8orf31	1.624197	7.589829	7.462331	2.17E-10	2.59E-09	13.3853
OR4F21	1.608126	7.702133	7.462164	2.18E-10	2.59E-09	13.38462
LCAT	-2.06902	9.019923	-7.46165	2.18E-10	2.60E-09	13.38252
TNFRSF14	-2.11032	10.18158	-7.45967	2.20E-10	2.62E-09	13.37443
TSC22D1	-0.88381	7.433407	-7.45964	2.20E-10	2.62E-09	13.37433
CST4	0.773151	6.831471	7.456415	2.23E-10	2.65E-09	13.36117
DEFA5	1.447899	7.340988	7.455916	2.23E-10	2.65E-09	13.35913
LSM7	-1.20701	7.740822	-7.455	2.24E-10	2.66E-09	13.35539
C3orf24	0.784224	6.879276	7.453856	2.25E-10	2.67E-09	13.35072
NUCKS1	-1.67378	8.734814	-7.4534	2.26E-10	2.67E-09	13.34887
CFB	-1.95178	8.501384	-7.45043	2.28E-10	2.71E-09	13.33675
C15orf63	0.813556	7.065445	7.449902	2.29E-10	2.71E-09	13.33459
IDH1	-0.75279	7.366439	-7.44442	2.34E-10	2.77E-09	13.31221
SUMF2	-1.24914	9.943913	-7.44076	2.38E-10	2.81E-09	13.29728
PTS	-1.05502	7.828838	-7.44047	2.38E-10	2.81E-09	13.29611
VENTXP1	1.437766	7.304765	7.437856	2.41E-10	2.84E-09	13.28545
CLEC4E	0.757491	6.913277	7.436866	2.42E-10	2.85E-09	13.28141
ROCK1	-1.02669	7.925625	-7.43652	2.42E-10	2.85E-09	13.28
TIAM2	1.432533	7.621541	7.43474	2.44E-10	2.87E-09	13.27273
CARS	-1.43175	8.039686	-7.4342	2.44E-10	2.87E-09	13.27052
SH3BGRL3	-0.97381	8.493979	-7.43411	2.44E-10	2.87E-09	13.27017
CD163	-0.98348	7.370379	-7.43399	2.45E-10	2.87E-09	13.26966
TMEM91	-0.79675	7.241825	-7.43324	2.45E-10	2.88E-09	13.2666
SLC24A4	0.728637	6.94534	7.426744	2.52E-10	2.95E-09	13.24012

COPB1	-1.01236	9.037306	-7.42557	2.53E-10	2.96E-09	13.23535
CSPG4	-0.79309	7.276833	-7.42507	2.54E-10	2.97E-09	13.23327
TUBA1C	-1.18023	8.770317	-7.4219	2.57E-10	3.00E-09	13.22035
GPR3	1.220331	7.298749	7.421193	2.58E-10	3.01E-09	13.21748
FAT1	-0.80239	7.488259	-7.42116	2.58E-10	3.01E-09	13.21734
ZSWIM3	1.002503	7.460183	7.420135	2.59E-10	3.02E-09	13.21316
PSAP	-2.28712	9.096778	-7.41948	2.60E-10	3.03E-09	13.2105
SURF1	-0.92423	7.316855	-7.41902	2.60E-10	3.03E-09	13.20863
FAIM2	1.80546	7.601253	7.417	2.62E-10	3.05E-09	13.20038
GATM	-1.83782	8.9126	-7.41537	2.64E-10	3.07E-09	13.19375
FSD2	0.885578	6.854138	7.415099	2.65E-10	3.07E-09	13.19262
IRF2BP2	-1.27835	8.945764	-7.41469	2.65E-10	3.08E-09	13.19097
SNORA59	-0.7652	7.32443	-7.41251	2.67E-10	3.10E-09	13.18208
NOMO3	-0.87654	7.188837	-7.41214	2.68E-10	3.10E-09	13.18054
SRM	-0.9058	7.812304	-7.41085	2.69E-10	3.12E-09	13.17531
SNORD95	-2.47581	9.994723	-7.40968	2.71E-10	3.13E-09	13.17051
VASN	-1.33618	8.340403	-7.40794	2.72E-10	3.15E-09	13.16343
OR11H6	1.052902	7.026205	7.4064	2.74E-10	3.16E-09	13.15715
HLA-DRA	-1.46848	8.731049	-7.40633	2.74E-10	3.16E-09	13.15686
B3GALT5	0.987826	6.997457	7.406307	2.74E-10	3.16E-09	13.15677
OTOP1	1.286965	7.088521	7.405409	2.75E-10	3.18E-09	13.1531
KRTAP13-	1.418485	7.266771	7.404309	2.77E-10	3.19E-09	13.14862
GADL1	0.728954	6.748017	7.402922	2.78E-10	3.20E-09	13.14296
RNF167	-0.76972	7.285391	-7.40274	2.78E-10	3.20E-09	13.14221
DYNC1I2	-0.85247	7.242924	-7.40253	2.79E-10	3.20E-09	13.14138
LOC10013	1.474747	10.94614	7.402296	2.79E-10	3.20E-09	13.14041
SCGBL	1.173247	7.121452	7.402293	2.79E-10	3.20E-09	13.1404
DCI	-0.85103	7.486537	-7.40198	2.79E-10	3.20E-09	13.13911
FAM98A	-1.67324	8.875132	-7.40178	2.80E-10	3.21E-09	13.13829
HSPG2	-1.42976	7.714957	-7.39847	2.83E-10	3.25E-09	13.12482
GNG5	-1.07329	7.542491	-7.39828	2.84E-10	3.25E-09	13.12402
ACTR2	-1.15437	7.906769	-7.39772	2.84E-10	3.25E-09	13.12175
AGBL4	1.435342	7.069404	7.397688	2.84E-10	3.25E-09	13.12162
ADCY2	1.232658	7.206765	7.397495	2.85E-10	3.25E-09	13.12083
DCDC5	1.286318	7.416156	7.394314	2.88E-10	3.29E-09	13.10786
EZR	-2.20764	8.692673	-7.39423	2.88E-10	3.29E-09	13.10754
GDI2	-0.90178	7.439114	-7.39374	2.89E-10	3.30E-09	13.10552
C17orf50	2.356152	7.826142	7.392351	2.91E-10	3.31E-09	13.09986
HCN4	2.265892	7.857322	7.39227	2.91E-10	3.31E-09	13.09953
MGC4236	1.531756	8.116214	7.391866	2.91E-10	3.32E-09	13.09788
SRPK3	1.411187	7.027399	7.391461	2.92E-10	3.32E-09	13.09623
ZSWIM2	0.842903	6.834925	7.389798	2.94E-10	3.34E-09	13.08945
CARTPT	0.839428	7.021293	7.389315	2.94E-10	3.35E-09	13.08748
ULK1	-1.08073	9.485693	-7.38816	2.96E-10	3.36E-09	13.08277
PSORS1C1	1.946192	7.979839	7.386609	2.98E-10	3.38E-09	13.07645
PRAMEF6	1.60299	7.307948	7.386328	2.98E-10	3.38E-09	13.0753
FZD3	1.848903	8.346435	7.385448	2.99E-10	3.39E-09	13.07172
ADAM21P	0.954864	6.861194	7.384228	3.01E-10	3.41E-09	13.06674
FTHL11	0.722831	6.861546	7.383637	3.01E-10	3.42E-09	13.06433
ZFP36L1	-1.12352	7.847352	-7.38343	3.02E-10	3.42E-09	13.06349
KCNA10	0.758619	6.798112	7.383413	3.02E-10	3.42E-09	13.06342
IL2RA	1.330235	7.620138	7.38318	3.02E-10	3.42E-09	13.06247
NKX2-1	2.564186	7.945538	7.382547	3.03E-10	3.42E-09	13.05989
C11orf45	2.005877	7.670902	7.380291	3.06E-10	3.45E-09	13.05069
DNAJA1	-1.34764	8.035478	-7.38011	3.06E-10	3.45E-09	13.04994
SRP54	-0.97564	7.525038	-7.37964	3.06E-10	3.46E-09	13.04804
C1orf151	1.027089	7.385194	7.379287	3.07E-10	3.46E-09	13.0466
EMR4P	1.224185	7.406905	7.378926	3.07E-10	3.46E-09	13.04513

C14orf166	0.873688	6.794028	7.378205	3.08E-10	3.47E-09	13.04219
OR52N4	1.396771	7.137489	7.377408	3.09E-10	3.48E-09	13.03894
NAG18	1.537878	10.94513	7.375432	3.12E-10	3.51E-09	13.03088
KRTAP5-8	1.51881	7.254393	7.375088	3.12E-10	3.51E-09	13.02948
CIR1	-0.72491	7.574684	-7.37444	3.13E-10	3.52E-09	13.02686
MIR200A	1.135815	7.078875	7.372658	3.15E-10	3.54E-09	13.01958
CYP2S1	1.471727	7.956691	7.368938	3.20E-10	3.60E-09	13.00441
LOC40046	1.207029	7.508092	7.368127	3.21E-10	3.61E-09	13.00111
TAS2R9	0.975523	6.974972	7.367045	3.23E-10	3.62E-09	12.9967
PNMAL2	1.694603	7.524447	7.366569	3.24E-10	3.62E-09	12.99476
SLC39A14	-1.63165	9.04781	-7.36341	3.28E-10	3.67E-09	12.98188
OPLAH	-1.78554	10.07203	-7.36315	3.28E-10	3.67E-09	12.9808
TOB1	-1.55193	8.869553	-7.36271	3.29E-10	3.67E-09	12.97902
SNORD56	-2.07583	9.971776	-7.36025	3.32E-10	3.71E-09	12.969
MTCP1	-1.18326	8.000425	-7.35997	3.33E-10	3.71E-09	12.96787
KBTBD5	1.120056	7.024525	7.358496	3.35E-10	3.73E-09	12.96185
LOC34052	1.589737	7.238369	7.354643	3.40E-10	3.79E-09	12.94615
C2	-1.53737	8.859923	-7.35435	3.40E-10	3.79E-09	12.94495
OR7C1	1.290795	7.041779	7.353695	3.41E-10	3.79E-09	12.94229
PRDX1	-1.59554	9.078414	-7.35364	3.41E-10	3.79E-09	12.94207
FRG2C	2.189364	7.725159	7.353215	3.42E-10	3.80E-09	12.94033
SCAF1	-0.94316	7.652701	-7.35219	3.43E-10	3.81E-09	12.93617
C1orf200	0.831532	6.942368	7.351347	3.45E-10	3.82E-09	12.93272
PSMC6	-0.90212	7.837065	-7.35066	3.46E-10	3.83E-09	12.92993
LIMK1	1.345674	7.883341	7.350235	3.46E-10	3.84E-09	12.92819
CARHSP1	-2.17808	9.610171	-7.34794	3.50E-10	3.87E-09	12.91884
METTL13	-1.2699	8.588243	-7.34686	3.51E-10	3.88E-09	12.91445
WEE2	1.168304	6.976024	7.34591	3.53E-10	3.90E-09	12.91056
ACOX2	-1.64991	7.998112	-7.34493	3.54E-10	3.91E-09	12.90658
CTSB	-1.25451	9.650895	-7.34364	3.56E-10	3.93E-09	12.90132
PRCP	-1.36285	8.546874	-7.34083	3.60E-10	3.97E-09	12.88987
OR13G1	0.764175	6.802567	7.338742	3.63E-10	4.00E-09	12.88136
SLC25A6	-1.45443	8.422919	-7.33447	3.70E-10	4.07E-09	12.86395
ALDH6A1	-1.07134	8.816468	-7.33359	3.71E-10	4.08E-09	12.86037
LOC64599	1.340987	7.286898	7.333357	3.71E-10	4.09E-09	12.85942
SNORA66	-2.08885	9.646283	-7.33313	3.72E-10	4.09E-09	12.85851
LRAT	1.318791	7.875361	7.331518	3.74E-10	4.11E-09	12.85192
DKC1	-0.90241	7.893617	-7.33117	3.75E-10	4.12E-09	12.8505
JAK1	-1.19775	8.18815	-7.33086	3.75E-10	4.12E-09	12.84924
C1orf165	1.758197	7.570854	7.328772	3.79E-10	4.15E-09	12.84074
HSP90AA1	-1.73055	9.554996	-7.32831	3.79E-10	4.16E-09	12.83886
CTSZ	-1.77771	8.873175	-7.32694	3.81E-10	4.17E-09	12.83327
LEP	1.146135	8.032735	7.326891	3.81E-10	4.17E-09	12.83308
TRPM4	-1.74371	8.681088	-7.32457	3.85E-10	4.21E-09	12.82361
FAM187B	1.562439	7.231523	7.324212	3.86E-10	4.21E-09	12.82216
ARPC5	-1.1905	8.471121	-7.32293	3.88E-10	4.23E-09	12.81693
STAB2	1.657579	7.714698	7.322628	3.88E-10	4.24E-09	12.81571
PQLC1	-1.73954	8.927241	-7.32249	3.89E-10	4.24E-09	12.81515
HDDC2	-1.44906	8.324499	-7.31945	3.93E-10	4.29E-09	12.80277
AMTN	0.983575	6.932539	7.315725	4.00E-10	4.35E-09	12.78759
SFTPD	0.980197	7.187991	7.314825	4.01E-10	4.36E-09	12.78392
LOC40101	-1.62243	11.10331	-7.31473	4.01E-10	4.36E-09	12.78353
IGSF11	1.064864	7.36453	7.312231	4.05E-10	4.40E-09	12.77336
C3orf22	1.276193	7.252124	7.308891	4.11E-10	4.45E-09	12.75976
PCA3	1.524728	7.209811	7.30819	4.12E-10	4.46E-09	12.7569
SLC16A3	-1.32872	7.805176	-7.30784	4.13E-10	4.47E-09	12.75549
NCRNA00	0.883248	6.912034	7.304471	4.19E-10	4.53E-09	12.74176
PHYH	-1.284	8.333553	-7.30441	4.19E-10	4.53E-09	12.74151

ANGPTL5	1.445721	7.112646	7.302835	4.22E-10	4.55E-09	12.73509
TFAP2C	0.905142	6.905921	7.301044	4.25E-10	4.58E-09	12.7278
C6orf145	-1.02906	7.996119	-7.30038	4.26E-10	4.59E-09	12.7251
ARC	1.584215	7.410068	7.296353	4.33E-10	4.67E-09	12.7087
MED6	-1.69558	8.467328	-7.29594	4.34E-10	4.67E-09	12.707
APOC1	-2.14052	9.7957	-7.29518	4.35E-10	4.68E-09	12.70393
MGST1	-1.80283	9.459018	-7.29425	4.37E-10	4.70E-09	12.70014
IL13RA1	-1.27668	7.867928	-7.29371	4.38E-10	4.71E-09	12.69793
RAB25	1.136428	7.314561	7.292896	4.39E-10	4.72E-09	12.69462
PKD1L2	0.736584	6.890167	7.291776	4.41E-10	4.74E-09	12.69006
KIAA0319	1.253035	7.062294	7.290365	4.44E-10	4.77E-09	12.68431
LOC39974	1.411054	8.860872	7.289858	4.45E-10	4.77E-09	12.68225
ZNF827	2.266673	8.786009	7.289388	4.46E-10	4.78E-09	12.68034
LYPD6B	0.720969	6.827162	7.288202	4.48E-10	4.80E-09	12.6755
CD7	-1.38065	7.911124	-7.28794	4.48E-10	4.80E-09	12.67445
AUP1	-1.30495	8.687233	-7.28731	4.50E-10	4.81E-09	12.67186
C1orf95	1.399576	7.566724	7.286561	4.51E-10	4.82E-09	12.66883
DNTT	0.824232	6.876623	7.284419	4.55E-10	4.86E-09	12.6601
SCN1A	0.829113	6.880854	7.282937	4.58E-10	4.89E-09	12.65407
TMEM218	-1.09144	7.584817	-7.28245	4.59E-10	4.90E-09	12.65211
PRSS1	2.646841	8.156152	7.281523	4.60E-10	4.91E-09	12.64832
HCN1	1.272849	7.219902	7.281044	4.61E-10	4.92E-09	12.64637
PGA5	2.595608	8.179833	7.279307	4.65E-10	4.95E-09	12.63929
ZNF100	1.694998	9.878855	7.277712	4.68E-10	4.98E-09	12.6328
LOC64152	0.919289	7.745888	7.276559	4.70E-10	5.00E-09	12.62811
TAC4	1.030023	6.983512	7.275279	4.73E-10	5.03E-09	12.62289
CHIT1	2.432024	7.835576	7.274498	4.74E-10	5.04E-09	12.61972
TSPAN17	-1.47512	8.173369	-7.27411	4.75E-10	5.05E-09	12.61815
HYOU1	-0.80583	7.701295	-7.27345	4.76E-10	5.06E-09	12.61544
TFAP2A	1.051549	7.132561	7.273186	4.77E-10	5.06E-09	12.61437
RNF121	-0.90929	8.03347	-7.27103	4.81E-10	5.10E-09	12.60558
MSRB2	-2.06286	8.581297	-7.27094	4.81E-10	5.10E-09	12.60523
LOC7311C	1.020767	6.999461	7.269655	4.84E-10	5.13E-09	12.6
TAF6L	-1.74519	8.767862	-7.26701	4.89E-10	5.18E-09	12.58923
ST8SIA2	1.100387	7.023591	7.263886	4.95E-10	5.24E-09	12.57652
SCARNA8	-2.17858	9.441416	-7.25985	5.04E-10	5.33E-09	12.56011
C8ORFK36	0.792657	6.982147	7.259598	5.04E-10	5.33E-09	12.55907
DHRS7	-0.84347	7.366066	-7.25841	5.07E-10	5.35E-09	12.55425
PPIB	-0.98187	7.414629	-7.25661	5.11E-10	5.39E-09	12.5469
SDF2L1	-2.13023	10.0437	-7.25616	5.12E-10	5.40E-09	12.54506
HCRTR2	0.771765	7.113897	7.25408	5.16E-10	5.44E-09	12.53661
HMGCS2	-1.86749	8.689358	-7.25366	5.17E-10	5.45E-09	12.53491
C11orf72	1.375598	7.06485	7.253279	5.18E-10	5.46E-09	12.53335
OR10G7	1.123427	7.08669	7.252354	5.20E-10	5.47E-09	12.52959
CFI	-1.1932	8.151971	-7.25222	5.20E-10	5.47E-09	12.52905
OR10X1	0.916498	6.843411	7.250792	5.23E-10	5.50E-09	12.52323
KIF4B	1.117978	7.113021	7.250153	5.24E-10	5.52E-09	12.52063
FAHD2A	-1.06705	7.677991	-7.24875	5.28E-10	5.54E-09	12.51491
ZNF528	1.375495	7.981143	7.248498	5.28E-10	5.55E-09	12.5139
RPL12	-1.68076	9.96032	-7.24814	5.29E-10	5.55E-09	12.51243
KRTAP12-	1.342032	7.084277	7.246298	5.33E-10	5.59E-09	12.50494
ELA2A	2.126143	7.68722	7.246247	5.33E-10	5.59E-09	12.50473
RAET1E	1.749103	7.379407	7.244236	5.37E-10	5.63E-09	12.49655
CDAN1	1.333504	9.886764	7.242157	5.42E-10	5.68E-09	12.4881
GPR32	1.035354	7.017057	7.239236	5.49E-10	5.74E-09	12.47621
PLIN2	-1.25184	8.721272	-7.23858	5.50E-10	5.75E-09	12.47356
ADCYAP1	0.765138	6.760126	7.238557	5.50E-10	5.75E-09	12.47345
C19orf2	-1.17129	8.634116	-7.23767	5.52E-10	5.77E-09	12.46985

ABHD14B	-1.10391	8.003277	-7.23625	5.56E-10	5.80E-09	12.46404
OSBPL8	-1.12151	7.852471	-7.23623	5.56E-10	5.80E-09	12.46398
IFRG15	-0.85538	7.315345	-7.23517	5.58E-10	5.82E-09	12.45965
OSTN	0.861774	6.739235	7.234994	5.58E-10	5.82E-09	12.45895
PSMD4	-0.89716	7.855021	-7.23459	5.59E-10	5.83E-09	12.45729
CUTA	-0.8446	7.47489	-7.23282	5.64E-10	5.87E-09	12.45009
KRT15	1.107498	7.062999	7.232379	5.65E-10	5.87E-09	12.44831
PDE4B	0.915976	7.378319	7.232053	5.65E-10	5.88E-09	12.44698
NCAM1	0.704475	7.116339	7.230581	5.69E-10	5.91E-09	12.441
EIF5A	-0.73356	7.563052	-7.22939	5.72E-10	5.94E-09	12.43615
FLJ30851	1.366753	7.150041	7.226638	5.78E-10	6.00E-09	12.42496
MGC1629	0.914772	6.887045	7.22478	5.83E-10	6.04E-09	12.4174
BRD7	-0.91715	7.375491	-7.22035	5.93E-10	6.15E-09	12.39939
C12orf59	0.842366	6.95102	7.219469	5.96E-10	6.17E-09	12.3958
WFS1	-1.16781	7.618235	-7.21783	6.00E-10	6.21E-09	12.38913
MTIF3	-0.9702	7.297565	-7.21374	6.10E-10	6.31E-09	12.37248
HLA-DMB	-1.87342	8.568372	-7.2133	6.11E-10	6.32E-09	12.37071
GNMT	-2.22332	8.18509	-7.21177	6.15E-10	6.35E-09	12.3645
NENF	-1.8011	9.241699	-7.21124	6.16E-10	6.36E-09	12.36233
ZSWIM4	1.193166	10.27578	7.211018	6.17E-10	6.36E-09	12.36143
ZNF593	-1.30102	8.175741	-7.20951	6.21E-10	6.40E-09	12.35529
PTK6	1.675753	7.936432	7.208215	6.24E-10	6.43E-09	12.35003
LRIT1	1.65831	7.254753	7.206097	6.30E-10	6.49E-09	12.34141
OR2M5	1.335691	7.215751	7.202479	6.39E-10	6.58E-09	12.3267
CPEB1	0.994132	7.142979	7.201861	6.41E-10	6.59E-09	12.32419
FLJ45966	0.845429	7.188495	7.201617	6.41E-10	6.59E-09	12.3232
LOC40135	1.237571	11.21511	7.201291	6.42E-10	6.60E-09	12.32187
MAPK1	-0.7407	7.912157	-7.20092	6.43E-10	6.61E-09	12.32035
FRMPD2	1.012731	7.159288	7.198914	6.49E-10	6.66E-09	12.31221
TMEM180	-1.0582	7.502122	-7.19858	6.49E-10	6.66E-09	12.31084
SOX11	2.259951	7.895979	7.198297	6.50E-10	6.66E-09	12.30969
INA	1.09534	6.845691	7.1974	6.53E-10	6.68E-09	12.30605
TCEB1	-0.97204	7.639326	-7.1966	6.55E-10	6.70E-09	12.30279
CFD	-1.71413	8.712864	-7.19464	6.60E-10	6.75E-09	12.29483
EIF4E2	-0.85814	8.335891	-7.19446	6.61E-10	6.75E-09	12.2941
KBTBD12	1.380885	7.132917	7.194314	6.61E-10	6.76E-09	12.2935
TBC1D3B	1.219921	8.065636	7.193018	6.65E-10	6.79E-09	12.28823
SNORD59	-1.3423	8.382976	-7.19204	6.67E-10	6.81E-09	12.28427
OR2L13	1.547717	7.311318	7.191332	6.69E-10	6.83E-09	12.28138
TRMT1	-0.83111	8.253576	-7.19021	6.72E-10	6.86E-09	12.27683
ABCC1	1.390574	8.238846	7.190056	6.73E-10	6.86E-09	12.27619
ATAD3B	-1.23799	7.495236	-7.19004	6.73E-10	6.86E-09	12.27611
ITPRIP	-0.73775	7.274787	-7.18907	6.76E-10	6.88E-09	12.27218
PRDM11	0.995059	6.943943	7.1865	6.83E-10	6.95E-09	12.26173
DBC1	0.823503	6.885638	7.183934	6.90E-10	7.01E-09	12.2513
ATP5J2	-1.89945	8.899948	-7.18377	6.91E-10	7.01E-09	12.25065
TMEM14C	-0.89695	7.332385	-7.18368	6.91E-10	7.01E-09	12.25027
LOC73041	1.701621	7.905161	7.181649	6.97E-10	7.07E-09	12.24202
TNFRSF10	-0.71318	7.646882	-7.18097	6.99E-10	7.09E-09	12.23925
LOC38928	1.714756	10.91956	7.179653	7.02E-10	7.12E-09	12.2339
EGFR	-0.77188	7.603138	-7.17918	7.04E-10	7.13E-09	12.23197
GTPBP6	-1.96014	11.31292	-7.17889	7.05E-10	7.14E-09	12.23082
SLC32A1	1.03558	6.905283	7.177887	7.08E-10	7.16E-09	12.22672
ADAM15	-0.91018	9.323388	-7.17722	7.10E-10	7.18E-09	12.22401
C1orf140	1.086358	7.065566	7.176627	7.11E-10	7.19E-09	12.2216
SNORA72	-1.68415	8.176665	-7.17595	7.13E-10	7.21E-09	12.21887
EDARADD	0.8153	7.107667	7.175828	7.14E-10	7.21E-09	12.21836
TIMP1	-2.04224	9.890357	-7.1756	7.14E-10	7.21E-09	12.21743

APOC3	-2.33789	11.21214	-7.17172	7.26E-10	7.32E-09	12.20165
MGC3990	0.701293	6.821411	7.171676	7.26E-10	7.32E-09	12.20148
POLR2F	-1.12495	8.143221	-7.17086	7.28E-10	7.34E-09	12.19818
NPFFR2	1.007834	7.087316	7.16862	7.35E-10	7.40E-09	12.18906
CBWD5	-0.93905	7.334564	-7.16757	7.38E-10	7.43E-09	12.18478
SPCS3	-0.86874	7.351954	-7.1672	7.40E-10	7.44E-09	12.18328
PDIA5	-0.82972	7.095853	-7.16225	7.55E-10	7.57E-09	12.16319
HIC2	1.467024	8.734513	7.161384	7.58E-10	7.60E-09	12.15965
SLC9A2	1.103349	7.296873	7.15973	7.63E-10	7.65E-09	12.15293
SLC30A1	-0.95541	7.73377	-7.15905	7.65E-10	7.66E-09	12.15018
FGL1	-1.6926	9.035109	-7.15861	7.66E-10	7.67E-09	12.14837
HIATL1	-1.54957	8.672807	-7.15794	7.68E-10	7.69E-09	12.14567
CSN1S1	0.924321	6.980353	7.156781	7.72E-10	7.72E-09	12.14095
GOLGA3	-1.16575	7.828495	-7.15618	7.74E-10	7.74E-09	12.1385
RNASET2	-0.96	7.269582	-7.15507	7.78E-10	7.77E-09	12.13398
PCSK6	-0.91885	8.100479	-7.15395	7.81E-10	7.79E-09	12.12946
RUNDC2A	1.096947	7.475523	7.153908	7.81E-10	7.79E-09	12.12928
MIR1911	1.232371	6.988956	7.15371	7.82E-10	7.79E-09	12.12847
OR2AT4	1.83481	7.378363	7.153505	7.83E-10	7.80E-09	12.12764
C6orf27	1.95271	8.495948	7.152543	7.86E-10	7.82E-09	12.12373
ETV3L	2.618629	8.206523	7.150194	7.94E-10	7.90E-09	12.11419
GBX2	1.666638	7.293797	7.146432	8.06E-10	8.01E-09	12.09891
OR8K5	0.771051	6.934931	7.145057	8.11E-10	8.05E-09	12.09332
PHPT1	-0.99432	8.295575	-7.14418	8.14E-10	8.08E-09	12.08976
ADI1	-1.2814	7.855634	-7.14376	8.15E-10	8.09E-09	12.08807
FLJ35390	1.356703	11.50523	7.141349	8.23E-10	8.15E-09	12.07826
LAS1L	-1.06134	7.816519	-7.14041	8.26E-10	8.18E-09	12.07445
ACTB	-1.73013	8.828658	-7.13853	8.33E-10	8.24E-09	12.0668
ENPEP	-0.72007	7.225722	-7.13824	8.34E-10	8.24E-09	12.06562
ZNHIT1	-1.29101	7.844035	-7.13686	8.39E-10	8.29E-09	12.06002
PAX8	0.895145	7.385388	7.135982	8.42E-10	8.31E-09	12.05645
ACER1	1.003463	7.056713	7.135707	8.43E-10	8.32E-09	12.05534
C14orf102	-1.01435	7.654486	-7.13176	8.56E-10	8.45E-09	12.0393
TMEM156	1.474693	8.390279	7.131546	8.57E-10	8.46E-09	12.03844
PARP3	-0.94462	7.705577	-7.13138	8.58E-10	8.46E-09	12.03778
CCR7	1.544995	7.716494	7.129738	8.64E-10	8.50E-09	12.03109
C10orf116	-2.13352	10.09524	-7.12805	8.70E-10	8.55E-09	12.02426
HOXB1	1.882379	7.517913	7.12708	8.73E-10	8.58E-09	12.0203
MYO3B	0.866317	6.979306	7.127057	8.73E-10	8.58E-09	12.02021
C2orf66	2.58097	8.291206	7.126079	8.77E-10	8.61E-09	12.01624
DAD1L	1.419514	7.191425	7.126003	8.77E-10	8.61E-09	12.01593
IGFBP7	-1.47634	8.02541	-7.12565	8.78E-10	8.62E-09	12.01449
VWA5B1	1.844313	7.417844	7.12498	8.81E-10	8.64E-09	12.01177
KIF17	1.58972	7.982984	7.124817	8.81E-10	8.64E-09	12.01111
OR5P2	0.726666	6.835312	7.124617	8.82E-10	8.64E-09	12.0103
GAPT	1.157433	7.309427	7.12454	8.82E-10	8.64E-09	12.00998
LOC44129	1.27091	7.386509	7.124032	8.84E-10	8.65E-09	12.00792
FAM65A	-1.66592	8.160298	-7.12217	8.91E-10	8.70E-09	12.00038
SAMD9	0.817848	7.104261	7.122041	8.92E-10	8.70E-09	11.99984
SNORA3	-2.17992	11.42194	-7.12204	8.92E-10	8.70E-09	11.99983
UBE2H	-0.76865	7.537957	-7.12141	8.94E-10	8.72E-09	11.99727
MIR1471	0.704919	6.848345	7.121191	8.95E-10	8.72E-09	11.99639
PIK3CD	1.517917	8.52498	7.121128	8.95E-10	8.72E-09	11.99613
RNU4-2	-2.28428	10.81722	-7.12075	8.96E-10	8.72E-09	11.9946
SLCO2B1	-1.04668	7.831281	-7.12067	8.97E-10	8.72E-09	11.99426
COX6C	-1.14548	7.951857	-7.12013	8.99E-10	8.74E-09	11.99207
KRT85	1.491817	7.307746	7.119641	9.01E-10	8.75E-09	11.99009
MT1IP	1.097552	7.05512	7.118984	9.03E-10	8.77E-09	11.98743

APOM	-1.53615	7.84821	-7.11893	9.03E-10	8.77E-09	11.98721
PRR20C	2.995591	8.577458	7.118525	9.05E-10	8.77E-09	11.98556
SP8	0.836639	6.923851	7.117803	9.07E-10	8.80E-09	11.98263
PTRF	-1.14593	7.681708	-7.11658	9.12E-10	8.83E-09	11.97768
TTC21A	1.564901	7.878089	7.115805	9.15E-10	8.86E-09	11.97452
IPO11	-0.99562	7.881855	-7.11563	9.16E-10	8.86E-09	11.97381
NPHS2	1.270975	7.106312	7.112994	9.26E-10	8.95E-09	11.9631
KIAA0802	1.560837	8.345694	7.112064	9.29E-10	8.98E-09	11.95933
EPHA3	0.932025	7.509773	7.11193	9.30E-10	8.98E-09	11.95878
MOSC2	-0.73577	7.050415	-7.11052	9.35E-10	9.03E-09	11.95306
CIB3	1.362577	7.181686	7.110237	9.36E-10	9.04E-09	11.95191
LOC10012	0.992813	7.005946	7.10915	9.40E-10	9.07E-09	11.9475
ZNF207	-1.34518	8.378144	-7.1074	9.47E-10	9.11E-09	11.94039
HRSP12	-0.96379	7.35975	-7.10733	9.48E-10	9.11E-09	11.94011
SST	0.814281	6.870568	7.106912	9.49E-10	9.12E-09	11.93841
VIPR2	0.801526	6.939919	7.106516	9.51E-10	9.14E-09	11.9368
CNIH4	-0.9926	8.183957	-7.10622	9.52E-10	9.14E-09	11.9356
C11orf44	0.767874	6.746269	7.105786	9.54E-10	9.15E-09	11.93384
SNORA73	-1.78115	9.050245	-7.10574	9.54E-10	9.15E-09	11.93364
OR10H3	0.798444	6.833761	7.1044	9.59E-10	9.20E-09	11.92822
NOX1	0.914273	6.977119	7.103822	9.61E-10	9.22E-09	11.92587
PSMA1	-0.80961	7.860072	-7.10367	9.62E-10	9.22E-09	11.92526
POM121C	-1.384	8.643827	-7.10143	9.71E-10	9.30E-09	11.91616
TPRG1L	-1.81968	8.615045	-7.10038	9.75E-10	9.34E-09	11.9119
PADI3	1.190224	7.09316	7.099238	9.80E-10	9.37E-09	11.90726
TNIP3	2.275376	8.193973	7.098864	9.81E-10	9.38E-09	11.90575
FABP6	2.429558	7.789039	7.098072	9.85E-10	9.40E-09	11.90253
DPP7	-1.09938	7.988576	-7.09801	9.85E-10	9.40E-09	11.90229
ARSA	-1.48433	8.16844	-7.09765	9.86E-10	9.41E-09	11.90084
DNAJB2	-1.24429	8.253185	-7.09634	9.92E-10	9.46E-09	11.89551
OR51I2	0.838882	6.864678	7.095017	9.97E-10	9.51E-09	11.89013
MPP6	-1.01765	7.423901	-7.09456	9.99E-10	9.52E-09	11.88828
TMED1	-1.7194	9.114202	-7.08935	1.02E-09	9.72E-09	11.86714
GNL2	-1.89975	8.298811	-7.08753	1.03E-09	9.78E-09	11.85976
WDR51A	-1.02498	7.900006	-7.08107	1.06E-09	1.00E-08	11.83355
EEF2	-1.40363	8.232022	-7.08073	1.06E-09	1.00E-08	11.83216
MAL	1.431017	7.459356	7.079644	1.06E-09	1.01E-08	11.82774
OTOA	0.943938	6.941117	7.079451	1.06E-09	1.01E-08	11.82696
OR8U1	1.157902	7.00683	7.078453	1.07E-09	1.01E-08	11.82291
SERPINF2	-1.30415	10.30206	-7.07768	1.07E-09	1.02E-08	11.81976
PTH1R	0.888797	7.411433	7.077593	1.07E-09	1.02E-08	11.81942
FRMPD2L	0.977073	6.958752	7.076858	1.07E-09	1.02E-08	11.81644
CORO1B	-0.87184	8.080576	-7.07606	1.08E-09	1.02E-08	11.81319
RUNDC2B	1.593008	10.2859	7.075799	1.08E-09	1.02E-08	11.81214
BAMBI	-1.78802	8.504495	-7.07494	1.08E-09	1.02E-08	11.80867
KIF5B	-0.7542	7.616689	-7.07462	1.08E-09	1.03E-08	11.80738
C1orf158	1.407488	7.307554	7.073762	1.09E-09	1.03E-08	11.80388
LMO3	0.818436	6.961621	7.071873	1.10E-09	1.04E-08	11.79622
EOMES	1.713513	8.34822	7.070263	1.10E-09	1.04E-08	11.78968
SPATA2L	-1.34766	8.181682	-7.0679	1.12E-09	1.05E-08	11.78011
OR2A14	1.510409	7.340099	7.067864	1.12E-09	1.05E-08	11.77995
MUCL1	1.855203	7.580516	7.061615	1.14E-09	1.08E-08	11.7546
OR51I1	0.851542	6.854086	7.060162	1.15E-09	1.08E-08	11.74871
POLR2I	-1.0385	7.481205	-7.05827	1.16E-09	1.09E-08	11.74105
NCOA2	-1.08803	7.991945	-7.05607	1.17E-09	1.10E-08	11.73213
FAM158A	-1.55565	8.74047	-7.05588	1.17E-09	1.10E-08	11.73133
ELSPBP1	1.181883	6.973026	7.055646	1.17E-09	1.10E-08	11.73039
DLX4	1.105841	7.173208	7.052447	1.19E-09	1.11E-08	11.71742

RPLP0P2	1.312089	7.939178	7.052305	1.19E-09	1.11E-08	11.71684
TAS1R2	1.115448	7.016649	7.05214	1.19E-09	1.11E-08	11.71618
MRPL22	-0.97777	7.468134	-7.05193	1.19E-09	1.12E-08	11.71531
ABHD9	1.899018	8.021949	7.051378	1.19E-09	1.12E-08	11.71308
ZYX	-0.8112	7.31214	-7.05129	1.19E-09	1.12E-08	11.71271
TMSB10	-0.78078	7.158534	-7.05111	1.20E-09	1.12E-08	11.71199
TCP10	0.741625	6.855257	7.050253	1.20E-09	1.12E-08	11.70852
ROMO1	-1.4752	8.250047	-7.04927	1.20E-09	1.12E-08	11.70455
MAF	-1.33486	7.888481	-7.0491	1.21E-09	1.12E-08	11.70386
SIGLECP3	0.741721	6.955862	7.048182	1.21E-09	1.13E-08	11.70013
GCN1L1	-1.01244	7.838295	-7.04796	1.21E-09	1.13E-08	11.69923
BRUNOL4	1.079884	7.006488	7.047091	1.22E-09	1.13E-08	11.6957
PHC1	1.276378	7.891008	7.046794	1.22E-09	1.13E-08	11.6945
ANGPT4	1.896439	7.625146	7.046606	1.22E-09	1.13E-08	11.69374
CHD1L	-0.93188	7.745524	-7.04633	1.22E-09	1.13E-08	11.69263
UBD	-2.13358	9.788285	-7.04466	1.23E-09	1.14E-08	11.68583
EIF4A1	-1.28388	8.892377	-7.04307	1.24E-09	1.15E-08	11.67938
SNORA5A	-1.59681	8.663261	-7.04272	1.24E-09	1.15E-08	11.67798
C14orf166	-0.81392	7.405812	-7.04209	1.24E-09	1.15E-08	11.67543
IL1B	1.37555	7.645716	7.04133	1.24E-09	1.15E-08	11.67234
ADRM1	-1.04129	8.422199	-7.04049	1.25E-09	1.16E-08	11.66893
ETFA	-0.72	7.441505	-7.04036	1.25E-09	1.16E-08	11.66842
CDC16	-1.14395	7.727608	-7.04014	1.25E-09	1.16E-08	11.66752
ZNF511	-0.84772	7.618669	-7.03774	1.26E-09	1.17E-08	11.65781
UBXN6	-0.90809	7.512468	-7.03757	1.26E-09	1.17E-08	11.65709
SNORD36	-1.8554	8.883368	-7.03716	1.27E-09	1.17E-08	11.65544
RGR	0.830871	6.960222	7.036636	1.27E-09	1.17E-08	11.65331
C1orf123	-1.03656	7.605073	-7.03645	1.27E-09	1.17E-08	11.65257
TM4SF1	-1.7624	8.775766	-7.0364	1.27E-09	1.17E-08	11.65234
MSX1	1.234779	7.381569	7.036042	1.27E-09	1.18E-08	11.6509
FBXO24	1.194381	7.341997	7.035674	1.27E-09	1.18E-08	11.64941
OR4C6	1.276729	7.011383	7.034979	1.28E-09	1.18E-08	11.64659
FOXD4L3	1.152374	7.09152	7.034026	1.28E-09	1.18E-08	11.64273
CITED1	1.207756	7.293206	7.033689	1.28E-09	1.18E-08	11.64136
KRT78	0.845166	6.925423	7.033584	1.29E-09	1.18E-08	11.64094
DGAT1	-1.28669	7.67548	-7.03219	1.29E-09	1.19E-08	11.63528
TMEM75	1.073836	7.045362	7.032125	1.29E-09	1.19E-08	11.63502
UPF2	-0.95687	7.843313	-7.03153	1.30E-09	1.19E-08	11.63259
ODF3	2.065884	7.563149	7.031269	1.30E-09	1.19E-08	11.63155
MRGPRX4	1.448211	7.266796	7.029801	1.31E-09	1.20E-08	11.6256
ZNF385C	1.463746	7.466931	7.029718	1.31E-09	1.20E-08	11.62527
CHD4	-0.9946	7.599398	-7.02909	1.31E-09	1.20E-08	11.62271
STK33	1.112046	7.216318	7.02851	1.31E-09	1.21E-08	11.62037
LOC40089	1.201889	7.102893	7.026186	1.33E-09	1.22E-08	11.61095
HTR3C	1.719067	7.603902	7.024962	1.33E-09	1.22E-08	11.60599
CHST13	-1.54138	8.958929	-7.02469	1.33E-09	1.22E-08	11.60489
RNF7	-1.33867	8.736833	-7.02238	1.35E-09	1.23E-08	11.59552
PPP1R2P9	0.732834	6.82304	7.02232	1.35E-09	1.23E-08	11.59528
ASGR2	-1.38762	8.952199	-7.01937	1.36E-09	1.25E-08	11.58334
AMAC1L2	0.972099	6.93692	7.01884	1.37E-09	1.25E-08	11.58118
HTR4	0.731139	6.946605	7.018648	1.37E-09	1.25E-08	11.5804
SELPLG	0.956324	7.066774	7.014984	1.39E-09	1.27E-08	11.56555
POM121L	2.147383	7.908907	7.014584	1.39E-09	1.27E-08	11.56393
BEST2	1.825709	7.312474	7.013363	1.40E-09	1.28E-08	11.55898
SDHA	-1.42926	8.594286	-7.0133	1.40E-09	1.28E-08	11.55871
KCNA1	0.873469	6.78398	7.012416	1.40E-09	1.28E-08	11.55514
C6orf114	-0.76361	7.257832	-7.00998	1.42E-09	1.29E-08	11.54528
SEC61B	-1.09673	7.737274	-7.00995	1.42E-09	1.29E-08	11.54516

AIG1	-1.06265	7.973873	-7.00839	1.43E-09	1.30E-08	11.53885
MSX2P1	1.044731	6.975466	7.0072	1.43E-09	1.30E-08	11.53401
SNORA50	-1.84225	9.337998	-7.00662	1.44E-09	1.31E-08	11.53164
SCGB1D4	1.098438	6.928159	7.005836	1.44E-09	1.31E-08	11.52848
IFI6	-1.10274	9.459762	-7.00564	1.44E-09	1.31E-08	11.52769
OR5H15	0.72102	6.709464	7.0032	1.46E-09	1.32E-08	11.5178
EMD	-1.35188	8.069262	-7.00067	1.47E-09	1.34E-08	11.50756
GJD3	1.560759	8.017006	6.999772	1.48E-09	1.34E-08	11.50391
RAB2A	-0.72652	7.55505	-6.999	1.48E-09	1.34E-08	11.5008
CHST10	1.853635	7.699436	6.997035	1.49E-09	1.35E-08	11.49283
IDE	-1.10813	7.410001	-6.99689	1.50E-09	1.35E-08	11.49226
ZNF585A	0.79754	7.093807	6.994937	1.51E-09	1.36E-08	11.48433
PPYR1	1.13676	6.92415	6.994064	1.51E-09	1.37E-08	11.48079
MIR1978	1.542821	10.89869	6.994034	1.51E-09	1.37E-08	11.48067
C3orf43	0.841073	6.945359	6.99121	1.53E-09	1.38E-08	11.46923
HSP90B3P	-0.87327	7.563647	-6.98902	1.55E-09	1.39E-08	11.46037
SPDEF	1.189284	7.178656	6.988457	1.55E-09	1.40E-08	11.45808
OR9K2	1.363983	7.092451	6.987609	1.55E-09	1.40E-08	11.45465
SLC2A2	-1.85004	8.819798	-6.98579	1.57E-09	1.41E-08	11.44728
OR52K2	1.039663	7.030427	6.984418	1.57E-09	1.42E-08	11.44172
APOA1	-2.83129	11.02461	-6.98364	1.58E-09	1.42E-08	11.43858
TSEN34	-0.79966	7.382266	-6.98293	1.58E-09	1.43E-08	11.43568
XRN2	-0.74665	7.171495	-6.98232	1.59E-09	1.43E-08	11.43321
ABCC8	2.334852	8.061141	6.980132	1.60E-09	1.44E-08	11.42437
SFT2D2	-0.71165	7.406132	-6.97924	1.61E-09	1.45E-08	11.42076
ATP8A2	1.629853	7.67129	6.976318	1.63E-09	1.46E-08	11.40892
GFI1B	0.784178	6.969604	6.973101	1.65E-09	1.48E-08	11.3959
MIR1208	1.520532	7.23191	6.97294	1.65E-09	1.48E-08	11.39525
TFF1	1.593108	7.201805	6.972639	1.65E-09	1.48E-08	11.39403
TNFRSF12	-1.1041	7.837819	-6.97183	1.66E-09	1.49E-08	11.39075
FKBP5	-1.20346	8.184312	-6.96985	1.67E-09	1.50E-08	11.38272
YME1L1	-0.83867	7.49839	-6.96795	1.69E-09	1.51E-08	11.37504
TBC1D3G	1.249574	7.972602	6.967625	1.69E-09	1.51E-08	11.37373
OR1M1	1.815793	7.289875	6.96733	1.69E-09	1.51E-08	11.37253
HCFC1R1	-0.87036	7.743254	-6.96699	1.69E-09	1.51E-08	11.37116
GPT2	-2.25542	9.268337	-6.9668	1.69E-09	1.51E-08	11.37039
MRPL33	-1.06026	8.229443	-6.96655	1.70E-09	1.51E-08	11.36936
STAT2	-1.85671	8.905523	-6.96592	1.70E-09	1.52E-08	11.36681
SOX2OT	0.712376	6.926198	6.965525	1.70E-09	1.52E-08	11.36523
MIR196B	1.064554	6.992665	6.965107	1.71E-09	1.52E-08	11.36353
OR6K2	1.16092	7.114477	6.963633	1.72E-09	1.53E-08	11.35757
MYL6B	-1.04861	7.405635	-6.96347	1.72E-09	1.53E-08	11.35692
TRPT1	-0.79542	7.638821	-6.96311	1.72E-09	1.53E-08	11.35547
GAK	-2.21704	9.593192	-6.96266	1.72E-09	1.53E-08	11.35364
SAT1	-1.04737	8.232174	-6.96241	1.72E-09	1.53E-08	11.35261
OR4D10	0.777136	6.860781	6.962171	1.73E-09	1.53E-08	11.35165
OR6C3	1.748476	7.392355	6.961004	1.73E-09	1.54E-08	11.34693
CABP2	0.99064	6.988574	6.960651	1.74E-09	1.54E-08	11.3455
KHNYN	1.287652	9.240055	6.960446	1.74E-09	1.54E-08	11.34467
LOC44031	1.424061	7.19857	6.959669	1.74E-09	1.55E-08	11.34152
C19orf56	-1.07747	7.823612	-6.95748	1.76E-09	1.56E-08	11.33266
PHACTR3	1.132626	7.296731	6.956619	1.77E-09	1.56E-08	11.32918
PRODH2	-1.36159	7.896266	-6.9561	1.77E-09	1.57E-08	11.32708
TGOLN2	-0.86251	7.544833	-6.9551	1.78E-09	1.57E-08	11.32304
CAMK2B	1.301461	7.362421	6.953599	1.79E-09	1.58E-08	11.31695
ADH1A	-1.84498	8.928991	-6.95061	1.81E-09	1.60E-08	11.30487
CPA4	1.121364	7.267768	6.950088	1.81E-09	1.60E-08	11.30274
LCE5A	1.090581	7.03692	6.950027	1.82E-09	1.60E-08	11.3025

RPS29	-0.83714	10.28612	-6.94498	1.85E-09	1.63E-08	11.28208
FGG	-1.71962	9.369802	-6.94493	1.85E-09	1.63E-08	11.28188
SC65	0.754972	7.078496	6.943497	1.86E-09	1.64E-08	11.27607
CES4	-1.78664	9.977738	-6.94318	1.87E-09	1.64E-08	11.27478
NHLH1	1.611283	7.446252	6.941976	1.88E-09	1.65E-08	11.26992
COP55	-1.19516	8.179736	-6.93996	1.89E-09	1.66E-08	11.26178
RPL23AP5	0.757969	7.252896	6.939159	1.90E-09	1.67E-08	11.25852
UGT2B15	-1.78496	8.398426	-6.93811	1.91E-09	1.67E-08	11.25427
TEX14	1.223535	7.181359	6.937892	1.91E-09	1.67E-08	11.2534
KIAA1045	1.105182	7.042872	6.937329	1.91E-09	1.68E-08	11.25112
IQCF2	1.713848	7.262575	6.937323	1.91E-09	1.68E-08	11.2511
WBSCR28	0.923928	6.846274	6.935264	1.93E-09	1.69E-08	11.24277
HPN	-0.8533	7.379613	-6.93125	1.96E-09	1.71E-08	11.22653
CASC2	0.70249	6.881755	6.930338	1.97E-09	1.72E-08	11.22284
TBC1D3H	0.858372	7.601864	6.928149	1.99E-09	1.73E-08	11.21398
DIAPH1	-0.93078	8.038781	-6.92678	2.00E-09	1.74E-08	11.20845
PIP5K1B	0.904642	7.092956	6.925432	2.01E-09	1.75E-08	11.203
SLC26A9	0.796189	6.923107	6.920852	2.05E-09	1.78E-08	11.18447
SIX3	1.336624	7.22178	6.919865	2.06E-09	1.79E-08	11.18048
WDR49	0.985943	7.052053	6.911807	2.13E-09	1.85E-08	11.1479
FOXD4	1.551476	7.764254	6.911291	2.13E-09	1.85E-08	11.14581
HOXA9	1.385403	7.240223	6.910208	2.14E-09	1.86E-08	11.14143
KRTAP6-3	1.222447	7.074757	6.908684	2.15E-09	1.87E-08	11.13527
AADAC	-1.05832	7.587492	-6.90833	2.16E-09	1.87E-08	11.13383
CYTSA	-0.73358	7.560793	-6.90697	2.17E-09	1.88E-08	11.12834
UBE2E1	-1.28262	8.223864	-6.90566	2.18E-09	1.89E-08	11.12305
SLC40A1	-1.0317	7.725592	-6.90269	2.21E-09	1.91E-08	11.11103
CNIH	-0.92508	8.138263	-6.90165	2.22E-09	1.92E-08	11.10682
RCC1	-0.92221	7.261847	-6.901	2.22E-09	1.92E-08	11.10419
LIX1	1.214362	7.301225	6.898383	2.25E-09	1.94E-08	11.09363
TNMD	0.862904	6.955136	6.897881	2.25E-09	1.94E-08	11.0916
TMEM132	1.714075	7.626248	6.893901	2.29E-09	1.97E-08	11.07551
RPL3	-1.04882	9.264753	-6.89333	2.29E-09	1.98E-08	11.07322
ILK	-0.73531	7.809506	-6.89267	2.30E-09	1.98E-08	11.07052
TMEM66	-1.17445	7.767453	-6.88988	2.33E-09	2.00E-08	11.05925
HRK	0.947405	6.811627	6.889702	2.33E-09	2.00E-08	11.05854
HIST1H4B	-0.7942	7.530146	-6.88925	2.33E-09	2.01E-08	11.0567
FAM105B	-0.87603	7.542313	-6.88613	2.36E-09	2.03E-08	11.04412
TTY6B	0.730894	6.808745	6.882963	2.39E-09	2.05E-08	11.03131
LOC3999C	1.59725	9.904153	6.882855	2.39E-09	2.05E-08	11.03087
SRC	1.141384	8.85051	6.880642	2.42E-09	2.07E-08	11.02193
BLOC1S2	1.048377	7.662067	6.879359	2.43E-09	2.08E-08	11.01675
FOXO4	-1.28471	7.834222	-6.879	2.43E-09	2.08E-08	11.01528
LOC33924	1.250936	7.378493	6.878867	2.43E-09	2.08E-08	11.01476
MYCBP	0.894598	7.078231	6.876201	2.46E-09	2.10E-08	11.00399
SNORA74	-2.24563	10.2308	-6.87505	2.47E-09	2.11E-08	10.99934
OR6P1	0.722909	6.762795	6.874471	2.48E-09	2.12E-08	10.997
CLRN1OS	1.335524	7.213241	6.873799	2.49E-09	2.12E-08	10.99429
KRTDAP	0.773633	6.750541	6.870583	2.52E-09	2.15E-08	10.98129
TNN	1.946049	8.445504	6.87017	2.52E-09	2.15E-08	10.97963
NDUFB5	-1.26554	8.605668	-6.86756	2.55E-09	2.17E-08	10.96909
STAT3	-0.72476	7.904424	-6.86644	2.56E-09	2.18E-08	10.96457
RAG1AP1	-0.8692	7.85759	-6.86068	2.62E-09	2.23E-08	10.94128
FAM107B	-1.09425	8.206053	-6.85952	2.64E-09	2.24E-08	10.93661
SNORD57	-1.6907	8.54777	-6.85949	2.64E-09	2.24E-08	10.93649
C8B	-1.40838	7.791654	-6.85916	2.64E-09	2.24E-08	10.93516
C3orf56	1.46039	7.261231	6.857915	2.65E-09	2.26E-08	10.93013
ZNF471	1.369542	7.687729	6.855521	2.68E-09	2.28E-08	10.92046

PTCHD1	0.738245	6.786603	6.855001	2.69E-09	2.28E-08	10.91836
SPATS2L	-0.87964	7.672363	-6.85498	2.69E-09	2.28E-08	10.91828
OR4C13	0.875121	6.932501	6.853295	2.70E-09	2.30E-08	10.91147
ELL2	-1.03949	7.788664	-6.85194	2.72E-09	2.31E-08	10.90601
SNORD41	-1.42717	8.517564	-6.85191	2.72E-09	2.31E-08	10.9059
RPL35	-1.53272	8.622682	-6.85127	2.73E-09	2.31E-08	10.90329
KRTHA5	0.819195	6.884544	6.851239	2.73E-09	2.31E-08	10.90317
HSP90B1	-1.14845	7.529307	-6.84926	2.75E-09	2.33E-08	10.89518
KRTAP23-	1.68629	7.297702	6.848126	2.76E-09	2.34E-08	10.8906
SNORD15	-2.05218	10.52699	-6.84756	2.77E-09	2.34E-08	10.88832
SPRYD3	-1.14646	7.718342	-6.84742	2.77E-09	2.34E-08	10.88775
DTNBP1	0.789935	7.621554	6.847097	2.77E-09	2.34E-08	10.88645
OR6C4	0.827323	6.837105	6.84673	2.78E-09	2.35E-08	10.88497
PIP4K2B	-0.75362	7.498696	-6.84607	2.79E-09	2.35E-08	10.88232
ITCH	-1.30455	7.896388	-6.84097	2.85E-09	2.40E-08	10.8617
TCTN2	0.976432	7.498999	6.838938	2.87E-09	2.42E-08	10.85351
DNAJC3	-1.22329	8.382987	-6.83829	2.88E-09	2.42E-08	10.85089
CCND1	-1.76338	8.35491	-6.83809	2.88E-09	2.42E-08	10.85008
PLD3	-0.9746	7.790401	-6.83776	2.88E-09	2.42E-08	10.84874
PNPO	-1.02517	7.584695	-6.83689	2.89E-09	2.43E-08	10.84523
CEACAM6	1.278695	7.276946	6.836425	2.90E-09	2.44E-08	10.84337
RAET1K	1.077436	7.232323	6.836089	2.90E-09	2.44E-08	10.84202
NCOR2	-0.70552	7.48166	-6.83591	2.91E-09	2.44E-08	10.8413
BCL2L15	0.800625	6.987545	6.835507	2.91E-09	2.44E-08	10.83967
SDK2	2.18164	8.902537	6.834638	2.92E-09	2.45E-08	10.83616
CSH2	1.698578	7.397818	6.833747	2.93E-09	2.45E-08	10.83256
AAA1	1.001987	7.191564	6.832072	2.95E-09	2.47E-08	10.8258
RPL11	-1.47933	8.233535	-6.83036	2.97E-09	2.49E-08	10.81887
STAT6	-1.28369	9.286531	-6.8301	2.98E-09	2.49E-08	10.81785
BRP44L	-1.31669	8.442945	-6.82719	3.01E-09	2.52E-08	10.80609
KPNB1	-0.80515	8.192031	-6.82702	3.01E-09	2.52E-08	10.8054
UTP11L	-0.95309	7.946155	-6.82649	3.02E-09	2.52E-08	10.8033
LAMP1	-1.1068	7.44975	-6.8253	3.04E-09	2.53E-08	10.79847
C11orf60	0.817641	7.075924	6.824546	3.04E-09	2.54E-08	10.79544
OR2AG2	1.0579	7.093678	6.822842	3.07E-09	2.56E-08	10.78856
KCNJ6	0.888958	6.953782	6.821939	3.08E-09	2.57E-08	10.78492
STAG1	-0.70954	7.219361	-6.82194	3.08E-09	2.57E-08	10.7849
LBP	-0.75623	6.976258	-6.82183	3.08E-09	2.57E-08	10.78447
PIGU	-1.5182	9.190471	-6.8202	3.10E-09	2.58E-08	10.7779
C4orf44	1.148796	7.295934	6.819796	3.10E-09	2.58E-08	10.77627
CMC1	-1.03872	7.355738	-6.81856	3.12E-09	2.59E-08	10.77128
PRIM2	1.085325	7.456142	6.818377	3.12E-09	2.60E-08	10.77054
CSN3	2.369235	7.856861	6.818099	3.13E-09	2.60E-08	10.76942
EEF1D	-0.70999	7.289339	-6.81711	3.14E-09	2.60E-08	10.76544
TMED2	-1.51873	8.250578	-6.81707	3.14E-09	2.60E-08	10.76527
C9orf106	1.163374	7.373537	6.816844	3.14E-09	2.61E-08	10.76436
LOC38951	1.245189	8.407771	6.813267	3.19E-09	2.64E-08	10.74993
GDI1	-0.72442	7.201765	-6.81018	3.23E-09	2.67E-08	10.73749
DEFB125	1.535531	7.468239	6.81006	3.23E-09	2.67E-08	10.73699
AKR1C3	-2.53617	9.102505	-6.80843	3.25E-09	2.69E-08	10.73043
BLVRB	-1.39548	8.197905	-6.80731	3.27E-09	2.70E-08	10.72591
CACNA2D	1.182561	7.481001	6.807017	3.27E-09	2.70E-08	10.72472
TM4SF19	0.82973	7.05095	6.806527	3.28E-09	2.70E-08	10.72275
FLJ36701	0.725446	6.821776	6.805271	3.30E-09	2.72E-08	10.71768
C4BPB	-0.88884	7.62508	-6.80512	3.30E-09	2.72E-08	10.71706
NDUFA1	-1.19942	8.342129	-6.80503	3.30E-09	2.72E-08	10.71671
ADAR	-0.95932	8.308892	-6.80459	3.31E-09	2.72E-08	10.71492
PLB1	1.326088	7.648435	6.804303	3.31E-09	2.72E-08	10.71377

TCF23	0.800549	6.99648	6.803874	3.31E-09	2.73E-08	10.71205
MPHOSP1	-1.1145	7.718612	-6.80166	3.35E-09	2.75E-08	10.70312
FLJ42102	1.321219	7.01242	6.80134	3.35E-09	2.75E-08	10.70183
POLR2J2	-0.94237	7.40386	-6.79817	3.39E-09	2.78E-08	10.68904
IKBKG	-1.53275	8.258406	-6.79329	3.46E-09	2.84E-08	10.66937
ATOX1	-1.83796	10.48022	-6.79304	3.47E-09	2.84E-08	10.66837
CACNA2D	1.335621	7.662755	6.792331	3.48E-09	2.85E-08	10.6655
DYNLL2	-1.08116	9.012371	-6.7915	3.49E-09	2.85E-08	10.66217
PRICKLE4	-0.83273	7.535994	-6.79021	3.51E-09	2.87E-08	10.65695
SSTR2	0.814306	7.175646	6.789387	3.52E-09	2.88E-08	10.65363
CCDC92	-1.16246	8.263554	-6.78756	3.55E-09	2.90E-08	10.64627
PIGM	-0.81098	7.552332	-6.78611	3.57E-09	2.91E-08	10.6404
OVOL2	0.802094	6.86507	6.784957	3.58E-09	2.92E-08	10.63578
SNHG8	-1.30557	7.766311	-6.78485	3.58E-09	2.92E-08	10.63535
NMBR	0.792131	6.865459	6.784666	3.59E-09	2.92E-08	10.6346
SLAMF6	0.835239	7.492091	6.78374	3.60E-09	2.93E-08	10.63087
LOC10012	1.034766	7.253918	6.782431	3.62E-09	2.95E-08	10.6256
MXD4	-1.90191	9.617629	-6.78077	3.65E-09	2.97E-08	10.61891
GPX4	-1.69115	9.608441	-6.7799	3.66E-09	2.98E-08	10.61539
FLJ35816	0.945693	6.936234	6.779425	3.67E-09	2.98E-08	10.61348
KCTD3	-0.72804	7.496729	-6.77906	3.67E-09	2.98E-08	10.61201
C20orf26	1.450531	7.249491	6.777135	3.70E-09	3.00E-08	10.60425
C16orf3	1.71073	7.576247	6.775818	3.72E-09	3.02E-08	10.59894
PDXDC1	-1.06457	7.963442	-6.77546	3.73E-09	3.02E-08	10.59752
MIR604	1.204482	8.718714	6.775134	3.73E-09	3.02E-08	10.59619
UGDH	-1.07564	7.406225	-6.77417	3.75E-09	3.03E-08	10.59229
GK2	0.855585	6.817272	6.773939	3.75E-09	3.03E-08	10.59137
NIPBL	-0.7216	7.716583	-6.77342	3.76E-09	3.04E-08	10.58928
PGRMC2	-1.46656	7.867285	-6.77228	3.77E-09	3.05E-08	10.5847
NOTCH3	-1.53887	8.833601	-6.77157	3.79E-09	3.06E-08	10.58181
CES1	-1.72396	8.788145	-6.77015	3.81E-09	3.07E-08	10.57612
METAP2	-1.40017	7.845701	-6.76851	3.83E-09	3.09E-08	10.5695
SUMF1	-0.84203	7.342679	-6.76793	3.84E-09	3.10E-08	10.56714
RBM14	-1.07064	7.591	-6.76758	3.85E-09	3.10E-08	10.56574
CNNM1	2.079692	8.374232	6.765401	3.88E-09	3.13E-08	10.55697
ACRV1	0.880456	6.877458	6.765075	3.89E-09	3.13E-08	10.55565
OR4D6	1.871984	7.603267	6.764806	3.89E-09	3.13E-08	10.55457
RPH3A	0.881298	7.009012	6.764004	3.91E-09	3.14E-08	10.55134
PTGES2	-1.60722	8.974742	-6.76373	3.91E-09	3.14E-08	10.55023
FAM116B	-1.30601	8.03143	-6.76307	3.92E-09	3.15E-08	10.54757
TEX261	-0.72885	7.520293	-6.76192	3.94E-09	3.16E-08	10.54296
SSR4	-0.70736	7.250402	-6.76119	3.95E-09	3.17E-08	10.54001
PSMB4	-1.20009	8.298229	-6.76066	3.96E-09	3.18E-08	10.53787
CDKL2	0.789022	6.826186	6.75796	4.00E-09	3.21E-08	10.527
POLR2H	-1.04556	9.419641	-6.75705	4.02E-09	3.22E-08	10.52335
STARD10	-0.71864	7.111326	-6.75617	4.03E-09	3.23E-08	10.5198
CASC1	0.968841	6.926857	6.753705	4.07E-09	3.26E-08	10.50986
SNORD97	-1.98108	9.171298	-6.75264	4.09E-09	3.27E-08	10.50556
PPY	1.300047	7.328971	6.752565	4.09E-09	3.27E-08	10.50526
C11orf10	-1.33366	10.18937	-6.75163	4.11E-09	3.28E-08	10.50152
CEBPB	-1.86458	9.989659	-6.75094	4.12E-09	3.29E-08	10.49874
SNORA39	-1.92069	9.166451	-6.74825	4.17E-09	3.33E-08	10.4879
ASB18	1.46335	7.357586	6.747754	4.18E-09	3.33E-08	10.48589
LHX9	1.069757	7.124538	6.74739	4.18E-09	3.34E-08	10.48442
STAT1	-1.25536	9.291998	-6.74704	4.19E-09	3.34E-08	10.48303
FANCD2	1.048192	7.437829	6.745382	4.22E-09	3.36E-08	10.47634
COL4A2	-0.90534	7.72017	-6.74432	4.23E-09	3.37E-08	10.47208
TH	1.727272	7.305226	6.743552	4.25E-09	3.38E-08	10.46897

SCARNA2	-1.51162	8.728162	-6.74344	4.25E-09	3.38E-08	10.46854
PHB2	-0.73194	7.669407	-6.74252	4.27E-09	3.39E-08	10.4648
KRTAP10-	1.231676	7.044617	6.742357	4.27E-09	3.39E-08	10.46416
RGS6	0.72788	6.916218	6.742268	4.27E-09	3.39E-08	10.4638
TIMP3	-1.43693	8.23037	-6.74217	4.27E-09	3.39E-08	10.46342
WDR13	-1.25379	8.36984	-6.74158	4.28E-09	3.40E-08	10.46104
TMEM163	1.14919	7.138491	6.73992	4.31E-09	3.42E-08	10.45435
SMC1B	1.000944	7.029154	6.738295	4.34E-09	3.44E-08	10.4478
LRRTM1	0.741769	6.777671	6.736681	4.37E-09	3.46E-08	10.44131
HSPA1A	-1.69603	8.09447	-6.73495	4.40E-09	3.48E-08	10.43433
ZNF626	1.011338	7.496381	6.733307	4.43E-09	3.51E-08	10.42772
OTP	2.851386	8.658451	6.732784	4.44E-09	3.51E-08	10.42562
PTPLB	-1.57287	8.300145	-6.73165	4.46E-09	3.53E-08	10.42105
GK	-1.13332	8.306934	-6.73093	4.47E-09	3.54E-08	10.41816
PLOD1	-1.28098	8.669493	-6.72877	4.51E-09	3.56E-08	10.40948
RIMS1	2.024328	7.675446	6.72836	4.52E-09	3.57E-08	10.40781
SNORA57	-2.18983	11.68846	-6.72707	4.55E-09	3.59E-08	10.40262
DDOST	-0.72506	7.518515	-6.72695	4.55E-09	3.59E-08	10.40216
CHP	-0.77407	7.531829	-6.72678	4.55E-09	3.59E-08	10.40146
EIF5A2	1.204525	7.354834	6.718355	4.71E-09	3.71E-08	10.36755
C8orf55	-1.71947	9.196901	-6.71641	4.75E-09	3.73E-08	10.35973
AURKC	1.312584	7.469407	6.71324	4.81E-09	3.78E-08	10.34697
C6orf108	-1.12047	8.336211	-6.71303	4.82E-09	3.78E-08	10.34615
LOC72916	1.007628	7.11515	6.712963	4.82E-09	3.78E-08	10.34586
SLC38A2	-2.03045	8.642485	-6.71223	4.83E-09	3.79E-08	10.34292
NACA	-0.80742	7.379086	-6.71183	4.84E-09	3.80E-08	10.3413
METTL7A	-1.59527	8.410645	-6.71098	4.86E-09	3.81E-08	10.33789
ZBTB4	-0.80296	8.043892	-6.70962	4.88E-09	3.83E-08	10.33242
PHB	-1.41471	8.047301	-6.70896	4.90E-09	3.84E-08	10.32976
ELA3A	1.401507	7.121	6.707636	4.92E-09	3.86E-08	10.32443
CBWD1	-0.82949	7.292719	-6.70723	4.93E-09	3.86E-08	10.32281
KLHDC2	-0.94064	7.474316	-6.70492	4.98E-09	3.89E-08	10.31352
SOX13	-0.70504	7.710993	-6.70373	5.00E-09	3.91E-08	10.30871
CACNB1	0.776751	7.135183	6.703615	5.01E-09	3.91E-08	10.30826
H1FNT	1.252196	7.418819	6.703439	5.01E-09	3.91E-08	10.30755
AKR7A2	-1.02664	7.911369	-6.70236	5.03E-09	3.93E-08	10.30322
MYO1B	-0.84659	7.390185	-6.70219	5.03E-09	3.93E-08	10.30252
MST1R	1.641962	7.517157	6.700903	5.06E-09	3.95E-08	10.29735
INSL3	0.952469	6.901142	6.700598	5.07E-09	3.95E-08	10.29612
XRCC6	-1.19282	8.452682	-6.70022	5.08E-09	3.95E-08	10.2946
ILVBL	-1.20262	9.068966	-6.699	5.10E-09	3.97E-08	10.28968
SLC15A3	-1.02789	7.801364	-6.69856	5.11E-09	3.97E-08	10.28794
C9orf114	-1.02799	7.947005	-6.6968	5.15E-09	4.00E-08	10.28084
SF3A2	-1.08103	8.120628	-6.69603	5.16E-09	4.01E-08	10.27775
KIAA0773	1.022505	7.132339	6.695057	5.18E-09	4.02E-08	10.27384
FAM125A	-1.02408	7.618531	-6.69498	5.19E-09	4.02E-08	10.27353
MGC4432	0.990887	6.968734	6.69494	5.19E-09	4.02E-08	10.27337
CCDC125	1.233322	7.592138	6.694864	5.19E-09	4.02E-08	10.27306
IFITM1	-1.67087	7.970491	-6.69467	5.19E-09	4.03E-08	10.27227
ABCB7	-0.84228	7.755781	-6.69264	5.24E-09	4.06E-08	10.2641
SNORD84	-1.92471	9.459477	-6.69212	5.25E-09	4.07E-08	10.26204
TPSG1	2.261821	7.81857	6.689296	5.31E-09	4.11E-08	10.25068
PRKAB2	-1.19323	8.030626	-6.68843	5.33E-09	4.12E-08	10.2472
FLJ12684	0.904798	6.83076	6.688293	5.33E-09	4.12E-08	10.24664
SLC47A1	-1.89388	9.296619	-6.68767	5.34E-09	4.13E-08	10.24414
SETDB2	-0.81189	8.656587	-6.6862	5.38E-09	4.15E-08	10.23822
SFRS2	-0.73705	7.590201	-6.68618	5.38E-09	4.15E-08	10.23815
ISL1	0.893675	6.918532	6.685824	5.38E-09	4.16E-08	10.23672

DNAJC8	-2.26061	9.861429	-6.68572	5.39E-09	4.16E-08	10.2363
RFPL1S	1.394672	7.482956	6.685534	5.39E-09	4.16E-08	10.23555
CCDC37	0.879934	6.873608	6.684003	5.42E-09	4.18E-08	10.2294
SCRIB	-1.29236	8.950274	-6.68292	5.45E-09	4.20E-08	10.22506
VRK2	-0.78547	7.49709	-6.68216	5.47E-09	4.21E-08	10.22199
OR51S1	1.90273	7.38271	6.680731	5.50E-09	4.23E-08	10.21624
HBA2	-1.79354	9.58285	-6.68064	5.50E-09	4.23E-08	10.21587
WFIKKN2	1.338532	7.240972	6.679453	5.53E-09	4.25E-08	10.21111
CHST6	1.959574	7.668637	6.679277	5.53E-09	4.25E-08	10.2104
SCARB2	-1.13795	7.607882	-6.67863	5.55E-09	4.26E-08	10.2078
AARS	-1.70916	10.27908	-6.67694	5.58E-09	4.29E-08	10.201
TXNIP	-1.40266	8.7903	-6.6751	5.63E-09	4.32E-08	10.19363
SERPINA7	-1.54589	8.338437	-6.6745	5.64E-09	4.33E-08	10.19119
UBIAD1	-0.8809	7.438143	-6.67404	5.65E-09	4.33E-08	10.18937
PPP1R14C	0.80742	6.767531	6.673342	5.67E-09	4.34E-08	10.18655
RGPD2	1.003514	7.821765	6.672899	5.68E-09	4.35E-08	10.18477
MYH7B	0.819371	7.043432	6.671935	5.70E-09	4.37E-08	10.1809
TROVE2	-0.75382	8.316316	-6.67104	5.72E-09	4.38E-08	10.17729
MYO18A	-1.2041	7.944328	-6.66931	5.76E-09	4.41E-08	10.17037
C17orf77	1.075413	6.870411	6.668014	5.79E-09	4.43E-08	10.16514
PLSCR2	1.308246	7.216356	6.666422	5.83E-09	4.46E-08	10.15874
PSPC1	-0.79296	7.684076	-6.66623	5.84E-09	4.46E-08	10.15796
FAM83E	1.325278	7.007656	6.663108	5.91E-09	4.51E-08	10.14543
FOSL2	-1.13853	8.175431	-6.66308	5.91E-09	4.51E-08	10.1453
ADIG	1.130221	7.117684	6.662851	5.92E-09	4.51E-08	10.1444
CD302	-0.77338	7.429063	-6.66228	5.93E-09	4.52E-08	10.1421
SCN3B	0.81183	6.870687	6.661635	5.95E-09	4.53E-08	10.13951
SNRPC	-0.92854	8.552895	-6.66153	5.95E-09	4.53E-08	10.13909
NDUFA8	-1.26849	8.981936	-6.66148	5.95E-09	4.53E-08	10.13889
MBD4	1.21157	8.990029	6.659656	5.99E-09	4.56E-08	10.13157
SNX26	-0.71027	7.344298	-6.65789	6.04E-09	4.59E-08	10.12447
FLJ43860	0.840173	6.966428	6.657108	6.06E-09	4.61E-08	10.12133
ALS2CL	1.025245	8.367386	6.652377	6.18E-09	4.69E-08	10.10233
LOC39068	0.815982	6.762506	6.646854	6.32E-09	4.79E-08	10.08015
METTL11E	0.905854	6.962544	6.645764	6.35E-09	4.81E-08	10.07577
DCAKD	-1.56622	8.669111	-6.64547	6.35E-09	4.82E-08	10.07459
POU4F3	2.372871	7.750833	6.645176	6.36E-09	4.82E-08	10.07341
SPTAN1	-1.12177	9.665955	-6.64345	6.41E-09	4.85E-08	10.06646
SNORD10	-0.97729	7.578618	-6.64249	6.43E-09	4.87E-08	10.06264
UGT3A2	2.209047	7.920852	6.641975	6.45E-09	4.88E-08	10.06056
GPR137	-0.78566	10.83315	-6.63901	6.52E-09	4.93E-08	10.04865
BCL11A	0.997708	7.42169	6.638859	6.53E-09	4.93E-08	10.04805
OR8S1	1.309434	7.098152	6.63883	6.53E-09	4.93E-08	10.04793
C17orf82	-0.77573	7.412437	-6.63726	6.57E-09	4.96E-08	10.04164
SND1	-0.71038	7.859047	-6.63656	6.59E-09	4.97E-08	10.03883
TUBA3E	0.813367	6.937064	6.633924	6.66E-09	5.02E-08	10.02824
PRB4	1.093834	7.037774	6.633709	6.67E-09	5.02E-08	10.02738
P2RY11	-0.92652	8.66952	-6.63318	6.68E-09	5.03E-08	10.02527
KRT8	-1.04356	7.639115	-6.63274	6.69E-09	5.03E-08	10.02347
PPP1R16A	-1.6923	9.067577	-6.63056	6.75E-09	5.08E-08	10.01472
CNTD2	1.610159	7.839272	6.628146	6.82E-09	5.12E-08	10.00505
IFI30	-1.29976	8.152023	-6.62625	6.87E-09	5.16E-08	9.997429
PRNT	0.737924	6.822339	6.625779	6.89E-09	5.16E-08	9.995552
RPRC1	-1.81992	8.69245	-6.62553	6.89E-09	5.17E-08	9.994539
RAP1GAP	-1.65207	8.449533	-6.62341	6.95E-09	5.21E-08	9.986052
QARS	-1.48162	8.948904	-6.62297	6.97E-09	5.22E-08	9.984272
MORF4L2	-1.37369	9.028203	-6.62251	6.98E-09	5.22E-08	9.982444
RHPN2	-1.08058	7.563632	-6.6222	6.99E-09	5.23E-08	9.981174

DEFB109	0.775246	6.768189	6.62166	7.00E-09	5.24E-08	9.979022
KRTAP10-	1.505612	7.415521	6.620768	7.03E-09	5.26E-08	9.975446
GAGE10	1.047436	7.077755	6.616096	7.17E-09	5.35E-08	9.956699
TMEM40	1.141058	6.893437	6.615748	7.18E-09	5.36E-08	9.955302
FBR5	-0.87433	8.245168	-6.61567	7.18E-09	5.36E-08	9.954995
CSAG3B	1.14129	7.370079	6.615429	7.19E-09	5.36E-08	9.954022
ARTN	0.74796	6.946802	6.614645	7.21E-09	5.38E-08	9.950879
SCUBE3	0.732651	6.85265	6.614151	7.22E-09	5.39E-08	9.948898
AKAP6	0.817006	6.943113	6.612206	7.28E-09	5.43E-08	9.941094
PHLDB1	-0.76111	7.522645	-6.61205	7.29E-09	5.43E-08	9.940457
KRTAP5-7	1.020981	7.217458	6.611925	7.29E-09	5.43E-08	9.93997
SERINC4	1.167636	7.322278	6.610014	7.35E-09	5.47E-08	9.932302
UBTFL2	1.493138	7.34253	6.609891	7.35E-09	5.47E-08	9.93181
GPT	-1.52397	8.376437	-6.60893	7.38E-09	5.49E-08	9.927939
KRTAP17-	1.435918	7.283401	6.60824	7.40E-09	5.50E-08	9.925186
LOC38843	1.367996	7.307404	6.60648	7.45E-09	5.54E-08	9.91813
SCD5	1.395364	7.975466	6.606362	7.46E-09	5.54E-08	9.917654
ISG20	-1.52405	8.349706	-6.60593	7.47E-09	5.55E-08	9.915942
SNORD54	-0.94577	7.331977	-6.60459	7.51E-09	5.57E-08	9.910541
KAT2A	-1.13868	7.955564	-6.60402	7.53E-09	5.58E-08	9.908256
UBE2T	1.692596	8.356129	6.600345	7.64E-09	5.66E-08	9.893526
ARL6IP5	-1.29996	7.813409	-6.59843	7.70E-09	5.70E-08	9.88584
GMFG	-0.73555	7.241621	-6.59669	7.76E-09	5.74E-08	9.87889
TOMM22	-1.29134	9.043534	-6.59629	7.77E-09	5.75E-08	9.877269
ANKRD9	-1.14223	8.924888	-6.59503	7.81E-09	5.78E-08	9.87223
MAPK3	-1.34504	8.97303	-6.59366	7.86E-09	5.81E-08	9.866732
GLYCTK	-1.06032	7.843974	-6.59256	7.89E-09	5.83E-08	9.862324
BTF3	-1.38588	8.674519	-6.59166	7.92E-09	5.85E-08	9.858703
YWHAB	-0.83292	7.753891	-6.59148	7.93E-09	5.85E-08	9.857998
HEXB	-1.86153	8.750247	-6.59086	7.95E-09	5.86E-08	9.855492
SOX3	1.238301	7.010537	6.588196	8.03E-09	5.93E-08	9.844822
C11orf76	0.73172	6.758038	6.586739	8.08E-09	5.96E-08	9.838981
RPL36AL	-1.17596	8.005282	-6.58517	8.13E-09	5.99E-08	9.83269
MRPS22	-0.89783	7.434628	-6.58364	8.18E-09	6.02E-08	9.82657
ADH1B	-1.73936	8.099201	-6.58185	8.25E-09	6.07E-08	9.819394
ITPKB	1.001187	7.945824	6.580936	8.28E-09	6.09E-08	9.815724
C16orf42	-1.02866	7.997531	-6.58082	8.28E-09	6.09E-08	9.815243
MTSS1	-1.00601	7.758144	-6.5807	8.28E-09	6.09E-08	9.814792
ABCF1	-0.98188	8.360314	-6.57706	8.41E-09	6.17E-08	9.8002
C5orf60	1.023949	7.047195	6.57463	8.49E-09	6.23E-08	9.790458
FLJ41821	1.312905	7.177115	6.574456	8.50E-09	6.23E-08	9.78976
NCRNA00	1.015138	7.169637	6.570868	8.62E-09	6.31E-08	9.775383
SLC25A13	-1.06239	7.628581	-6.57066	8.63E-09	6.31E-08	9.77454
ATP6V0E1	-0.91841	9.505572	-6.56951	8.67E-09	6.34E-08	9.769959
PUF60	-1.50811	10.6792	-6.56944	8.67E-09	6.34E-08	9.769664
DACT1	0.921413	7.536135	6.569208	8.68E-09	6.35E-08	9.768733
MYOM3	1.319544	7.347379	6.566276	8.79E-09	6.41E-08	9.756989
NSMCE1	-0.85277	7.336926	-6.56578	8.81E-09	6.42E-08	9.755009
GAL3ST3	1.791216	7.566576	6.564621	8.85E-09	6.45E-08	9.750362
SCNM1	-0.74032	7.118257	-6.56443	8.85E-09	6.45E-08	9.749579
DNLZ	-0.98258	7.533795	-6.56386	8.88E-09	6.47E-08	9.747294
HIST1H2A	1.867871	8.079389	6.56287	8.91E-09	6.49E-08	9.743348
FAM3A	-1.23413	9.363741	-6.56115	8.97E-09	6.53E-08	9.736442
GRHL2	1.679184	7.49593	6.560119	9.01E-09	6.56E-08	9.73233
GHRL	1.381582	7.738103	6.559616	9.03E-09	6.57E-08	9.730315
TACO1	-1.11371	7.658651	-6.5591	9.05E-09	6.58E-08	9.728238
F13B	-0.89152	7.189522	-6.55793	9.09E-09	6.61E-08	9.723583
IRF9	-0.88728	7.767564	-6.55542	9.19E-09	6.67E-08	9.71351

OSBPL5	1.280907	8.033738	6.55485	9.21E-09	6.68E-08	9.711232
STX5	-1.10341	7.90869	-6.55358	9.26E-09	6.71E-08	9.706147
PHRF1	-1.4014	9.334995	-6.55329	9.27E-09	6.71E-08	9.704986
OBFC1	1.308619	8.095633	6.55305	9.28E-09	6.71E-08	9.704026
CLDN6	2.257371	8.201436	6.552909	9.28E-09	6.71E-08	9.70346
HULC	-1.65771	9.626097	-6.55286	9.28E-09	6.71E-08	9.703254
RNU4-1	-2.72387	11.8172	-6.55189	9.32E-09	6.74E-08	9.699373
RAB21	-0.75995	7.692668	-6.55134	9.34E-09	6.75E-08	9.697197
NDUFS5	-1.10439	7.836785	-6.55113	9.35E-09	6.75E-08	9.696337
IGFN1	1.11086	7.131092	6.550967	9.36E-09	6.76E-08	9.695686
FAM177A	1.216118	9.968405	6.550562	9.37E-09	6.76E-08	9.694063
ZBTB7C	0.71243	7.125845	6.550322	9.38E-09	6.77E-08	9.693102
PRKCQ	1.065292	7.77846	6.548831	9.44E-09	6.81E-08	9.687134
CNTNAP5	0.756699	6.912818	6.548693	9.44E-09	6.81E-08	9.686582
ACSL5	-1.13033	7.906919	-6.54685	9.51E-09	6.85E-08	9.679195
NPHP3	0.938619	7.64806	6.546631	9.52E-09	6.86E-08	9.678326
RC3H2	-0.73386	7.980843	-6.54488	9.59E-09	6.90E-08	9.671328
NDRG1	-1.1062	7.795846	-6.54178	9.71E-09	6.99E-08	9.658917
TM4SF5	-2.05412	10.01518	-6.54154	9.72E-09	6.99E-08	9.657944
LOC39989	1.2057	7.079424	6.540211	9.78E-09	7.03E-08	9.65263
KIR2DS3	1.209804	7.040962	6.539513	9.80E-09	7.05E-08	9.649837
HYAL1	-1.15913	9.608464	-6.5376	9.88E-09	7.10E-08	9.642188
SNORA27	-1.35462	7.892471	-6.53727	9.89E-09	7.11E-08	9.640869
KRT75	1.590211	7.227418	6.537136	9.90E-09	7.11E-08	9.640324
ITGA8	0.844265	7.410711	6.534306	1.00E-08	7.18E-08	9.629001
UBE2L6	-0.87098	8.14518	-6.53405	1.00E-08	7.19E-08	9.627976
ULBP2	1.749051	7.692324	6.533713	1.00E-08	7.20E-08	9.626628
SLC38A3	-0.98874	7.467477	-6.53137	1.01E-08	7.26E-08	9.617259
RPL10A	-1.13838	8.718919	-6.52942	1.02E-08	7.32E-08	9.609455
FBXO38	-0.83354	8.301057	-6.52825	1.03E-08	7.35E-08	9.604782
SERPIND1	-1.50245	9.824411	-6.52424	1.04E-08	7.47E-08	9.588722
C3orf58	-0.82828	7.400527	-6.52385	1.05E-08	7.47E-08	9.587174
REXO4	-0.83164	7.755149	-6.52317	1.05E-08	7.49E-08	9.584442
OCIAD2	-0.78413	7.440684	-6.52259	1.05E-08	7.50E-08	9.582137
C7orf30	-1.72792	8.068758	-6.52091	1.06E-08	7.55E-08	9.575393
CCDC53	-1.34019	7.971444	-6.52075	1.06E-08	7.55E-08	9.574758
MYCL1	0.707261	7.260017	6.519117	1.07E-08	7.59E-08	9.56824
TUBA8	1.098683	7.312833	6.518972	1.07E-08	7.60E-08	9.567657
GK5	-1.77319	8.42351	-6.51857	1.07E-08	7.61E-08	9.566032
LOC15112	1.758075	7.75746	6.51622	1.08E-08	7.67E-08	9.556653
OR6N1	1.47803	7.178121	6.516023	1.08E-08	7.68E-08	9.555866
C16orf48	-1.75498	9.013213	-6.51428	1.09E-08	7.72E-08	9.548904
CALM3	-1.58074	9.052682	-6.51354	1.09E-08	7.74E-08	9.545919
DNAJC15	-0.98941	7.526083	-6.51301	1.09E-08	7.75E-08	9.543804
SAR1B	0.809047	8.874662	6.512486	1.09E-08	7.77E-08	9.541719
DNAI1	0.929178	7.186001	6.511991	1.10E-08	7.78E-08	9.539741
C1QB	-1.05195	8.243651	-6.5118	1.10E-08	7.78E-08	9.538997
FCRL1	0.866824	7.171476	6.509663	1.11E-08	7.84E-08	9.530435
SUSD2	-1.57403	8.233718	-6.50869	1.11E-08	7.87E-08	9.526553
PGA3	0.723535	6.805487	6.508673	1.11E-08	7.87E-08	9.526474
SNORD10	-1.72356	9.664906	-6.50667	1.12E-08	7.93E-08	9.518462
C12orf53	2.072212	7.856492	6.5058	1.13E-08	7.95E-08	9.514991
FUT5	0.94218	7.010952	6.505083	1.13E-08	7.97E-08	9.512125
ST7	0.73351	8.653567	6.505035	1.13E-08	7.97E-08	9.511931
TAF10	-1.35437	8.06203	-6.50424	1.13E-08	7.99E-08	9.508771
CCDC149	0.967186	7.232477	6.503705	1.13E-08	8.01E-08	9.506615
IMP3	-0.72153	7.688077	-6.50361	1.14E-08	8.01E-08	9.506254
IRAK1	-1.14312	8.104455	-6.50344	1.14E-08	8.01E-08	9.505545

HLA-DRB1	-1.1903	7.593848	-6.50242	1.14E-08	8.04E-08	9.501486
PLEKHG6	0.842151	7.309103	6.501993	1.14E-08	8.05E-08	9.499771
ZCCHC5	0.914453	6.957662	6.500757	1.15E-08	8.09E-08	9.494832
ASB16	1.08693	7.324529	6.500379	1.15E-08	8.10E-08	9.493319
GNPAT	-1.35131	9.169864	-6.49976	1.15E-08	8.11E-08	9.490828
FOXI3	0.84757	7.085567	6.499746	1.15E-08	8.11E-08	9.490792
NRIP3	0.833649	6.856208	6.497027	1.17E-08	8.19E-08	9.479925
RPS20	-0.90517	7.500376	-6.49702	1.17E-08	8.19E-08	9.479882
GJB3	1.082934	7.0935	6.496354	1.17E-08	8.21E-08	9.477232
ZFAND5	-1.86516	9.752177	-6.49508	1.18E-08	8.25E-08	9.47216
TMEFF2	1.648557	7.390965	6.494258	1.18E-08	8.28E-08	9.468856
ACAA1	-1.70384	8.439367	-6.49356	1.18E-08	8.30E-08	9.466081
ITPR2	-0.96444	7.867525	-6.49316	1.18E-08	8.31E-08	9.464474
CXCL2	-1.18611	7.719904	-6.48994	1.20E-08	8.41E-08	9.451593
HNRNPK	-1.47689	8.980214	-6.48821	1.21E-08	8.47E-08	9.444703
LRRIQ1	0.779544	6.790871	6.485372	1.22E-08	8.55E-08	9.433354
FLAD1	-0.7083	8.274407	-6.48516	1.22E-08	8.56E-08	9.432494
APC2	2.484672	8.700353	6.484764	1.23E-08	8.57E-08	9.430925
POLR2J3	-0.84305	7.5123	-6.48065	1.25E-08	8.71E-08	9.414492
LCN2	-1.76646	7.930683	-6.48005	1.25E-08	8.73E-08	9.412108
C1orf69	0.94068	7.369019	6.478695	1.26E-08	8.77E-08	9.406685
LYZ	-2.00313	8.70906	-6.47865	1.26E-08	8.77E-08	9.406487
TMCO2	0.720725	6.836689	6.477067	1.27E-08	8.83E-08	9.400184
ZFP91	-0.82085	7.336055	-6.47706	1.27E-08	8.83E-08	9.400139
DEK	-0.82042	7.725471	-6.47625	1.27E-08	8.85E-08	9.396926
PTPN13	0.755667	7.073643	6.476168	1.27E-08	8.85E-08	9.396593
GDAP1L1	1.667115	7.800517	6.473329	1.28E-08	8.94E-08	9.385252
SULT2B1	1.016854	7.171419	6.473301	1.28E-08	8.94E-08	9.385143
CRISPLD1	0.848073	6.871913	6.472351	1.29E-08	8.97E-08	9.38135
IFI35	-1.25435	8.500507	-6.47136	1.30E-08	9.00E-08	9.377402
SEPHS2	-1.23797	7.900346	-6.4704	1.30E-08	9.03E-08	9.373563
EIF3B	-1.07303	8.865924	-6.4695	1.30E-08	9.06E-08	9.369959
RBM35A	1.236781	7.274265	6.469422	1.31E-08	9.06E-08	9.369655
MTPAP	0.873107	7.293804	6.468382	1.31E-08	9.09E-08	9.3655
SGOL1	0.805207	7.507402	6.467865	1.31E-08	9.11E-08	9.363438
SNORD93	-1.69539	8.892894	-6.46606	1.32E-08	9.17E-08	9.356239
RNU6ATA	-1.19536	8.608293	-6.46438	1.33E-08	9.23E-08	9.34953
VAMP8	-0.87005	7.639945	-6.46354	1.34E-08	9.26E-08	9.346163
CER1	0.8954	6.961396	6.462831	1.34E-08	9.28E-08	9.343342
TRAF3IP3	1.695763	7.916454	6.462011	1.35E-08	9.30E-08	9.340069
SNORA71	-1.0616	7.555358	-6.45998	1.36E-08	9.37E-08	9.331964
GBA	-1.25397	7.771871	-6.45851	1.36E-08	9.43E-08	9.32609
LY6D	1.138946	7.001941	6.457903	1.37E-08	9.45E-08	9.323672
CBS	-2.26696	10.647	-6.45724	1.37E-08	9.47E-08	9.321029
DHRS3	-0.7842	7.543163	-6.45669	1.37E-08	9.48E-08	9.318813
SPRYD5	1.477841	7.342252	6.454213	1.39E-08	9.57E-08	9.308946
TCTE3	1.326898	7.236092	6.453612	1.39E-08	9.59E-08	9.306546
APEX2	-0.71562	7.840765	-6.4529	1.40E-08	9.62E-08	9.303715
APLP2	-0.93438	9.709845	-6.4506	1.41E-08	9.70E-08	9.294523
SLC25A1	-0.95987	8.376257	-6.44989	1.41E-08	9.72E-08	9.291682
PLG	-1.98714	9.441698	-6.44977	1.41E-08	9.72E-08	9.291197
TMEM38B	-0.81158	7.651468	-6.44908	1.42E-08	9.74E-08	9.28845
CART1	1.021206	7.015444	6.448901	1.42E-08	9.75E-08	9.287748
GSTK1	-1.19624	8.533116	-6.44882	1.42E-08	9.75E-08	9.287406
RPA2	-0.75698	7.516019	-6.44805	1.42E-08	9.77E-08	9.284373
SCOC	-0.71542	7.193443	-6.44555	1.44E-08	9.86E-08	9.274363
ETS1	-0.79436	7.396507	-6.44504	1.44E-08	9.88E-08	9.272344
RNU5A	-2.40695	10.59162	-6.44493	1.44E-08	9.88E-08	9.27189

C8G	-1.20658	8.800169	-6.44358	1.45E-08	9.93E-08	9.266511
TDO2	-1.13254	7.566997	-6.44346	1.45E-08	9.93E-08	9.266049
HIST1H2A	-1.00331	8.04852	-6.4423	1.46E-08	9.97E-08	9.261424
RPL27	-1.11171	11.8044	-6.4422	1.46E-08	9.97E-08	9.261025
FRG1	-1.23526	8.257541	-6.44158	1.46E-08	9.99E-08	9.258531
GARNL4	0.770634	7.23166	6.441161	1.46E-08	1.00E-07	9.256871
ALKBH5	-1.31045	10.08834	-6.43975	1.47E-08	1.01E-07	9.251228
BRF2	0.963197	7.533533	6.437832	1.48E-08	1.01E-07	9.243594
CDC40	-0.83303	7.623058	-6.43686	1.49E-08	1.02E-07	9.239719
OR4D11	0.943766	6.922162	6.435486	1.50E-08	1.02E-07	9.234238
TMEM14A	-0.80504	7.201132	-6.43364	1.51E-08	1.03E-07	9.226875
SNORD91	-1.93082	9.314183	-6.43256	1.52E-08	1.03E-07	9.222575
CSN2	1.133615	7.016459	6.431485	1.52E-08	1.04E-07	9.218282
TTYH2	0.709404	7.359969	6.430351	1.53E-08	1.04E-07	9.213762
ANGPTL3	-1.81716	8.867752	-6.42807	1.55E-08	1.05E-07	9.204669
C19orf6	-1.11717	8.605296	-6.427	1.55E-08	1.05E-07	9.200413
SNORD31	-1.89206	9.256717	-6.42391	1.57E-08	1.07E-07	9.188068
MICALCL	0.955883	7.566532	6.423338	1.58E-08	1.07E-07	9.185802
ZHX1	-1.10795	8.364527	-6.42133	1.59E-08	1.08E-07	9.177808
SAFB2	-0.77916	8.14112	-6.4209	1.59E-08	1.08E-07	9.17609
SPINK5	1.489766	7.907181	6.420824	1.59E-08	1.08E-07	9.17578
SCARNA1	-0.77807	7.444538	-6.41965	1.60E-08	1.08E-07	9.171096
FGF17	1.217917	7.546145	6.419467	1.60E-08	1.08E-07	9.170373
HIF1A	-0.7797	7.578848	-6.41938	1.60E-08	1.08E-07	9.170013
ELOVL5	-0.76969	7.28832	-6.41779	1.61E-08	1.09E-07	9.163702
LOC72827	1.45866	7.221257	6.417222	1.61E-08	1.09E-07	9.161424
MRFAP1	-1.53248	8.970815	-6.41319	1.64E-08	1.11E-07	9.14537
DUSP21	1.125296	6.989368	6.412351	1.65E-08	1.11E-07	9.142015
GGCX	-0.87472	7.518467	-6.41231	1.65E-08	1.11E-07	9.141847
SNTB1	-1.00405	7.576189	-6.41074	1.66E-08	1.12E-07	9.135581
ERVWE1	0.879323	6.968888	6.410177	1.66E-08	1.12E-07	9.133351
CAB39	-0.891	8.081322	-6.41009	1.66E-08	1.12E-07	9.132992
JMJD1C	-0.75148	7.555673	-6.40919	1.67E-08	1.12E-07	9.129436
RGS7	0.768387	6.884193	6.408001	1.68E-08	1.13E-07	9.124681
HOTAIR	1.287055	7.15481	6.405367	1.69E-08	1.14E-07	9.11419
PUM1	-0.85064	9.110007	-6.40501	1.70E-08	1.14E-07	9.112775
DTX2	-1.19775	7.968915	-6.40434	1.70E-08	1.14E-07	9.110088
OTOL1	2.226656	7.670241	6.403692	1.71E-08	1.15E-07	9.107518
KRTAP4-4	0.851982	6.830429	6.403342	1.71E-08	1.15E-07	9.106124
EIF4A2	-1.66027	8.347635	-6.40261	1.71E-08	1.15E-07	9.103187
NCBP1	-0.90923	8.342829	-6.40193	1.72E-08	1.15E-07	9.100493
YIPF7	1.107948	6.953255	6.40098	1.73E-08	1.16E-07	9.096713
LOC38785	0.953289	6.954821	6.400641	1.73E-08	1.16E-07	9.095363
NFKBIA	-1.2628	10.15267	-6.39984	1.73E-08	1.16E-07	9.092156
SQSTM1	-1.61041	10.26242	-6.39958	1.74E-08	1.16E-07	9.091139
IQCE	0.995471	8.005102	6.398546	1.74E-08	1.17E-07	9.087018
PDIA6	-1.06721	8.099685	-6.39789	1.75E-08	1.17E-07	9.08439
PRM2	0.978973	6.91959	6.397817	1.75E-08	1.17E-07	9.084117
NTF4	0.771862	6.959206	6.396291	1.76E-08	1.17E-07	9.078039
FBN2	0.765838	7.007359	6.394838	1.77E-08	1.18E-07	9.072253
LOC64219	-0.79586	7.62205	-6.39474	1.77E-08	1.18E-07	9.071862
LOC64620	-1.16703	9.223709	-6.3945	1.77E-08	1.18E-07	9.070896
RAD23A	-0.89534	7.620388	-6.39362	1.78E-08	1.18E-07	9.067384
C8orf33	1.271636	8.412353	6.3936	1.78E-08	1.18E-07	9.067322
CAPN11	1.766946	8.784179	6.392209	1.79E-08	1.19E-07	9.061786
SEZ6L	2.256114	8.366403	6.391164	1.80E-08	1.19E-07	9.057626
MPP2	0.984735	7.231831	6.388731	1.81E-08	1.20E-07	9.047936
FAM65C	2.0236	8.956759	6.388673	1.81E-08	1.20E-07	9.047708

HMGCS1	-1.56308	8.10138	-6.38862	1.81E-08	1.20E-07	9.047479
LPCAT3	-0.7981	8.23953	-6.38837	1.82E-08	1.21E-07	9.046515
MYL6	-1.51694	10.66809	-6.38758	1.82E-08	1.21E-07	9.043357
LOC38869	0.750597	7.166136	6.387562	1.82E-08	1.21E-07	9.043283
APCDD1L	1.001615	7.438671	6.387477	1.82E-08	1.21E-07	9.042943
LOC39239	1.194004	7.207203	6.384385	1.85E-08	1.22E-07	9.030635
IL8RB	0.824216	7.267779	6.382786	1.86E-08	1.23E-07	9.024272
GIYD2	-0.97722	7.461812	-6.38272	1.86E-08	1.23E-07	9.024007
LPAR4	0.980548	7.178078	6.382696	1.86E-08	1.23E-07	9.023915
RFX2	1.517593	8.102147	6.378831	1.89E-08	1.25E-07	9.00853
ASB14	0.792021	6.866491	6.378774	1.89E-08	1.25E-07	9.008302
UGT1A1	-1.46729	8.965594	-6.37785	1.90E-08	1.25E-07	9.004644
TST	-1.6215	7.997745	-6.37755	1.90E-08	1.25E-07	9.003415
IL6ST	-0.83977	7.695857	-6.37585	1.91E-08	1.26E-07	8.996686
ACAP2	-0.84935	7.68418	-6.37464	1.92E-08	1.27E-07	8.991866
TNNI3K	0.890202	6.932819	6.374363	1.92E-08	1.27E-07	8.99075
RPS12	-1.29072	9.853593	-6.37319	1.93E-08	1.27E-07	8.986094
SPHKAP	0.78207	6.849026	6.372193	1.94E-08	1.28E-07	8.982117
TJAP1	-1.60194	8.163309	-6.37168	1.94E-08	1.28E-07	8.980082
MAP4K3	-0.81537	7.415662	-6.37062	1.95E-08	1.28E-07	8.975861
GPR81	0.864545	7.001274	6.370479	1.95E-08	1.28E-07	8.975295
MCCC1	-0.91583	8.031002	-6.36805	1.97E-08	1.30E-07	8.96562
PDGFRB	-0.98202	7.925964	-6.36796	1.97E-08	1.30E-07	8.96527
LRRN2	0.903008	7.492256	6.36716	1.98E-08	1.30E-07	8.962092
ERO1L	-0.82311	7.250345	-6.36692	1.98E-08	1.30E-07	8.961147
TEKT2	1.400313	7.330927	6.364005	2.01E-08	1.32E-07	8.949542
SDCBP	-1.11203	8.421434	-6.36123	2.03E-08	1.33E-07	8.938511
LSM4	-1.31408	8.68588	-6.36088	2.03E-08	1.33E-07	8.937097
C12orf52	-0.70562	7.269836	-6.36033	2.04E-08	1.33E-07	8.934939
AHSG	-2.01591	9.33653	-6.3603	2.04E-08	1.33E-07	8.934806
P2RX2	0.911139	7.090943	6.359711	2.04E-08	1.33E-07	8.932464
C10orf10	-1.0103	7.744229	-6.35952	2.04E-08	1.33E-07	8.931711
ACTN4	-0.8161	10.4886	-6.35755	2.06E-08	1.34E-07	8.923864
HAP1	1.058772	7.166109	6.357449	2.06E-08	1.34E-07	8.92347
RNASE9	0.765783	6.801422	6.356121	2.07E-08	1.35E-07	8.918187
TAT	-2.01542	9.124842	-6.35579	2.07E-08	1.35E-07	8.916875
PPP2R4	-0.8728	8.652805	-6.35536	2.08E-08	1.35E-07	8.915156
RNU105A	-1.71252	11.50747	-6.35522	2.08E-08	1.35E-07	8.914608
LDHA	-1.29093	8.3948	-6.35462	2.08E-08	1.36E-07	8.912236
MYOZ1	1.641719	8.059242	6.354402	2.09E-08	1.36E-07	8.911353
SNORA71	-1.3884	8.269913	-6.3541	2.09E-08	1.36E-07	8.910145
NFX1	-0.86703	8.170542	-6.35395	2.09E-08	1.36E-07	8.909568
LTBR	-0.90255	7.665098	-6.35291	2.10E-08	1.36E-07	8.905417
TMEM143	0.923395	8.464988	6.352595	2.10E-08	1.36E-07	8.904167
OR6W1P	0.876691	6.928512	6.352469	2.10E-08	1.37E-07	8.903667
PTTG1IP	-0.99156	7.860604	-6.34942	2.13E-08	1.38E-07	8.89156
PGAM5	1.357838	7.944468	6.348271	2.14E-08	1.39E-07	8.886978
PYHIN1	0.980103	7.584966	6.347246	2.15E-08	1.39E-07	8.882904
SNORD62	-1.73607	9.351275	-6.34636	2.15E-08	1.40E-07	8.879391
ENOSF1	-0.77657	7.349139	-6.34599	2.16E-08	1.40E-07	8.877928
CLEC4G	1.822809	8.601013	6.345507	2.16E-08	1.40E-07	8.875991
ATP5C1	-0.79923	8.096991	-6.34517	2.16E-08	1.40E-07	8.874636
SNORA79	-0.80448	7.340055	-6.34505	2.17E-08	1.40E-07	8.874181
C14orf112	-1.08103	8.561849	-6.34367	2.18E-08	1.41E-07	8.868689
ZNF358	-1.10587	7.941759	-6.34345	2.18E-08	1.41E-07	8.867801
DEGS1	-1.30981	8.030323	-6.34088	2.20E-08	1.42E-07	8.857618
NDUFAB1	-1.54512	8.901917	-6.33698	2.24E-08	1.45E-07	8.842122
C19orf30	1.389862	7.305424	6.335935	2.25E-08	1.45E-07	8.83795

CTLA4	0.884106	7.540918	6.335245	2.25E-08	1.45E-07	8.83521
MYOCD	1.862354	8.110486	6.331284	2.29E-08	1.48E-07	8.819474
PTGR1	-1.2357	8.795328	-6.32973	2.31E-08	1.49E-07	8.813287
CCT8	-1.5738	9.13461	-6.32837	2.32E-08	1.49E-07	8.807892
KIR2DL4	0.882065	6.905246	6.32643	2.34E-08	1.50E-07	8.80019
SLC35B1	-0.72424	7.704071	-6.32577	2.34E-08	1.51E-07	8.797551
KRT84	1.077244	7.04678	6.325681	2.34E-08	1.51E-07	8.797218
C14orf119	0.74192	7.072515	6.319951	2.40E-08	1.54E-07	8.774462
VCAM1	-1.17441	7.716131	-6.31899	2.41E-08	1.55E-07	8.770632
MPHOSP1	-0.91875	8.282696	-6.31852	2.41E-08	1.55E-07	8.768771
MIR614	1.069893	6.983648	6.317955	2.42E-08	1.55E-07	8.766533
RGS20	1.216141	7.101462	6.317793	2.42E-08	1.55E-07	8.765893
SEMA4F	1.41313	7.869968	6.317433	2.42E-08	1.55E-07	8.764461
CAMK2A	0.991365	6.972747	6.317387	2.42E-08	1.55E-07	8.764282
CCNL1	-0.75411	8.084844	-6.31737	2.42E-08	1.55E-07	8.764214
SNORA11	-1.63833	8.588824	-6.31733	2.42E-08	1.55E-07	8.764059
NT5C2	-0.96863	7.447264	-6.31695	2.43E-08	1.55E-07	8.762561
TSPAN9	-1.71279	9.677393	-6.31666	2.43E-08	1.55E-07	8.761403
LRRC3B	1.141343	7.273913	6.316625	2.43E-08	1.55E-07	8.761254
TPM1	-1.20734	8.136221	-6.31646	2.43E-08	1.56E-07	8.760587
CCDC87	1.401415	7.57533	6.31502	2.45E-08	1.56E-07	8.75488
ZMAT3	0.703865	7.970027	6.314325	2.45E-08	1.57E-07	8.752125
ITIH1	-1.38684	8.480931	-6.31257	2.47E-08	1.58E-07	8.745168
C20orf114	0.760293	6.876118	6.312082	2.48E-08	1.58E-07	8.74322
NRBP1	-0.8204	7.591474	-6.31171	2.48E-08	1.58E-07	8.741745
CRY1	-0.7868	7.71539	-6.31167	2.48E-08	1.58E-07	8.74158
ATP9A	-1.41624	9.551486	-6.31135	2.48E-08	1.58E-07	8.740299
OR8D1	1.372531	7.187209	6.310675	2.49E-08	1.59E-07	8.737634
PPP1R14A	-2.04098	10.72971	-6.31033	2.49E-08	1.59E-07	8.736283
PRKACA	-0.77066	7.818141	-6.30971	2.50E-08	1.59E-07	8.73382
SLC9A3R1	-0.70355	7.23049	-6.30782	2.52E-08	1.60E-07	8.726299
PNLIPRP3	0.730072	6.779582	6.307584	2.52E-08	1.60E-07	8.725364
GSDMD	-1.82831	9.959214	-6.30686	2.53E-08	1.61E-07	8.722486
SLC39A1	-1.05201	8.205754	-6.30633	2.53E-08	1.61E-07	8.720385
PLA2G2F	0.77687	6.843896	6.305552	2.54E-08	1.62E-07	8.717299
ZBTB20	-0.9935	8.221148	-6.30546	2.54E-08	1.62E-07	8.71693
SEPP1	-1.95022	8.628281	-6.3038	2.56E-08	1.63E-07	8.710335
SNORA41	-1.76349	9.57332	-6.30339	2.57E-08	1.63E-07	8.708729
ADH1C	-1.67966	8.436691	-6.30329	2.57E-08	1.63E-07	8.708342
PIWIL2	0.892844	7.098772	6.301431	2.59E-08	1.64E-07	8.700947
RNF168	-0.84577	7.882834	-6.30054	2.60E-08	1.64E-07	8.697415
SAA4	-1.12357	7.325101	-6.29954	2.61E-08	1.65E-07	8.693462
CPZ	0.758303	7.023329	6.299008	2.61E-08	1.65E-07	8.691331
C10orf113	1.857093	7.498984	6.295965	2.64E-08	1.67E-07	8.67926
CTSL1	-0.86335	8.120107	-6.29585	2.64E-08	1.67E-07	8.678817
GPRC5A	1.219919	7.577079	6.294129	2.66E-08	1.68E-07	8.671974
OR4K2	1.18102	7.137444	6.293819	2.67E-08	1.68E-07	8.670747
DDX17	-1.139	9.177142	-6.29195	2.69E-08	1.69E-07	8.663324
HNRPUL1	-1.1372	8.443906	-6.29191	2.69E-08	1.69E-07	8.663156
RTN4	-0.99027	8.555883	-6.29134	2.69E-08	1.70E-07	8.660918
GPR63	1.622706	7.445654	6.291242	2.69E-08	1.70E-07	8.660526
LYG2	0.748942	6.912054	6.289787	2.71E-08	1.71E-07	8.654755
OR4D2	0.84671	6.960899	6.288118	2.73E-08	1.72E-07	8.648135
OR13J1	2.237483	7.87086	6.287985	2.73E-08	1.72E-07	8.647606
FCRLA	0.856293	7.14695	6.287297	2.74E-08	1.72E-07	8.644878
HNRPH1	-0.84554	8.499495	-6.28694	2.74E-08	1.72E-07	8.643456
BRS3	1.476898	7.265466	6.286675	2.75E-08	1.73E-07	8.64241
LIPA	-0.72739	7.365726	-6.28655	2.75E-08	1.73E-07	8.641912

TBR1	1.177896	7.146765	6.2854	2.76E-08	1.73E-07	8.637353
CYP4F11	-0.94019	9.10156	-6.28412	2.77E-08	1.74E-07	8.632262
ACAD11	-1.11958	7.823218	-6.2838	2.78E-08	1.74E-07	8.631016
GNAI2	-1.08645	8.169967	-6.28265	2.79E-08	1.75E-07	8.626444
FLJ22536	1.220121	7.511027	6.281729	2.80E-08	1.76E-07	8.622799
ZNF391	1.065014	7.023712	6.281499	2.80E-08	1.76E-07	8.621886
ZSCAN2	0.788919	8.027956	6.281054	2.81E-08	1.76E-07	8.620121
MTCH1	-1.23948	8.08775	-6.28072	2.81E-08	1.76E-07	8.618803
WT1	0.726339	7.043792	6.278466	2.84E-08	1.78E-07	8.609861
IDH3G	-0.83096	7.438273	-6.27778	2.85E-08	1.78E-07	8.607143
SCAMP2	-0.70602	7.464037	-6.27765	2.85E-08	1.78E-07	8.606642
OXR1	-0.9371	7.233697	-6.27758	2.85E-08	1.78E-07	8.606353
IAH1	-0.83978	7.237011	-6.27563	2.87E-08	1.79E-07	8.598615
DOC2A	1.125578	7.307446	6.275508	2.87E-08	1.79E-07	8.598138
GPR142	1.455391	7.400216	6.274471	2.88E-08	1.80E-07	8.594025
MSL3L1	-0.87615	7.38332	-6.27332	2.90E-08	1.81E-07	8.589473
VTRNA1-1	-1.94125	8.680941	-6.27272	2.91E-08	1.81E-07	8.587079
CHCHD10	-1.20493	7.950156	-6.26933	2.95E-08	1.83E-07	8.573642
LOC40128	1.518699	7.781224	6.268775	2.95E-08	1.84E-07	8.571451
SLC25A38	1.054267	8.947913	6.266477	2.98E-08	1.85E-07	8.562346
SPATA3	1.180464	7.255106	6.265294	2.99E-08	1.86E-07	8.557656
XAB2	-0.87641	9.242327	-6.26406	3.01E-08	1.87E-07	8.552782
TMEM97	-1.40702	8.091103	-6.26236	3.03E-08	1.88E-07	8.546037
PARP10	-1.41928	10.07249	-6.26227	3.03E-08	1.88E-07	8.545691
PEBP1	-1.01979	8.014014	-6.25902	3.07E-08	1.90E-07	8.532782
TMEM56	-1.23358	8.319906	-6.25796	3.08E-08	1.91E-07	8.528621
RHOA	-1.00126	7.727048	-6.2574	3.09E-08	1.91E-07	8.526366
MIR181B1	0.771445	6.926658	6.256232	3.11E-08	1.92E-07	8.521759
RP9	-1.37023	7.972709	-6.25622	3.11E-08	1.92E-07	8.521704
COL1A1	-1.6971	8.592835	-6.25573	3.11E-08	1.92E-07	8.51975
KRT73	0.718867	6.924123	6.254215	3.13E-08	1.93E-07	8.51377
ANKRD20	-0.82679	7.164088	-6.25417	3.13E-08	1.93E-07	8.513593
ASGR1	-1.24043	7.922044	-6.25356	3.14E-08	1.94E-07	8.511159
C5orf34	1.349342	7.580436	6.253307	3.14E-08	1.94E-07	8.510174
MIR554	1.147704	7.521684	6.252927	3.15E-08	1.94E-07	8.508667
CNDP2	-1.16301	8.023574	-6.25237	3.15E-08	1.94E-07	8.506456
ERGIC1	0.935371	8.254711	6.250356	3.18E-08	1.96E-07	8.498488
FLJ38723	0.857482	6.900461	6.250232	3.18E-08	1.96E-07	8.497997
ZNF622	-0.74777	7.195672	-6.24812	3.21E-08	1.98E-07	8.489624
PPM1G	-1.39938	9.430124	-6.24803	3.21E-08	1.98E-07	8.489273
C18orf34	0.752548	6.877416	6.246858	3.23E-08	1.98E-07	8.484635
LAMA5	-1.17506	8.678634	-6.2466	3.23E-08	1.99E-07	8.483602
SNORA2A	-0.90283	7.441385	-6.24643	3.23E-08	1.99E-07	8.482923
EIF2A	-1.27498	9.510253	-6.24516	3.25E-08	2.00E-07	8.477913
MIR152	0.936788	6.855428	6.241861	3.29E-08	2.02E-07	8.464852
HARS2	-0.97852	7.953936	-6.24157	3.30E-08	2.02E-07	8.463682
IDS	-1.03843	7.934029	-6.24047	3.31E-08	2.03E-07	8.459338
UBA1	-1.05877	9.405727	-6.24035	3.31E-08	2.03E-07	8.458881
ADAMTS1	1.691286	7.476783	6.2398	3.32E-08	2.04E-07	8.456694
RFTN1	-0.93788	7.841887	-6.23896	3.33E-08	2.04E-07	8.453377
MRPL12	-1.51882	8.152581	-6.23881	3.33E-08	2.04E-07	8.452772
SNORD3A	-2.15243	10.61475	-6.23859	3.34E-08	2.04E-07	8.451921
JUN	-1.55384	9.126501	-6.23853	3.34E-08	2.04E-07	8.451674
PLOD3	-1.15077	9.323012	-6.23849	3.34E-08	2.04E-07	8.451517
HNRNPA2	-0.78313	7.327461	-6.23721	3.35E-08	2.05E-07	8.446436
CCDC74B	1.443942	7.42367	6.237153	3.36E-08	2.05E-07	8.446219
MIR298	0.946117	6.936835	6.236296	3.37E-08	2.06E-07	8.442828
AMAC1	1.407716	7.223532	6.236236	3.37E-08	2.06E-07	8.442589

CLK3	-0.78314	7.760302	-6.23506	3.38E-08	2.07E-07	8.437928
ZFP28	0.911366	6.831828	6.234767	3.39E-08	2.07E-07	8.436774
OR5B12	1.282996	7.136672	6.234624	3.39E-08	2.07E-07	8.43621
C4orf17	0.823438	6.815625	6.234544	3.39E-08	2.07E-07	8.435894
SLC35E4	1.32864	7.375949	6.234467	3.39E-08	2.07E-07	8.435588
DARS2	-1.24704	8.015498	-6.23411	3.40E-08	2.07E-07	8.434188
PEBP4	1.0101	7.219674	6.23293	3.41E-08	2.08E-07	8.429504
RARA	-0.96815	8.840124	-6.23201	3.43E-08	2.09E-07	8.425855
C10orf11C	0.908141	7.055347	6.231493	3.43E-08	2.09E-07	8.423819
ASS1	-1.02773	8.316024	-6.23136	3.43E-08	2.09E-07	8.423303
LOC10019	0.732738	6.882741	6.231301	3.44E-08	2.09E-07	8.423061
UBE2D3	-0.98329	8.736954	-6.23083	3.44E-08	2.09E-07	8.421191
PSMB1	-0.94693	8.050688	-6.22987	3.46E-08	2.10E-07	8.417404
MAPK14	-0.79298	8.034879	-6.22943	3.46E-08	2.10E-07	8.415666
FCER2	0.959482	7.114412	6.229282	3.46E-08	2.10E-07	8.415073
MIR769	1.040006	7.042971	6.227141	3.49E-08	2.12E-07	8.406601
IFNA21	0.739014	6.951074	6.227085	3.49E-08	2.12E-07	8.406379
SNORA47	-2.10833	9.073497	-6.22523	3.52E-08	2.14E-07	8.399054
REM1	1.175768	7.405741	6.224293	3.53E-08	2.14E-07	8.395337
OR2W3	0.70832	7.040798	6.224241	3.54E-08	2.14E-07	8.395131
CST9	1.082251	7.002838	6.223988	3.54E-08	2.14E-07	8.394131
PAX9	0.751597	6.868435	6.223837	3.54E-08	2.15E-07	8.393532
SNORA71	-1.13531	8.177041	-6.22232	3.56E-08	2.16E-07	8.387524
AHNAK	-0.90325	8.330205	-6.22145	3.58E-08	2.16E-07	8.384086
PGLYRP3	0.994275	7.158772	6.220079	3.60E-08	2.18E-07	8.37867
PSMC3	-1.06435	7.658802	-6.21986	3.60E-08	2.18E-07	8.377799
CYB5R3	-1.26587	9.008363	-6.21828	3.62E-08	2.19E-07	8.37156
LOC14474	0.912378	6.8964	6.217914	3.63E-08	2.19E-07	8.370106
MITD1	-0.78109	7.220807	-6.21698	3.64E-08	2.20E-07	8.366414
MDH1	-0.94718	7.758901	-6.21575	3.66E-08	2.21E-07	8.361541
MIR567	0.806358	6.837011	6.21551	3.66E-08	2.21E-07	8.360601
DPM1	-0.78305	7.716642	-6.21535	3.66E-08	2.21E-07	8.359957
KRTAP3-1	1.312357	7.315274	6.215324	3.67E-08	2.21E-07	8.359863
AKT1	-1.07613	10.39473	-6.21516	3.67E-08	2.21E-07	8.359221
NSUN2	-0.71924	7.167281	-6.21424	3.68E-08	2.22E-07	8.355581
CD207	2.177126	8.377557	6.213702	3.69E-08	2.22E-07	8.353451
SLC22A8	1.436145	7.319201	6.213435	3.69E-08	2.22E-07	8.352396
C2orf28	-0.75428	7.783384	-6.21337	3.69E-08	2.22E-07	8.352137
RNY1	-1.2496	11.21531	-6.21281	3.70E-08	2.23E-07	8.349917
FAM195A	-1.07804	8.263096	-6.20915	3.76E-08	2.26E-07	8.335443
FBXO40	0.807302	6.819684	6.208651	3.77E-08	2.26E-07	8.333481
RNF181	-1.08138	7.940362	-6.20826	3.77E-08	2.26E-07	8.331916
ALAS1	-0.789	7.212351	-6.20784	3.78E-08	2.27E-07	8.330266
C9orf80	0.826686	9.052642	6.207409	3.78E-08	2.27E-07	8.328572
MAP4	-0.85243	8.39633	-6.20676	3.79E-08	2.28E-07	8.325992
ABCC3	-0.90258	7.352578	-6.20667	3.80E-08	2.28E-07	8.325666
MIR134	0.860221	7.006152	6.20587	3.81E-08	2.28E-07	8.322489
LHX6	1.07566	7.353532	6.205806	3.81E-08	2.28E-07	8.322234
SLC4A1	1.455432	7.366821	6.205356	3.82E-08	2.29E-07	8.320459
SYT11	1.512977	8.897975	6.205232	3.82E-08	2.29E-07	8.319966
STT3A	-1.33062	8.387807	-6.20355	3.84E-08	2.30E-07	8.313325
PDGFRL	1.590673	8.267322	6.203165	3.85E-08	2.30E-07	8.311798
PELP1	-1.50667	8.099396	-6.20273	3.86E-08	2.31E-07	8.310086
PRPF8	-1.09649	8.235788	-6.20114	3.88E-08	2.32E-07	8.303794
PYGM	1.399246	7.358072	6.201016	3.88E-08	2.32E-07	8.303307
BMP8B	1.017904	7.738815	6.19853	3.92E-08	2.34E-07	8.293481
FLJ45445	1.688371	9.473957	6.198125	3.93E-08	2.35E-07	8.291882
SLC9A4	1.066771	11.70433	6.198081	3.93E-08	2.35E-07	8.291708

C7orf41	-0.71359	7.250902	-6.19779	3.93E-08	2.35E-07	8.290577
NPEPL1	-0.93194	8.058562	-6.19712	3.95E-08	2.35E-07	8.287915
HP	-2.26625	10.16649	-6.19603	3.96E-08	2.36E-07	8.283615
SLC30A4	1.227797	8.609203	6.19593	3.96E-08	2.36E-07	8.283208
HOXB9	0.785781	6.919956	6.195338	3.97E-08	2.37E-07	8.280872
GNL1	-0.81418	9.26851	-6.1947	3.98E-08	2.37E-07	8.278363
OR51G1	0.847347	6.912277	6.193816	4.00E-08	2.38E-07	8.274859
MAOA	-1.91365	8.453769	-6.19363	4.00E-08	2.38E-07	8.27411
SCARNA3	-1.22515	9.665449	-6.1925	4.02E-08	2.39E-07	8.269655
YY1AP1	-1.4637	9.892659	-6.19195	4.03E-08	2.40E-07	8.267467
RAB12	-0.84648	7.32888	-6.19042	4.05E-08	2.41E-07	8.261461
BMP4	1.020742	7.750821	6.189087	4.08E-08	2.42E-07	8.256177
SFRS4	-0.71471	7.649132	-6.18857	4.08E-08	2.43E-07	8.254133
KCNMA1	0.936318	8.06588	6.187103	4.11E-08	2.44E-07	8.24834
TAF13	-1.82645	9.096502	-6.18537	4.14E-08	2.45E-07	8.241484
FAM178B	1.705327	7.934329	6.185049	4.14E-08	2.46E-07	8.24023
SPRED3	0.843066	6.97449	6.185029	4.14E-08	2.46E-07	8.24015
GTF2H5	-0.72446	7.477098	-6.18463	4.15E-08	2.46E-07	8.238567
IL19	0.812779	6.922194	6.184493	4.15E-08	2.46E-07	8.238033
GALT	-0.70276	7.517478	-6.18289	4.18E-08	2.47E-07	8.23172
VPREB1	0.77953	6.778074	6.182101	4.19E-08	2.48E-07	8.228589
GFM1	-0.99033	7.476294	-6.18203	4.19E-08	2.48E-07	8.228296
COX7A2	-1.70893	8.954913	-6.18163	4.20E-08	2.48E-07	8.226734
OR4P4	1.016419	6.908381	6.181242	4.21E-08	2.49E-07	8.225195
PAQR4	-1.28502	7.857345	-6.18083	4.21E-08	2.49E-07	8.223551
CHST3	1.399237	8.119306	6.179689	4.23E-08	2.50E-07	8.219063
HCFC1	-1.04972	7.497531	-6.17916	4.24E-08	2.50E-07	8.216959
CCDC72	-1.37375	9.072852	-6.17597	4.30E-08	2.54E-07	8.204386
LOC44166	0.734416	6.987722	6.175537	4.30E-08	2.54E-07	8.202672
SUMO2	-1.35827	9.165665	-6.17552	4.31E-08	2.54E-07	8.202591
FLJ10661	0.73347	7.219479	6.174479	4.32E-08	2.55E-07	8.198497
SNTG1	1.51365	7.462138	6.173358	4.34E-08	2.56E-07	8.194074
CT47A6	1.133766	7.418096	6.171903	4.37E-08	2.57E-07	8.188329
CHX10	1.094899	7.124978	6.171261	4.38E-08	2.58E-07	8.185795
KIAA1688	-1.36319	8.608187	-6.17064	4.39E-08	2.58E-07	8.183335
ACLY	-1.51908	8.458169	-6.17064	4.39E-08	2.58E-07	8.183331
PCCB	-1.06516	8.979185	-6.16938	4.41E-08	2.60E-07	8.178388
FAM118B	1.121868	8.399963	6.168987	4.42E-08	2.60E-07	8.176822
C5orf20	1.035548	7.511386	6.168774	4.42E-08	2.60E-07	8.17598
DCDC2	-1.21029	7.575283	-6.16716	4.45E-08	2.62E-07	8.169598
UFSP2	-0.94126	7.592205	-6.16627	4.47E-08	2.62E-07	8.166106
PAQR8	0.882488	6.983413	6.166101	4.47E-08	2.62E-07	8.165431
C21orf86	1.148701	7.120311	6.164883	4.49E-08	2.64E-07	8.160627
PCM1	-0.70956	7.222697	-6.16432	4.50E-08	2.64E-07	8.158418
EFNA5	1.491136	7.599833	6.161557	4.55E-08	2.67E-07	8.147506
SYT14L	1.025158	7.027025	6.161224	4.56E-08	2.67E-07	8.146192
CGB5	1.510322	7.354693	6.160954	4.57E-08	2.67E-07	8.145128
C4A	-0.992	7.602063	-6.15971	4.59E-08	2.69E-07	8.14023
SLC5A4	0.810796	6.832217	6.156829	4.64E-08	2.71E-07	8.128854
GLUD1	-0.97946	8.095654	-6.15597	4.66E-08	2.72E-07	8.125481
SNORA14	-1.15672	8.150688	-6.15423	4.69E-08	2.74E-07	8.118593
C20orf12	1.304311	7.645976	6.153964	4.70E-08	2.74E-07	8.117556
KLHL28	1.22973	9.027805	6.153733	4.70E-08	2.75E-07	8.116646
EMILIN3	0.757507	6.79177	6.15173	4.74E-08	2.77E-07	8.108745
TMEM175	-1.49411	7.831848	-6.15151	4.74E-08	2.77E-07	8.107861
MTRF1L	1.123045	7.915619	6.151378	4.75E-08	2.77E-07	8.107357
MRPL13	-0.74483	7.431518	-6.15015	4.77E-08	2.78E-07	8.102521
KRTAP6-2	0.803979	6.869639	6.147666	4.82E-08	2.81E-07	8.092723

ALDH9A1	-1.76167	9.27466	-6.14266	4.92E-08	2.86E-07	8.073002
SLC25A42	-1.24352	8.874924	-6.14224	4.92E-08	2.87E-07	8.071325
GPX2	-1.2028	7.848156	-6.14169	4.94E-08	2.87E-07	8.069178
CCNA1	0.881324	6.778595	6.140702	4.95E-08	2.88E-07	8.065268
UTX	-0.9571	8.404608	-6.13976	4.97E-08	2.89E-07	8.061571
OPN4	0.77799	6.908545	6.13914	4.99E-08	2.90E-07	8.059111
JUNB	-1.26343	8.564636	-6.13818	5.01E-08	2.91E-07	8.055316
RNASE13	0.881105	7.055393	6.137459	5.02E-08	2.91E-07	8.05249
C21orf42	0.851559	7.137548	6.137222	5.02E-08	2.92E-07	8.051555
MYL12A	-1.93702	8.336705	-6.1359	5.05E-08	2.93E-07	8.046363
HMX1	0.769241	6.821757	6.132546	5.12E-08	2.97E-07	8.033129
TTC39C	-1.22408	8.910436	-6.1315	5.14E-08	2.98E-07	8.029025
TTC9B	0.990997	6.91011	6.12959	5.18E-08	3.00E-07	8.021482
C16orf35	-0.90164	7.367915	-6.12955	5.18E-08	3.00E-07	8.021313
C7orf66	0.834512	6.839927	6.129329	5.19E-08	3.00E-07	8.020454
ARMC4	0.775929	6.82202	6.129327	5.19E-08	3.00E-07	8.020447
PC	-0.74769	7.684875	-6.12903	5.19E-08	3.00E-07	8.019259
AOX1	-1.01563	7.379644	-6.12884	5.20E-08	3.00E-07	8.018537
OR10Q1	1.511882	7.302468	6.126007	5.26E-08	3.03E-07	8.00737
ZNF287	0.961112	7.150241	6.125322	5.27E-08	3.04E-07	8.00467
USF2	-0.78813	8.343306	-6.12532	5.27E-08	3.04E-07	8.004658
ATP6V1B1	1.580048	8.172308	6.125212	5.27E-08	3.04E-07	8.004237
KIAA1407	1.219662	7.942815	6.12446	5.29E-08	3.05E-07	8.001277
TLK1	-0.8163	7.277381	-6.12405	5.30E-08	3.05E-07	7.999656
ABHD8	-0.88448	7.410102	-6.12272	5.33E-08	3.07E-07	7.994442
HDGFL1	1.338796	7.233883	6.122446	5.33E-08	3.07E-07	7.993343
SCARA5	0.966356	7.141114	6.122162	5.34E-08	3.07E-07	7.992225
BEND7	0.785618	7.59371	6.121319	5.36E-08	3.08E-07	7.988904
ANXA13	0.882271	7.328517	6.12025	5.38E-08	3.09E-07	7.984695
GSTA5	1.023939	6.842729	6.119516	5.40E-08	3.10E-07	7.981807
SNORD83	-1.40184	8.033325	-6.119	5.41E-08	3.11E-07	7.979779
OR1F2P	1.041942	7.091709	6.118635	5.42E-08	3.11E-07	7.978335
YARS	-1.00475	7.601566	-6.11718	5.45E-08	3.13E-07	7.972598
HIPK2	-0.87354	8.004245	-6.11579	5.48E-08	3.15E-07	7.967147
APBB3	-0.92507	7.935315	-6.11342	5.53E-08	3.17E-07	7.957787
SBK2	1.924236	7.471638	6.11257	5.55E-08	3.18E-07	7.954458
TUBA4A	-0.96116	7.356098	-6.11188	5.57E-08	3.19E-07	7.951751
OR4K13	1.066683	7.232137	6.111579	5.57E-08	3.19E-07	7.950557
RPL24	-1.42462	9.380337	-6.11073	5.59E-08	3.20E-07	7.947217
IMMT	-0.70113	7.477574	-6.10958	5.62E-08	3.22E-07	7.942686
PNLIP	1.249156	7.12459	6.109494	5.62E-08	3.22E-07	7.942352
NPTXR	1.435902	7.746183	6.109019	5.63E-08	3.22E-07	7.940481
OR1L3	0.709807	6.818256	6.108917	5.63E-08	3.22E-07	7.940079
TMEM16D	0.962334	7.006229	6.10718	5.67E-08	3.24E-07	7.933244
PRUNE2	0.843605	6.987953	6.106486	5.69E-08	3.25E-07	7.930513
GNB2L1	-1.18396	10.65251	-6.10642	5.69E-08	3.25E-07	7.930252
DEFB126	0.766184	6.787502	6.105989	5.70E-08	3.26E-07	7.928557
MBD3	-0.79288	7.337081	-6.10561	5.71E-08	3.26E-07	7.927081
NPFFR1	1.642356	7.350088	6.105445	5.71E-08	3.26E-07	7.926417
ARHGEF16	-1.05857	7.569586	-6.10415	5.74E-08	3.28E-07	7.921317
MT1G	-1.66262	9.153082	-6.10379	5.75E-08	3.28E-07	7.919917
PNN	-1.0739	7.714583	-6.10347	5.76E-08	3.28E-07	7.918644
ATP6V0B	-1.25133	9.202876	-6.10253	5.78E-08	3.29E-07	7.914944
KLF15	-1.05062	8.360529	-6.10112	5.81E-08	3.31E-07	7.909415
NTN4	-0.72004	7.555748	-6.10017	5.83E-08	3.32E-07	7.905654
CYP2E1	-1.89297	9.654357	-6.09601	5.93E-08	3.38E-07	7.889296
OR5AK2	0.790038	6.798709	6.095894	5.94E-08	3.38E-07	7.888842
NACAP1	0.801857	6.807678	6.095871	5.94E-08	3.38E-07	7.888748

HS3ST5	0.72192	6.7575	6.095132	5.95E-08	3.38E-07	7.885841
LOC6515C	0.968535	6.869985	6.094779	5.96E-08	3.39E-07	7.884454
KLRG2	1.384809	7.084565	6.093875	5.98E-08	3.40E-07	7.8809
FLJ42953	1.372565	7.30431	6.092058	6.03E-08	3.42E-07	7.873754
SCNN1B	1.235673	7.297799	6.090792	6.06E-08	3.44E-07	7.868775
DPYS	-0.95902	7.610616	-6.08857	6.11E-08	3.47E-07	7.860017
PDZD8	-1.03669	7.864282	-6.08836	6.12E-08	3.47E-07	7.859208
SNORD1A	-1.47724	8.23697	-6.08824	6.12E-08	3.47E-07	7.858738
GPM6B	0.804047	7.018021	6.087711	6.13E-08	3.48E-07	7.856659
APOH	-1.34286	7.940071	-6.0865	6.16E-08	3.49E-07	7.851908
KLK6	0.99022	7.033965	6.084246	6.22E-08	3.52E-07	7.843034
MMP16	0.714435	7.04691	6.083759	6.23E-08	3.53E-07	7.84112
EPAS1	-1.47967	8.883624	-6.08348	6.24E-08	3.53E-07	7.840036
SNORD90	-1.23668	7.774649	-6.08326	6.25E-08	3.53E-07	7.839143
EFNB3	1.135932	7.141549	6.08275	6.26E-08	3.54E-07	7.837155
C20orf77	1.092142	7.122068	6.081108	6.30E-08	3.56E-07	7.8307
PCK2	-1.02013	8.460738	-6.08098	6.30E-08	3.56E-07	7.830188
WNK1	-0.76033	8.140957	-6.08052	6.31E-08	3.57E-07	7.828388
SNORD12	-1.1268	7.55416	-6.07996	6.33E-08	3.57E-07	7.826207
TSHZ2	-0.97598	8.395166	-6.07956	6.34E-08	3.58E-07	7.824617
BTN1A1	1.32159	7.288559	6.078607	6.36E-08	3.59E-07	7.820869
PI4KB	-1.34664	8.308333	-6.07857	6.36E-08	3.59E-07	7.820713
IFI27	-1.70799	8.434287	-6.07728	6.40E-08	3.60E-07	7.815665
ACMSD	-1.20702	8.085112	-6.07728	6.40E-08	3.60E-07	7.815654
C15orf37	0.778951	7.160107	6.076988	6.40E-08	3.61E-07	7.814508
KRTAP10-	0.837402	6.837755	6.076893	6.41E-08	3.61E-07	7.814133
PROX1	-0.83391	7.417428	-6.07642	6.42E-08	3.61E-07	7.812262
PRICKLE1	1.748216	9.25263	6.076403	6.42E-08	3.61E-07	7.812206
CALD1	-0.99938	8.038529	-6.07363	6.49E-08	3.65E-07	7.801322
C18orf21	-0.84382	7.22289	-6.07356	6.49E-08	3.65E-07	7.801022
MCART2	0.722879	6.854664	6.072961	6.51E-08	3.66E-07	7.798682
VPS36	-0.89925	7.935488	-6.07267	6.52E-08	3.66E-07	7.79755
DDX1	-0.93746	7.581712	-6.07263	6.52E-08	3.66E-07	7.797365
CDC42BPf	-0.92335	7.927518	-6.07238	6.52E-08	3.66E-07	7.796404
ACTRT2	1.215887	7.077411	6.072348	6.53E-08	3.66E-07	7.796272
RHOA	-1.47364	7.829144	-6.07058	6.57E-08	3.68E-07	7.78931
SELM	-1.79519	9.196141	-6.07043	6.58E-08	3.68E-07	7.788729
GDF15	-1.21492	7.650306	-6.07027	6.58E-08	3.69E-07	7.788111
OSBPL7	1.11955	7.59631	6.069874	6.59E-08	3.69E-07	7.786555
LZTR1	-1.08409	9.551137	-6.06918	6.61E-08	3.70E-07	7.783826
SMARCA1	-0.72134	7.251131	-6.0682	6.64E-08	3.71E-07	7.779978
NDUFB7	-1.96768	9.297602	-6.06773	6.65E-08	3.72E-07	7.778134
ESYT1	-1.43294	9.253773	-6.0672	6.66E-08	3.72E-07	7.776053
LINGO1	1.407141	7.456515	6.066348	6.69E-08	3.73E-07	7.772702
AP2S1	-1.36225	9.78647	-6.06498	6.72E-08	3.75E-07	7.767315
ENTPD6	-0.93563	7.861818	-6.06407	6.75E-08	3.76E-07	7.763754
RAD21	-0.88468	7.564487	-6.06269	6.78E-08	3.78E-07	7.758343
PTCH2	1.197037	7.454096	6.060917	6.83E-08	3.81E-07	7.751369
APOA2	-2.10236	10.64716	-6.05964	6.87E-08	3.83E-07	7.746347
GABRB2	0.809643	6.924705	6.059258	6.88E-08	3.83E-07	7.744855
RNF150	1.714362	8.133815	6.058987	6.89E-08	3.84E-07	7.743793
ROBLD3	-0.7049	7.321627	-6.05771	6.92E-08	3.86E-07	7.738797
AP3B2	1.288912	7.259637	6.057135	6.94E-08	3.86E-07	7.736519
OR1C1	1.502223	7.441878	6.055128	6.99E-08	3.89E-07	7.728642
CX3CL1	-0.70146	7.22148	-6.05462	7.01E-08	3.90E-07	7.726661
PROM1	1.391645	7.708977	6.05215	7.08E-08	3.94E-07	7.716951
EIF3L	-1.05702	8.574897	-6.04899	7.17E-08	3.98E-07	7.704558
MKI67	1.845176	9.31679	6.04831	7.19E-08	3.99E-07	7.701876

TASP1	0.961462	7.56301	6.048305	7.19E-08	3.99E-07	7.701856
DEFB118	1.753863	7.513233	6.048176	7.19E-08	3.99E-07	7.70135
CETN2	-0.71868	7.307077	-6.0472	7.22E-08	4.01E-07	7.697527
LOC64653	-0.74549	10.30709	-6.04649	7.24E-08	4.02E-07	7.69474
NPHS1	0.851333	6.970161	6.044492	7.30E-08	4.05E-07	7.686892
PSMB11	1.528559	7.396199	6.042515	7.36E-08	4.08E-07	7.679135
FAM55A	0.997265	6.969024	6.041272	7.39E-08	4.10E-07	7.674259
CES2	-1.0796	9.904443	-6.04105	7.40E-08	4.10E-07	7.673387
OR52B2	0.875421	6.907442	6.040131	7.43E-08	4.11E-07	7.669784
RPL31	-1.66062	9.723053	-6.03653	7.54E-08	4.17E-07	7.655652
RTP2	0.840666	6.930461	6.036243	7.55E-08	4.17E-07	7.654532
FRYL	-0.73828	8.319321	-6.0361	7.55E-08	4.17E-07	7.653977
BCAM	-0.88422	7.396055	-6.03518	7.58E-08	4.19E-07	7.650379
RUNDC3A	0.82559	6.951701	6.03419	7.61E-08	4.20E-07	7.646477
OR51B6	0.933878	6.926391	6.034049	7.61E-08	4.20E-07	7.645924
XPNPEP3	0.842769	7.577921	6.03198	7.68E-08	4.23E-07	7.637811
ZNHIT3	1.109215	8.574778	6.031158	7.70E-08	4.24E-07	7.634589
PNMT	1.900493	7.467819	6.028508	7.78E-08	4.29E-07	7.624198
EBNA1BP2	-1.12788	8.000996	-6.02648	7.85E-08	4.32E-07	7.616227
SNORD4A	-0.86401	7.544398	-6.02477	7.90E-08	4.34E-07	7.609529
TSP50	0.728182	7.023352	6.024502	7.91E-08	4.35E-07	7.608491
TSR2	-1.13247	8.511393	-6.02429	7.92E-08	4.35E-07	7.607661
TIMD4	0.795146	6.931348	6.023763	7.93E-08	4.36E-07	7.605592
OR1L8	0.983937	7.115914	6.02354	7.94E-08	4.36E-07	7.604719
LONP2	-0.80164	8.365293	-6.02097	8.02E-08	4.40E-07	7.594628
NKX2-2	1.064968	7.209337	6.019911	8.06E-08	4.42E-07	7.590494
KLF8	0.846117	7.334728	6.01643	8.17E-08	4.48E-07	7.576852
LOC44055	1.394524	7.108676	6.015827	8.19E-08	4.49E-07	7.57449
UGT2A2	0.778244	6.840365	6.015247	8.21E-08	4.50E-07	7.572216
GPAA1	-0.91114	7.978836	-6.01412	8.25E-08	4.51E-07	7.567808
C15orf60	1.665527	7.307571	6.013656	8.26E-08	4.52E-07	7.565982
TMEM139	1.00504	7.807374	6.013331	8.27E-08	4.53E-07	7.564709
SCGB1D2	0.82586	6.882789	6.012371	8.30E-08	4.54E-07	7.560946
SCGB1C1	1.398814	7.267111	6.011901	8.32E-08	4.55E-07	7.559107
SCRG1	1.159379	7.154406	6.009816	8.39E-08	4.58E-07	7.550938
SIK1	-0.77446	7.36159	-6.00954	8.40E-08	4.59E-07	7.549862
MAN2B1	-1.25948	8.03881	-6.00938	8.40E-08	4.59E-07	7.549218
SIRPB1	1.286673	7.598993	6.007463	8.47E-08	4.62E-07	7.541721
ACO1	-1.08267	7.890989	-6.00417	8.58E-08	4.68E-07	7.528836
C9orf116	0.814224	7.243562	6.002559	8.64E-08	4.71E-07	7.522513
EPS15L1	0.989305	7.49291	6.001821	8.66E-08	4.72E-07	7.519623
SNRNP70	-1.22697	9.531289	-6.00124	8.68E-08	4.73E-07	7.517362
FAM19A3	1.010367	7.099177	5.998996	8.76E-08	4.77E-07	7.508561
RCN3	-0.81755	7.668854	-5.9981	8.79E-08	4.78E-07	7.505039
ADCY10	1.137798	7.322673	5.996214	8.86E-08	4.82E-07	7.497671
NAPG	-0.70069	7.495082	-5.99604	8.87E-08	4.82E-07	7.496975
EEF1G	-2.06928	10.21889	-5.99523	8.90E-08	4.83E-07	7.493822
ARHGDI8	-1.53025	9.124657	-5.99498	8.90E-08	4.84E-07	7.492824
TCP11	0.707173	6.908268	5.993837	8.95E-08	4.86E-07	7.488364
MRPL45	-0.77508	7.741194	-5.99297	8.98E-08	4.87E-07	7.48499
STK31	1.341694	7.435283	5.991791	9.02E-08	4.89E-07	7.480358
FLJ32011	2.202278	8.403631	5.991203	9.04E-08	4.90E-07	7.478055
RALA	-0.88221	7.966431	-5.99067	9.06E-08	4.91E-07	7.475988
USP8	-0.7688	7.667585	-5.98896	9.12E-08	4.94E-07	7.469285
PTPLAD2	1.63827	10.80128	5.988118	9.15E-08	4.96E-07	7.46598
SOX30	1.631489	7.634401	5.985004	9.27E-08	5.01E-07	7.453796
SNORA21	-1.49767	8.286871	-5.98453	9.29E-08	5.02E-07	7.451939
FAM22D	1.088315	7.196175	5.984348	9.29E-08	5.02E-07	7.451229

LOC10012	0.851801	7.111555	5.983042	9.34E-08	5.04E-07	7.446119
STIM1	-0.78275	7.911049	-5.98221	9.37E-08	5.06E-07	7.442879
ACP6	-1.2119	7.547159	-5.98154	9.40E-08	5.07E-07	7.44025
SLC27A3	-0.94778	7.583218	-5.98108	9.41E-08	5.08E-07	7.438457
TNFRSF1A	-0.78605	7.163529	-5.98057	9.43E-08	5.09E-07	7.436449
UBA3	-0.9012	7.283001	-5.97773	9.54E-08	5.15E-07	7.425341
SNORA81	-1.12989	7.775805	-5.97373	9.70E-08	5.22E-07	7.409699
HLA-DQA	1.239067	6.99212	5.973082	9.72E-08	5.23E-07	7.407162
EIF4G1	-0.86612	8.372957	-5.97307	9.72E-08	5.23E-07	7.407131
YIPF6	-0.87786	7.581543	-5.97274	9.73E-08	5.24E-07	7.405808
TUFM	-1.13549	9.204899	-5.97218	9.76E-08	5.25E-07	7.403618
BCAP31	-1.12269	9.716059	-5.97062	9.82E-08	5.28E-07	7.397551
TMEM126	-1.00706	7.518207	-5.96937	9.87E-08	5.30E-07	7.392638
LOC10019	-0.84472	7.525978	-5.96911	9.88E-08	5.30E-07	7.39163
KRTAP5-1	0.80651	6.939253	5.968918	9.88E-08	5.30E-07	7.39088
CYP4F22	1.872451	8.715478	5.968702	9.89E-08	5.31E-07	7.390036
SNF8	-0.73105	7.965692	-5.96759	9.94E-08	5.33E-07	7.38569
SGK1	-0.95433	7.709792	-5.96527	1.00E-07	5.37E-07	7.376621
PPP1R3B	-0.75291	7.574793	-5.96469	1.01E-07	5.38E-07	7.374336
SNRPB	-1.09277	10.33228	-5.96133	1.02E-07	5.45E-07	7.361225
YWHAH	-1.57885	8.711599	-5.96015	1.02E-07	5.47E-07	7.356592
HPCAL1	-0.82603	8.474913	-5.95977	1.03E-07	5.48E-07	7.355129
GADD45G	-1.4438	8.194769	-5.95919	1.03E-07	5.49E-07	7.352845
CNPY2	-0.71118	7.274726	-5.95912	1.03E-07	5.49E-07	7.352588
HMGB4	0.710617	6.882398	5.959002	1.03E-07	5.49E-07	7.352124
PMPCB	-0.85883	7.265069	-5.95826	1.03E-07	5.50E-07	7.349225
AKR7A3	-1.32423	8.023406	-5.95588	1.04E-07	5.55E-07	7.339922
LRFN2	1.66196	7.692034	5.955262	1.04E-07	5.56E-07	7.337512
C15orf51	0.714439	7.028179	5.952082	1.06E-07	5.63E-07	7.325088
FAM43A	-0.79921	7.3565	-5.95127	1.06E-07	5.65E-07	7.321931
KIAA0895l	1.104816	8.579385	5.95123	1.06E-07	5.65E-07	7.321762
ZDHHC16	-0.93372	8.3776	-5.94937	1.07E-07	5.69E-07	7.314478
ALDH1L1	-0.92341	7.373532	-5.94669	1.08E-07	5.74E-07	7.304032
ITGB1BP3	0.835189	6.807142	5.945283	1.09E-07	5.77E-07	7.298536
HOXA5	0.831439	7.306677	5.944456	1.09E-07	5.79E-07	7.295303
HNRPM	-0.93229	8.423696	-5.94216	1.10E-07	5.84E-07	7.286334
TAS2R1	0.909477	6.950264	5.941775	1.10E-07	5.84E-07	7.284837
UBR4	-0.71781	9.040387	-5.94176	1.10E-07	5.84E-07	7.284795
NKX2-5	0.976212	6.99728	5.940502	1.11E-07	5.87E-07	7.279868
OR5B21	1.675776	7.522255	5.940247	1.11E-07	5.87E-07	7.278873
FRK	-0.84341	7.749321	-5.94025	1.11E-07	5.87E-07	7.278872
E2F4	-0.76104	7.503476	-5.93994	1.11E-07	5.88E-07	7.277669
NLRP6	1.479315	7.68457	5.939696	1.11E-07	5.88E-07	7.27672
FILIP1	0.723954	7.483495	5.939695	1.11E-07	5.88E-07	7.276718
FMO2	1.322127	8.101304	5.938978	1.11E-07	5.89E-07	7.273916
ZNF653	-0.99285	8.101507	-5.93769	1.12E-07	5.92E-07	7.268908
FLJ23834	1.52087	8.006417	5.93618	1.13E-07	5.96E-07	7.262996
FAM48B2	0.979796	6.992117	5.935913	1.13E-07	5.96E-07	7.261954
CRYBB1	1.148063	7.479844	5.935258	1.13E-07	5.97E-07	7.259398
ERCC2	-1.03991	7.373339	-5.9336	1.14E-07	6.01E-07	7.252932
CRYL1	-0.91364	7.826629	-5.93347	1.14E-07	6.01E-07	7.252407
AES	-0.92817	9.550116	-5.93302	1.14E-07	6.02E-07	7.250645
LOC10019	0.755857	6.828103	5.931966	1.15E-07	6.04E-07	7.246548
PLCD4	1.588698	8.634177	5.930226	1.15E-07	6.08E-07	7.23976
C22orf28	-0.92058	8.264131	-5.92817	1.16E-07	6.13E-07	7.231744
LRRRC16B	1.410456	7.777173	5.927083	1.17E-07	6.15E-07	7.227499
MRPL17	-0.73236	7.178808	-5.92589	1.17E-07	6.18E-07	7.222831
HCP5	-1.09168	7.893936	-5.92418	1.18E-07	6.22E-07	7.216181

IGLL3	0.993993	7.314037	5.923746	1.18E-07	6.22E-07	7.214479
USF1	0.990298	8.10976	5.923122	1.19E-07	6.24E-07	7.212048
THBS1	-0.79076	7.121993	-5.92147	1.20E-07	6.27E-07	7.205623
PSD4	-1.10106	7.590451	-5.91979	1.20E-07	6.31E-07	7.199063
FKBP9L	0.975162	7.875073	5.91919	1.21E-07	6.33E-07	7.19671
CNTD1	0.754862	6.950952	5.918587	1.21E-07	6.34E-07	7.194359
PTCD1	-1.17886	8.151055	-5.9172	1.22E-07	6.37E-07	7.188964
SLC2A5	1.165857	7.607129	5.917095	1.22E-07	6.37E-07	7.188543
C18orf56	-1.25249	7.984333	-5.9167	1.22E-07	6.38E-07	7.187018
CYP4B1	0.982726	6.979573	5.916541	1.22E-07	6.38E-07	7.186383
NCSTN	-1.12521	9.107412	-5.91578	1.22E-07	6.40E-07	7.183402
ZNF142	-0.85646	7.82613	-5.91155	1.24E-07	6.50E-07	7.166941
GOLT1A	-1.78596	8.43709	-5.91148	1.24E-07	6.50E-07	7.166651
SEC23A	-0.87366	7.292295	-5.91126	1.24E-07	6.51E-07	7.16578
LOC55423	-1.78234	10.9123	-5.91095	1.25E-07	6.51E-07	7.164579
RNF144B	1.203683	8.29616	5.910236	1.25E-07	6.53E-07	7.161802
NDUFV2	-0.9944	7.458157	-5.90693	1.27E-07	6.61E-07	7.148924
RPL7L1	1.079251	11.84613	5.906687	1.27E-07	6.62E-07	7.147969
PAOX	-0.81426	7.680288	-5.90521	1.28E-07	6.65E-07	7.142209
AQP10	1.561644	7.790599	5.904633	1.28E-07	6.66E-07	7.139964
ZSWIM1	-0.82025	7.796007	-5.90444	1.28E-07	6.67E-07	7.139224
OR14J1	1.11493	7.069191	5.903273	1.29E-07	6.69E-07	7.134666
NYNRIN	1.77456	8.95906	5.902375	1.29E-07	6.71E-07	7.131167
TMEM9B	-0.84212	7.632963	-5.90153	1.29E-07	6.73E-07	7.127867
CD300LB	1.32253	7.388152	5.898497	1.31E-07	6.81E-07	7.116059
KRTAP5-1	1.646847	7.72269	5.897553	1.32E-07	6.83E-07	7.11238
COL6A1	-0.88305	8.221421	-5.89692	1.32E-07	6.85E-07	7.109914
FAM78A	0.828745	7.639652	5.893183	1.34E-07	6.94E-07	7.095363
CGB	0.940506	7.113627	5.892868	1.34E-07	6.94E-07	7.094135
ALB	-2.18363	10.90246	-5.8927	1.34E-07	6.95E-07	7.093474
CAPZA2	-0.93459	10.34367	-5.89266	1.34E-07	6.95E-07	7.093323
ACTG1	-1.29426	8.991337	-5.89172	1.35E-07	6.97E-07	7.089654
LOC15153	0.953176	7.935971	5.891355	1.35E-07	6.97E-07	7.088244
C9orf167	1.023299	8.223926	5.891195	1.35E-07	6.98E-07	7.08762
FUT3	0.729819	6.997097	5.890864	1.35E-07	6.98E-07	7.08633
KCNJ5	0.700228	7.246728	5.888533	1.36E-07	7.05E-07	7.077254
NEK7	-0.70711	7.532525	-5.88815	1.37E-07	7.05E-07	7.075773
NOS2	0.702736	7.120702	5.888114	1.37E-07	7.05E-07	7.075624
FCER1G	-1.29914	8.844749	-5.8879	1.37E-07	7.06E-07	7.074799
RHBDL2	0.806269	7.360088	5.886702	1.37E-07	7.09E-07	7.070128
GGH	-0.86649	7.450598	-5.88635	1.38E-07	7.10E-07	7.068751
LYRM1	-1.32767	7.994515	-5.88565	1.38E-07	7.11E-07	7.066035
GADD45A	-0.9456	7.689947	-5.88558	1.38E-07	7.11E-07	7.065752
HIST1H1C	-0.75735	7.753427	-5.88479	1.38E-07	7.13E-07	7.062675
CCDC103	0.766262	7.063667	5.884048	1.39E-07	7.15E-07	7.059793
TEX101	0.706331	6.803967	5.882605	1.40E-07	7.19E-07	7.054176
TF	-1.72763	9.571647	-5.88223	1.40E-07	7.20E-07	7.052734
CPNE6	1.036476	7.258452	5.881815	1.40E-07	7.21E-07	7.051103
TREML1	1.631009	7.703089	5.881538	1.40E-07	7.22E-07	7.050025
CLDN3	-0.95022	7.506739	-5.88112	1.40E-07	7.23E-07	7.048387
C7orf55	-0.79603	7.312945	-5.88101	1.40E-07	7.23E-07	7.047968
GSTA1	-1.36082	9.014131	-5.8796	1.41E-07	7.26E-07	7.04247
C11orf55	0.829688	7.156471	5.877469	1.42E-07	7.32E-07	7.034191
ACCN1	1.384408	7.243468	5.875908	1.43E-07	7.36E-07	7.028116
SFRS5	-0.94422	9.724447	-5.87524	1.44E-07	7.38E-07	7.025508
PROS1	-1.37823	8.638711	-5.87379	1.45E-07	7.42E-07	7.019885
PRLHR	1.577875	7.287135	5.872864	1.45E-07	7.44E-07	7.016274
GOT1	-1.38925	8.785082	-5.8725	1.45E-07	7.45E-07	7.014839

DUOXA1	1.030582	7.220325	5.871844	1.46E-07	7.46E-07	7.012308
UGT2B17	-1.03918	7.523163	-5.8666	1.49E-07	7.61E-07	6.991925
ANKFN1	1.116251	7.018496	5.865759	1.49E-07	7.63E-07	6.988639
ZCCHC6	-1.23085	8.633962	-5.86563	1.49E-07	7.63E-07	6.98815
OAF	-1.75381	8.978267	-5.86367	1.51E-07	7.69E-07	6.980521
CDS1	1.56789	8.322185	5.862969	1.51E-07	7.71E-07	6.977792
CALY	1.571805	7.631233	5.861744	1.52E-07	7.74E-07	6.973028
UFC1	-0.72351	7.719324	-5.8616	1.52E-07	7.74E-07	6.972471
PRPF6	-0.76955	8.033505	-5.86035	1.53E-07	7.78E-07	6.967604
SNORA52	-1.09181	9.151219	-5.86011	1.53E-07	7.79E-07	6.96669
OR5B3	1.276846	7.035217	5.859897	1.53E-07	7.79E-07	6.965846
FAM74A3	1.077844	7.166656	5.858383	1.54E-07	7.83E-07	6.959962
KIAA1310	-1.54901	9.219663	-5.8583	1.54E-07	7.83E-07	6.959644
TMED10	-0.82735	7.567588	-5.85504	1.56E-07	7.93E-07	6.946952
CTF1	2.096557	8.85143	5.854394	1.56E-07	7.95E-07	6.94446
OR10P1	0.800431	6.858248	5.854107	1.56E-07	7.95E-07	6.943342
DAZ3	1.439474	7.317094	5.851685	1.58E-07	8.03E-07	6.933931
RIN1	0.998424	7.585131	5.85134	1.58E-07	8.03E-07	6.93259
NANOS2	2.045765	8.07587	5.847914	1.60E-07	8.14E-07	6.919279
OR4X1	0.725832	6.859203	5.84416	1.63E-07	8.26E-07	6.904696
SNORA2B	-1.46554	9.58877	-5.84397	1.63E-07	8.26E-07	6.903977
ABL1	-0.73847	7.586605	-5.84376	1.63E-07	8.26E-07	6.903153
SLC25A22	-1.38305	8.5438	-5.84321	1.63E-07	8.28E-07	6.901022
COX15	0.8078	8.30604	5.841625	1.64E-07	8.33E-07	6.894852
GCK	1.353616	7.52978	5.841246	1.65E-07	8.34E-07	6.893378
EXOC2	1.009728	8.095038	5.839409	1.66E-07	8.40E-07	6.886244
CCL24	1.671765	7.711608	5.838329	1.67E-07	8.43E-07	6.882054
ZDBF2	0.935771	7.323741	5.837446	1.67E-07	8.46E-07	6.878624
LEMD1	0.835956	6.887604	5.837323	1.67E-07	8.46E-07	6.878145
HCN2	2.031092	8.548501	5.83715	1.67E-07	8.46E-07	6.877475
IL18BP	-1.15916	8.155157	-5.83704	1.67E-07	8.47E-07	6.877052
C1orf198	-0.94866	8.284514	-5.83525	1.69E-07	8.52E-07	6.870105
WNT1	1.088343	7.067151	5.834567	1.69E-07	8.54E-07	6.867445
SCO2	-0.75513	7.816661	-5.83337	1.70E-07	8.58E-07	6.86281
C17orf45	-1.23736	8.732341	-5.83255	1.70E-07	8.60E-07	6.859607
CSF1R	-1.31782	8.120782	-5.83253	1.70E-07	8.60E-07	6.85954
COL4A1	-1.54762	8.349076	-5.8306	1.72E-07	8.66E-07	6.852058
ACPT	1.727663	7.995723	5.830085	1.72E-07	8.67E-07	6.850049
POLR3B	-1.10025	8.169418	-5.82916	1.73E-07	8.70E-07	6.846456
UBE3A	-0.81528	7.704231	-5.82851	1.73E-07	8.72E-07	6.843954
FAM184B	0.996914	7.169458	5.826744	1.74E-07	8.77E-07	6.837082
C3orf27	1.035074	7.057553	5.825322	1.75E-07	8.82E-07	6.831564
SLC6A5	1.425719	7.375181	5.823999	1.76E-07	8.86E-07	6.826433
PFKFB1	-1.02076	8.01988	-5.82345	1.77E-07	8.88E-07	6.824287
FSCN3	1.132927	7.130755	5.82241	1.77E-07	8.91E-07	6.820268
SCRT1	1.318529	7.146434	5.821469	1.78E-07	8.94E-07	6.816615
C19orf44	-1.11135	8.786244	-5.82073	1.79E-07	8.97E-07	6.813748
DCAF6	-1.44214	9.007008	-5.81931	1.80E-07	9.01E-07	6.808243
MRPS15	-1.00089	8.341349	-5.81811	1.80E-07	9.05E-07	6.803568
RNASE7	1.617452	7.720225	5.817117	1.81E-07	9.08E-07	6.799734
UNC93A	1.564942	8.464887	5.817102	1.81E-07	9.08E-07	6.799678
BUB3	-0.80586	7.415015	-5.81681	1.81E-07	9.09E-07	6.798562
SLC25A12	0.920816	7.552376	5.815876	1.82E-07	9.12E-07	6.794923
GSDMC	0.938074	7.107612	5.814836	1.83E-07	9.15E-07	6.790888
ZNF473	0.886559	7.687249	5.813163	1.84E-07	9.21E-07	6.784401
NDUFA4	-1.50141	8.429784	-5.81048	1.86E-07	9.30E-07	6.774016
LOC44092	-0.9382	7.666952	-5.80818	1.88E-07	9.38E-07	6.765067
YPEL1	1.016407	7.640909	5.806206	1.89E-07	9.44E-07	6.757431

UROD	-0.99804	8.079431	-5.80585	1.90E-07	9.46E-07	6.756048
EXOSC7	-0.76373	7.132521	-5.80411	1.91E-07	9.51E-07	6.749317
SLC22A6	1.15545	7.143673	5.802055	1.92E-07	9.58E-07	6.741343
MYH13	0.962324	7.005265	5.802016	1.92E-07	9.58E-07	6.741191
BEND6	0.84611	7.037222	5.80159	1.93E-07	9.59E-07	6.739542
C9orf163	1.06492	7.226242	5.801204	1.93E-07	9.60E-07	6.738046
SPRN	0.83321	7.033712	5.801044	1.93E-07	9.61E-07	6.737426
USH1G	0.8149	7.326822	5.799955	1.94E-07	9.64E-07	6.733208
MICA	-0.86899	7.160781	-5.79951	1.94E-07	9.66E-07	6.731471
OPCML	1.077809	7.058189	5.798312	1.95E-07	9.70E-07	6.726842
LOC64734	-0.78437	7.976561	-5.79775	1.96E-07	9.71E-07	6.724649
KIRREL3	1.687337	7.741445	5.795605	1.97E-07	9.79E-07	6.716354
THEM4	1.187706	7.660638	5.795521	1.97E-07	9.79E-07	6.716029
DDX5	-0.84415	7.496018	-5.79431	1.98E-07	9.83E-07	6.711329
HLA-DPA1	-1.19023	9.159395	-5.79317	1.99E-07	9.87E-07	6.70693
GAGE12C	2.423439	8.546851	5.792566	2.00E-07	9.89E-07	6.704582
ZNF519	0.787293	7.246599	5.790713	2.01E-07	9.95E-07	6.697407
DAP	-1.17507	8.735184	-5.79064	2.01E-07	9.95E-07	6.697136
PSMB10	-1.50262	8.974897	-5.78898	2.03E-07	1.00E-06	6.69068
CREB1	0.795875	7.705749	5.788475	2.03E-07	1.00E-06	6.688738
OR4F15	0.741013	6.827871	5.787811	2.04E-07	1.01E-06	6.686167
BRMS1	-0.95877	9.42559	-5.78536	2.06E-07	1.01E-06	6.676661
POU4F2	1.400192	7.221312	5.78497	2.06E-07	1.02E-06	6.67517
FMO3	-1.06584	8.364705	-5.7846	2.06E-07	1.02E-06	6.673728
HSD17B10	-1.20005	8.962368	-5.78232	2.08E-07	1.03E-06	6.664904
RALB	-0.80076	8.269439	-5.78226	2.08E-07	1.03E-06	6.664683
TNKS	-0.75085	7.764885	-5.78207	2.08E-07	1.03E-06	6.663924
TTC38	-0.76366	7.193129	-5.7815	2.09E-07	1.03E-06	6.661717
RPS8	-0.88339	7.670853	-5.78103	2.09E-07	1.03E-06	6.659898
POLD2	-0.74507	7.302963	-5.77676	2.13E-07	1.05E-06	6.643376
FGF3	1.269548	7.042527	5.776529	2.13E-07	1.05E-06	6.642497
FLJ46010	0.903898	6.976501	5.775742	2.14E-07	1.05E-06	6.639453
CMBL	-1.35208	8.70307	-5.77516	2.14E-07	1.05E-06	6.637186
OR4A5	1.006177	6.978939	5.774769	2.14E-07	1.05E-06	6.635687
RNF190	1.036117	6.926795	5.773888	2.15E-07	1.06E-06	6.632281
BCAR4	0.776344	6.896758	5.773725	2.15E-07	1.06E-06	6.631648
DUOX1	0.761944	7.130267	5.773328	2.16E-07	1.06E-06	6.630112
CACNG3	1.029608	7.003126	5.770291	2.18E-07	1.07E-06	6.618363
MIR886	-1.31181	9.743153	-5.77022	2.18E-07	1.07E-06	6.618098
RPL18A	-0.92347	11.88737	-5.76897	2.19E-07	1.08E-06	6.61327
LOC38852	-0.87666	8.718783	-5.76894	2.19E-07	1.08E-06	6.613139
CCDC39	1.037821	7.026711	5.768443	2.20E-07	1.08E-06	6.611217
FAM113B	-0.98708	7.933431	-5.76667	2.21E-07	1.08E-06	6.604353
ZFAND2A	-1.11766	9.866641	-5.76551	2.22E-07	1.09E-06	6.599865
BCLAF1	-0.90478	8.42118	-5.76541	2.23E-07	1.09E-06	6.599489
DDX54	1.668301	8.462843	5.764562	2.23E-07	1.09E-06	6.596208
CLDN17	0.955313	6.910021	5.764314	2.23E-07	1.09E-06	6.595249
IL3	1.461435	7.295077	5.764281	2.24E-07	1.09E-06	6.59512
FBXL6	-1.13403	8.73846	-5.76378	2.24E-07	1.10E-06	6.59318
HECTD3	-1.08477	9.131893	-5.76341	2.24E-07	1.10E-06	6.591767
GUCY1B2	1.152991	7.296343	5.763387	2.24E-07	1.10E-06	6.591663
HIST1H4H	-1.2657	9.020653	-5.76152	2.26E-07	1.10E-06	6.584457
SULT2A1	-0.88384	7.434112	-5.76121	2.26E-07	1.11E-06	6.583258
S100A10	-0.97969	8.104462	-5.75922	2.28E-07	1.11E-06	6.575547
ARHGAP1	0.836922	7.474852	5.758739	2.28E-07	1.12E-06	6.573692
ZNF324	1.401706	7.9071	5.758108	2.29E-07	1.12E-06	6.571255
EIF3D	-1.1721	9.100177	-5.75721	2.30E-07	1.12E-06	6.567773
LOXL4	-1.56542	8.339478	-5.75512	2.32E-07	1.13E-06	6.559718

SNORD12	-0.84926	7.534182	-5.75505	2.32E-07	1.13E-06	6.559425
KRT9	1.028851	7.417511	5.751605	2.35E-07	1.14E-06	6.546123
MRGPRX1	0.71491	6.706277	5.749707	2.37E-07	1.15E-06	6.538787
C5orf15	-1.09217	7.910509	-5.7485	2.38E-07	1.16E-06	6.534113
ERP29	-1.27388	8.88735	-5.74785	2.39E-07	1.16E-06	6.531629
CYBA	-1.46557	7.99549	-5.74647	2.40E-07	1.17E-06	6.526269
F12	-1.83381	9.429038	-5.74636	2.40E-07	1.17E-06	6.525861
IMP4	-1.21393	8.974619	-5.74565	2.41E-07	1.17E-06	6.523128
FKBP11	-1.01546	7.583492	-5.74451	2.42E-07	1.17E-06	6.518714
DDI2	-0.78072	7.509353	-5.7426	2.44E-07	1.18E-06	6.511334
GPR18	0.747696	6.993279	5.740966	2.45E-07	1.19E-06	6.505026
PARK7	-1.17642	8.786096	-5.74011	2.46E-07	1.19E-06	6.501711
AFM	-1.11127	7.461165	-5.73862	2.47E-07	1.20E-06	6.495981
PLXNB1	-1.23314	9.247571	-5.73844	2.48E-07	1.20E-06	6.495264
PLAC8	0.787969	7.395033	5.738083	2.48E-07	1.20E-06	6.493893
MLL2	-0.97607	8.179597	-5.73734	2.49E-07	1.20E-06	6.49104
DIO2	0.777627	7.167534	5.736535	2.50E-07	1.21E-06	6.487919
SNHG11	-1.03733	8.349457	-5.73514	2.51E-07	1.21E-06	6.48252
APOE	-2.06163	11.38695	-5.73261	2.53E-07	1.22E-06	6.472761
BDH1	-0.89176	7.67601	-5.7323	2.54E-07	1.22E-06	6.471574
OR1D4	0.709366	6.842625	5.731523	2.55E-07	1.23E-06	6.468572
ZBTB10	-0.73768	7.248453	-5.73118	2.55E-07	1.23E-06	6.46724
ARPC3	-0.88765	8.486536	-5.7304	2.56E-07	1.23E-06	6.46425
CAPN5	-1.56339	9.395206	-5.73032	2.56E-07	1.23E-06	6.463939
RBM42	-1.21153	9.813668	-5.73013	2.56E-07	1.23E-06	6.46321
SDS	-1.8246	8.708482	-5.72823	2.58E-07	1.24E-06	6.455876
PSMC2	-1.14854	8.608196	-5.7281	2.58E-07	1.24E-06	6.455358
LYPLA1	-0.77522	7.708022	-5.72801	2.58E-07	1.24E-06	6.455021
ARHGAP18	-0.99434	7.746769	-5.72794	2.58E-07	1.24E-06	6.454737
SNORD15	-1.06589	7.728559	-5.72709	2.59E-07	1.24E-06	6.451476
FLRT1	0.927516	7.036845	5.726204	2.60E-07	1.25E-06	6.448045
ACSM2B	-1.45471	8.847994	-5.72598	2.60E-07	1.25E-06	6.447195
LRP4	1.71699	8.097979	5.725005	2.61E-07	1.25E-06	6.443421
BIRC7	0.712075	6.850538	5.721898	2.64E-07	1.27E-06	6.431435
IRS1	-0.79037	7.704238	-5.72016	2.66E-07	1.27E-06	6.424748
EFS	0.713277	7.104377	5.713606	2.73E-07	1.30E-06	6.399457
FAM153A	0.901232	6.994567	5.713237	2.74E-07	1.31E-06	6.398034
CLNS1A	-0.73587	7.686109	-5.71261	2.74E-07	1.31E-06	6.395626
DEFA3	1.005438	7.109299	5.711633	2.75E-07	1.31E-06	6.391848
SLC47A2	0.874956	6.906086	5.711327	2.76E-07	1.31E-06	6.390669
ZFHX2	1.411486	7.651722	5.710949	2.76E-07	1.32E-06	6.389212
LCE3A	1.094338	7.096127	5.710377	2.77E-07	1.32E-06	6.387008
GAGE2B	1.425164	7.639706	5.709406	2.78E-07	1.32E-06	6.383264
VPS28	-0.94569	9.145573	-5.70842	2.79E-07	1.33E-06	6.37947
OR4D9	1.553855	7.316305	5.707622	2.80E-07	1.33E-06	6.376389
MRLC2	-1.36769	8.426992	-5.70691	2.81E-07	1.33E-06	6.373631
MYCN	0.743645	7.072939	5.70553	2.82E-07	1.34E-06	6.368326
CCDC114	2.031792	8.065315	5.705187	2.82E-07	1.34E-06	6.367005
HFE2	-1.29919	8.696435	-5.70448	2.83E-07	1.35E-06	6.364292
FCF1	0.756083	8.486451	5.70314	2.85E-07	1.35E-06	6.359116
C9orf100	0.726813	7.167303	5.703037	2.85E-07	1.35E-06	6.358721
FAM54A	0.938777	7.614449	5.702502	2.86E-07	1.36E-06	6.35666
SF4	1.261565	8.4209	5.70175	2.86E-07	1.36E-06	6.353761
SLC6A18	0.806783	6.827368	5.698894	2.90E-07	1.37E-06	6.342758
SNORA33	-1.07789	7.835471	-5.69767	2.91E-07	1.38E-06	6.338034
ZBTB32	0.843878	7.17552	5.696731	2.92E-07	1.38E-06	6.33443
CUZD1	0.717215	6.937707	5.69593	2.93E-07	1.39E-06	6.331345
ZNF395	-0.87188	7.878838	-5.69357	2.96E-07	1.40E-06	6.322263

OSBPL6	0.933582	7.275123	5.693007	2.96E-07	1.40E-06	6.320087
TM7SF3	-0.78096	7.998983	-5.69272	2.97E-07	1.40E-06	6.318986
TAP1	-1.36106	8.606499	-5.68854	3.02E-07	1.43E-06	6.302904
LILRB2	0.998908	8.202613	5.685953	3.05E-07	1.44E-06	6.292931
FLJ14816	1.156081	7.074509	5.684017	3.07E-07	1.45E-06	6.285479
ATP5J	-1.08777	9.232152	-5.68311	3.08E-07	1.45E-06	6.281988
FOXP4	1.521292	7.933833	5.682895	3.09E-07	1.45E-06	6.281161
EVL	-1.69163	9.461721	-5.68264	3.09E-07	1.46E-06	6.280182
SPRY2	-0.74499	7.202869	-5.68256	3.09E-07	1.46E-06	6.279878
TUBB2B	1.606843	8.660202	5.68143	3.10E-07	1.46E-06	6.275522
RPS3	-1.15637	9.271685	-5.68082	3.11E-07	1.46E-06	6.273193
CCDC107	-1.42078	7.917035	-5.68014	3.12E-07	1.47E-06	6.270572
LENG8	-0.98114	9.436917	-5.67947	3.13E-07	1.47E-06	6.267982
ATL2	-0.79261	7.738641	-5.67804	3.15E-07	1.48E-06	6.262467
TAPBPL	-0.73336	7.353554	-5.67699	3.16E-07	1.48E-06	6.258446
TMTC3	0.906388	6.960685	5.676667	3.16E-07	1.49E-06	6.257197
AMDHD1	-1.11496	7.922614	-5.6749	3.18E-07	1.50E-06	6.250404
MDH2	-1.45855	9.531998	-5.67058	3.24E-07	1.52E-06	6.233777
GUSB	-0.88185	7.829885	-5.66574	3.30E-07	1.54E-06	6.215167
NGEF	-0.83946	7.518763	-5.66572	3.30E-07	1.54E-06	6.215093
MYO1A	0.987985	7.713324	5.665564	3.30E-07	1.54E-06	6.214499
U2AF1L2	-0.92647	7.581594	-5.66395	3.32E-07	1.55E-06	6.208286
CHSY1	-0.88772	7.25572	-5.66388	3.33E-07	1.55E-06	6.208027
DLX1	0.783492	7.051803	5.662682	3.34E-07	1.56E-06	6.203423
ATG7	-1.03372	8.413162	-5.66268	3.34E-07	1.56E-06	6.203411
FSCN1	-1.20111	7.905047	-5.66178	3.35E-07	1.56E-06	6.199963
SPTBN1	-1.0422	9.656443	-5.66134	3.36E-07	1.57E-06	6.198252
RAB11FIP3	-0.73005	7.210399	-5.66122	3.36E-07	1.57E-06	6.197802
TNFRSF13	0.880455	7.402002	5.659103	3.39E-07	1.58E-06	6.189668
SLC13A5	-2.20946	9.921301	-5.65902	3.39E-07	1.58E-06	6.189361
DLK1	0.838261	6.883517	5.658097	3.40E-07	1.58E-06	6.1858
PLA2G4F	0.870578	6.835575	5.657524	3.41E-07	1.59E-06	6.183601
TP53INP1	-0.91448	7.702864	-5.65748	3.41E-07	1.59E-06	6.183414
ADCY3	-0.75932	7.045441	-5.65666	3.42E-07	1.59E-06	6.18027
FNDC8	1.480877	7.522887	5.655795	3.43E-07	1.60E-06	6.176957
NFIL3	-0.97314	8.147887	-5.65542	3.44E-07	1.60E-06	6.175517
C6orf138	0.996719	7.780357	5.654569	3.45E-07	1.60E-06	6.172246
NAT5	-0.85264	9.431566	-5.65427	3.45E-07	1.60E-06	6.171098
NMRAL1	-0.81035	8.061833	-5.65426	3.45E-07	1.60E-06	6.171044
C1QL4	2.064061	8.050598	5.654012	3.46E-07	1.60E-06	6.170105
MFGE8	-1.74246	9.62487	-5.65307	3.47E-07	1.61E-06	6.16649
NTNG2	1.904615	8.345789	5.653036	3.47E-07	1.61E-06	6.16636
IMMP2L	-0.89039	8.255855	-5.6527	3.48E-07	1.61E-06	6.165059
FRMPD4	1.162837	7.09792	5.652016	3.49E-07	1.61E-06	6.16244
GNB3	1.021069	7.188218	5.650392	3.51E-07	1.62E-06	6.156201
DYTN	0.937165	6.971347	5.648948	3.53E-07	1.63E-06	6.150657
RPS28	-1.37155	9.899228	-5.64855	3.53E-07	1.63E-06	6.149137
MFSD2B	0.855554	6.950359	5.642861	3.61E-07	1.67E-06	6.127285
DDX11	0.863507	7.76449	5.642846	3.61E-07	1.67E-06	6.127226
AZI1	-0.94429	8.633223	-5.64043	3.65E-07	1.68E-06	6.117969
PRSS42	1.178596	7.867186	5.640115	3.65E-07	1.68E-06	6.116744
CPLX3	1.701891	7.71567	5.639222	3.67E-07	1.69E-06	6.113315
LRRC42	-0.93855	8.623119	-5.63698	3.70E-07	1.70E-06	6.104727
HBG1	1.027972	7.097348	5.634795	3.73E-07	1.72E-06	6.096328
GFRA3	1.090979	7.153812	5.634354	3.74E-07	1.72E-06	6.094636
SLC35F5	-0.73553	7.376529	-5.6337	3.75E-07	1.72E-06	6.092118
PLEKHB1	1.351744	8.260535	5.633615	3.75E-07	1.72E-06	6.091799
TOX	0.798728	6.981046	5.633085	3.76E-07	1.72E-06	6.089766

GATA1	0.74153	6.817159	5.630908	3.79E-07	1.74E-06	6.081416
PCBD1	-0.85183	8.159981	-5.63087	3.79E-07	1.74E-06	6.081251
SLC24A6	-0.81583	7.774656	-5.63079	3.79E-07	1.74E-06	6.080957
CELSR1	1.073099	7.176717	5.630422	3.79E-07	1.74E-06	6.079552
SLC25A27	-0.71675	7.486213	-5.62899	3.82E-07	1.75E-06	6.07406
FHOD3	1.049999	7.451476	5.627777	3.83E-07	1.76E-06	6.069407
ITIH5	0.886361	10.16676	5.627714	3.84E-07	1.76E-06	6.069166
LOC72811	0.786411	6.818171	5.626443	3.85E-07	1.77E-06	6.06429
ITGB5	-0.71696	7.975346	-5.6258	3.86E-07	1.77E-06	6.061811
CRLF3	-0.72989	7.502676	-5.6238	3.90E-07	1.78E-06	6.054165
OTC	-1.58969	9.247716	-5.62212	3.92E-07	1.79E-06	6.047699
C2CD3	1.205442	8.8983	5.620803	3.94E-07	1.80E-06	6.042665
MYL3	1.738279	8.263531	5.619023	3.97E-07	1.81E-06	6.03584
NID1	-0.83962	8.431344	-5.61407	4.05E-07	1.85E-06	6.016867
SDHB	-0.76777	10.57282	-5.61215	4.08E-07	1.86E-06	6.009498
GPX8	1.400097	9.649732	5.611685	4.09E-07	1.86E-06	6.00772
PRTG	1.143226	7.240641	5.610897	4.10E-07	1.87E-06	6.004702
ARHGEF17	1.222478	9.407871	5.608324	4.14E-07	1.88E-06	5.994844
APP	-0.97111	8.259105	-5.60771	4.15E-07	1.89E-06	5.992499
PAFAH2	0.838663	8.825991	5.605156	4.19E-07	1.91E-06	5.982709
DDIT4	-0.96403	7.697061	-5.60472	4.20E-07	1.91E-06	5.981051
SYT6	1.107469	7.169686	5.602095	4.24E-07	1.93E-06	5.970985
C22orf13	-1.11915	8.767979	-5.60204	4.24E-07	1.93E-06	5.970759
SLC13A2	1.637853	8.033558	5.601131	4.26E-07	1.94E-06	5.967295
DBH	1.717679	8.585924	5.601039	4.26E-07	1.94E-06	5.966944
APBA2	0.902579	7.023012	5.600963	4.26E-07	1.94E-06	5.966651
C7orf52	1.77045	7.725871	5.599987	4.28E-07	1.94E-06	5.962915
RILPL1	-1.04827	8.289029	-5.59767	4.32E-07	1.96E-06	5.954049
LOC15476	1.266424	8.283282	5.596757	4.33E-07	1.96E-06	5.950549
KCNT1	0.91967	7.119448	5.596093	4.34E-07	1.97E-06	5.948009
OTOS	0.978566	6.920121	5.594721	4.37E-07	1.98E-06	5.942756
SPCS1	-1.47686	10.47998	-5.59343	4.39E-07	1.99E-06	5.937812
NXT2	-0.74394	7.220689	-5.58876	4.47E-07	2.02E-06	5.919941
SRP72	-0.758	8.601673	-5.58859	4.47E-07	2.02E-06	5.919291
ZNF334	0.721874	7.121266	5.58778	4.49E-07	2.03E-06	5.916197
DGUOK	-0.9772	8.327504	-5.58726	4.50E-07	2.03E-06	5.914206
AUTS2	-0.85435	7.51805	-5.58404	4.55E-07	2.05E-06	5.901906
E4F1	-1.57587	8.156706	-5.5828	4.58E-07	2.06E-06	5.897167
TXN	-1.25194	8.568756	-5.58231	4.59E-07	2.07E-06	5.89529
HIST2H2B	0.839606	7.400037	5.581054	4.61E-07	2.08E-06	5.890473
SERP2	1.230368	7.582071	5.580024	4.63E-07	2.09E-06	5.886533
FLJ41423	0.718136	6.778287	5.579009	4.65E-07	2.09E-06	5.882654
ATP5L	-0.84892	9.028062	-5.57498	4.72E-07	2.12E-06	5.867258
SLC26A5	0.762179	6.959438	5.574578	4.73E-07	2.13E-06	5.865715
A3GALT2	0.708433	6.862031	5.572351	4.77E-07	2.14E-06	5.857204
FGL2	-0.71618	7.700546	-5.57173	4.78E-07	2.15E-06	5.854823
ZC3HC1	-1.19999	7.796813	-5.57123	4.79E-07	2.15E-06	5.85293
RASSF4	-0.95601	8.129312	-5.57094	4.80E-07	2.15E-06	5.851827
SMR3B	1.156905	7.278055	5.569736	4.82E-07	2.16E-06	5.847208
LEPR	-0.93977	7.66719	-5.56922	4.83E-07	2.17E-06	5.845241
TOMM7	-2.52441	10.58148	-5.56826	4.85E-07	2.17E-06	5.841588
LEAP2	-1.24502	7.964925	-5.56805	4.85E-07	2.18E-06	5.840777
ASAH2B	-0.81033	7.072533	-5.56794	4.85E-07	2.18E-06	5.840329
ADRBK1	-0.80963	8.102696	-5.56547	4.90E-07	2.20E-06	5.830892
AKAP8L	-1.36617	8.106757	-5.56445	4.92E-07	2.20E-06	5.827017
PROKR1	1.552447	7.23752	5.563924	4.93E-07	2.21E-06	5.825006
TMC7	1.000935	7.437514	5.563586	4.94E-07	2.21E-06	5.823714
AZU1	1.107193	7.090859	5.562118	4.96E-07	2.22E-06	5.818108

UGCG	-0.75759	7.800441	-5.56162	4.97E-07	2.22E-06	5.816222
MIR196A2	0.878739	6.915209	5.561157	4.98E-07	2.23E-06	5.814435
NCR1	0.805654	7.061933	5.55986	5.01E-07	2.24E-06	5.809483
MRPL48	-0.95787	7.488636	-5.55969	5.01E-07	2.24E-06	5.808821
C16orf61	-1.04792	7.812142	-5.55914	5.02E-07	2.24E-06	5.806747
ZNF232	0.799501	7.599874	5.556117	5.08E-07	2.27E-06	5.795193
TSPYL1	-0.96222	8.378372	-5.55601	5.08E-07	2.27E-06	5.794784
COMMD1	-0.9597	9.009438	-5.55509	5.10E-07	2.28E-06	5.791283
GORASP2	-1.35323	8.132036	-5.55358	5.13E-07	2.29E-06	5.785497
PLEKHA9	0.915182	7.657895	5.553121	5.14E-07	2.29E-06	5.783754
SOX1	1.070403	6.944443	5.552788	5.15E-07	2.29E-06	5.782486
GPR27	1.452906	7.4864	5.552551	5.15E-07	2.30E-06	5.781581
MIR933	1.534111	8.077222	5.55067	5.19E-07	2.31E-06	5.774402
SAT2	-0.95487	8.096926	-5.54885	5.23E-07	2.33E-06	5.767462
GPN2	-1.3167	8.58116	-5.54771	5.25E-07	2.34E-06	5.7631
IL28A	1.699403	7.650199	5.545996	5.29E-07	2.35E-06	5.756565
FERMT2	-0.93008	7.350435	-5.5457	5.29E-07	2.35E-06	5.755449
RIMBP3	1.172944	7.194704	5.544843	5.31E-07	2.36E-06	5.752168
COL3A1	-0.85545	7.343749	-5.54378	5.33E-07	2.37E-06	5.748111
NUP210L	1.744109	7.296071	5.543644	5.34E-07	2.37E-06	5.747592
PAQR6	1.452079	8.38965	5.541529	5.38E-07	2.39E-06	5.739526
CNN3	-1.52751	8.396859	-5.54083	5.40E-07	2.39E-06	5.736843
OR6K3	0.716542	6.871604	5.53847	5.45E-07	2.41E-06	5.727858
SNORD35	-1.87335	9.45518	-5.53642	5.49E-07	2.43E-06	5.720036
PSMC5	-0.80039	7.31473	-5.53481	5.53E-07	2.44E-06	5.713904
C3orf32	0.736915	7.080339	5.534746	5.53E-07	2.44E-06	5.713659
FBXO15	1.115581	7.380723	5.534559	5.53E-07	2.44E-06	5.712948
RGAG1	1.156951	7.147929	5.53411	5.54E-07	2.45E-06	5.711236
TUSC4	-0.75761	7.420245	-5.52895	5.65E-07	2.50E-06	5.691581
EHHADH	-0.93557	7.893446	-5.52798	5.68E-07	2.50E-06	5.687866
MAS1	1.032079	7.0425	5.526314	5.71E-07	2.52E-06	5.681523
FOSL1	0.793056	7.445268	5.524377	5.76E-07	2.54E-06	5.674143
SRMS	1.484438	7.4057	5.523672	5.77E-07	2.54E-06	5.671459
LGI4	1.254331	7.543295	5.523619	5.77E-07	2.54E-06	5.671254
VAR2	-0.9924	10.54877	-5.5229	5.79E-07	2.55E-06	5.668518
P8	-1.27595	8.448763	-5.52228	5.80E-07	2.55E-06	5.666156
NCRNA00	-0.77152	7.078709	-5.52055	5.84E-07	2.57E-06	5.659579
SNORD1C	-1.44831	8.470356	-5.51958	5.87E-07	2.58E-06	5.655862
ORM1	-1.79128	10.33344	-5.51945	5.87E-07	2.58E-06	5.655362
FTCD	-1.33856	10.0004	-5.5189	5.88E-07	2.58E-06	5.653289
SLC22A25	-0.78965	7.57198	-5.51871	5.89E-07	2.59E-06	5.652561
SNORA28	-0.80804	7.348775	-5.51865	5.89E-07	2.59E-06	5.652335
TNXB	1.142564	7.953897	5.517979	5.90E-07	2.59E-06	5.649774
ZNF616	0.846226	7.541401	5.517896	5.90E-07	2.59E-06	5.649456
ZNF385D	1.516416	8.056538	5.516735	5.93E-07	2.60E-06	5.645035
MIR338	0.894147	7.019889	5.516624	5.93E-07	2.60E-06	5.644615
C14orf183	0.81127	6.943334	5.516187	5.94E-07	2.61E-06	5.642952
MRPL35	-0.70624	7.68351	-5.51313	6.02E-07	2.64E-06	5.631294
MIR7-3	0.982238	6.981115	5.512504	6.03E-07	2.64E-06	5.628927
SNORA74	-1.4949	8.838737	-5.51182	6.05E-07	2.65E-06	5.626343
GUCA2B	0.96123	7.310844	5.510686	6.07E-07	2.66E-06	5.622007
TOP2B	-0.85272	8.513498	-5.50847	6.13E-07	2.68E-06	5.613563
OR5AY1	1.371989	7.418489	5.507551	6.15E-07	2.69E-06	5.610075
MUL1	-0.87497	7.526419	-5.50661	6.17E-07	2.70E-06	5.606501
CA9	1.851467	7.759643	5.506291	6.18E-07	2.70E-06	5.605283
KRTAP10-	0.783218	6.885891	5.503599	6.24E-07	2.73E-06	5.595038
C19orf48	-0.73847	7.839464	-5.50239	6.27E-07	2.74E-06	5.590454
RBMY1J	1.005081	7.185044	5.500938	6.31E-07	2.75E-06	5.584918

RDH5	-1.33662	8.473882	-5.49988	6.34E-07	2.76E-06	5.580899
CCM2	-1.06197	7.8486	-5.49878	6.36E-07	2.77E-06	5.576704
INTS3	-0.76444	7.577167	-5.49826	6.38E-07	2.77E-06	5.57472
RUFY4	1.281748	7.508952	5.493955	6.48E-07	2.82E-06	5.558361
RBM22	-1.30268	8.40703	-5.49052	6.57E-07	2.86E-06	5.545314
SPTA1	0.761585	7.095223	5.490136	6.58E-07	2.86E-06	5.543843
SV2A	0.985234	7.581307	5.487021	6.66E-07	2.89E-06	5.532003
TMEM57	-0.92825	8.056972	-5.48618	6.68E-07	2.90E-06	5.528815
WAS	-1.00579	8.509472	-5.48562	6.70E-07	2.91E-06	5.526677
SNORD76	-1.03411	7.553473	-5.48424	6.74E-07	2.92E-06	5.521434
SNORA43	-2.15421	10.4624	-5.48304	6.77E-07	2.93E-06	5.516895
CHN2	-0.72622	7.679756	-5.48281	6.77E-07	2.93E-06	5.51599
LHX1	0.78117	6.923632	5.482486	6.78E-07	2.94E-06	5.514775
OBFC2B	0.711734	7.633961	5.482352	6.78E-07	2.94E-06	5.514266
WISP2	1.043028	7.781012	5.48162	6.80E-07	2.95E-06	5.511483
BEST3	0.895566	6.909862	5.481122	6.82E-07	2.95E-06	5.509591
FLJ43752	0.804068	6.899404	5.478568	6.89E-07	2.98E-06	5.49989
MLXIPL	-1.45443	9.569141	-5.47382	7.01E-07	3.03E-06	5.48188
HELT	1.396603	7.384233	5.473188	7.03E-07	3.03E-06	5.47946
FEM1B	-0.75392	7.992348	-5.47307	7.04E-07	3.03E-06	5.479013
FAF2	-0.96098	7.702901	-5.47306	7.04E-07	3.03E-06	5.478958
BPIL2	0.788524	6.817138	5.47021	7.11E-07	3.06E-06	5.468159
VIL2	-1.45546	8.64962	-5.46997	7.12E-07	3.07E-06	5.467233
HSD17B6	-1.25114	10.39534	-5.46894	7.15E-07	3.08E-06	5.463324
FER1L4	0.899246	7.753224	5.467229	7.20E-07	3.09E-06	5.456842
RCE1	0.851884	9.180121	5.465975	7.23E-07	3.11E-06	5.452085
SLC25A44	-0.70247	7.407604	-5.4656	7.24E-07	3.11E-06	5.450659
CTSS	-0.70599	7.870939	-5.46554	7.25E-07	3.11E-06	5.450452
MAP3K2	-1.06315	8.00902	-5.46465	7.27E-07	3.12E-06	5.447057
SLC25A30	-1.00217	7.980316	-5.46108	7.37E-07	3.16E-06	5.433511
RNF152	-0.75637	7.589634	-5.46091	7.38E-07	3.16E-06	5.432857
PPP2R1A	-0.72273	7.967534	-5.46082	7.38E-07	3.16E-06	5.432544
UQCRH	-1.2223	8.453978	-5.46041	7.39E-07	3.17E-06	5.430979
EPHX2	-1.13382	7.84864	-5.4601	7.40E-07	3.17E-06	5.429805
SNORD37	-1.012	7.720549	-5.45902	7.43E-07	3.18E-06	5.425684
ADAMTSL	-1.82621	9.429922	-5.45892	7.43E-07	3.18E-06	5.425327
TNKS1BP1	-1.09623	8.354613	-5.45798	7.46E-07	3.19E-06	5.421769
GLG1	-1.38656	9.170214	-5.45698	7.49E-07	3.20E-06	5.417946
HADH2	-1.2389	9.133273	-5.45678	7.50E-07	3.20E-06	5.417202
POFUT2	0.756033	7.692813	5.456224	7.51E-07	3.21E-06	5.415094
SLC7A14	0.742266	7.07793	5.45463	7.56E-07	3.23E-06	5.409051
CAMKV	0.703983	6.960811	5.454496	7.56E-07	3.23E-06	5.408541
GPRIN2	0.870513	6.951727	5.453766	7.59E-07	3.24E-06	5.405776
DAD1	-0.77538	9.901665	-5.4536	7.59E-07	3.24E-06	5.40513
SLC11A2	-1.42219	8.094387	-5.45052	7.68E-07	3.27E-06	5.393478
TSPAN3	-0.72635	7.429933	-5.45009	7.70E-07	3.28E-06	5.391845
RBMY1A1	1.029603	7.208162	5.448525	7.74E-07	3.29E-06	5.385906
LOC38891	0.943185	6.78015	5.44847	7.74E-07	3.29E-06	5.385699
AK3	-1.06279	8.194785	-5.4477	7.77E-07	3.30E-06	5.38278
MPG	0.740931	6.938768	5.447398	7.78E-07	3.30E-06	5.381637
BAIAP2L2	-1.5379	8.293365	-5.44702	7.79E-07	3.31E-06	5.380205
SCARB1	-0.94477	10.27008	-5.44487	7.85E-07	3.34E-06	5.372069
REXO2	-1.03939	8.144585	-5.44436	7.87E-07	3.34E-06	5.37014
MSH4	1.087408	7.251599	5.443021	7.91E-07	3.36E-06	5.365052
MECR	0.848346	7.929564	5.442541	7.93E-07	3.36E-06	5.363232
CDK5RAP2	-0.7245	7.581558	-5.44113	7.97E-07	3.38E-06	5.357893
TSSK4	0.765919	7.009916	5.440209	8.00E-07	3.39E-06	5.3544
FBXL21	1.007737	7.171753	5.439783	8.01E-07	3.39E-06	5.352786

UBC	-1.11208	9.360268	-5.43973	8.01E-07	3.39E-06	5.352577
APH1A	-0.98569	8.172406	-5.43189	8.26E-07	3.49E-06	5.322883
VDAC1	-0.76081	7.782365	-5.43129	8.28E-07	3.50E-06	5.320611
FLJ16734	1.682594	8.223224	5.43012	8.32E-07	3.51E-06	5.316196
SAFB	-0.76829	8.794342	-5.43008	8.32E-07	3.51E-06	5.316043
SNORA67	-1.20676	8.249114	-5.42933	8.34E-07	3.52E-06	5.313193
KLHDC10	-0.76238	7.521867	-5.42868	8.37E-07	3.53E-06	5.310748
RUVBL2	-0.77521	7.708789	-5.42739	8.41E-07	3.54E-06	5.305852
ARF5	-0.89532	8.056674	-5.42709	8.42E-07	3.55E-06	5.304728
TNFRSF18	1.510162	7.78301	5.426294	8.44E-07	3.55E-06	5.301717
SNORA6	-1.07636	8.548528	-5.42627	8.44E-07	3.55E-06	5.301618
ELOVL6	-0.84622	7.637375	-5.42393	8.52E-07	3.58E-06	5.292767
NCRNA00	1.376924	7.614397	5.421828	8.59E-07	3.61E-06	5.284817
UGT1A6	-0.78535	8.096747	-5.41839	8.71E-07	3.65E-06	5.271815
IMPDH2	-0.77428	7.762906	-5.41838	8.71E-07	3.65E-06	5.271785
BPIL1	0.725888	6.903023	5.417541	8.74E-07	3.67E-06	5.268605
ITGA2B	1.292656	7.455188	5.417384	8.74E-07	3.67E-06	5.268009
AQP7	1.123162	10.04431	5.414694	8.83E-07	3.70E-06	5.257839
KRT14	1.121394	7.179383	5.414203	8.85E-07	3.71E-06	5.255981
LRRC52	1.031477	7.235815	5.410518	8.98E-07	3.76E-06	5.242052
C19orf35	0.829793	6.8282	5.410139	8.99E-07	3.76E-06	5.240619
CYP4A11	-1.69593	7.99786	-5.40856	9.05E-07	3.78E-06	5.234652
VPS37D	-0.72872	7.656581	-5.40763	9.08E-07	3.80E-06	5.231144
C18orf10	1.004166	8.629181	5.406518	9.12E-07	3.81E-06	5.226934
RP2	-0.81424	7.259181	-5.40573	9.15E-07	3.82E-06	5.223944
COX8C	0.807478	7.028193	5.404633	9.19E-07	3.84E-06	5.219811
DYDC2	1.280573	7.910117	5.40426	9.20E-07	3.84E-06	5.218402
HBG2	1.146894	7.430612	5.403843	9.21E-07	3.85E-06	5.216824
VWA2	0.85713	6.877813	5.402336	9.27E-07	3.87E-06	5.211132
PILRA	0.919982	8.205348	5.402263	9.27E-07	3.87E-06	5.210857
PLEKHG4	0.993283	7.281787	5.402096	9.28E-07	3.87E-06	5.210226
PMM1	-1.4348	9.181828	-5.40065	9.33E-07	3.89E-06	5.20476
OPTC	1.249843	7.143564	5.400395	9.34E-07	3.89E-06	5.203802
DPP4	-0.73173	7.46941	-5.39942	9.37E-07	3.90E-06	5.200101
C6orf127	0.703133	6.841535	5.399248	9.38E-07	3.90E-06	5.199467
C11orf59	-1.32982	8.214712	-5.39884	9.39E-07	3.91E-06	5.197937
DHRS12	0.77983	7.612281	5.396618	9.48E-07	3.94E-06	5.189537
CAMTA1	1.143248	7.379535	5.395034	9.53E-07	3.96E-06	5.183555
SLC25A3	-1.0756	8.968855	-5.39439	9.56E-07	3.97E-06	5.181114
SNORD60	-1.7296	9.383869	-5.39411	9.57E-07	3.97E-06	5.180057
TRPC7	0.762162	6.890222	5.393234	9.60E-07	3.99E-06	5.17676
UCHL1	0.970249	7.790907	5.39179	9.66E-07	4.01E-06	5.171306
LOC72961	0.90572	8.718425	5.391739	9.66E-07	4.01E-06	5.171115
FLJ32569	0.806896	7.06913	5.391099	9.68E-07	4.02E-06	5.1687
TNS3	-1.19937	8.898994	-5.39009	9.72E-07	4.03E-06	5.164888
CLDN1	-1.31594	8.136294	-5.38905	9.76E-07	4.05E-06	5.160968
CPS1	-1.35464	8.087846	-5.387	9.84E-07	4.08E-06	5.153234
C19orf39	1.076349	7.306004	5.386977	9.84E-07	4.08E-06	5.153144
HBQ1	1.11331	7.137781	5.386123	9.87E-07	4.09E-06	5.14992
COL18A1	-1.03563	8.706734	-5.38583	9.88E-07	4.09E-06	5.148817
CYR61	-1.2197	8.379503	-5.38517	9.91E-07	4.10E-06	5.146338
UBAC1	-0.93571	8.745405	-5.3846	9.93E-07	4.11E-06	5.144158
CALM2	-0.98135	7.687008	-5.38061	1.01E-06	4.17E-06	5.129133
TESSP5	0.790183	7.231048	5.377005	1.02E-06	4.22E-06	5.115528
WDR7	0.85171	7.916321	5.375227	1.03E-06	4.25E-06	5.108822
MIR219-2	0.764286	6.828275	5.37375	1.04E-06	4.27E-06	5.103254
USP42	0.832554	8.572988	5.372911	1.04E-06	4.28E-06	5.100091
C17orf102	0.766978	7.043954	5.369653	1.05E-06	4.33E-06	5.087812

DDR2	1.110341	8.194319	5.36815	1.06E-06	4.36E-06	5.082147
DEFA1	1.298253	7.326312	5.367858	1.06E-06	4.36E-06	5.081049
DGCR10	0.874609	7.379413	5.367715	1.06E-06	4.36E-06	5.08051
FFAR2	1.270418	7.171812	5.364595	1.07E-06	4.41E-06	5.068754
HSPA1B	-1.40432	8.790478	-5.36434	1.07E-06	4.42E-06	5.06778
SEC61G	-1.07385	8.237956	-5.36406	1.08E-06	4.42E-06	5.066719
WDR74	-0.85454	8.472209	-5.36379	1.08E-06	4.42E-06	5.065716
VEGFB	-0.91342	8.051174	-5.36164	1.09E-06	4.46E-06	5.057612
C20orf196	0.838086	7.415183	5.361429	1.09E-06	4.46E-06	5.056828
C2orf15	0.887101	7.301219	5.357442	1.10E-06	4.52E-06	5.041813
OR10G3	1.143648	7.225182	5.356276	1.11E-06	4.54E-06	5.03742
TRHDE	0.978456	7.060642	5.356194	1.11E-06	4.54E-06	5.037114
MT1E	-0.97878	8.6052	-5.35596	1.11E-06	4.55E-06	5.036236
CD300LF	-0.71055	7.496928	-5.35486	1.11E-06	4.56E-06	5.032087
DNAJC5G	1.46958	7.644722	5.353365	1.12E-06	4.59E-06	5.026464
GDF5	1.136808	7.169012	5.350062	1.14E-06	4.64E-06	5.01403
TMEM59	-1.1707	8.017392	-5.34833	1.14E-06	4.67E-06	5.007508
SILV	1.186522	8.148491	5.348269	1.14E-06	4.67E-06	5.007286
SH3BGRL2	-0.85519	7.516236	-5.34818	1.14E-06	4.67E-06	5.006961
TMED10P	-0.78454	8.021135	-5.34784	1.15E-06	4.68E-06	5.005676
OR5V1	1.125274	7.158181	5.345498	1.16E-06	4.72E-06	4.996861
PLXNA4B	0.913487	7.127614	5.343994	1.16E-06	4.74E-06	4.991201
SLC41A3	0.779537	7.774078	5.343436	1.16E-06	4.75E-06	4.989101
NRSN1	0.826002	6.958317	5.343122	1.17E-06	4.75E-06	4.98792
PITX2	0.943228	7.161569	5.342935	1.17E-06	4.76E-06	4.987219
ATP5EP2	1.189104	7.990193	5.342511	1.17E-06	4.76E-06	4.985624
TNFRSF21	-0.72547	7.560021	-5.34243	1.17E-06	4.76E-06	4.985315
ANXA2P1	-0.99071	7.465901	-5.3415	1.17E-06	4.78E-06	4.981831
PIWIL3	0.993847	6.939887	5.341121	1.18E-06	4.78E-06	4.980396
ANKRD5	0.794545	7.893221	5.339702	1.18E-06	4.81E-06	4.97506
PDCD6	-0.84417	8.092121	-5.33842	1.19E-06	4.83E-06	4.970228
NEK3	1.244641	7.666495	5.338317	1.19E-06	4.83E-06	4.969852
DCDC1	0.857396	6.960311	5.336835	1.19E-06	4.86E-06	4.964281
AGBL2	0.767167	7.147047	5.333741	1.21E-06	4.91E-06	4.952648
GALR3	1.499917	7.735939	5.333112	1.21E-06	4.92E-06	4.950282
CHRD	-0.71161	7.637774	-5.3324	1.22E-06	4.93E-06	4.947615
CDRT15P	0.822186	6.807136	5.331382	1.22E-06	4.95E-06	4.943782
NOS1AP	1.024978	8.357614	5.330479	1.22E-06	4.96E-06	4.940388
HEYL	-0.9104	7.699266	-5.32914	1.23E-06	4.99E-06	4.935351
AKR1C4	-1.39539	8.937724	-5.32881	1.23E-06	4.99E-06	4.934114
NDUFS8	-0.70035	10.4851	-5.3287	1.23E-06	4.99E-06	4.93372
SNORD18	-1.18433	7.87845	-5.32843	1.23E-06	5.00E-06	4.932676
CHRNA4	1.464854	7.82228	5.327913	1.24E-06	5.00E-06	4.930747
UCN3	1.011304	7.124213	5.327468	1.24E-06	5.01E-06	4.929074
SNORD87	-0.84943	7.259951	-5.32718	1.24E-06	5.01E-06	4.927994
PAEP	0.865161	7.136274	5.32439	1.25E-06	5.06E-06	4.91751
DNAJB1	-0.99288	7.815847	-5.32167	1.27E-06	5.11E-06	4.907312
VHLL	1.022632	7.07176	5.320662	1.27E-06	5.13E-06	4.903512
SORD	-0.94701	7.918158	-5.31787	1.29E-06	5.18E-06	4.893035
C1QL2	1.580458	7.610675	5.317694	1.29E-06	5.18E-06	4.892368
LOC64384	1.231804	7.014895	5.317274	1.29E-06	5.19E-06	4.890789
CD164L2	1.14969	7.210514	5.317131	1.29E-06	5.19E-06	4.890253
BSG	-0.89976	9.608228	-5.31259	1.31E-06	5.28E-06	4.873214
HRG	-1.32219	9.77992	-5.31121	1.32E-06	5.30E-06	4.868014
CRIPAK	0.743813	8.615561	5.310432	1.32E-06	5.32E-06	4.865112
IGFL1	0.709482	6.875512	5.308269	1.33E-06	5.36E-06	4.856997
FLJ20699	-1.21667	8.510724	-5.30152	1.37E-06	5.49E-06	4.831693
LEPROTL1	-0.77877	8.019188	-5.29805	1.39E-06	5.56E-06	4.818677

ITGAL	-1.0547	8.357405	-5.29699	1.39E-06	5.58E-06	4.81472
INSIG1	-1.16197	8.486214	-5.29585	1.40E-06	5.60E-06	4.810424
SERPINA1	-0.71201	7.639351	-5.2954	1.40E-06	5.61E-06	4.808736
ABCA6	-0.74544	7.773123	-5.29508	1.40E-06	5.61E-06	4.807527
RNY5	-1.87617	11.039	-5.29492	1.41E-06	5.61E-06	4.806934
SMOX	0.959559	7.626915	5.294764	1.41E-06	5.62E-06	4.80636
DKFZp686	0.806272	7.459272	5.294696	1.41E-06	5.62E-06	4.806104
PPAN	-0.74863	7.770619	-5.29447	1.41E-06	5.62E-06	4.805249
LILRA3	1.183919	7.283257	5.289943	1.43E-06	5.72E-06	4.788293
C1orf210	0.873795	7.949298	5.28885	1.44E-06	5.74E-06	4.7842
CCDC116	1.011298	7.136852	5.287996	1.44E-06	5.76E-06	4.781001
GALNTL1	0.713583	7.28594	5.287915	1.44E-06	5.76E-06	4.780697
C6orf156	0.961088	6.853724	5.287889	1.44E-06	5.76E-06	4.7806
KRTAP4-1	0.822475	6.894634	5.287104	1.45E-06	5.77E-06	4.77766
NTN5	0.784546	7.152515	5.286461	1.45E-06	5.78E-06	4.775252
IGF2R	-1.12864	9.360953	-5.28642	1.45E-06	5.78E-06	4.775103
MCM6	-0.8269	7.599495	-5.28553	1.46E-06	5.80E-06	4.771755
FTHL17	0.705461	6.818739	5.284561	1.46E-06	5.82E-06	4.768134
HCST	-0.84805	8.292438	-5.28448	1.46E-06	5.82E-06	4.767817
UNC50	-0.70313	8.528784	-5.28405	1.47E-06	5.83E-06	4.766231
FRMPD1	1.271207	7.407812	5.282975	1.47E-06	5.85E-06	4.762198
GPR89A	0.972464	8.921542	5.28283	1.47E-06	5.85E-06	4.761656
CADM4	0.844925	7.863667	5.282207	1.48E-06	5.86E-06	4.759321
PRR19	0.836763	7.282697	5.282155	1.48E-06	5.86E-06	4.759125
OR4A15	0.998072	7.068363	5.281665	1.48E-06	5.87E-06	4.757293
ZNF540	0.848656	7.536187	5.280926	1.48E-06	5.89E-06	4.754527
INHBC	-0.7278	7.719451	-5.28082	1.48E-06	5.89E-06	4.754126
WDR12	-0.77529	8.064468	-5.28004	1.49E-06	5.90E-06	4.751197
ANKRD1	1.570685	8.136425	5.272926	1.53E-06	6.06E-06	4.724585
OR6Q1	1.247643	7.029444	5.270775	1.54E-06	6.11E-06	4.71654
STAU1	-0.88037	7.94481	-5.27032	1.55E-06	6.12E-06	4.714819
LOC37532	1.020254	7.019447	5.269096	1.55E-06	6.15E-06	4.710257
CDH16	1.168664	7.286688	5.268344	1.56E-06	6.16E-06	4.707445
TEX13A	0.944946	7.030142	5.267265	1.56E-06	6.19E-06	4.70341
AHRR	0.769023	6.962776	5.266624	1.57E-06	6.20E-06	4.701013
FAM19A4	1.205641	7.367349	5.265377	1.57E-06	6.23E-06	4.696349
PPM1F	-1.13045	8.215799	-5.26467	1.58E-06	6.24E-06	4.693713
ACCS	-1.07824	8.648194	-5.26298	1.59E-06	6.28E-06	4.687375
APITD1	1.027379	8.603583	5.26206	1.60E-06	6.30E-06	4.683949
TAGLN	-0.93205	7.891284	-5.25972	1.61E-06	6.36E-06	4.675211
GRM4	1.213465	7.332736	5.257456	1.62E-06	6.41E-06	4.666739
C20orf11	-0.83953	7.284306	-5.25679	1.63E-06	6.42E-06	4.664234
SNORA31	-0.95372	7.498464	-5.2554	1.64E-06	6.46E-06	4.659075
GRN	-0.91838	7.825127	-5.25536	1.64E-06	6.46E-06	4.658914
MAT2A	-1.11554	8.484496	-5.25299	1.65E-06	6.51E-06	4.650045
FALZ	1.293025	8.301968	5.251436	1.66E-06	6.55E-06	4.644249
C13orf30	1.249289	7.184833	5.250233	1.67E-06	6.58E-06	4.639757
LPIN1	-0.82558	7.799723	-5.24995	1.67E-06	6.58E-06	4.638691
SHC4	0.73724	6.93267	5.249218	1.68E-06	6.60E-06	4.635967
MS4A8B	0.908841	7.007445	5.246619	1.69E-06	6.66E-06	4.626262
SCP2	-0.87844	8.566461	-5.24611	1.70E-06	6.67E-06	4.624379
SEC14L2	-0.82957	7.415822	-5.24181	1.72E-06	6.77E-06	4.608318
PMPCA	-1.13807	7.877119	-5.24174	1.72E-06	6.78E-06	4.608048
TATDN3	1.098542	9.109837	5.241541	1.73E-06	6.78E-06	4.607306
MIR1203	1.166192	7.943132	5.24141	1.73E-06	6.78E-06	4.606816
REG1B	1.028132	7.244091	5.238642	1.75E-06	6.85E-06	4.596487
NSDHL	-1.4775	10.02423	-5.23711	1.76E-06	6.88E-06	4.590771
DECR2	-0.96477	7.292106	-5.23658	1.76E-06	6.90E-06	4.588786

AVP	1.01762	7.243918	5.235862	1.76E-06	6.91E-06	4.586114
KRT33A	0.775697	6.798273	5.23471	1.77E-06	6.94E-06	4.581817
LRCH3	-0.91101	8.094163	-5.23429	1.78E-06	6.95E-06	4.580261
PSTK	0.838359	8.329414	5.233203	1.78E-06	6.98E-06	4.576198
BHLHE22	1.070488	7.786373	5.232312	1.79E-06	7.00E-06	4.572875
CTAGE5	0.757079	7.643951	5.231896	1.79E-06	7.01E-06	4.571321
SLC17A5	0.778566	7.69619	5.230048	1.80E-06	7.06E-06	4.564431
CTBP1	-0.7652	8.137409	-5.22913	1.81E-06	7.08E-06	4.561005
PDXK	-1.29836	8.558159	-5.22859	1.81E-06	7.10E-06	4.559007
FKSG30	0.733143	6.924494	5.228066	1.82E-06	7.11E-06	4.55704
MIR146B	0.998216	7.136944	5.226815	1.83E-06	7.14E-06	4.552378
XPNPPEP1	-0.915	8.125977	-5.22645	1.83E-06	7.15E-06	4.551023
PTTG3P	1.278677	8.047597	5.225154	1.84E-06	7.18E-06	4.546186
PDE7B	1.393609	7.591041	5.225118	1.84E-06	7.18E-06	4.54605
SLC35A4	-0.89269	8.69707	-5.21876	1.88E-06	7.35E-06	4.522349
H1FX	-1.0592	8.825333	-5.21863	1.89E-06	7.35E-06	4.521885
TBC1D29	1.17068	7.094962	5.218493	1.89E-06	7.35E-06	4.521363
SRY	1.226767	7.272821	5.217228	1.90E-06	7.39E-06	4.516653
TTC39A	0.854968	6.990394	5.216597	1.90E-06	7.40E-06	4.514302
SGK3	0.735112	9.033228	5.216563	1.90E-06	7.40E-06	4.514174
MGAT3	0.885643	7.039728	5.214491	1.92E-06	7.46E-06	4.506456
PP8961	0.888444	11.86918	5.213365	1.92E-06	7.48E-06	4.502264
DSC3	0.707439	7.035201	5.213307	1.92E-06	7.49E-06	4.50205
AQP9	-1.03902	7.602491	-5.21294	1.93E-06	7.49E-06	4.500699
TCEB3C	1.494497	7.182873	5.210623	1.94E-06	7.56E-06	4.492053
MID1IP1	-0.70124	7.710607	-5.21022	1.95E-06	7.57E-06	4.490553
SEMA3A	1.148791	7.666698	5.209988	1.95E-06	7.57E-06	4.489689
FDFT1	-1.17603	7.996238	-5.20875	1.96E-06	7.60E-06	4.485074
MYH7	0.756421	6.855046	5.208354	1.96E-06	7.61E-06	4.483607
RPL9	-1.32305	9.289718	-5.20768	1.97E-06	7.63E-06	4.48109
C20orf132	0.747969	7.083317	5.207126	1.97E-06	7.64E-06	4.479038
FGGY	-0.70322	7.299636	-5.20608	1.98E-06	7.67E-06	4.475136
LEMD2	-0.81247	8.0238	-5.20543	1.98E-06	7.69E-06	4.472727
RAB3IL1	-1.35667	8.921712	-5.204	1.99E-06	7.73E-06	4.467403
SLC25A11	-0.82427	7.582278	-5.20371	2.00E-06	7.73E-06	4.466307
BAG1	1.022037	7.70175	5.199447	2.03E-06	7.85E-06	4.450466
RAX	0.865721	6.99954	5.19698	2.05E-06	7.92E-06	4.441289
C20orf16C	0.731652	7.512357	5.196338	2.05E-06	7.94E-06	4.438903
PBX1	1.449267	9.594377	5.194723	2.07E-06	7.98E-06	4.432895
NPAS1	-0.77585	7.455667	-5.19402	2.07E-06	8.00E-06	4.430271
HSPB7	1.358576	7.664493	5.192206	2.09E-06	8.05E-06	4.423537
CHST12	1.151841	8.313394	5.191759	2.09E-06	8.06E-06	4.421876
ZNF621	1.374747	9.062308	5.191143	2.09E-06	8.07E-06	4.419585
ACAP3	-0.71184	7.401672	-5.19023	2.10E-06	8.10E-06	4.416192
YIF1A	-1.16144	11.74167	-5.19009	2.10E-06	8.10E-06	4.415674
RPS27A	-1.27868	8.235769	-5.18876	2.11E-06	8.14E-06	4.410718
F9	-1.38735	8.609641	-5.18833	2.12E-06	8.15E-06	4.409128
ATIC	-1.39585	8.525558	-5.18677	2.13E-06	8.19E-06	4.403348
BRUNOL5	0.963157	7.275402	5.185973	2.14E-06	8.21E-06	4.400373
LSM1	-1.04308	7.577102	-5.18551	2.14E-06	8.23E-06	4.398654
MYC	-0.79393	7.42698	-5.1842	2.15E-06	8.26E-06	4.393789
COL1A2	-1.03715	8.269146	-5.18381	2.15E-06	8.27E-06	4.392321
HSPE1	-0.70365	7.555255	-5.18289	2.16E-06	8.30E-06	4.388937
MSTP9	1.130925	7.756788	5.182661	2.16E-06	8.31E-06	4.38807
TYMP	-1.03477	7.899432	-5.1824	2.17E-06	8.31E-06	4.3871
RPL27A	-0.99282	8.136032	-5.182	2.17E-06	8.33E-06	4.385603
BHMT2	-1.063	8.256633	-5.18089	2.18E-06	8.36E-06	4.381488
LOC38915	1.24027	7.119097	5.180306	2.18E-06	8.38E-06	4.379323

AP1S2	-1.21488	7.813093	-5.18	2.19E-06	8.38E-06	4.378201
ZC3H12D	0.996202	7.960602	5.176951	2.21E-06	8.48E-06	4.366863
FCAMR	0.735452	7.593612	5.172411	2.25E-06	8.62E-06	4.350009
HPX	-1.66462	9.93756	-5.17229	2.25E-06	8.62E-06	4.349575
TSLP	1.229809	8.538901	5.170809	2.26E-06	8.66E-06	4.344063
SIDT2	-1.11036	8.23889	-5.16917	2.28E-06	8.71E-06	4.337976
ELFN2	1.24231	7.732573	5.168897	2.28E-06	8.72E-06	4.336971
GBP5	-0.73602	6.991837	-5.1686	2.28E-06	8.72E-06	4.335869
ABO	1.46912	7.886362	5.167979	2.29E-06	8.74E-06	4.333563
TCEAL4	-0.84396	7.809332	-5.16716	2.30E-06	8.77E-06	4.33052
SNORA34	-1.87878	10.32439	-5.16404	2.32E-06	8.86E-06	4.318945
UQCRFS1	-0.78332	7.612509	-5.16294	2.33E-06	8.90E-06	4.314886
GRAMD4	-1.14712	8.578478	-5.16271	2.34E-06	8.90E-06	4.314004
PPP1R15A	-1.40864	8.591737	-5.16174	2.34E-06	8.93E-06	4.310415
MYOM1	-1.0533	8.532688	-5.16138	2.35E-06	8.94E-06	4.309094
ALX4	0.82708	6.838293	5.160238	2.36E-06	8.98E-06	4.304852
SNORA68	-1.09672	8.431621	-5.15973	2.36E-06	8.99E-06	4.302967
EMP1	-0.79849	7.554884	-5.15742	2.38E-06	9.06E-06	4.294414
PTGES3	-0.7502	7.445864	-5.15714	2.39E-06	9.07E-06	4.293376
LOC79112	-1.34355	9.048363	-5.15608	2.40E-06	9.11E-06	4.289433
JAKMIP3	1.293971	7.496656	5.153045	2.42E-06	9.20E-06	4.278189
UCHL3	-0.8198	7.725824	-5.14969	2.46E-06	9.31E-06	4.265749
SLBP	-0.71684	7.781294	-5.1484	2.47E-06	9.36E-06	4.260978
HIST1H2B	-0.75619	7.689799	-5.14648	2.49E-06	9.42E-06	4.253867
LOC73009	1.308096	7.677841	5.146362	2.49E-06	9.42E-06	4.253432
CENPF	1.26211	7.773844	5.145356	2.50E-06	9.45E-06	4.249707
LOC72893	0.944014	10.05556	5.141827	2.53E-06	9.57E-06	4.23664
PRKDC	-0.9923	8.085491	-5.14174	2.53E-06	9.57E-06	4.236326
NMUR2	1.053665	7.127568	5.140452	2.54E-06	9.61E-06	4.231551
IL6	1.122742	7.40767	5.139216	2.56E-06	9.65E-06	4.226976
DCAF10	-0.88372	7.500628	-5.13911	2.56E-06	9.65E-06	4.22659
IL17C	1.0352	7.336393	5.13712	2.58E-06	9.72E-06	4.219219
STARD8	-0.85584	7.863251	-5.13524	2.59E-06	9.78E-06	4.212249
MAGEA2	0.722297	6.891023	5.133533	2.61E-06	9.84E-06	4.205946
FBXO36	0.702812	7.494539	5.13269	2.62E-06	9.87E-06	4.202827
SNORD3D	-1.63932	11.58237	-5.13253	2.62E-06	9.88E-06	4.202246
SLC39A9	-0.77853	7.771146	-5.13233	2.62E-06	9.88E-06	4.20149
SAA2	-1.66909	8.05254	-5.13065	2.64E-06	9.94E-06	4.195269
GAA	-0.76192	8.357889	-5.12833	2.66E-06	1.00E-05	4.186704
C7	-0.94018	7.295842	-5.12716	2.68E-06	1.01E-05	4.182361
ACOT12	-0.9697	8.189746	-5.12665	2.68E-06	1.01E-05	4.180483
C16orf7	-0.73457	7.490856	-5.12373	2.71E-06	1.02E-05	4.169712
PPM1M	-1.08442	10.04541	-5.1234	2.71E-06	1.02E-05	4.168459
UGT1A4	-1.00045	7.830309	-5.1225	2.72E-06	1.02E-05	4.165146
FOSB	-1.49794	8.153512	-5.12247	2.72E-06	1.02E-05	4.165021
IDUA	-0.93658	7.657115	-5.12129	2.74E-06	1.03E-05	4.160687
C22orf32	1.330339	8.559117	5.120745	2.74E-06	1.03E-05	4.158661
SLN	1.181681	7.190379	5.118746	2.76E-06	1.04E-05	4.151277
HLF	-1.07992	8.513687	-5.11752	2.78E-06	1.04E-05	4.146751
FTL	-1.46352	10.80448	-5.11588	2.79E-06	1.05E-05	4.140698
KIAA1324	1.263502	7.462671	5.108465	2.87E-06	1.07E-05	4.113305
RDH12	0.95332	7.421388	5.104255	2.92E-06	1.09E-05	4.097765
HSPH1	-0.72506	7.75419	-5.10281	2.94E-06	1.09E-05	4.092417
SPRR4	1.280183	7.528194	5.10067	2.96E-06	1.10E-05	4.084536
CCL16	-0.87499	7.505999	-5.09979	2.97E-06	1.11E-05	4.081296
TP53BP2	0.808475	11.16344	5.09929	2.98E-06	1.11E-05	4.079446
RASGEF1C	0.754545	6.940419	5.097792	2.99E-06	1.11E-05	4.07392
C20orf24	-0.78848	8.162559	-5.09727	3.00E-06	1.11E-05	4.071992

GUSBL2	0.964009	7.4703	5.097178	3.00E-06	1.11E-05	4.071656
DAZ2	0.909305	7.084768	5.095384	3.02E-06	1.12E-05	4.065041
SNPH	0.893926	6.94992	5.094874	3.03E-06	1.12E-05	4.06316
SH3GL3	1.707303	7.876712	5.091745	3.06E-06	1.13E-05	4.051623
TAS1R3	1.324751	7.390199	5.091036	3.07E-06	1.14E-05	4.049009
TERC	-1.0092	9.034294	-5.09073	3.07E-06	1.14E-05	4.047892
DLST	-1.01909	8.406288	-5.08576	3.13E-06	1.16E-05	4.029577
SSTR5	1.165315	7.166961	5.080422	3.20E-06	1.18E-05	4.009903
AVPI1	-1.01899	9.165058	-5.08016	3.20E-06	1.18E-05	4.008929
AHR	-0.77522	7.645919	-5.07995	3.20E-06	1.18E-05	4.008163
PPP4C	-0.97897	7.961286	-5.07764	3.23E-06	1.19E-05	3.999644
FGF12	0.822921	7.261318	5.076306	3.25E-06	1.20E-05	3.994747
ZBTB7B	-0.74209	7.741839	-5.07395	3.28E-06	1.21E-05	3.986076
FBXO16	0.844688	7.149803	5.073655	3.28E-06	1.21E-05	3.984987
SNORA53	-0.73478	7.225884	-5.07242	3.30E-06	1.21E-05	3.980453
TTBK1	1.34676	7.544045	5.070248	3.32E-06	1.22E-05	3.972449
KATNB1	-0.73294	8.013671	-5.0699	3.33E-06	1.22E-05	3.971153
ZCCHC16	1.125089	7.451821	5.06942	3.33E-06	1.23E-05	3.969404
FOXD3	1.358808	7.183865	5.067543	3.36E-06	1.23E-05	3.962496
WDFY1	-0.94013	7.689084	-5.06629	3.37E-06	1.24E-05	3.957897
PPP1R7	-0.84507	7.528781	-5.06582	3.38E-06	1.24E-05	3.956146
C7orf28A	1.329025	8.586923	5.065024	3.39E-06	1.25E-05	3.953232
FUT6	0.773267	7.408199	5.064355	3.40E-06	1.25E-05	3.950771
RNU2-1	-1.23225	9.79308	-5.06365	3.41E-06	1.25E-05	3.948169
VGf	1.070191	7.148122	5.061253	3.44E-06	1.26E-05	3.939363
LAIR1	0.88215	10.96426	5.061173	3.44E-06	1.26E-05	3.939071
MFN2	-0.73171	7.125327	-5.05947	3.46E-06	1.27E-05	3.932816
COX8A	-1.11664	7.961016	-5.05522	3.52E-06	1.29E-05	3.917173
FOXA3	-0.94393	7.786956	-5.05509	3.52E-06	1.29E-05	3.916708
ADAM11	1.447654	7.60286	5.054392	3.53E-06	1.29E-05	3.914144
CLEC4F	1.650806	8.206297	5.054275	3.53E-06	1.29E-05	3.913715
ANKRD45	0.756872	7.01699	5.053824	3.54E-06	1.29E-05	3.912057
CDC47	0.714046	7.313669	5.053422	3.54E-06	1.30E-05	3.910581
CFHR5	-0.96866	7.536046	-5.05113	3.57E-06	1.31E-05	3.902167
ECHS1	-1.60005	9.519553	-5.0511	3.57E-06	1.31E-05	3.902062
MAB21L2	1.263841	8.060108	5.050799	3.58E-06	1.31E-05	3.900944
SSX1	1.089608	7.574879	5.049463	3.60E-06	1.31E-05	3.896037
OR56B4	1.460743	7.453316	5.047265	3.63E-06	1.32E-05	3.887964
FLJ43763	1.051552	7.018537	5.0457	3.65E-06	1.33E-05	3.882221
CNTF	0.747974	7.137577	5.045328	3.65E-06	1.33E-05	3.880854
MIR210	1.415065	8.121614	5.044237	3.67E-06	1.34E-05	3.876847
PRDM16	0.761231	7.189923	5.043481	3.68E-06	1.34E-05	3.874073
PLD6	-0.75766	7.867759	-5.04282	3.69E-06	1.34E-05	3.871646
OR2V2	1.058806	7.063123	5.042413	3.69E-06	1.35E-05	3.870152
SNORD46	-0.98496	11.50575	-5.0415	3.71E-06	1.35E-05	3.866806
PCDHA13	1.298892	7.126544	5.038525	3.75E-06	1.36E-05	3.855884
RBMS1	0.740187	7.967887	5.035544	3.79E-06	1.38E-05	3.844945
PSME4	-0.7919	7.859119	-5.0341	3.81E-06	1.39E-05	3.839651
LGALS7B	0.997434	6.995742	5.033799	3.82E-06	1.39E-05	3.838545
SH3GL1	-1.22086	8.770398	-5.03117	3.85E-06	1.40E-05	3.828917
TRAPPC5	-0.76569	8.246978	-5.02967	3.88E-06	1.41E-05	3.823406
GAGE12B	1.628063	8.03278	5.026316	3.93E-06	1.43E-05	3.811108
C13orf16	0.802256	7.080656	5.024157	3.96E-06	1.44E-05	3.803195
KRBA1	-1.10628	8.551265	-5.02348	3.97E-06	1.44E-05	3.800721
PANX3	1.106044	7.327795	5.021325	4.00E-06	1.45E-05	3.79282
CCDC105	0.877076	6.913187	5.021007	4.01E-06	1.45E-05	3.791653
CELSR3	-0.72036	7.686393	-5.01915	4.03E-06	1.46E-05	3.784844
CHD2	-0.73267	7.415711	-5.01345	4.12E-06	1.49E-05	3.763992

MT2A	-1.14224	10.77495	-5.01303	4.13E-06	1.49E-05	3.762441
SNORD65	-1.5054	9.104328	-5.01205	4.14E-06	1.50E-05	3.758862
MIR596	0.724986	6.759743	5.004003	4.27E-06	1.54E-05	3.729404
VTRNA1-2	-1.51108	9.478186	-5.00209	4.30E-06	1.55E-05	3.722391
SCARNA21	-1.25255	9.258585	-5.00186	4.31E-06	1.55E-05	3.721549
UPK2	1.101719	7.291959	5.001604	4.31E-06	1.55E-05	3.720631
LHX5	0.789398	7.041654	4.99874	4.36E-06	1.57E-05	3.710156
MAT2B	-0.74193	8.384007	-4.99822	4.37E-06	1.57E-05	3.708243
LYL1	-0.90671	7.967566	-4.99785	4.37E-06	1.57E-05	3.706916
C2orf62	1.240898	7.181448	4.996989	4.39E-06	1.58E-05	3.703756
TREX1	0.798253	7.469186	4.995559	4.41E-06	1.59E-05	3.698529
TYRO3	1.349531	8.140677	4.995484	4.41E-06	1.59E-05	3.698252
STMN1	0.849449	7.199741	4.993468	4.45E-06	1.60E-05	3.690887
SNORA62	-0.79841	7.79128	-4.99215	4.47E-06	1.60E-05	3.686082
CACNG7	0.865398	6.939875	4.991252	4.48E-06	1.61E-05	3.682787
BRSK1	1.540963	9.374812	4.990104	4.50E-06	1.62E-05	3.678592
LY6G6D	0.983405	6.911216	4.98927	4.52E-06	1.62E-05	3.675546
ETNK2	-0.74862	7.817229	-4.98922	4.52E-06	1.62E-05	3.675357
RNF20	-0.75905	7.610883	-4.98691	4.56E-06	1.63E-05	3.666909
USE1	-1.40538	8.154355	-4.9859	4.57E-06	1.64E-05	3.663226
LOC92017	0.875691	7.6411	4.984621	4.60E-06	1.65E-05	3.658567
ITIH2	-1.36266	9.059943	-4.98143	4.65E-06	1.66E-05	3.646922
KIAA1609	0.81784	7.230474	4.979239	4.69E-06	1.68E-05	3.638918
EIF2B5	-0.81234	7.365385	-4.97842	4.71E-06	1.68E-05	3.635925
PRIMA1	0.848159	7.019042	4.975684	4.75E-06	1.70E-05	3.625945
RRP7B	1.021966	11.37157	4.975208	4.76E-06	1.70E-05	3.624208
PYY	1.225866	7.3271	4.975004	4.77E-06	1.70E-05	3.623465
DNASE1L3	-1.05867	7.333099	-4.97486	4.77E-06	1.70E-05	3.622956
C1orf65	0.751295	6.876417	4.974485	4.78E-06	1.70E-05	3.62157
UMOD	0.779057	6.899175	4.974403	4.78E-06	1.70E-05	3.621272
NDUFS2	-1.00971	9.307715	-4.97271	4.81E-06	1.71E-05	3.615091
CYP8B1	-1.81538	10.47254	-4.96993	4.86E-06	1.73E-05	3.604963
FLJ90650	0.80152	7.099207	4.96973	4.86E-06	1.73E-05	3.604227
LOC92659	1.289924	8.152786	4.969285	4.87E-06	1.73E-05	3.602603
GFOD1	1.138753	8.642251	4.968524	4.88E-06	1.74E-05	3.599828
DEGS2	0.722377	7.006575	4.967154	4.91E-06	1.75E-05	3.594835
SMYD1	0.74578	6.829021	4.965429	4.94E-06	1.76E-05	3.588546
C14orf148	0.703211	7.013847	4.962741	4.99E-06	1.77E-05	3.578748
LSMD1	-1.14465	8.158667	-4.9613	5.02E-06	1.78E-05	3.573508
ATP1B1	-0.75185	8.73997	-4.96115	5.02E-06	1.78E-05	3.572959
CNN1	1.576551	8.549651	4.957936	5.08E-06	1.80E-05	3.561243
ATG2A	-0.83797	7.654158	-4.95688	5.10E-06	1.81E-05	3.557386
ITGAV	-0.9772	7.75811	-4.954	5.16E-06	1.83E-05	3.546916
PLA2G10	0.773041	7.150216	4.953391	5.17E-06	1.83E-05	3.54469
HEBP2	-0.87715	7.507242	-4.95285	5.18E-06	1.84E-05	3.542734
LAMC3	-1.24456	8.106171	-4.95106	5.22E-06	1.85E-05	3.536216
CDC42EP4	-0.87198	8.609833	-4.94659	5.31E-06	1.87E-05	3.519921
TMUB1	-1.46924	8.915002	-4.94511	5.33E-06	1.88E-05	3.514533
KEL	0.900496	7.369352	4.943719	5.36E-06	1.89E-05	3.509489
UBAP2L	-0.75087	8.028077	-4.94362	5.36E-06	1.89E-05	3.509113
SNORD35	-1.73154	9.169943	-4.94275	5.38E-06	1.90E-05	3.505949
GLTSCR2	-1.15248	8.535506	-4.94159	5.41E-06	1.91E-05	3.501757
TEAD4	0.765721	8.324592	4.940898	5.42E-06	1.91E-05	3.499227
DPYSL2	-0.80252	7.510728	-4.93975	5.44E-06	1.92E-05	3.495052
SNORD94	-1.48772	8.784617	-4.93944	5.45E-06	1.92E-05	3.493932
LOC73182	0.759386	6.914489	4.938969	5.46E-06	1.92E-05	3.49221
WNT11	1.01442	7.742636	4.937573	5.49E-06	1.93E-05	3.487137
KCNK4	1.079989	7.269098	4.937029	5.50E-06	1.93E-05	3.485159

ITLN1	0.810953	6.987887	4.932753	5.59E-06	1.96E-05	3.469617
GNG13	0.836154	7.023261	4.932741	5.59E-06	1.96E-05	3.469573
RCL1	-0.79712	7.474843	-4.93232	5.60E-06	1.97E-05	3.468031
SPARC	-0.70022	7.277103	-4.92962	5.65E-06	1.98E-05	3.458248
TNFRSF1B	-0.92346	8.891737	-4.92876	5.67E-06	1.99E-05	3.455106
C20orf46	-0.95512	7.66828	-4.92657	5.72E-06	2.00E-05	3.44717
IKZF4	0.880698	7.729686	4.922037	5.82E-06	2.03E-05	3.430692
PAPOLA	-0.9321	7.510276	-4.91993	5.86E-06	2.05E-05	3.423039
HNF4A	-0.71378	7.822685	-4.919	5.88E-06	2.05E-05	3.419673
KRTAP10-	1.534715	7.586711	4.917844	5.91E-06	2.06E-05	3.415473
BRDT	1.101644	7.112052	4.917014	5.93E-06	2.07E-05	3.412462
HHIPL1	0.717203	6.970375	4.915814	5.96E-06	2.08E-05	3.408106
CCDC123	0.907255	7.37927	4.911487	6.05E-06	2.11E-05	3.392409
SYT1	0.801641	7.400552	4.906165	6.18E-06	2.15E-05	3.373113
CABP7	0.709552	6.976366	4.905974	6.18E-06	2.15E-05	3.372421
SUOX	-0.92221	8.810363	-4.90571	6.19E-06	2.15E-05	3.371476
ABCG4	0.734976	7.17061	4.905651	6.19E-06	2.15E-05	3.37125
ASB12	0.786493	6.916262	4.905397	6.19E-06	2.16E-05	3.37033
MADCAM	0.914367	7.130041	4.904372	6.22E-06	2.16E-05	3.366615
NUP133	0.943995	8.871067	4.900574	6.31E-06	2.19E-05	3.35285
JTB	-1.15797	9.262453	-4.89899	6.34E-06	2.20E-05	3.347117
AASS	-0.96867	7.430977	-4.89792	6.37E-06	2.21E-05	3.343254
GABRA3	0.982808	7.106597	4.896696	6.40E-06	2.22E-05	3.338804
ID3	-0.86523	7.843966	-4.8948	6.44E-06	2.23E-05	3.331922
VEPH1	0.973875	7.265414	4.894225	6.46E-06	2.24E-05	3.329855
C6	-0.98456	9.16761	-4.89359	6.47E-06	2.24E-05	3.327539
TSPY2	1.739362	7.822406	4.893568	6.47E-06	2.24E-05	3.327475
FAM98C	-1.05607	8.486073	-4.89229	6.50E-06	2.25E-05	3.322857
RARRES3	-0.73503	7.685276	-4.88874	6.59E-06	2.28E-05	3.310014
CYP2C8	-0.85866	7.547836	-4.88832	6.60E-06	2.28E-05	3.308466
CREG1	-1.02753	9.019433	-4.88821	6.61E-06	2.28E-05	3.308066
SNORD45	-0.79478	7.467357	-4.88573	6.67E-06	2.30E-05	3.299091
CORO2B	0.704167	7.034071	4.884927	6.69E-06	2.31E-05	3.296202
HSP90AB1	-1.1804	8.011167	-4.87743	6.88E-06	2.37E-05	3.269091
RPS4Y1	-0.83797	7.56142	-4.87742	6.88E-06	2.37E-05	3.269047
FOXRED1	-1.06506	8.436111	-4.87626	6.91E-06	2.38E-05	3.264865
HSZFP36	-1.08178	7.737457	-4.87603	6.91E-06	2.38E-05	3.264047
RNF44	-0.7472	7.909851	-4.8757	6.92E-06	2.38E-05	3.262845
THBD	0.713044	7.103781	4.873489	6.98E-06	2.40E-05	3.254848
AKR1B10	-0.98796	7.26802	-4.87333	6.98E-06	2.40E-05	3.25427
CENTA1	-1.09339	8.217093	-4.87045	7.06E-06	2.42E-05	3.243874
TCTE1	1.03221	7.069528	4.863147	7.25E-06	2.48E-05	3.217493
RGS9BP	0.761059	6.872168	4.860893	7.32E-06	2.50E-05	3.209358
C2orf51	1.147274	7.278074	4.8587	7.38E-06	2.52E-05	3.201445
ZNF687	-0.72745	7.55332	-4.85755	7.41E-06	2.53E-05	3.19729
CHCHD1	-0.71335	7.209351	-4.85728	7.42E-06	2.53E-05	3.196327
DHRS7C	1.237673	7.323734	4.856319	7.44E-06	2.54E-05	3.192853
MFAP2	0.872308	7.511547	4.854797	7.48E-06	2.55E-05	3.187364
BCAT2	-0.70472	8.132851	-4.85275	7.54E-06	2.57E-05	3.179982
MSC	1.509983	8.748601	4.852677	7.54E-06	2.57E-05	3.179718
GABRP	0.731238	7.184424	4.852396	7.55E-06	2.57E-05	3.178702
TCEA3	-0.7817	7.413284	-4.85171	7.57E-06	2.58E-05	3.176242
FMO5	-0.75954	7.658678	-4.84964	7.63E-06	2.60E-05	3.168752
PIGP	-0.7212	8.054009	-4.84917	7.64E-06	2.60E-05	3.167078
CEND1	0.779215	7.062491	4.847791	7.68E-06	2.61E-05	3.162101
C10orf65	-0.93123	7.427065	-4.84666	7.72E-06	2.62E-05	3.158022
MPV17L2	1.035589	7.790911	4.845275	7.76E-06	2.64E-05	3.15303
RPUSD2	-0.86948	8.054664	-4.84354	7.81E-06	2.65E-05	3.146791

ACTN1	-1.1393	11.90504	-4.84012	7.91E-06	2.69E-05	3.13446
RBMX	-1.06338	8.186029	-4.83904	7.94E-06	2.70E-05	3.130583
CLCN5	-0.70863	8.131443	-4.83624	8.02E-06	2.72E-05	3.120472
TRIM7	0.877347	7.234581	4.834689	8.07E-06	2.74E-05	3.114904
FAH	-1.02346	8.11344	-4.83463	8.07E-06	2.74E-05	3.114683
PLEKHM1	0.736633	8.090251	4.833158	8.11E-06	2.75E-05	3.109391
MRGPRD	1.147626	7.229015	4.832347	8.14E-06	2.76E-05	3.106473
LY96	-1.22211	8.350933	-4.832	8.15E-06	2.76E-05	3.105242
GHITM	-1.16071	9.467921	-4.8319	8.15E-06	2.76E-05	3.104852
SNRPF	-0.93471	7.483244	-4.82891	8.24E-06	2.79E-05	3.094092
RBP1	-0.93345	7.92326	-4.82875	8.25E-06	2.79E-05	3.093533
RNU1A3	-1.3048	10.09127	-4.82655	8.32E-06	2.81E-05	3.08562
NAPSA	0.754739	7.081023	4.82571	8.34E-06	2.82E-05	3.082596
FAM176A	-0.73379	7.823439	-4.82544	8.35E-06	2.82E-05	3.081624
FAM71A	1.087411	7.22197	4.824811	8.37E-06	2.83E-05	3.079361
CAPN13	0.934233	7.072838	4.821715	8.47E-06	2.86E-05	3.068229
EFNA2	-1.01343	7.469492	-4.82133	8.48E-06	2.86E-05	3.066852
PPFIBP2	-0.90133	7.893745	-4.82103	8.49E-06	2.87E-05	3.065751
MYT1	0.85655	7.018071	4.82038	8.51E-06	2.87E-05	3.063427
P2RXL1	0.729699	6.886441	4.81946	8.54E-06	2.88E-05	3.06012
ANGEL2	-0.9298	8.185221	-4.81637	8.64E-06	2.91E-05	3.049008
UBXN2A	0.737606	8.843232	4.816268	8.64E-06	2.91E-05	3.048651
IBTK	-0.7264	7.288828	-4.81515	8.68E-06	2.92E-05	3.044623
PSMA6	-1.17251	8.155125	-4.81348	8.73E-06	2.94E-05	3.038643
DLC1	0.952733	8.981416	4.813403	8.73E-06	2.94E-05	3.038357
SNHG3	0.994071	11.51774	4.812678	8.76E-06	2.95E-05	3.035753
FAM64A	1.098312	7.285172	4.812223	8.77E-06	2.95E-05	3.034117
LRP2BP	1.234234	7.472516	4.811874	8.78E-06	2.95E-05	3.032865
CYP2J2	-1.11596	9.284796	-4.80915	8.87E-06	2.98E-05	3.023072
NUP93	-1.03597	7.645469	-4.80823	8.90E-06	2.99E-05	3.019779
TMEM173	-0.80023	8.218349	-4.80748	8.93E-06	3.00E-05	3.017103
ADM	-0.84095	7.793346	-4.80424	9.04E-06	3.03E-05	3.005471
SLC39A5	-0.95994	7.693661	-4.80093	9.15E-06	3.06E-05	2.993561
FLJ10916	-1.22241	8.498786	-4.80049	9.16E-06	3.07E-05	2.992007
JSRP1	-1.0342	7.597046	-4.80003	9.18E-06	3.07E-05	2.990362
COL22A1	0.736176	7.098138	4.799103	9.21E-06	3.08E-05	2.987025
SPRED1	-0.9629	7.542364	-4.79873	9.22E-06	3.09E-05	2.9857
PIN1	-1.1934	9.198509	-4.79506	9.35E-06	3.13E-05	2.972512
TCEB3	-0.7506	7.674246	-4.79191	9.46E-06	3.16E-05	2.961241
PPIL6	0.984096	7.461206	4.790903	9.50E-06	3.17E-05	2.957621
CDY2A	0.800713	6.813795	4.785732	9.68E-06	3.23E-05	2.939092
CWF19L1	-0.79866	7.421778	-4.7764	1.00E-05	3.33E-05	2.905696
PARD6G	0.957643	7.980354	4.776319	1.00E-05	3.33E-05	2.905389
LOC3885C	-1.23496	8.840952	-4.77126	1.02E-05	3.39E-05	2.887274
B3GAT1	0.773285	7.219604	4.769512	1.03E-05	3.41E-05	2.881037
HBB	-0.74211	7.29958	-4.769	1.03E-05	3.42E-05	2.879197
SCARNA1	-1.17537	8.956117	-4.76752	1.04E-05	3.44E-05	2.873898
C7orf28B	-0.70975	7.415022	-4.76303	1.05E-05	3.49E-05	2.857844
REEP5	-1.04824	9.652722	-4.76187	1.06E-05	3.51E-05	2.853715
COL9A2	0.94577	7.354778	4.755503	1.08E-05	3.59E-05	2.830972
NARS	-0.80819	7.366023	-4.75517	1.08E-05	3.59E-05	2.829771
UBB	-0.86657	9.013173	-4.75437	1.09E-05	3.60E-05	2.826918
MFSD1	-0.90819	8.338281	-4.75113	1.10E-05	3.64E-05	2.815345
LOC28317	0.702717	6.979654	4.74994	1.11E-05	3.65E-05	2.811111
LOC2840C	1.033221	7.527996	4.748375	1.11E-05	3.67E-05	2.805526
ARL10	0.747581	7.391135	4.745888	1.12E-05	3.70E-05	2.796652
LECT2	-1.18254	8.036922	-4.74516	1.13E-05	3.71E-05	2.794046
EPO	0.884958	6.976725	4.740857	1.14E-05	3.76E-05	2.778706

EDF1	-0.80044	9.154389	-4.74052	1.14E-05	3.77E-05	2.777492
LOC28501	1.010443	7.535889	4.739888	1.15E-05	3.78E-05	2.775253
CASS4	0.93887	7.777124	4.739318	1.15E-05	3.78E-05	2.77322
CCDC58	-0.83931	8.002449	-4.73821	1.15E-05	3.80E-05	2.769265
JPH1	1.007846	7.671612	4.735831	1.16E-05	3.82E-05	2.760791
DCTN6	-0.90651	7.903756	-4.73266	1.18E-05	3.87E-05	2.749503
KIAA0430	-0.92605	8.058068	-4.73207	1.18E-05	3.87E-05	2.747403
TADA2B	0.896657	8.987865	4.730495	1.19E-05	3.89E-05	2.741778
NPAS4	0.821949	6.968014	4.724259	1.22E-05	3.98E-05	2.719573
TXNDC5	-0.92121	8.958252	-4.72205	1.23E-05	4.01E-05	2.711711
GMFB	-0.8385	7.509766	-4.72202	1.23E-05	4.01E-05	2.711622
TPRX1	1.029524	6.960487	4.719619	1.24E-05	4.04E-05	2.703062
PPP2R2D	-0.74334	8.357618	-4.71854	1.24E-05	4.05E-05	2.699224
GPRIN3	-0.71398	7.311171	-4.71822	1.24E-05	4.06E-05	2.698099
COL4A3	1.207382	7.595609	4.713836	1.26E-05	4.12E-05	2.682494
UPK1A	1.078163	7.7862	4.713392	1.27E-05	4.12E-05	2.680913
HGS	-1.02039	11.7203	-4.71302	1.27E-05	4.13E-05	2.679593
ZNF385A	0.967648	9.189352	4.712887	1.27E-05	4.13E-05	2.679118
LUZP2	0.750427	7.110201	4.711464	1.27E-05	4.15E-05	2.67406
NUDT5	-0.70036	7.333521	-4.70788	1.29E-05	4.20E-05	2.66132
DRP2	0.964009	7.049197	4.707509	1.29E-05	4.21E-05	2.660002
TMEM140	-0.77095	8.449946	-4.70657	1.30E-05	4.22E-05	2.656668
HSPD1	-0.71767	8.569054	-4.7056	1.30E-05	4.23E-05	2.653212
ACAN	1.216	7.141379	4.703982	1.31E-05	4.25E-05	2.647472
ZNF28	0.763729	8.251089	4.702021	1.32E-05	4.28E-05	2.640507
PSAT1	-0.81684	7.473024	-4.69894	1.33E-05	4.33E-05	2.62957
CDKN2D	0.791428	7.68752	4.698655	1.34E-05	4.33E-05	2.628556
PPP1R9B	-0.72478	7.494184	-4.69829	1.34E-05	4.33E-05	2.627257
PFKFB3	-0.90614	7.70333	-4.69705	1.34E-05	4.35E-05	2.62287
POLD4	-0.93474	8.068145	-4.69617	1.35E-05	4.36E-05	2.619747
CDK2AP2	-0.82465	10.15569	-4.69564	1.35E-05	4.37E-05	2.617841
FAM44B	-1.18958	8.580114	-4.69492	1.35E-05	4.38E-05	2.615285
SNX20	0.878871	7.495037	4.694596	1.36E-05	4.38E-05	2.614153
LHPP	-1.11963	8.685456	-4.69342	1.36E-05	4.40E-05	2.609976
UPLP	-0.93651	8.226534	-4.69337	1.36E-05	4.40E-05	2.609784
PIM3	-0.75608	7.588547	-4.69314	1.36E-05	4.40E-05	2.608987
EPHX1	-1.08622	8.198439	-4.69153	1.37E-05	4.43E-05	2.603275
C3orf26	-0.8098	8.063884	-4.68915	1.38E-05	4.46E-05	2.594838
MYH16	1.342587	7.339488	4.688099	1.39E-05	4.48E-05	2.591106
HIGD1A	-0.76483	7.765935	-4.68636	1.40E-05	4.50E-05	2.584929
CYP27A1	-0.72616	7.596127	-4.68537	1.40E-05	4.52E-05	2.581429
ONECUT1	-0.767	8.508032	-4.68452	1.41E-05	4.53E-05	2.578432
LOC14772	0.961986	8.617361	4.684176	1.41E-05	4.54E-05	2.577196
ICOSLG	0.894614	9.628658	4.683261	1.41E-05	4.55E-05	2.573955
KRI1	0.922618	8.919123	4.682104	1.42E-05	4.57E-05	2.569854
SLC16A9	1.67961	8.31793	4.681802	1.42E-05	4.57E-05	2.568784
PEMT	-0.76293	8.88857	-4.67996	1.43E-05	4.60E-05	2.562263
ELP4	1.271241	8.663845	4.679675	1.43E-05	4.60E-05	2.561246
RBP4	-1.43846	9.570494	-4.67872	1.44E-05	4.62E-05	2.557855
SLPI	-1.18901	7.745956	-4.67516	1.46E-05	4.67E-05	2.545259
NDUFB6	-0.85196	7.859911	-4.67413	1.46E-05	4.69E-05	2.541605
PROL1	0.829068	7.231439	4.673768	1.46E-05	4.69E-05	2.540326
ADRB3	0.810439	7.126869	4.673126	1.47E-05	4.71E-05	2.538053
LCE1E	0.705684	6.900047	4.6646	1.51E-05	4.84E-05	2.507886
DNAH1	-1.43276	9.725134	-4.66362	1.52E-05	4.86E-05	2.504431
LOC65036	1.269607	7.677028	4.662877	1.52E-05	4.87E-05	2.50179
ATP6V1G1	-0.72386	7.315311	-4.66244	1.53E-05	4.88E-05	2.500238
NXF3	0.772868	7.242676	4.661779	1.53E-05	4.89E-05	2.497909

UGT1A3	-0.83482	7.960751	-4.66144	1.53E-05	4.89E-05	2.496725
HCG27	1.302031	8.335615	4.660585	1.54E-05	4.91E-05	2.493685
PLSCR3	-0.71352	7.938128	-4.66033	1.54E-05	4.91E-05	2.492774
CCDC56	-1.28816	9.836614	-4.65679	1.56E-05	4.97E-05	2.480268
PRDM4	-0.7311	8.561251	-4.65264	1.58E-05	5.04E-05	2.465593
LASP1	-0.79142	9.170103	-4.65121	1.59E-05	5.06E-05	2.460546
HDAC6	-0.70014	7.365111	-4.65103	1.59E-05	5.07E-05	2.459911
NLRC4	0.968288	7.410135	4.648067	1.61E-05	5.12E-05	2.449462
CYP1A2	-1.51607	8.46498	-4.6472	1.61E-05	5.13E-05	2.446401
GTF2H2B	-0.71261	7.685982	-4.64524	1.63E-05	5.16E-05	2.439498
MRPS30	-0.75586	8.169814	-4.64315	1.64E-05	5.20E-05	2.432101
RGS12	-0.82431	8.478691	-4.64158	1.65E-05	5.22E-05	2.426553
WDR5B	0.944424	7.437381	4.641026	1.65E-05	5.23E-05	2.424609
F10	-1.28201	9.305316	-4.63839	1.67E-05	5.28E-05	2.415326
NEUROG3	0.966726	7.100311	4.635617	1.68E-05	5.33E-05	2.405533
SH2D4A	-0.73486	7.870474	-4.63518	1.69E-05	5.34E-05	2.404011
C1orf117	0.753567	6.883033	4.633867	1.69E-05	5.36E-05	2.399364
CLPTM1	-0.93927	10.07683	-4.63355	1.70E-05	5.37E-05	2.398252
TTC22	0.829621	7.662196	4.632941	1.70E-05	5.38E-05	2.396099
BCL6	-0.83819	7.895303	-4.63285	1.70E-05	5.38E-05	2.395797
PGLYRP2	-1.29017	9.166582	-4.62516	1.75E-05	5.52E-05	2.368674
C9orf71	0.797299	7.013379	4.624795	1.75E-05	5.53E-05	2.3674
KIF7	0.94509	7.902999	4.616424	1.81E-05	5.69E-05	2.337935
PPID	0.96084	11.68709	4.616248	1.81E-05	5.69E-05	2.337316
BBS4	-1.09014	8.782968	-4.61498	1.82E-05	5.71E-05	2.332866
RBPMS2	-1.04144	9.327164	-4.61321	1.83E-05	5.74E-05	2.326637
SLC16A8	0.855582	7.050277	4.609803	1.85E-05	5.81E-05	2.314648
MGC3340	0.719225	6.822006	4.607165	1.87E-05	5.86E-05	2.305376
LOC7286C	1.290891	7.423245	4.605083	1.88E-05	5.90E-05	2.298061
UBXN1	-1.16663	8.53718	-4.60462	1.89E-05	5.91E-05	2.296423
PAK2	-0.84368	8.310526	-4.60214	1.90E-05	5.96E-05	2.287725
KIAA0513	0.796607	7.714231	4.601897	1.90E-05	5.96E-05	2.286868
STK3	-0.83503	7.548583	-4.60106	1.91E-05	5.98E-05	2.283924
RHOT2	-0.83374	7.901691	-4.59832	1.93E-05	6.03E-05	2.274306
ATF2	-0.9401	8.285614	-4.59738	1.94E-05	6.05E-05	2.27102
SH3BP4	-0.70065	8.145617	-4.59641	1.94E-05	6.07E-05	2.267598
LOC92249	-1.23124	8.440083	-4.59267	1.97E-05	6.15E-05	2.254461
UBE2A	-0.71808	7.636237	-4.58923	1.99E-05	6.23E-05	2.2424
SCD	-1.36238	9.127669	-4.58914	2.00E-05	6.23E-05	2.242097
C10orf76	0.847124	7.827328	4.5877	2.01E-05	6.25E-05	2.237038
PIGT	-0.98314	8.543703	-4.58426	2.03E-05	6.33E-05	2.224967
GCGR	-1.55991	8.25957	-4.58355	2.04E-05	6.34E-05	2.222498
SLC6A11	1.727405	9.389381	4.58052	2.06E-05	6.41E-05	2.21187
GPI	-0.7988	9.504183	-4.57638	2.09E-05	6.50E-05	2.197379
PKN3	0.77853	8.80537	4.575966	2.09E-05	6.50E-05	2.195916
LOC73177	1.340105	7.252611	4.573026	2.12E-05	6.57E-05	2.185621
SNRNP40	0.867338	8.723063	4.570039	2.14E-05	6.64E-05	2.175163
RNU11	-1.14202	9.116546	-4.56917	2.15E-05	6.65E-05	2.172126
DDIT4L	1.156212	7.426	4.56764	2.16E-05	6.69E-05	2.16677
HSPB2	0.763373	7.367888	4.567405	2.16E-05	6.69E-05	2.165945
EGLN1	-0.8004	7.938502	-4.56658	2.17E-05	6.71E-05	2.163071
BIRC2	-0.96359	7.655117	-4.56571	2.17E-05	6.72E-05	2.160015
C21orf33	-0.75598	8.078645	-4.5641	2.19E-05	6.76E-05	2.154393
RNU6-1	-0.70841	12.44278	-4.5603	2.22E-05	6.85E-05	2.141086
LSM14A	-1.11795	9.677078	-4.55988	2.22E-05	6.85E-05	2.139636
FBXO10	0.710558	7.499777	4.559723	2.22E-05	6.86E-05	2.13908
KCNN3	0.757895	7.61691	4.558748	2.23E-05	6.88E-05	2.13567
C12orf47	-0.71624	7.550791	-4.55829	2.23E-05	6.89E-05	2.134087

TSGA10	0.74138	7.061899	4.551535	2.29E-05	7.04E-05	2.110468
RASL12	1.371489	8.493896	4.551452	2.29E-05	7.04E-05	2.110179
C1QC	-0.95335	9.779774	-4.55113	2.29E-05	7.05E-05	2.109066
UHMK1	-0.84985	7.520884	-4.55111	2.29E-05	7.05E-05	2.108997
FITM2	0.920902	8.89044	4.54999	2.30E-05	7.07E-05	2.105075
CCBL1	-0.75655	7.537013	-4.54884	2.31E-05	7.10E-05	2.101074
IGFBP4	-0.86893	11.29191	-4.54741	2.32E-05	7.14E-05	2.09606
ZNF764	0.812221	8.075994	4.542762	2.36E-05	7.25E-05	2.079844
HRC	0.714834	7.091568	4.542315	2.37E-05	7.26E-05	2.078286
HMGB1	-0.7202	7.585994	-4.54166	2.37E-05	7.27E-05	2.076017
S100A11	-0.96723	9.797586	-4.53691	2.41E-05	7.39E-05	2.059426
TTYH3	-0.74102	8.26711	-4.53034	2.47E-05	7.55E-05	2.036546
MYO9B	-0.70205	8.173241	-4.52933	2.48E-05	7.57E-05	2.033026
GSN	-0.72624	7.783796	-4.52769	2.49E-05	7.62E-05	2.027318
CSAG3A	1.254677	7.847449	4.525721	2.51E-05	7.66E-05	2.020446
SCGB3A1	0.745495	6.93242	4.523569	2.53E-05	7.72E-05	2.012954
TMEM201	0.913736	8.02873	4.522449	2.54E-05	7.75E-05	2.009056
C9orf140	0.925967	7.429171	4.519842	2.57E-05	7.81E-05	1.999983
NDUFV1	-1.06911	8.144288	-4.5197	2.57E-05	7.81E-05	1.999478
GHR	-1.0584	7.674503	-4.51925	2.57E-05	7.82E-05	1.997932
RNF19A	-0.95618	8.50745	-4.51651	2.60E-05	7.89E-05	1.988379
MTL5	0.772066	7.180838	4.515179	2.61E-05	7.93E-05	1.983762
ARG1	-1.16243	7.689527	-4.51513	2.61E-05	7.93E-05	1.983577
CASP9	0.842687	8.484067	4.513009	2.63E-05	7.98E-05	1.976217
LOC15816	-0.81421	7.697686	-4.51155	2.64E-05	8.02E-05	1.971137
CDKN2C	0.761767	7.858466	4.510341	2.66E-05	8.06E-05	1.966942
FBXO31	-1.05177	9.18008	-4.50952	2.66E-05	8.08E-05	1.964092
CGNL1	-0.94897	8.328956	-4.50838	2.68E-05	8.11E-05	1.96011
FIS1	-0.73574	7.232966	-4.50198	2.74E-05	8.28E-05	1.937886
RDH16	-1.17752	8.7186	-4.49934	2.76E-05	8.36E-05	1.928742
IL6R	-0.72836	7.650504	-4.49866	2.77E-05	8.38E-05	1.926381
NDRG4	0.77166	7.005161	4.496311	2.79E-05	8.44E-05	1.918215
STMN2	1.159143	8.19882	4.493925	2.82E-05	8.50E-05	1.909938
ABCG8	-0.87602	8.02717	-4.49322	2.83E-05	8.52E-05	1.907505
DAPL1	0.83211	6.887095	4.487475	2.89E-05	8.68E-05	1.887572
CSK	-0.86551	8.408104	-4.48465	2.91E-05	8.76E-05	1.877781
P2RX1	0.858757	7.354453	4.48389	2.92E-05	8.78E-05	1.875147
INPPL1	-0.89152	8.088759	-4.48321	2.93E-05	8.80E-05	1.8728
LOC10013	1.256848	8.206554	4.483033	2.93E-05	8.80E-05	1.872176
MTMR2	0.721242	7.590164	4.481607	2.95E-05	8.84E-05	1.867236
HERC2P2	-0.97305	8.462957	-4.48092	2.95E-05	8.86E-05	1.864865
SNORA14	-0.81908	7.854674	-4.47977	2.97E-05	8.90E-05	1.860884
INHBE	-0.80448	7.449879	-4.47787	2.99E-05	8.95E-05	1.854289
PAX5	0.868067	7.136501	4.471166	3.06E-05	9.15E-05	1.831093
KCNIP3	0.736518	7.159355	4.470306	3.07E-05	9.18E-05	1.828117
FAM153C	0.844626	6.961914	4.469225	3.08E-05	9.21E-05	1.824376
SGK	-1.18059	9.088182	-4.4682	3.09E-05	9.24E-05	1.820822
SNORD91	-0.92956	8.079034	-4.46753	3.10E-05	9.26E-05	1.818524
BHLHB2	-1.2052	10.1097	-4.46748	3.10E-05	9.26E-05	1.818345
SAPS1	-0.81191	8.417884	-4.46621	3.12E-05	9.29E-05	1.813941
C20orf103	0.987211	7.316063	4.46578	3.12E-05	9.30E-05	1.812465
GINS3	1.056795	7.767344	4.465068	3.13E-05	9.32E-05	1.810003
SRGN	-1.04902	8.392688	-4.46282	3.15E-05	9.39E-05	1.802245
ETFDH	-0.81615	8.669569	-4.46233	3.16E-05	9.40E-05	1.800541
TTYH1	0.810379	7.137886	4.461821	3.16E-05	9.42E-05	1.798779
LIPC	-0.81901	8.248301	-4.46164	3.17E-05	9.42E-05	1.798144
BRI3	-0.89434	7.866283	-4.45774	3.21E-05	9.55E-05	1.784684
SCARNA6	-1.14902	9.127313	-4.45558	3.24E-05	9.62E-05	1.777208

C6orf105	0.921067	7.089992	4.451434	3.29E-05	9.75E-05	1.762906
C6orf168	0.888164	6.964268	4.451073	3.29E-05	9.76E-05	1.761662
NPIP	0.712647	8.417586	4.450294	3.30E-05	9.79E-05	1.758973
CIDEB	-0.8313	9.210948	-4.44223	3.40E-05	0.000101	1.731165
KRT33B	0.72293	6.877774	4.440872	3.41E-05	0.000101	1.726476
PGM1	-0.82505	8.262535	-4.43975	3.43E-05	0.000101	1.722604
C16orf93	0.828924	7.91385	4.438861	3.44E-05	0.000102	1.719544
NUBP1	-0.74033	8.275576	-4.43629	3.47E-05	0.000103	1.710691
KCTD14	0.853766	7.40114	4.435879	3.47E-05	0.000103	1.709271
KIF24	0.703874	6.927798	4.434493	3.49E-05	0.000103	1.704496
UBE2M	-0.7661	9.375247	-4.43226	3.52E-05	0.000104	1.69679
ZNF70	0.802344	7.224439	4.432234	3.52E-05	0.000104	1.696718
ATP5G1	-0.7107	8.728964	-4.42617	3.60E-05	0.000106	1.675828
FAM155B	0.959584	7.300206	4.425857	3.60E-05	0.000106	1.674769
MYBPH	1.289488	8.00878	4.424458	3.62E-05	0.000107	1.669954
SPC24	0.907649	10.04046	4.418931	3.69E-05	0.000109	1.650949
MRPL41	-0.93065	8.959928	-4.41786	3.71E-05	0.000109	1.647259
APOC4	-1.26299	8.781921	-4.41706	3.72E-05	0.000109	1.644523
TLX1	0.938685	7.955282	4.416541	3.72E-05	0.000109	1.642733
GFPT2	0.859814	7.129005	4.411957	3.79E-05	0.000111	1.626982
ZFP14	0.855501	8.47877	4.409459	3.82E-05	0.000112	1.618404
FAM193B	-0.74648	8.68938	-4.40285	3.91E-05	0.000114	1.595727
SNAPC4	-1.47289	9.12836	-4.40166	3.93E-05	0.000115	1.591629
C8orf4	-1.02745	8.409585	-4.39843	3.97E-05	0.000116	1.580549
MAPK13	1.305965	8.425866	4.396606	4.00E-05	0.000117	1.574309
ESPN	-1.10073	11.1085	-4.39619	4.00E-05	0.000117	1.572877
GTF3A	-0.98898	8.10084	-4.38694	4.14E-05	0.000121	1.541187
CRYAA	-0.81418	7.401787	-4.38577	4.16E-05	0.000121	1.537182
C20orf52	-0.9595	7.923994	-4.38256	4.20E-05	0.000122	1.526197
ANKRD57	-1.37589	8.479903	-4.37883	4.26E-05	0.000124	1.513441
SNORD83	-1.53074	10.61077	-4.3773	4.28E-05	0.000124	1.508197
HNRNPH1	-0.79044	8.323989	-4.37684	4.29E-05	0.000125	1.506613
SNAR-I	1.049196	7.098675	4.37425	4.33E-05	0.000126	1.497772
JAM3	-0.73327	7.756076	-4.37424	4.33E-05	0.000126	1.497748
PSMB3	-1.09579	9.829581	-4.3699	4.40E-05	0.000127	1.482898
C17orf65	0.987046	7.509785	4.368312	4.42E-05	0.000128	1.477483
SGCA	1.026503	7.878939	4.368295	4.42E-05	0.000128	1.477422
FLJ44653	0.80594	6.986573	4.367133	4.44E-05	0.000129	1.473453
PRDX6	-0.99039	8.055075	-4.36547	4.47E-05	0.000129	1.467779
FH	-1.29841	9.739339	-4.36429	4.49E-05	0.00013	1.463732
KIF21B	0.827344	7.708827	4.364181	4.49E-05	0.00013	1.463373
PSPN	0.792237	6.871379	4.364165	4.49E-05	0.00013	1.463319
LOC55908	-0.82426	7.994117	-4.36208	4.52E-05	0.000131	1.456202
CFL2	-0.73409	7.760098	-4.36187	4.53E-05	0.000131	1.455484
FEM1A	-0.97733	8.774989	-4.36161	4.53E-05	0.000131	1.454592
AGMAT	-0.93277	7.836825	-4.35984	4.56E-05	0.000132	1.448557
CRP	-1.57157	8.689964	-4.3597	4.56E-05	0.000132	1.448066
AFMID	0.756822	8.74799	4.359695	4.56E-05	0.000132	1.448061
C1QTNF9I	0.82911	7.1617	4.358753	4.58E-05	0.000132	1.444849
RAB17	-1.30668	9.078918	-4.35842	4.58E-05	0.000132	1.443701
STOML2	-1.15634	9.912077	-4.35282	4.67E-05	0.000135	1.424626
UBE1DC1	0.728784	8.84876	4.352273	4.68E-05	0.000135	1.422749
PCNP	-0.96773	9.161599	-4.35212	4.69E-05	0.000135	1.422217
HLA-DRB1	-1.0535	7.304468	-4.35188	4.69E-05	0.000135	1.42142
PPP1R1B	1.060324	7.476861	4.350109	4.72E-05	0.000136	1.415372
MAFA	1.23095	7.425133	4.349901	4.72E-05	0.000136	1.414664
AMT	-1.00985	8.388028	-4.34883	4.74E-05	0.000136	1.410999
RUNX3	0.854802	7.840809	4.34868	4.74E-05	0.000136	1.410502

FMNL3	0.869162	8.716318	4.345828	4.79E-05	0.000137	1.400787
EBP	-0.94628	8.482687	-4.34547	4.80E-05	0.000138	1.39956
SDC4	-0.77032	7.494194	-4.34431	4.82E-05	0.000138	1.395601
C2orf89	1.071056	8.097742	4.343919	4.83E-05	0.000138	1.394282
C1orf85	-0.97295	7.796663	-4.34078	4.88E-05	0.00014	1.38358
CCBP2	-1.0555	8.581402	-4.3377	4.93E-05	0.000141	1.373119
EIF2S2	0.787744	7.806521	4.337067	4.94E-05	0.000141	1.370959
REEP6	-1.0359	8.252825	-4.33393	5.00E-05	0.000143	1.360274
NECAB3	-0.75097	7.856005	-4.3324	5.03E-05	0.000143	1.355077
TMBIM4	-0.72453	7.752119	-4.33215	5.03E-05	0.000144	1.354248
SCML4	1.112266	7.884251	4.331344	5.05E-05	0.000144	1.351497
HEY2	-0.95473	7.935809	-4.33099	5.05E-05	0.000144	1.350303
C20orf54	1.108397	7.60512	4.327671	5.11E-05	0.000146	1.339009
GALNT11	-0.74472	7.590353	-4.32708	5.12E-05	0.000146	1.336998
RASL11B	0.78239	7.545739	4.326803	5.13E-05	0.000146	1.33606
ACR	1.276715	8.203833	4.326081	5.14E-05	0.000146	1.333607
TRAPPC3	-1.53504	8.98824	-4.32531	5.15E-05	0.000147	1.330973
RUNDC3B	1.231662	9.318157	4.323927	5.18E-05	0.000147	1.326291
YIPF5	0.750439	7.369947	4.323733	5.18E-05	0.000148	1.325633
ANP32B	-1.27115	8.364854	-4.32123	5.23E-05	0.000149	1.317131
TTY23	0.930465	7.069722	4.315584	5.34E-05	0.000151	1.297967
C21orf129	1.215019	7.625439	4.314389	5.36E-05	0.000152	1.293914
SNORA11	-0.919	7.898056	-4.31386	5.37E-05	0.000152	1.292135
ASPG	0.968078	8.473526	4.312884	5.39E-05	0.000153	1.28881
CACYBP	0.773543	8.328166	4.31114	5.42E-05	0.000154	1.282894
STK38	-1.05814	8.520028	-4.30206	5.60E-05	0.000158	1.252106
Gcom1	0.723998	7.355909	4.300399	5.63E-05	0.000159	1.246496
POLR1A	0.744666	8.257359	4.300162	5.63E-05	0.000159	1.245694
CBFA2T3	0.752549	7.538719	4.300156	5.63E-05	0.000159	1.245676
TMEM176	-1.49176	9.019065	-4.29762	5.69E-05	0.000161	1.237105
BAI2	0.756505	6.981683	4.296423	5.71E-05	0.000161	1.233037
TRAIP	0.82	7.404536	4.294837	5.74E-05	0.000162	1.227668
MFAP4	-0.99885	8.379237	-4.29359	5.77E-05	0.000163	1.223458
MIR612	-1.14779	9.60676	-4.28842	5.87E-05	0.000165	1.205954
LOC44015	1.115857	10.11721	4.287001	5.90E-05	0.000166	1.201169
MAF1	-0.894	8.394843	-4.2833	5.98E-05	0.000168	1.188671
GSTT2	0.832555	7.338492	4.282766	5.99E-05	0.000168	1.186858
CTH	-0.78051	7.461584	-4.27819	6.09E-05	0.000171	1.17141
RRN3P2	1.072483	7.881316	4.275672	6.14E-05	0.000172	1.162903
SNAI3	0.78477	7.147792	4.26761	6.32E-05	0.000177	1.135707
P15RS	-0.89004	7.609124	-4.26724	6.33E-05	0.000177	1.134459
CPSF4	-1.28478	9.406361	-4.26473	6.39E-05	0.000179	1.125985
ALPK2	-1.08122	8.376279	-4.25957	6.50E-05	0.000182	1.108625
TFR2	-0.87718	10.4714	-4.25867	6.52E-05	0.000182	1.105571
SLC22A14	0.74466	7.070187	4.255702	6.59E-05	0.000184	1.095591
CPLX1	1.041651	9.751269	4.252271	6.67E-05	0.000186	1.084042
NDUFB11	-1.11796	8.815935	-4.25009	6.72E-05	0.000187	1.076702
ADSSL1	0.733138	7.987098	4.248262	6.77E-05	0.000188	1.070556
DUSP19	0.743905	7.645716	4.245303	6.84E-05	0.00019	1.06061
ARIH2	-0.7032	7.783322	-4.24363	6.88E-05	0.000191	1.054982
FAM39DP	0.738239	9.219179	4.242778	6.90E-05	0.000191	1.052121
FLNC	-1.02205	7.491205	-4.23922	6.99E-05	0.000193	1.040166
FLJ39827	-0.73678	7.854908	-4.23601	7.06E-05	0.000195	1.029377
KIAA2010	-0.84697	8.587952	-4.2357	7.07E-05	0.000196	1.028337
CYP2R1	0.703946	7.616326	4.234498	7.10E-05	0.000196	1.024316
FOXC1	1.030338	8.314666	4.234043	7.11E-05	0.000197	1.022789
C14orf178	0.816174	7.152771	4.233984	7.11E-05	0.000197	1.02259
XYLT1	-0.92936	7.356715	-4.23223	7.16E-05	0.000198	1.016688

G6PC	-0.94262	9.844543	-4.23086	7.19E-05	0.000199	1.012109
KLHDC7A	0.944772	7.364572	4.23013	7.21E-05	0.000199	1.009657
LRRC32	-1.06409	8.826096	-4.22994	7.22E-05	0.000199	1.009017
C19orf70	-0.73901	8.567584	-4.22821	7.26E-05	0.0002	1.003225
GBP7	-0.79999	7.720415	-4.22424	7.36E-05	0.000203	0.989892
KIF1B	-0.73805	8.405992	-4.22394	7.37E-05	0.000203	0.988887
C8A	-1.28759	8.738772	-4.22321	7.39E-05	0.000204	0.986466
LOC72803	-0.82554	8.452729	-4.22075	7.45E-05	0.000205	0.978196
DNM1	0.980133	8.328394	4.219594	7.48E-05	0.000206	0.974341
ETV6	0.925224	9.992885	4.212834	7.66E-05	0.000211	0.951705
BEST4	0.783742	7.159929	4.208915	7.77E-05	0.000213	0.938593
ITPKA	-0.72089	7.490285	-4.20735	7.81E-05	0.000214	0.933358
SNORA37	-1.32507	9.468698	-4.20696	7.82E-05	0.000215	0.93206
CRYBB2	0.994617	8.180468	4.205902	7.85E-05	0.000215	0.928517
LOC72923	0.964153	7.923324	4.205557	7.86E-05	0.000216	0.927363
BLCAP	-0.78968	7.819493	-4.20479	7.88E-05	0.000216	0.924795
MIR1180	0.769678	6.865013	4.199018	8.04E-05	0.00022	0.905513
CBWD3	1.417072	9.013869	4.196525	8.11E-05	0.000222	0.897186
EP300	-0.82987	8.521574	-4.19461	8.17E-05	0.000223	0.890804
SNORA42	-1.25206	9.758843	-4.19163	8.25E-05	0.000225	0.880834
IGF2BP2	1.318542	9.921718	4.189825	8.30E-05	0.000227	0.874826
LOC44092	1.04115	8.73192	4.18954	8.31E-05	0.000227	0.873875
ADAMTS2	-0.7628	7.966875	-4.18953	8.31E-05	0.000227	0.873847
MGRN1	-0.70176	8.942579	-4.17909	8.62E-05	0.000234	0.839049
SPOCK1	0.867264	7.588824	4.178917	8.63E-05	0.000234	0.838464
RAB33B	-0.70246	7.187338	-4.17372	8.78E-05	0.000239	0.821158
ODZ2	1.166654	7.798332	4.172959	8.81E-05	0.000239	0.818625
CCT2	-0.72675	8.511313	-4.1705	8.88E-05	0.000241	0.81043
C6orf154	0.764711	7.190074	4.166345	9.01E-05	0.000244	0.796624
FLJ46347	0.86289	6.977839	4.163006	9.12E-05	0.000247	0.785523
KIF3C	0.743787	7.057737	4.162422	9.14E-05	0.000247	0.783584
USP54	0.979155	8.053157	4.159876	9.22E-05	0.000249	0.775122
MX1	-1.2972	11.37516	-4.15964	9.23E-05	0.000249	0.774334
MRPL14	-0.93838	8.594578	-4.15927	9.24E-05	0.000249	0.77311
KCNG2	0.916143	7.102032	4.158703	9.26E-05	0.00025	0.771226
ATP6V1E2	0.881025	7.589041	4.157851	9.28E-05	0.00025	0.768396
TUBB	-0.90957	8.276792	-4.15162	9.49E-05	0.000256	0.74771
KLHL35	0.730704	7.324744	4.150852	9.51E-05	0.000256	0.745162
SH2D3A	0.913352	7.245169	4.148713	9.58E-05	0.000258	0.738068
UNC13A	0.702563	7.169328	4.140405	9.86E-05	0.000265	0.710528
CAPN12	-0.83501	8.377519	-4.13885	9.92E-05	0.000266	0.705381
PGLS	-0.75143	8.521597	-4.13835	9.93E-05	0.000266	0.703736
ORM2	-1.2377	9.730823	-4.13729	9.97E-05	0.000267	0.700201
GSTM2	-1.31081	7.989682	-4.13587	0.0001	0.000268	0.695517
TMEM85	-0.80991	7.67516	-4.13561	0.0001	0.000268	0.694659
MIR92B	0.86856	7.147987	4.135295	0.0001	0.000269	0.693604
ZYG11A	1.263833	8.305851	4.134228	0.000101	0.00027	0.690074
RNF31	1.037516	9.149339	4.126592	0.000103	0.000276	0.664812
NUPR1	-1.10449	10.02352	-4.12578	0.000104	0.000277	0.662123
DKFZp564	1.617789	7.939436	4.1219	0.000105	0.00028	0.649304
BRD4	-0.88012	8.529266	-4.12137	0.000105	0.00028	0.647558
FOXC2	0.928763	7.639953	4.121046	0.000105	0.000281	0.646482
C20orf118	0.871515	7.178562	4.120704	0.000106	0.000281	0.645353
ATP5A1	-0.82638	9.041758	-4.11979	0.000106	0.000282	0.642342
TAOK1	-0.73734	8.319897	-4.1184	0.000106	0.000283	0.637735
ADAMTS1	-0.76792	7.17301	-4.11646	0.000107	0.000285	0.631344
LCN8	0.874126	6.829975	4.114755	0.000108	0.000286	0.625708
TIMM10	-1.15465	8.413158	-4.11183	0.000109	0.000289	0.616055

NNMT	-1.28171	8.227177	-4.10751	0.000111	0.000293	0.60181
SFRP4	0.86493	8.01774	4.107022	0.000111	0.000293	0.600199
ORC1L	0.91527	7.17593	4.104385	0.000112	0.000296	0.591505
ARPC1A	-0.87772	8.716132	-4.10166	0.000113	0.000298	0.582539
UGT2B10	-0.82378	8.333734	-4.09829	0.000114	0.000301	0.571416
CXCR4	-0.98976	8.531272	-4.09698	0.000115	0.000303	0.567111
LCNL1	0.721035	7.06695	4.096241	0.000115	0.000303	0.56468
ITLN2	0.873666	7.720582	4.092253	0.000117	0.000307	0.551555
TMSL3	-0.82613	7.987279	-4.09023	0.000117	0.000309	0.544903
TXNDC12	-0.77269	7.633402	-4.08958	0.000118	0.00031	0.542755
TRIP6	-1.23449	8.627833	-4.08779	0.000118	0.000311	0.536867
SFTA1P	0.77865	7.19138	4.085682	0.000119	0.000313	0.529947
LPIN2	-0.83742	8.293217	-4.08527	0.000119	0.000314	0.528583
RBM15	-1.51639	9.63858	-4.08434	0.00012	0.000314	0.525535
SEMA6D	0.804802	7.37973	4.08393	0.00012	0.000315	0.524189
MIR874	1.39764	7.923218	4.082734	0.00012	0.000316	0.52026
EFR3A	-1.04639	8.194365	-4.0821	0.000121	0.000317	0.518191
CD180	0.776409	7.851133	4.077531	0.000123	0.000321	0.503172
WNT7A	1.322632	7.552323	4.075486	0.000123	0.000323	0.496461
F5	-0.84651	7.85018	-4.07383	0.000124	0.000325	0.491035
RPL30	-1.11068	9.5909	-4.0738	0.000124	0.000325	0.490926
COPE	-0.85249	7.805172	-4.06725	0.000127	0.000332	0.469455
MIR937	1.478099	8.83137	4.065557	0.000128	0.000333	0.463898
LOC4923C	0.801207	7.071541	4.065481	0.000128	0.000333	0.463649
HMGCL	-1.11566	9.74499	-4.06226	0.000129	0.000337	0.453089
MX2	0.868486	8.002183	4.062054	0.000129	0.000337	0.452422
YWHAQ	-0.73867	8.177897	-4.05943	0.00013	0.00034	0.443821
MTSS1L	-0.71106	8.79442	-4.05785	0.000131	0.000341	0.438646
CA4	0.983086	7.754872	4.056678	0.000132	0.000343	0.43482
POMT2	0.745384	8.388193	4.054765	0.000133	0.000345	0.428561
FBLN1	0.754023	8.237174	4.052228	0.000134	0.000348	0.42026
SDCCAG1	-0.74877	7.821203	-4.04611	0.000137	0.000354	0.400273
PPCDC	0.717925	7.139108	4.045072	0.000137	0.000355	0.396869
ERAL1	-0.84308	10.74875	-4.04237	0.000138	0.000359	0.388036
ZFP3	0.986939	7.741641	4.038729	0.00014	0.000363	0.376155
C1QTNF4	0.794516	6.843329	4.032871	0.000143	0.000369	0.357044
ROD1	-0.71411	8.849735	-4.0291	0.000145	0.000374	0.344764
FAM71E1	0.744417	7.203789	4.027874	0.000145	0.000375	0.340754
RGS5	-0.70233	8.507792	-4.02474	0.000147	0.000379	0.330542
LOC5951C	-0.97223	7.969631	-4.01845	0.00015	0.000387	0.310051
SNORD10	-0.88203	7.564065	-4.01836	0.00015	0.000387	0.309775
LOC88523	-0.8469	7.936658	-4.01692	0.000151	0.000388	0.305095
AHCTF1	0.737679	8.753614	4.013489	0.000153	0.000393	0.293928
ZNF546	0.70163	7.154583	4.013199	0.000153	0.000393	0.292985
PCDHGA2	1.006601	7.470603	4.013017	0.000153	0.000393	0.292392
CYP26B1	1.116863	7.506382	4.012922	0.000153	0.000393	0.292085
HEBP1	-1.09029	8.771581	-4.01242	0.000153	0.000394	0.29044
FAM110B	0.844678	8.000835	4.009868	0.000155	0.000397	0.282156
SNORD88	-0.77263	7.894455	-4.00429	0.000158	0.000404	0.264047
RFP	-0.73299	8.427379	-4.00426	0.000158	0.000404	0.263927
MYBPHL	0.727912	7.116658	4.001154	0.000159	0.000408	0.253858
PNKD	-0.73594	8.826801	-4.00087	0.000159	0.000408	0.252922
MAPKAPK	-1.09358	8.717964	-4.00061	0.00016	0.000408	0.252079
CLCN4	0.705918	7.514715	3.997283	0.000161	0.000413	0.241297
C15orf42	0.708056	7.110895	3.995531	0.000162	0.000415	0.235617
SURF4	-0.88789	8.406413	-3.99372	0.000163	0.000417	0.229728
FLJ44005	0.700251	7.024029	3.991231	0.000165	0.00042	0.221676
AMACR	-0.70552	7.777122	-3.99006	0.000165	0.000422	0.21788

KIAA0251	-0.84391	9.756589	-3.98933	0.000166	0.000423	0.215518
ZNF775	0.75431	7.475545	3.984439	0.000169	0.000429	0.199678
SNORD55	-1.3947	10.92476	-3.98232	0.00017	0.000432	0.192807
RNU1-5	-0.87304	12.47211	-3.98015	0.000171	0.000435	0.185787
SNORA10	-0.78312	11.40234	-3.97954	0.000171	0.000436	0.183823
HLA-A29..	-1.62593	8.92829	-3.97854	0.000172	0.000437	0.180576
BTA1F1	-0.81734	7.634872	-3.97503	0.000174	0.000442	0.169256
C19orf23	1.060714	8.405246	3.973941	0.000175	0.000444	0.165721
ISOC2	-0.76968	7.820999	-3.97274	0.000175	0.000445	0.161832
C2orf34	0.980379	8.857888	3.972286	0.000176	0.000446	0.160373
NUDT18	0.89119	8.014071	3.969173	0.000178	0.00045	0.150317
TIMM17B	-0.94152	10.00736	-3.96894	0.000178	0.00045	0.149577
FSTL4	0.729655	7.078044	3.968369	0.000178	0.000451	0.147723
DCAF12L2	0.937139	7.039929	3.966454	0.000179	0.000453	0.141538
EIF1	-0.73745	7.84875	-3.96602	0.00018	0.000454	0.140122
DYNC1LI2	-0.8999	8.779555	-3.96551	0.00018	0.000455	0.138498
RALGPS1	0.725234	7.801576	3.965476	0.00018	0.000455	0.138382
CEACAM2	0.708284	7.362152	3.961783	0.000182	0.00046	0.126465
POU5F1P1	0.949288	7.173411	3.960634	0.000183	0.000462	0.12276
ABCA2	0.745265	7.389957	3.959217	0.000184	0.000464	0.118189
RGS2	-0.72079	7.162055	-3.95715	0.000185	0.000466	0.111518
BHMT	-1.41911	10.06164	-3.95366	0.000187	0.000472	0.100276
MTHFSD	0.706425	7.635553	3.951743	0.000188	0.000474	0.094102
LOC73001	0.751614	7.075551	3.95154	0.000189	0.000475	0.09345
EDNRA	-1.13468	8.454253	-3.94985	0.00019	0.000477	0.088018
HTRA1	-0.85247	8.862374	-3.94763	0.000191	0.00048	0.080853
SELL	0.98851	8.073745	3.946761	0.000192	0.000481	0.078064
MT1F	-0.78837	7.493398	-3.9442	0.000193	0.000485	0.069818
HRIHFB21	-1.00647	7.66009	-3.94417	0.000193	0.000485	0.069738
ISLR	0.943811	8.049756	3.940455	0.000196	0.00049	0.057779
IGSF21	1.165863	8.377316	3.936394	0.000198	0.000497	0.044729
NDUFS3	-1.13772	9.698488	-3.93335	0.000201	0.000501	0.034945
SNORA60	-1.39453	9.410811	-3.93211	0.000201	0.000503	0.03097
DCTN2	-1.17444	8.352376	-3.92383	0.000207	0.000516	0.004403
FNBP1	-0.86239	8.229865	-3.92173	0.000209	0.00052	-0.00233
GNG7	0.837307	8.161535	3.921228	0.000209	0.00052	-0.00394
GNAS	-0.71753	8.818084	-3.92061	0.000209	0.000521	-0.00593
MRAP	0.80675	7.420912	3.917365	0.000212	0.000527	-0.01632
C17orf97	0.745908	8.373296	3.916984	0.000212	0.000527	-0.01754
C6orf15	0.84528	7.160648	3.91598	0.000213	0.000529	-0.02075
OLFML2B	0.866693	7.985805	3.914963	0.000213	0.00053	-0.02401
NAGLU	-0.77414	7.83731	-3.91143	0.000216	0.000536	-0.03533
SARS2	-1.02147	8.427385	-3.9061	0.00022	0.000545	-0.05237
TMEM37	-0.89817	8.468346	-3.90055	0.000224	0.000555	-0.0701
ARL3	1.175705	7.903054	3.898368	0.000226	0.000558	-0.07708
GMDS	-0.82081	8.290439	-3.89473	0.000228	0.000565	-0.0887
SCARNA7	-1.09251	8.796165	-3.89444	0.000229	0.000565	-0.08963
C21orf69	0.784053	7.858771	3.894065	0.000229	0.000566	-0.09082
UHRF1	0.915128	8.628943	3.893633	0.000229	0.000567	-0.0922
STK40	-0.74911	7.757279	-3.89304	0.00023	0.000568	-0.09408
RNMTL1	-1.31514	9.036129	-3.8926	0.00023	0.000568	-0.09548
HIST2H3A	-0.90441	8.102248	-3.89008	0.000232	0.000572	-0.10352
LCMT2	0.975925	8.214434	3.889693	0.000232	0.000573	-0.10476
CGN	-1.01325	8.542587	-3.88677	0.000235	0.000578	-0.11408
C9orf164	0.712329	7.184723	3.883194	0.000237	0.000584	-0.12548
ADAM33	0.779117	7.382253	3.882968	0.000238	0.000584	-0.1262
CXCL16	-1.0617	8.889146	-3.8827	0.000238	0.000585	-0.12705
FURIN	-0.93292	9.885113	-3.87964	0.00024	0.00059	-0.13679

CST1	0.913145	7.501587	3.874768	0.000244	0.000599	-0.15231
DNHD1	0.725033	7.729614	3.871906	0.000247	0.000605	-0.16141
NBPF1	0.988971	9.480523	3.870293	0.000248	0.000608	-0.16654
PARVG	0.834773	10.47525	3.867007	0.000251	0.000614	-0.17698
MIR99B	0.772958	7.135144	3.866192	0.000251	0.000615	-0.17957
MIR138-2	0.769659	6.900577	3.864631	0.000253	0.000618	-0.18453
FAM101B	0.975159	8.207828	3.863271	0.000254	0.00062	-0.18884
TRIM28	-0.82985	9.198907	-3.86221	0.000255	0.000622	-0.1922
KRTAP10-	0.887032	7.368482	3.86021	0.000256	0.000626	-0.19856
PNPLA2	-0.87776	9.485339	-3.8584	0.000258	0.000629	-0.20431
IDH3A	0.860289	9.289237	3.855327	0.000261	0.000635	-0.21405
UTF1	1.102223	7.202751	3.85086	0.000265	0.000644	-0.22822
PIP4K2A	0.716552	8.465945	3.85038	0.000265	0.000645	-0.22974
C16orf71	0.729415	6.969211	3.848724	0.000266	0.000648	-0.23498
IGFBP1	-1.276	8.827893	-3.83975	0.000275	0.000666	-0.26338
SRP14	-0.70011	9.395464	-3.83414	0.00028	0.000678	-0.28112
SNORA46	-0.99097	9.580565	-3.83074	0.000283	0.000685	-0.29187
SFRP5	1.083158	7.760129	3.830654	0.000283	0.000685	-0.29214
GLI2	0.997081	7.759595	3.828485	0.000285	0.000689	-0.29899
SLC22A18	-0.73905	8.841635	-3.82647	0.000287	0.000694	-0.30534
SCARNA1	-1.06366	8.82647	-3.81439	0.000299	0.00072	-0.34345
PIGZ	0.866953	8.308872	3.814285	0.000299	0.00072	-0.34377
FAM38A	-1.34742	10.4887	-3.81258	0.000301	0.000724	-0.34912
HOXB13	0.730489	7.048283	3.809989	0.000303	0.00073	-0.35729
ARSE	-0.84035	7.576206	-3.80628	0.000307	0.000738	-0.36895
SHD	-0.72521	8.043397	-3.80624	0.000307	0.000738	-0.36909
LUM	-0.8382	7.673801	-3.80589	0.000307	0.000738	-0.37019
RNU1F1	-0.89484	9.509063	-3.79969	0.000314	0.000753	-0.38969
F11	-0.75111	8.598665	-3.79815	0.000315	0.000756	-0.39451
ANG	-1.00612	9.912404	-3.79298	0.000321	0.000768	-0.41075
SNORA7A	-0.78105	7.819359	-3.78703	0.000327	0.000782	-0.42942
LOC72966	0.704137	7.210078	3.785197	0.000329	0.000787	-0.43516
PET112L	-0.99577	8.876782	-3.78237	0.000332	0.000794	-0.44402
C22orf29	0.941926	7.853499	3.782143	0.000333	0.000794	-0.44473
ODF4	0.98894	7.369443	3.777424	0.000338	0.000806	-0.4595
UTRN	-0.71369	8.126904	-3.77491	0.000341	0.000812	-0.46737
PCDHA7	0.72446	7.013387	3.774835	0.000341	0.000812	-0.46761
MBL2	-0.87699	7.481785	-3.77323	0.000342	0.000816	-0.47262
VAMP2	-0.72059	7.632186	-3.77206	0.000344	0.000818	-0.47628
CLDN23	-0.99469	7.79708	-3.76861	0.000348	0.000827	-0.48706
EID2B	0.864734	7.922532	3.76647	0.00035	0.000832	-0.49376
GPR98	0.731679	8.385478	3.765499	0.000351	0.000835	-0.49679
EFHD2	-0.97569	10.30531	-3.76504	0.000352	0.000836	-0.49822
C19orf51	0.814461	7.475542	3.763952	0.000353	0.000838	-0.50163
CALML3	1.466185	7.83859	3.762895	0.000354	0.000841	-0.50493
CHRDL2	1.008953	8.409009	3.760908	0.000357	0.000846	-0.51113
ATF6	-0.72302	8.085294	-3.75841	0.00036	0.000852	-0.51893
FAM84B	-0.89712	8.537944	-3.75834	0.00036	0.000852	-0.51915
SERINC2	-0.86501	9.172704	-3.75644	0.000362	0.000857	-0.52507
RUNX2	1.069395	8.162079	3.754526	0.000364	0.000862	-0.53104
EVPL	1.099099	8.326123	3.750173	0.00037	0.000874	-0.5446
TCEAL3	0.710205	7.967392	3.749735	0.00037	0.000875	-0.54597
GALNTL4	0.873572	7.842532	3.748542	0.000372	0.000878	-0.54968
NDUFA3	-1.67745	10.37169	-3.7416	0.00038	0.000895	-0.57129
SECISBP2	-0.74473	9.145698	-3.73578	0.000388	0.000912	-0.58938
TMEM102	1.019186	7.553528	3.735236	0.000388	0.000913	-0.59108
RPL10L	0.783683	7.847665	3.733107	0.000391	0.000919	-0.59769
FCGBP	-0.70659	7.796628	-3.73269	0.000391	0.00092	-0.59898

NUDT4P1	1.060475	9.479223	3.724373	0.000402	0.000943	-0.6248
VAX2	0.716044	7.32219	3.718817	0.00041	0.000958	-0.64202
FABP1	-0.99814	7.578772	-3.71355	0.000417	0.000974	-0.65835
ZFP64	0.737987	8.076025	3.70495	0.000429	0.000999	-0.68493
WDR72	-0.77837	7.684016	-3.70177	0.000433	0.001009	-0.69477
RAB7L1	-0.77049	9.320793	-3.68284	0.000461	0.001068	-0.75315
MGP	-0.82841	8.53961	-3.68108	0.000464	0.001073	-0.75856
GPC3	-0.86074	7.570577	-3.67911	0.000467	0.001079	-0.76461
PNPLA7	-0.81618	8.867635	-3.67772	0.000469	0.001083	-0.76888
TMEM120	-0.84631	9.12759	-3.67613	0.000471	0.001088	-0.77377
FAM19A5	1.01925	7.831291	3.674166	0.000474	0.001095	-0.77981
SETBP1	0.841974	8.211291	3.67393	0.000474	0.001096	-0.78054
TMEM219	-1.09235	10.20348	-3.67354	0.000475	0.001097	-0.78174
SPINK1	-1.20709	7.605406	-3.66995	0.000481	0.001109	-0.79278
MFS10	-1.29024	9.373713	-3.66862	0.000483	0.001113	-0.79685
EPHA1	0.713673	8.452367	3.664513	0.000489	0.001127	-0.80946
CHAF1A	-0.78911	8.837931	-3.66325	0.000491	0.001131	-0.81335
LOC72832	0.804382	8.571764	3.659873	0.000497	0.001142	-0.82369
SLC8A1	0.784269	8.036105	3.651989	0.00051	0.00117	-0.84784
MACROD1	-0.77226	7.379511	-3.64982	0.000513	0.001177	-0.8545
SMCR7L	-0.91628	8.714231	-3.63776	0.000534	0.00122	-0.89135
OSTalpha	-0.8205	8.12123	-3.63512	0.000538	0.00123	-0.89941
KRTAP13-1	0.726631	6.946304	3.632704	0.000542	0.001238	-0.90678
LOC389793	0.794776	6.996697	3.631675	0.000544	0.001242	-0.90992
PRNP	-0.82624	8.996474	-3.62431	0.000557	0.001268	-0.93237
HOM-TEX1	-0.8666	8.105351	-3.61686	0.000571	0.001296	-0.95503
CD19	0.715997	7.319598	3.615784	0.000573	0.0013	-0.95832
KCNJ3	0.739071	7.590215	3.611251	0.000581	0.001318	-0.9721
PABPC1	-0.95129	9.565201	-3.60995	0.000584	0.001323	-0.97606
NBLA003C	0.782281	7.682483	3.609632	0.000584	0.001324	-0.97701
FIG4	0.703004	8.128581	3.606132	0.000591	0.001339	-0.98764
ADA	0.734202	7.84485	3.605974	0.000591	0.001339	-0.98812
SNORD53	-0.91966	9.916757	-3.60532	0.000593	0.001341	-0.99011
WASH3P	-0.97334	7.634505	-3.60112	0.000601	0.001358	-1.00285
MYO7A	0.814604	8.69745	3.600776	0.000601	0.001359	-1.00389
GALNTL6	0.865151	7.154042	3.597441	0.000608	0.001373	-1.014
POR	-0.99012	10.21202	-3.59684	0.000609	0.001375	-1.01583
COL8A1	0.739313	7.873477	3.593134	0.000616	0.00139	-1.02705
SNORA64	-1.33808	10.39637	-3.58303	0.000637	0.001431	-1.05762
FLJ21986	-0.85103	8.23582	-3.58298	0.000637	0.001432	-1.05777
CYP3A7	-0.95484	7.673257	-3.58274	0.000637	0.001432	-1.05848
BATF3	0.813729	7.654126	3.568816	0.000666	0.001493	-1.10052
SNORD10	-1.0096	11.7496	-3.56794	0.000668	0.001497	-1.10318
CLK2	-0.78134	8.17872	-3.56777	0.000669	0.001498	-1.10367
RGPD6	0.794086	8.249805	3.564278	0.000676	0.001512	-1.11419
UNC5A	0.757579	7.240324	3.56028	0.000685	0.00153	-1.12623
ITGB2	-0.71684	8.717516	-3.55397	0.000699	0.001558	-1.14522
SNORD2	-1.30104	8.823082	-3.55023	0.000707	0.001575	-1.15645
SNORD63	-1.06999	8.27062	-3.54843	0.000711	0.001584	-1.16185
LIF	0.98182	8.506827	3.545441	0.000718	0.001598	-1.17083
GOS2	-0.77021	8.050581	-3.54193	0.000726	0.001613	-1.18134
ZNF600	0.773479	8.35104	3.538503	0.000734	0.00163	-1.19163
LMOD1	0.851183	8.322407	3.537645	0.000736	0.001633	-1.1942
ALDH3A1	-1.27432	7.849514	-3.53435	0.000744	0.001649	-1.20407
WNT10A	0.811192	7.217819	3.533152	0.000747	0.001655	-1.20766
GLCCI1	0.731615	7.536482	3.528721	0.000757	0.001677	-1.22092
NPW	-1.00369	9.888087	-3.51436	0.000793	0.001749	-1.2638
FLJ10986	-1.13263	9.398255	-3.49697	0.000838	0.001839	-1.3156

RPS19BP1	-0.75712	7.912516	-3.4908	0.000854	0.001872	-1.33393
PNCK	0.967577	7.558548	3.48388	0.000873	0.00191	-1.35446
ANKRD47	0.95441	8.28897	3.479748	0.000885	0.001934	-1.36671
GLIS2	0.87401	9.314751	3.474461	0.0009	0.001965	-1.38236
HIST1H4C	-0.79045	9.3663	-3.47329	0.000903	0.001971	-1.38583
ROBO1	-0.75896	8.396825	-3.46598	0.000924	0.002011	-1.40743
LRRC14	-0.80391	8.964963	-3.46392	0.00093	0.002023	-1.41354
BHLHB3	0.894185	8.032188	3.463151	0.000932	0.002027	-1.41579
NSMCE4A	-0.79792	7.92828	-3.45588	0.000954	0.002071	-1.43725
LOC2859C	0.964418	9.018563	3.453133	0.000962	0.002087	-1.44535
CLDN9	0.954811	8.142774	3.445352	0.000986	0.002133	-1.46826
ZNF48	0.704394	7.666972	3.443573	0.000991	0.002143	-1.47349
CCL19	-1.09566	7.972348	-3.41989	0.001068	0.002292	-1.54297
GATAD2A	-0.74314	9.08469	-3.40616	0.001115	0.002383	-1.58311
RNU1G2	-0.97657	11.97402	-3.40533	0.001118	0.002388	-1.58552
EEF1A2	-1.34775	8.120405	-3.40307	0.001125	0.002404	-1.59212
DNAJC9	0.704526	8.432242	3.40299	0.001126	0.002404	-1.59236
IPPK	0.750491	7.02295	3.38789	0.00118	0.002511	-1.63633
NAGS	-0.77822	7.872526	-3.38729	0.001182	0.002515	-1.63807
NRXN2	0.79079	8.299147	3.38433	0.001193	0.002536	-1.64668
SFRS9	-0.80277	8.570552	-3.37831	0.001216	0.00258	-1.66415
SCG5	-0.72773	7.974465	-3.36649	0.001261	0.00267	-1.69841
HIST1H2B	-0.78638	8.453236	-3.36453	0.001269	0.002685	-1.70409
PXMP2	-0.86065	9.538159	-3.3601	0.001286	0.00272	-1.71689
GLTPD1	-0.70685	7.687291	-3.35592	0.001303	0.002755	-1.72897
KIF1A	0.793129	7.69132	3.339178	0.001372	0.002888	-1.77725
MYPOP	-0.81377	8.042927	-3.33469	0.001391	0.002925	-1.79016
LELP1	0.717597	7.280102	3.331547	0.001405	0.00295	-1.79919
B3GNT7	0.868461	7.752059	3.32847	0.001418	0.002977	-1.80803
LGR5	1.02248	8.219123	3.32816	0.001419	0.002979	-1.80892
C20orf43	-0.90291	8.783222	-3.32595	0.001429	0.002997	-1.81528
ZNF467	-0.90195	9.567472	-3.31683	0.00147	0.003074	-1.84141
PLA2G4C	-0.70783	7.801496	-3.3123	0.00149	0.003113	-1.85437
CSAG1	0.74653	7.284593	3.306943	0.001515	0.00316	-1.8697
RENBP	-0.88916	8.066644	-3.30233	0.001537	0.003202	-1.88287
SEMA6A	0.726527	7.657057	3.293072	0.001581	0.003286	-1.90928
UGT2B7	-0.78713	10.57642	-3.2877	0.001607	0.003335	-1.92459
VIPR1	-1.17101	9.723694	-3.28421	0.001624	0.003366	-1.93451
ANXA5	-0.78576	8.034199	-3.28011	0.001645	0.003404	-1.94617
CCNI	-0.93778	8.640306	-3.27068	0.001693	0.003493	-1.97292
CYP3A4	-0.87473	7.557512	-3.26341	0.001731	0.003562	-1.99354
C9orf16	-0.75875	8.160007	-3.24455	0.001833	0.003753	-2.0468
DTNB	-0.7952	7.736869	-3.23928	0.001862	0.003808	-2.06164
COMMD3	-0.74062	7.982589	-3.22186	0.001963	0.003991	-2.11061
FGD3	-0.78058	8.504582	-3.22123	0.001967	0.003998	-2.11236
SLC5A2	0.780027	7.314369	3.219183	0.001979	0.004021	-2.11811
ICAM2	0.824576	8.338322	3.215213	0.002003	0.004064	-2.12923
ADORA2A	0.817629	7.981586	3.204471	0.002068	0.004186	-2.15927
GNB2	-0.70627	7.793165	-3.19763	0.002111	0.004264	-2.17838
C2orf82	-0.91418	8.593601	-3.1968	0.002117	0.004273	-2.1807
HLA-DRB1	-0.77111	7.103102	-3.19612	0.002121	0.004279	-2.18259
FGF22	0.81477	7.17562	3.19218	0.002146	0.004326	-2.19356
STOX2	0.918766	10.01164	3.183566	0.002202	0.004429	-2.21753
ONECUT2	-0.77853	8.921689	-3.16616	0.00232	0.004647	-2.26582
PSCD4	0.830509	8.974399	3.159752	0.002365	0.004726	-2.28356
NAT8B	-0.70548	7.703837	-3.14212	0.002493	0.004955	-2.33222
IFITM4P	0.95501	7.655918	3.139578	0.002512	0.00499	-2.3392
ZNF34	0.707693	7.779322	3.135733	0.00254	0.005045	-2.34978

SLC17A4	-0.83942	8.84437	-3.13116	0.002575	0.005106	-2.36235
ANXA8L2	0.831224	7.967653	3.127792	0.002601	0.005149	-2.37159
SAE1	-1.17104	9.120281	-3.12316	0.002637	0.005214	-2.38428
FOXN2	-0.74062	8.300422	-3.11892	0.00267	0.005269	-2.3959
SPP1	-0.91646	8.697572	-3.10359	0.002794	0.005496	-2.43782
ERRFI1	-0.89837	8.748957	-3.1033	0.002796	0.005499	-2.4386
NDUFA12	-0.80964	10.77103	-3.1011	0.002815	0.005529	-2.44459
SERPINE2	-1.23405	8.870304	-3.09966	0.002827	0.005551	-2.44851
GSTM1	-0.87849	7.835806	-3.08683	0.002935	0.005747	-2.48343
TMED3	-0.83601	8.739519	-3.08596	0.002943	0.00576	-2.4858
NEU4	-1.06582	9.018533	-3.08383	0.002962	0.005791	-2.4916
IIP45	0.792848	7.614354	3.078557	0.003008	0.005874	-2.50589
NCRNA00	0.717824	7.290797	3.07751	0.003017	0.005889	-2.50873
RNU5D	-0.80047	7.894167	-3.07695	0.003022	0.005898	-2.51026
CRLS1	-0.84033	8.701108	-3.0567	0.003207	0.006224	-2.56502
SNORD43	-1.02741	8.731777	-3.05538	0.003219	0.006244	-2.56857
RPS6KL1	0.809217	7.968476	3.049069	0.003279	0.006347	-2.58557
FLJ36070	0.837422	8.441802	3.034956	0.003417	0.006589	-2.62349
LOC6538C	0.897737	8.517062	3.024352	0.003524	0.006779	-2.6519
NECAB2	-0.72553	7.826374	-3.01314	0.00364	0.006987	-2.68187
POU2AF1	0.74073	7.878955	3.005142	0.003726	0.007136	-2.70317
SNORA5C	-1.05979	9.063054	-3.00467	0.003731	0.007145	-2.70442
AKT2	-0.71901	9.053089	-2.96875	0.004138	0.007839	-2.79962
PGF	0.775974	8.586553	2.954717	0.004308	0.008136	-2.83657
CLIP3	-0.79438	8.810927	-2.93658	0.004537	0.008533	-2.88413
HPDL	0.959416	7.678303	2.909397	0.004902	0.009153	-2.95499
CYP2B7P1	0.822319	8.368435	2.907141	0.004933	0.009204	-2.96084
C19orf47	0.810028	9.080404	2.898005	0.005063	0.009424	-2.98453
C9	-0.76041	7.845718	-2.87804	0.005356	0.009914	-3.03608
SNORD3C	-1.2768	8.271541	-2.87295	0.005434	0.010044	-3.04919
SNORD30	-1.15378	9.865838	-2.86946	0.005487	0.010133	-3.05815
Magmas	-1.05704	9.122799	-2.85745	0.005675	0.010447	-3.08896
RAMP1	-0.75238	8.395164	-2.84035	0.005954	0.010911	-3.13267
RAB6B	0.72219	7.256012	2.822868	0.006251	0.011411	-3.17711
SLC2A6	-0.7877	9.012948	-2.82193	0.006268	0.01144	-3.1795
AP2M1	-0.72002	9.362362	-2.81944	0.006311	0.011512	-3.18579
ATOX1	0.719611	7.959843	2.818778	0.006323	0.01153	-3.18748
TTC36	0.905562	8.220226	2.815705	0.006377	0.011617	-3.19526
SHBG	-0.75745	9.021603	-2.80973	0.006484	0.0118	-3.21037
IRGQ	0.842368	8.938594	2.79464	0.006761	0.012259	-3.24844
IGFBP2	-0.82952	8.50886	-2.78749	0.006896	0.012473	-3.26642
H19	-1.00032	8.753451	-2.76435	0.007349	0.013228	-3.32434
C14orf133	0.713699	9.369655	2.75214	0.0076	0.013644	-3.35475
XAGE1A	1.156608	8.510656	2.745831	0.007732	0.013865	-3.37042
GNG10	0.707006	8.954184	2.740328	0.007849	0.014058	-3.38407
RABAC1	-0.7002	8.609131	-2.73994	0.007858	0.014069	-3.38502
NOXA1	0.726255	8.459287	2.704334	0.008657	0.015358	-3.47279
HNRNPL	-0.98354	8.686643	-2.68598	0.009098	0.016068	-3.51767
ZNF668	0.875233	8.862661	2.651485	0.009981	0.017463	-3.60134
MGST2	-0.73652	9.712077	-2.65	0.010021	0.017531	-3.60491
FAM46A	0.80759	9.634162	2.543068	0.01329	0.022666	-3.85859
TRIB1	-0.75437	9.342632	-2.5354	0.013558	0.023079	-3.87645
LOC6449C	0.781596	10.0565	2.498136	0.014931	0.025188	-3.96261
RSPRY1	0.805705	9.429461	2.465243	0.016246	0.027169	-4.03779
CITED4	-0.7061	9.931331	-2.44525	0.017095	0.028446	-4.08308
ACTG2	-0.71051	8.482373	-2.44241	0.017218	0.028634	-4.08948
CDA	0.740892	9.249691	2.424054	0.018038	0.029877	-4.13076
MRPL21	-0.75975	8.666433	-2.35919	0.021221	0.034636	-4.27449

RXRA	-0.74204	9.836244	-2.32223	0.02325	0.037628	-4.35492
MT1X	-0.9159	10.04525	-2.29875	0.024627	0.039599	-4.40544

supplementary Table 2

ONTOLOGY	ID	Description of term	GeneRatio	BgRatio	pvalue	p. adjust	qvalue
BP	GO:0016999	antibiotic metabolic process	62/3673	151/18670	1.196E-09	6.33483E-07	5.49637E-07
BP	GO:0046034	ATP metabolic process	89/3673	305/18670	3.87271E-05	0.002675535	0.002321409
BP	GO:0016101	diterpenoid metabolic process	44/3673	110/18670	6.98063E-07	0.000113766	9.87085E-05
BP	GO:0006631	fatty acid metabolic process	115/3673	383/18670	6.68861E-07	0.000113766	9.87085E-05
BP	GO:0042445	hormone metabolic process	73/3673	232/18670	1.21286E-05	0.001117241	0.000969366
BP	GO:0042743	hydrogen peroxide metabolic	25/3673	57/18670	2.73309E-05	0.002052295	0.001780658
BP	GO:0006720	isoprenoid metabolic process	52/3673	139/18670	8.5132E-07	0.000131975	0.000114507
BP	GO:0001819	positive regulation of cytokine production	117/3673	464/18670	0.001846801	0.043963541	0.038144644
BP	GO:0009167	purine ribonucleoside monophosphate metabolic process	97/3673	340/18670	4.72518E-05	0.003195025	0.00277214
BP	GO:0036293	response to decreased oxygen levels	109/3673	370/18670	3.45939E-06	0.000429552	0.000372698

BP	GO:0001666	response to hypoxia	106/3673	359/18670	4.18986E-06	0.000484195	0.000420108
BP	GO:0070482	response to oxygen levels	118/3673	394/18670	5.55748E-07	9.81204E-05	8.51334E-05
BP	GO:0001523	retinoid metabolic process	42/3673	104/18670	9.16384E-07	0.000138679	0.000120324
BP	GO:0006721	terpenoid metabolic process	48/3673	120/18670	2.21993E-07	4.86548E-05	4.2215E-05
BP	GO:0006805	xenobiotic metabolic process	51/3673	125/18670	4.39706E-08	1.21512E-05	1.05429E-05

geneID

ACLY/ACO1/ACO2/ADH1A/ADH1B/ADH1C/ALDH1A1/ALDH2/CAT/AKR1C4/ABCC2/CYBA/CYP1A2/CYP4B1/AKR1C2/DLST/EGFR/FH/GPX3/HBA2/HBB/HBG1/HBG2/HBQ1/HP/IDH1/IDH2/IDH3A/IDH3G/LPO/MDH1/MDH2/PRDX1/PCK2/RENBP/SDHA/SDHB/ST6GAL1/SOD1/STAR/STAT3/SULT2A1/ALDH5A1/AKR7A2/AKR1C3/SUCLG1/PRDX6/HDAC6/AKR1A1/NOXA1/FTCD/PRDX3/PARK7/PRDX5/NOX1/DUOX1/UGT1A1/ACSS2/AKR1B10/DUOX1/AMDHD1/MPV17L
ADCYAP1/AK2/ALDOA/ALDOB/APP/RHOA/ATP1B1/ATP6V1A/ATP6V1B1/TSP0/CBFA2T3/COX4I1/COX5B/COX6C/COX7A2/COX7C/COX8A/COX15/CYC1/GALK1/GAPDH/GCK/GPI/GUK1/HIF1A/HSPA1A/HSPA1B/HSPA8/HTR2A/LDHA/MYH7/NDUFA1/NDUFA2/NDUFA3/NDUFA4/NDUFA8/NDUFA10/NDUFAB1/NDUFB5/NDUFB6/NDUFB7/NDUFB8/NDUFB10/NDUFC1/NDUFS2/NDUFS3/NDUFV1/NDUFS5/NDUFS8/NDUFV2/PFKFB1/PFKFB3/PFKL/PGM1/SDHA/SEC13/SHMT2/SLC4A1/STAT3/SURF1/UQCRC1/UQCRFS1/UQCRH/OGT/SLC25A12/NUP93/SLC25A13/NUDT5/SLC2A6/TREX1/PARK7/ISCU/ZBTB20/NUPR1/UQCRQ/DNAJC15/STOML2/MLXIPL/NDUFB11/DDIT4/NUP133/NDUFA12/ADH1A/ADH1B/ADH1C/ALDH1A1/APOA1/APOA2/APOB/APOC2/APOC3/APOE/AKR1C4/CLPS/CYP1A2/CYP3A7/CYP2C8/CYP3A4/CYP3A5/EGFR/GPC3/HSPG2/PNLIP/RARR/ES2/RBP1/RBP4/OPN1LW/RDH5/SDC4/STAR/TTR/RDH16/AKR1C3/DGAT1/LRAT/DHRS3/SDC3/CYP2S1/UGT1A1/UGT1A3/APOM/CYP26B1/AKR1B10/RDH12/PLB1/CYP4V/ACAA1/ACACB/ACADVL/ACAT1/ACLY/AKT1/AKT2/ALOX12B/APOC1/APOC2/APOC3/ATP6V1B1/AUH/AVP/BAAT/C3/CBR1/CD74/CES1/AKR1C4/MAPK14/CYP1A2/CYP2C8/CYP2E1/CYP2F1/CYP2J2/CYP3A4/CYP4A11/AKR1C2/DECR1/ECH1/ECHS1/EHHADH/EPHX2/ETFA/ETFB/ETFDH/FABP1/GHSR/GIP/GPX4/GSTA1/GSTM2/HADHA/HSD17B4/IL1B/INSIG1/IRS1/LEP/LIPC/MIF/NDUFAB1/PCCB/PCK2/PEX7/PHYH/PON2/POR/PRKAB2/MAPK3/SCD/SCP2/TH/TNFRSF1A/UCP3/XBP1/ALDH5A1/ACOX2/PLA2G10/GNPAT/DEGS1/PLA2G4C/AKR1C3/CES2/ADIPOQ/QKI/LPIN2/NR1H3/LYPLA1/PTGES3/SLC27A3/ERLIN2/TREX1/SCAP/PTGR1/LPIN1/AMACR/HACL1/DECR2/ANGPTL3/CYP2S1/CRYL1/MLXIPL/MECR/AIG1/ACSL5/ECHDC2/ACSS2/CYP4F11/MID1IP1/ELOVL5/ELOVL6/SCD5/PTGES2/LONP2/ACAD11/THEM4/ACOT12/PLA2G4F/CYP4V/ACAA1/ADH1A/ADH1B/ADH1C/ADM/ALDH1A1/ALDH9A1/APOA1/ATP1A1/TSP0/SCARB1/CES1/CHAT/AKR1C4/COMT/CTSZ/CYP1A2/CYP3A7/CYP2C8/CYP3A4/CYP3A5/CYP27A1/AKR1C2/DIO2/ENPEP/FSHB/GATA3/GHR/GNB3/PRLHR/FFAR3/HIF1A/HPN/HSD17B4/IDE/IL1B/LEP/FURIN/PCSK6/POR/KLK6/RBP1/RBP4/RDH5/SAFB/SCG5/SPP1/STAR/TTR/UGT2B7/YWHAH/PAX8/COLQ/RDH16/HSD17B6/AKR1C3/DGAT1/LRAT/DHRS3/ATP6AP2/STUB1/CYP2S1/HSD17B11/DUOX1/UGT1A1/UGT1A3/CYP26B1/CAT/CYBA/CYP1A2/EGFR/GPX3/HBA2/HBB/HBG1/HBG2/HBQ1/HP/LPO/PRDX1/SOD1/STAT3/PRDX6/HDAC6/NOXA1/PRDX3/PARK7/PRDX5/NOX1/DUOX1/DUOX1/MPV17/ADH1A/ADH1B/ADH1C/ALDH1A1/APOA1/APOA2/APOB/APOC2/APOC3/APOE/AKR1C4/CLPS/CYP1A2/CYP3A7/CYP2C8/CYP2E1/CYP3A4/CYP3A5/EGFR/FDFT1/GPC3/HMGCS1/HMGCS2/HSPG2/PHYH/PNLIP/RARR/ES2/RBP1/RBP4/OPN1LW/RDH5/SDC4/STAR/TH/TTR/RDH16/AKR1C3/DGAT1/DPM1/LRAT/DHRS3/SDC3/NPC2/CYP2S1/UGT1A1/ABL1/ADCYAP1/AGT/BIRC2/APOA2/APP/ATF4/AZU1/B2M/C3/C5/CD14/TNFRSF8/CD74/CD81/CEBPB/CCR7/CREB1/ATF2/MAPK14/CSF1R/CYBA/DDT/DDX1/DDX3X/EP300/F2R/FCER1G/XRCC6/GAPDH/GATA3/FFAR3/FFAR2/HDAC2/HIF1A/HLA-DPA1/HLA-E/HMGB1/HSPA1A/HSPA1B/HSPB1/HSPD1/IL1B/IL6/IL6R/IL6ST/IL10/IL18/IRAK1/ISL1/KIR2DL4/LBP/LEP/LUM/LY9/CD46/MIF/ORM1/ORM2/FURIN/PAEP/PDE4B/PIK3R1/SERPINF2/POLR2F/POLR2H/PRKCQ/PRKDC/MAPK3/MAPK13/RARA/RPS3/CCL19/CX3CL1/SOD1/SPTBN1/SRC/STAT1/STAT3/STAT6/THBS1/WNT11/XBP1/TNFRSF14/ARHGFE2/ADIPOQ/PUM1/ATP6AP2/LILRB2/LILRB1/PARK7/LY96/LSM14A/ZBTB20/CLEC4E/NOX1/CRCP/IL23A/POLR3B/GSDMD/AFAP1L2/IL1F10/TSLP/NLRADA/ADCYAP1/AK2/ALDOA/ALDOB/AMPD1/APP/RHOA/AT1C/ATP1B1/ATP6V1A/ATP6V1B1/TSP0/CBFA2T3/COX4I1/COX5B/COX6C/COX7A2/COX7C/COX8A/COX15/CYC1/GALK1/GAPDH/GCK/GPI/GUK1/HIF1A/HSPA1A/HSPA1B/HSPA8/HTR2A/IMPDH2/LDHA/MYH7/NDUFA1/NDUFA2/NDUFA3/NDUFA4/NDUFA8/NDUFA10/NDUFAB1/NDUFB5/NDUFB6/NDUFB7/NDUFB8/NDUFB10/NDUFC1/NDUFS2/NDUFS3/NDUFV1/NDUFS5/NDUFS8/NDUFV2/PFKFB1/PFKFB3/PFKL/PGM1/SDHA/SEC13/SHMT2/SLC4A1/STAT3/SURF1/UQCRC1/UQCRFS1/UQCRH/OGT/SLC25A12/NUP93/SLC25A13/NUDT5/NUDT3/SLC2A6/TREX1/PARK7/NT5C2/ISCU/ZBTB20/NUPR1/UQCRQ/DNAJC15/STOML2/AK3/ACTN4/ADA/ADM/AKT1/ALDH3A1/ANG/BIRC2/RHOA/ATF4/ATP1B1/ZFP36L1/CA9/CAT/CBFA2T3/CHRNA4/CLDN3/CREB1/CYBA/DPP4/EDNRA/EP300/EPAS1/EPO/ERCC2/ETS1/F7/FABP1/GNB1/HIF1A/IRAK1/ITPR2/KCNMA1/LDHA/LEP/LMNA/LOXL2/SMAD4/MYC/NF1/NFE2L2/NOS1/NOS2/SLC11A2/PGF/PIN1/PLOD1/PSMA1/PSMA5/PSMA6/PSMB1/PSMB3/PSMB4/PSMB7/PSMB10/PSMC2/PSMC3/PSMC5/PSMC6/PSMD4/PTEN/RPS27A/SCN2A/SLC8A1/SRC/SUV39H1/TMBIM6/TERC/TH/THBS1/HSP90B1/UBA52/UBB/UBC/UCP3/USF1/VCAM1/VEGFB/XRCC1/CXCR4/ADAM15/ADIPOQ/PICK1/NAMPT/STUB1/NDRG1/HYOU1/PHB2/SCAP/P2RX2/PSME4/HIGD1A/ANKRD1/B3GAT1

ACTN4/ADA/ADM/AKT1/ALDH3A1/ANG/BIRC2/RHOA/ATP1B1/ZFP36L1/CA9/CAT/CBFA2T3/CHRNA4/CLDN3/CREB1/CYBA/DPP4/EDNRA/EP300/EPAS1/EPO/ERCC2/ETS1/F7/FABP1/GNB1/HIF1A/IRAK1/ITPR2/KCNMA1/LDHA/LEP/LMNA/LOXL2/SMAD4/MYC/NF1/NFE2L2/NOS1/NOS2/SLC11A2/PGF/PIN1/PLOD1/PSMA1/PSMA5/PSMA6/PSMB1/PSMB3/PSMB4/PSMB7/PSMB10/PSMC2/PSMC3/PSMC5/PSMC6/PSMD4/PTEN/RPS27A/SCN2A/SLC8A1/SRC/SUV39H1/TMBIM6/TERC/TH/THBS1/HSP90B1/UBA52/UBB/UBC/UCP3/USF1/VCAM1/VEGFB/XRCC1/CXCR4/ADAM15/ADIPOQ/STUB1/NDRG1/HYOU1/PHB2/SCAP/P2RX2/PSME4/HIGD1A/ANKRD1/B3GAT1/HIPK2/UBQLN1/FIS

ACTN4/ADA/ADM/AKT1/ALDH3A1/ANG/BIRC2/RHOA/ATF4/ATP1B1/ATP6V1A/ATP6AP1/ZFP36L1/CA9/CAT/CBFA2T3/CHRNA4/COL1A1/CLDN3/CREB1/CYBA/DPP4/EDNRA/EP300/EPAS1/EPO/ERCC2/ETS1/F7/FABP1/GNB1/HDAC2/HIF1A/IRAK1/ITPR2/KCNMA1/LDHA/LEP/LMNA/LOXL2/SMAD4/MYC/NF1/NFE2L2/NOS1/NOS2/SLC11A2/PDGFRB/PGF/PIN1/PLOD1/POU4F2/PSMA1/PSMA5/PSMA6/PSMB1/PSMB3/PSMB4/PSMB7/PSMB10/PSMC2/PSMC3/PSMC5/PSMC6/PSMD4/PTEN/RPS27A/SCN2A/SLC8A1/SRC/SUV39H1/TMBIM6/TERC/TH/THBS1/HSP90B1/UBA52/UBB/UBC/UCP3/USF1/VCAM1/VEGFB/XRCC1/CXCR4/ADAM15/ADIPOQ/PICK1/ATP6V1G1/NAMPT/STUB1/NDRG1/HYOU1/ATG7/PHB2/SCAP/P2RX2/PSME4/HIGD1A/NOX1/ANKRD1/B3GAT1/HIPK2/UBQLN1/FIS1/ANGPTL4/ANGPT4/DDIT4/EGLN1/ALKBH5/CPEB1/BRIP1/MYOC/ADH1A/ADH1B/ADH1C/ALDH1A1/APOA1/APOA2/APOB/APOC2/APOC3/APOE/AKR1C4/CLPS/CYP1A2/CYP3A7/CYP2C8/CYP3A4/CYP3A5/GPC3/HSPG2/PNLIP/RARRES2/RBP1/RBP4/OPN1LW/RDH5/SDC4/TTR/RDH16/AKR1C3/DGAT1/LRAT/DHRS3/SDC3/CYP2S1/UGT1A1/UGT1A3/APOM/CYP26B1/AKR1B10/RDH12/PLB1/CYP4V2

ADH1A/ADH1B/ADH1C/ALDH1A1/APOA1/APOA2/APOB/APOC2/APOC3/APOE/AKR1C4/CLPS/CYP1A2/CYP3A7/CYP2C8/CYP2E1/CYP3A4/CYP3A5/EGFR/FDFT1/GPC3/HMGCS1/HMGCS2/HSPG2/PNLIP/RARRES2/RBP1/RBP4/OPN1LW/RDH5/SDC4/STAR/TTR/RDH16/AKR1C3/DGAT1/LRAT/DHRS3/SDC3/CYP2S1/UGT1A1/UGT1A3/APOM/CYP26AADAC/ACAA1/ACY1/AHR/ALDH3A1/BAAT/CES1/CYP1A2/CYP3A7/CYP2C8/CYP2E1/CYP2F1/CYP2J2/CYP3A4/CYP3A5/CYB5R3/EPHX1/EPHX2/FMO2/FMO3/GHR/GRIN1/GSTA1/GSTM1/GSTM2/GSTM5/HNF4A/HSP90AB1/LPO/MGST1/MGST2/POR/STAR/UGT2B15/AKR7A2/CES2/GSTO1/PTGES3/AKR7A3/N6AMT1/CYP2S1/UGT1A6/UGT1A4/

Count

62

89

44

115

73

25

52

117

97

109

106

118

42

48

51